





Engineering Data

Split Type Air Conditioners

- Heat Pump -

RX-W Series





Split Type Air Conditioners RX-W Series

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1. Lineup

Indoor U	nit	Outdoor Unit	Power Supply
	FTXR09WVJUW9	RX09WMVJU9	
	FTXR09WVJUS9	RX09WMVJU9	
	FTXR12WVJUW9	RX12WMVJU9	
wall mounted type	FTXR12WVJUS9	RX12WMVJU9	
	FTXR18WVJUW9	RX18WMVJU9	
	FTXR18WVJUS9	RX18WMVJU9	
	FDMQ09WVJU9	RX09WMVJU9	
	FDMQ12WVJU9	RX12WMVJU9	1 phase, 208 - 230 V, 60 Hz
Duct concealed type	FDMQ15WVJU9	RX15WMVJU9	
	FDMQ18WVJU9	RX18WMVJU9	
	FDMQ24WVJU9	RX24WMVJU9	
	FFQ09W2VJU9	RX09WMVJU9	
	FFQ12W2VJU9	RX12WMVJU9	
Celling mounted cassette type	FFQ15W2VJU9	RX15WMVJU9	
	FFQ18W2VJU9	RX18WMVJU9	1

Note: Power Supply Intake ; Outdoor Unit

Cautions
1. Air conditioners should not be installed in areas where corrosive gasses, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided and choose an outdoor unit with anti-corrosion treatment.

2. Functions

			Duct Co	nacolod	Ceiling Cassette FFQ				
Category	Functions	Wall Mounted	FD	MQ	with BYFQ60B3W1		W BYFQ600	ith 22W1W(S)	
		FIAR	Wired R/C	Wireless R/C	Wired R/C	Wireless R/C	Wired R/C	Wireless R/C	
Basic Function	Inverter (with inverter power control)	•	•	•	•	•	•	•	
	Operation limit			Re	fer to page	55			
	PAM control	•	•	•	•	•	•	•	
	Standby electricity saving		_	—		—	—	—	
Compressor	Swing compressor	•	•	•	•	•	•	•	
	Reluctance DC motor	•	•	•	•	•	•	•	
Comfortable	Power-airflow dual flaps (horizontal blades)	•	—	—	_	—	—	_	
AITIOW	Wide-angle louvers (vertical blades)	•	—	—	—	—	—	—	
	Auto-swing (up and down)	•	—	—	_	—	_	_	
	Auto-swing (right and left)	•	—	—	—	—	—	—	
	3-D airflow	•	—	—	—	—	—	_	
	COMFORT AIRFLOW operation	•	—	—	—	—	—	—	
	Auto-swing	_	—	—	•	•	•	•	
	Individual flap control	—	—	—	—	—	•	—	
Comfort Control	Auto fan speed	•	•	—	•	—	•	—	
	Switchable fan speed	5 steps	3 steps	3 steps	3 steps	3 steps	3 steps	3 steps	
	Indoor unit quiet operation	•	—	—	—	—	—	—	
	2 selectable temperature sensors	—	•	—	—	—	—	—	
	Presence and floor sensor (option)	—	_	—	_	—	Option	—	
	Hot-start function	•	•	•	•	•	•	•	
	QUIET OUTDOOR UNIT operation (manual)	•	—	—	—	—	—	—	
	INTELLIGENT EYE operation (auto energy saving)	•	_	_	_			_	
	2-area INTELLIGENT EYE operation (comfort)	•	—	_	_	—	—	—	
	Quick warming function	•	•	•	•	•	•	•	
	Automatic defrosting	•	•	•	•	•	•	•	
Operation	Automatic cooling/heating changeover	•	•	•	•	•	•	•	
	Program dry operation	•	•	•	•	•	•	•	
	Fan only	•	•	•	•	•	•	•	
	Setback function	_	—	_	•	—	•	_	
Lifestyle	Inverter POWERFUL operation	•	—	—	—	—	—	—	
Convenience	ECONO operation	•	—	—	—	—	—	—	
	Indoor unit ON/OFF switch	•	—	—	—	—	—	_	
	Emergency operation switch	_	—	•	—	•	—	•	
	Multi-colored indicator lamp	•							
	Multi-colored lamp brightness setting	•	—					—	
	Signal receiving sign	•		•*		•*		•*	
	Remote controller with back light	•	•	_	•		•	_	

			Duct Co	ncealed	Ceiling Cassette FFQ				
Category	Functions	Wall Mounted	FD	MQ	with BYFQ60B3W1		W BYFQ600	ith C2W1W(S)	
		FIAR	Wired R/C	Wireless R/C	Wired R/C	Wireless R/C	Wired R/C	Wireless R/C	
Health and	Titanium apatite deodorizing filter	•	_	—		_	—	—	
Cleanliness	Mold proof air filter	•		—		_		_	
	Longlife filter	—	_	—	Option	Option	Option	Option	
	Filter cleaning indicator	_	•	•	•	•	•	•	
	Wipe-clean flat panel	•	—	—	—	—	—	—	
	Silver ion anti-bacterial drain pan	_	•	•	—	—	—	—	
Timer	WEEKLY TIMER operation	•	—	—	—	—	—	—	
	Schedule timer	—	•	—	٠	—	•	—	
	Setpoint auto reset	_	•	—	—	—	_	—	
	Setpoint range set	—	•	—	—	—	—	—	
	24-hour ON/OFF TIMER	•	•	—	٠	—	•	—	
	72-hour ON/OFF TIMER	_	—	•	_	•	—	•	
	Off timer (turns unit off after set time)	—	•	—	٠	—	•	—	
	NIGHT SET mode	•	—	—	_	—	—	—	
Remote Control	Remote control adaptor (normal open pulse contact)	Option	—	_	_	_	_	_	
	Remote control adaptor (normal open contact)	Option	—	—	—	—	—	—	
	DIII-NET compatible (adaptor)	Option	Option	Option	Option	Option	Option	Option	
	Wireless LAN connection	Option	Option	Option	Option	Option	Option	Option	
Worry Free	Auto-restart (after power failure)	•	•	•	•	•	•	•	
Durability)	Self-diagnosis (R/C, LED)	•	•	•	•	•	•	•	
	Anti-corrosion treatment of outdoor heat exchanger	•	•	•	•	•	•	•	
Work &	Multi-split/split type compatible indoor unit	•	•	•	٠	•	•	•	
Servicing	Either side drain (right or left)	•	—	—	_	—	—	—	
	Chargeless	32.8 ft. (10m)	32.8 ft. (10m)	32.8 ft. (10m)	32.8 ft. (10m)	32.8 ft. (10m)	32.8 ft. (10m)	32.8 ft. (10m)	
	Drain pump	_	•	•	•	•	•	•	
	Low temperature cooling operation (14°F) $(-10^{\circ}C)$	•	•	•	٠	•	•	•	
	Low temperature cooling operation (–4°F) (–20°C) Requires wind baffle and field settings	•	•	•	•	•	•	•	
	°F/°C changeover R/C temperature display (factory setting: °F)	•	•	(°F only)	•	(°F only)	•	(°F only)	

• : Available

★ : Receiving sound only

— : Not available

3. Specifications

Indoor Unit		FTXR09\	WVJUW9	FTXR09WVJUS9			
Model	Outdoor Unit		RX09W	/MVJU9	RX09W	MVJU9	
	Outdoor Unit		Cooling Heating		Cooling	Heating	
Power Supply			1 φ, 208 - 2	30 V, 60 Hz	1 φ, 208 - 2	30 V, 60 Hz	
Capacity Rated (Min N	Max.)	Btu/h	9,000 (4,500 - 10,600)	10,000 (4,100 - 14,600)	9,000 (4,500 - 10,600)	10,000 (4,100 - 14,600)	
Running Current (Rated)	A	4.28 - 3.87	3.83 - 3.46	4.28 - 3.87	3.83 - 3.46	
Power Consumption (Ra	ated)	W	819 - 819	733 - 733	819 - 819	733 - 733	
Power Factor (Rated)		%	92.0 - 92.0	92.0 - 92.1	92.0 - 92.0	92.0 - 92.1	
SEER2 / HSPF2			18.00	7.50	18.00	7.50	
EER2 (Rated)		Btu/h·W	11.00		11.00	_	
COP2 (Rated)		W/W		4 00		4 00	
	Liquid	in (mm)	ф 1/4	(6.4)	ф 1/4	(6.4)	
Pining Connections	Gas	in (mm)	φ 1/ 1 φ 3/8	(0.5)	φ 1/ 1 φ 3/8	(0.5)	
	Drain	in (mm)	φ 0,0	6 (18)	φ 0/0	6 (18)	
Heat Insulation	Diam		Poth Liquid a	nd Cas Pinos	φ Π/Π Both Liquid a	nd Cas Pinos	
	n ath	ft (ma)	Both Elquid a		Both Liquid a		
Max. Interunit Piping Le	figun	ft (m)	05-5/	0 (20)	05-5/	0 (20)	
Nax. Interunit Height Di	nerence	π (m)	49-1/-	4 (15)	49-1/-	4 (15)	
Chargeless		π (m)	32-3/-	4 (10)	32-3/4	4 (10)	
Amount of Additional Cr	harge of	OZ/ft	0.21	(20)	0.21	(20)	
Indoor Unit		(g/m)	ETYPOOL	A/V/ 11 1)A/Q	ETYPOO		
Front Panel Color				pito		vor	
	1	cfm	272/208/162/124	3/6/258/201/117	272/208/162/124	3/6/258/201/117	
Airflow Rate	H/M/L/SL	CIIII m3/min	77/50/46/29	0 8 / 7 2 / 5 7 / 2 2	77/50/46/29	0 8 / 7 2 / 5 7 / 2 2	
	Turne / Crosed	Stana	7.775.974.075.0	9.0/1.3/5.1/5.3	7.775.974.075.8	9.0/7.3/5.7/3.3	
Fall Air Direction Control	Type / Speed	Steps	Closs Flow Fall / 5	Steps, Quiet, Auto	Closs Flow Fall / 5	Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horiz	ontal, Downward	Right, Left, Horiz	ontal, Downward	
Air Filter			Removable	, washable	Removable	, Washable	
Running Current (Rated)	A	0.07 - 0.07	0.13 - 0.12	0.07 - 0.07	0.13 - 0.12	
Power Consumption (Ra	ated)	VV	13 - 13	26 - 26	13 - 13	26 - 26	
Power Factor (Rated)		%	89.2 - 80.7	96.2 - 94.2	89.2 - 80.7	96.2 - 94.2	
Temperature Control			Microcomp	uter Control	Microcomp	uter Control	
Dimensions (H × W × D)		in. (mm)	11-15/16 × 39-5/16 × 8	3-3/8 (303 × 998 × 212)	11-15/16 × 39-5/16 × 8	3-3/8 (303 × 998 × 212)	
Packaged Dimensions ($H \times W \times D$)	in. (mm)	12-11/16 × 43-3/8 × 15-5/16 (322 × 1,101 × 389)		12-11/16 × 43-3/8 × 15-5/16 (322 × 1,101 × 389)		
Weight (Mass)		lbs (kg)	27 (12)		27 (12)		
Gross Weight (Gross M	ass)	lbs (kg)	33	(15)	33 (15)		
Sound Pressure Level	H/M/L/SL	dB(A)	38 / 32 / 25 / 19	41 / 34 / 28 / 19	38 / 32 / 25 / 19 41 / 34 / 28 / 19		
Outdoor Unit			RX09WMVJU9		RX09WMVJU9		
Casing Color			Ivory White		Ivory White		
Heat Exchanger	Fin Spec / Tub	е	Waffle Fin (PE) /		Waffle Fin (PE) /		
Fan Motor	Motor Output	HP	0.	03	0.	03	
0	Туре		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type		
Compressor	Model		1YC23AUXD		1YC23AUXD		
	Туре		FVC50K		FVC50K		
Reirigerant Oli	Charge	oz (L)	12.68 (0.375)		12.68 (0.375)		
	Туре		R-4	10A	R-410A		
Refrigerant	Charge	lbs (kg)	2.09	(0.95)	2.09 (0.95)		
Airflow Poto		cfm	0.95 (27.0)	1 144 (22.4)	095 (27.0)	1 144 (22.4)	
AITIOW Rate		(m³/min)	965 (27.9)	1,144 (32.4)	965 (27.9)	1,144 (32.4)	
Fan	Туре		Prop	eller	Prop	eller	
Running Current (Rated)	A	4.21 - 3.80	3.70 - 3.34	4.21 - 3.80	3.70 - 3.34	
Power Consumption (Ra	ated)	W	806 - 806	707 - 707	806 - 806	707 - 707	
Power Factor (Rated)		%	92.0 - 92.2	95.2 - 95.4	92.0 - 92.2	95.2 - 95.4	
Dimensions (H × W × D)	in. (mm)	21-5/8 × 26-9/16 × 11-	3/16 (550 × 675 × 284)	21-5/8 × 26-9/16 × 11-	3/16 (550 × 675 × 284)	
Packaged Dimensions (H × W × D) in. (mr		in. (mm)	23-13/16 × 31-7/16 × 14	-11/16 (605 × 798 × 373)	23-13/16 × 31-7/16 × 14	-11/16 (605 × 798 × 373)	
Weight (Mass) Ibs (k		lbs (kg)	63	(29)	63 ((29)	
Gross Weight (Gross Mass) Ibs (kr		lbs (kg)	68	(31)	68 ((31)	
Sound Pressure Level		dB(A)	46	50	46	50	
	Indoor		80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	
Conditions Based on	Outdoor		95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /	95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /	
	Dining Longth		75.0°FWB (24.0°CWB)	43.0°FWB (6.1°CWB)	75.0°FWB (24.0°CWB)	43.0°FWB (6.1°CWB)	
Drawing No.			<u>25 π (</u> C· 3D1	43145	<u>25 π (</u> C· 3D1	43145	
Note(s)			SL: The guiet fan level of the	e airflow rate setting.	0. 30 143 143		

Conversion Formulae kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

Indoor Unit		FTXR12	WVJUW9	FTXR12WVJUS9			
Model	Outdoor Unit		RX12WMVJU9		RX12W	MVJU9	
	Outdoor Onit	Cooling Heating		Cooling	Heating		
Power Supply			1 ¢, 208 - 230 V, 60 Hz		1 φ, 208 - 2	30 V, 60 Hz	
Capacity Rated (Min N	Max.)	Btu/h	12,000 (4,500 - 12,800)	13,500 (4,100 - 15,800)	12,000 (4,500 - 12,800)	13,500 (4,100 - 15,800)	
Running Current (Rated)	A	5.46 - 4.94	5.60 - 5.06	5.46 - 4.94	5.60 - 5.06	
Power Consumption (Ra	ated)	W	1,091 - 1,091	1,106 -1,106	1,091 - 1,091	1,106 - 1,106	
Power Factor (Rated)	,	%	96.1 - 96.0	95.0 - 95.0	96.1 - 96.0	95.0 - 95.0	
SEER2 / HSPF2			17.00	8.00	17.00	8.00	
EFR2 (Rated)		Btu/h·W	11.00		11.00		
COP2 (Rated)				3 58		3 58	
	Liquid	in (mm)	+ 1/A	(6.4)	↓ 1/A	(6.4)	
Dining Connections	Cas	in. (mm)	ψ 1/4	(0.4)	ψ 1/4	(0.4)	
Piping Connections	Gas		φ 3/6	(9.5)	φ 3/6	(9.5)	
	Drain	in. (mm)	¢ 11/1	6 (18)	φ 11/1	6 (18)	
Heat Insulation			Both Liquid a	nd Gas Pipes	Both Liquid a	nd Gas Pipes	
Max. Interunit Piping Le	ngth	ft (m)	65-5/8	8 (20)	65-5/	8 (20)	
Max. Interunit Height Di	fference	ft (m)	49-1/4	4 (15)	49-1/-	4 (15)	
Chargeless		ft (m)	32-3/4	4 (10)	32-3/-	4 (10)	
Amount of Additional Ch	narge of	oz/ft	0.21	(20)	0.21	(20)	
		(g/III)	ETYP42		ETVD12	A0/ 11180	
Front Donal Color					FIARIZ	WV5039	
Front Parier Color	1	- 6	VVI				
Airflow Rate	H/M/L/SL	CIM m ³ /min	335/219/169/131	395/290/226/131	335/219/109/131	395/290/226/131	
Ean	Tung / Speed	Stope	9.570.274.675.7	Stopo Quiot Auto	9.570.274.675.7	Stope Quiet Auto	
Air Direction Control	Type / Speed	Steps		Steps, Quiet, Auto		Steps, Quiet, Auto	
Air Direction Control			Right, Lett, Horiz	ontal, Downward	Right, Lett, Horiz	ontal, Downward	
Air Filter			Removable	, washable	Removable	, Washable	
Running Current (Rated)	A	0.13 - 0.12	0.19 - 0.17	0.13 - 0.12	0.19 - 0.17	
Power Consumption (Ra	ated)	W	26 - 26	38 - 38	26 - 26	38 - 38	
Power Factor (Rated)		%	96.1 - 94.2	96.1 - 97.1	96.1 - 94.2	96.1 - 97.1	
Temperature Control			Microcomp	uter Control	Microcomp	uter Control	
Dimensions (H × W × D) in. (m		in. (mm)	11-15/16 × 39-5/16 × 8	-3/8 (303 × 998 × 212)	11-15/16 × 39-5/16 × 8	8-3/8 (303 × 998 × 212)	
Packaged Dimensions (H × W × D)	in. (mm)	12-11/16 × 43-3/8 × 15-5	5/16 (322 × 1,101 × 389)	12-11/16 × 43-3/8 × 15-5/16 (322 × 1,101 × 389)		
Weight (Mass)		lbs (kg)	27 (12)		27 (12)		
Gross Weight (Gross M	ass)	lbs (kg)	33 (15)		33 (15)		
Sound Pressure Level	H/M/L/SI	dB(A)	45 / 34 / 26 / 20 45 / 37 / 29 / 20		45/34/26/20 45/37/29/20		
Outdoor Unit	1		RX12W	MVJU9	RX12WMVJU9		
Casing Color			lyon	White	Ivory White		
Heat Exchanger	Fin Spec / Tub	2	Waffle Fin (PF) /		Waffle Fin (PF) / ϕ 7 Hi-XSI Tube		
	Matar Output		Waffie Fin (PE) / φ / HI-XSL Tube				
			U.I		U.I	US	
Compressor	Туре		Hermetically Sea	aled Swing Type			
	Model	-	1YC23AUXD		1YC23AUXD		
Refrigerant Oil	Туре		FVC50K		FVC50K		
	Charge	oz (L)	12.68 ((0.375)	12.68 (0.375)		
Refrigerant	Туре			10A	R-410A		
	Charge	lbs (kg)	2.09	0.95)	2.09 (0.95)		
Airflow Rate		cfm (m ³ /min)	1,105 (31.3)	1,144 (32.4)	1,105 (31.3)	1,144 (32.4)	
Ean	Type		Bron				
Pupping Current (Poted	Тійре	•	F10p		F10p	5 41 4 90	
Running Current (Rated) - tl)	A	5.33 - 4.62	5.41 - 4.69	5.33 - 4.62	5.41 - 4.69	
Power Consumption (Ra	ated)	VV	1,065 - 1,065	1,068 - 1,068	1,065 - 1,065	1,068 - 1,068	
Power Factor (Rated)		%	96.1 - 96.1	94.9 - 95.0	96.1 - 96.1	94.9 - 95.0	
Dimensions (H × W × D) in. (mm		in. (mm)	21-5/8 × 26-9/16 × 11-3/16 (550 × 675 × 284)		21-5/8 × 26-9/16 × 11-	3/16 (550 × 675 × 284)	
Packaged Dimensions (H × W × D) in. (mm)		23-13/16 × 31-7/16 × 14-	-11/16 (605 × 798 × 373)	23-13/16 × 31-7/16 × 14	-11/16 (605 × 798 × 373)		
Weight (Mass) Ibs (kg)		lbs (kg)	63 (29)		63	(29)	
Gross Weight (Gross Mass) Ibs (kg)		lbs (kg)	68 ((31)	68	(31)	
Sound Pressure Level		dB(A)	49	51	49	51	
	Indoor		80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	
Conditions Based on	Outdoor		95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)	95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)	
	Piping Length		25 ft (7.5 m)	25 ft (7.5 m)	
Drawing No.			C: 3D1	43146	C: 3D1	43146	
Note(s)		SL: The quiet fan level of the	e airflow rate setting.				

Conversion Formulae kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

Indoor Unit		FTXR18	WVJUW9	FTXR18WVJUS9			
Model	Outdoor Unit		RX18WMVJU9		RX18W	MVJU9	
	Outdoor Onit		Cooling Heating		Cooling	Heating	
Power Supply			1 φ, 208 - 2	30 V, 60 Hz	1 φ, 208 - 2	30 V, 60 Hz	
Capacity Rated (Min M	Max.)	Btu/h	18,000 (5,100 - 18,500)	20,000 (5,800 - 21,200)	18,000 (5,100 - 18,500)	20,000 (5,800 - 21,200)	
Running Current (Rated)	A	9.29 - 8.40	8.70 - 7.89	9.29 - 8.40	8.70 - 7.89	
Power Consumption (Ra	ated)	W	1,875 - 1,875	1,755 - 1,755	1,875 - 1,875	1,755 - 1,755	
Power Factor (Rated)		%	97.0 - 97.0	97.0 - 97.0	97.0 - 97.0	97.0 - 97.0	
SEER2 / HSPF2		1	14.50	7.80	14.50	7.80	
EER2 (Rated)		Btu/h·W	9.60		9.60		
COP2 (Rated)		W/W	_	3 34		3 34	
	Liquid	in (mm)	ф 1/4	(6.4)	ф 1/4	(6.4)	
Pining Connections	Gas	in (mm)	φ <i>ι</i> , ι φ 1/2	(12.7)	φ 1/2	(12.7)	
	Drain	in (mm)	ψ 1/2	6 (18)	ψ 1/2	6 (18)	
Heat Insulation		()	φ Π/Π Both Liquid a	nd Cas Pinos	φ Π/Π Both Liquid a	nd Cas Pinos	
	n ath	ft (ma)	Bour Liquid a		Bour Liquid a		
Max. Interunit Piping Le	ngin	π (m)	98-17.	2 (30)	98-1/	2 (30)	
Max. Interunit Height Di	πerence	π (m)	65-5/	8 (20)	65-5/	8 (20)	
Chargeless		ft (m)	32-3/-	4 (10)	32-3/	4 (10)	
Amount of Additional Cr	harge of	oz/ft (g/m)	0.21	(20)	0.21	(20)	
Indoor Unit			FTXR18\	WVJUW9	FTXR18	WVJUS9	
Front Panel Color			Wł	nite	Sil	ver	
		cfm	350 / 275 / 226 / 208	413 / 332 / 275 / 208	350 / 275 / 226 / 208	413 / 332 / 275 / 208	
Airflow Rate	H/M/L/SL	m ³ /min	9.9 / 7.8 / 6.4 / 5.9	11.7 / 9.4 / 7.8 / 5.9	9.9 / 7.8 / 6.4 / 5.9	11.7 / 9.4 / 7.8 / 5.9	
Fan	Type / Speed	Steps	Cross Flow Fan / 5	Steps, Quiet, Auto	Cross Flow Fan / 5	Steps, Quiet, Auto	
Air Direction Control	1.16-1.56		Right Left Horiz	ontal Downward	Right Left Horiz	ontal Downward	
Air Filter			Removable Washable		Removable	Washable	
Running Current (Rated)	Δ	0.07 - 0.07	0.13 - 0.12	0.07 - 0.07	0.13 - 0.12	
Power Consumption (Ra	ated)	W	28 - 28	42 - 42	28 - 28	42 - 42	
Power Eactor (Pated)	alcuj	94	06 1 87 0	06.2 87.0	06 1 87 0	06.2 87.0	
Tomporature Control		70	Microcomp	uter Control	SULT- 07.0	so.2 - or.o	
		in (mm)					
Dimensions $(H \times VV \times D)$ In. (r		in. (mm)		-3/6 (303 × 996 × 212)	12-11/16 × 43-3/8 × 15-5/16 (322 × 1 101 × 380)		
Packaged Dimensions (<u> </u>		12-11/16 × 43-3/8 × 15-5/16 (322 × 1,101 × 389)		12-11/16 × 43-3/8 × 15-5/16 (322 × 1,101 × 389		
		IDS (KG)	27 (12)		27 (12)		
Gross Weight (Gross Ma	ass)	lbs (kg)	33 (15)		33 (15)		
Sound Pressure Level	H/M/L/SL	dB(A)	46 / 40 / 35 / 30	47 / 41 / 35 / 30	46/40/35/30 47/41/35/30		
Outdoor Unit		-	RX18W	MVJU9	RX18WMVJU9		
Casing Color	·		Ivory White		Ivory White		
Heat Exchanger	Fin Spec / Tube		Waffle Fin (PE) /	φ 7 Hi-XSL Tube	Waffle Fin (PE) /	∮ 7 Hi-XSL Tube	
Fan Motor	Motor Output	HP	0.	12	0.	12	
Compressor	Туре		Hermetically Sea	aled Swing Type	Hermetically Se	aled Swing Type	
Compressor	Model		2YC36PXD		2YC36PXD		
Refrigerent Oil	Туре		FVC50K		FVC50K		
Reingerant Oil	Charge	oz (L)	21.98	(0.650)	21.98	(0.650)	
Definement	Туре		R-4	10A	R-410A		
Reingerant	Charge	lbs (kg)	2.49	(1.13)	2.49 (1.13)		
Airflow Rate		cfm (m ³ /min)	2,461 (69.7)	2,553 (72.3)	2,461 (69.7)	2,553 (72.3)	
Fan	Туре	. (Pror	eller	Pror	eller	
Running Current (Rated)	Α	9 22 - 8 33	8 57 - 7 77	9 22 - 8 33	8 57 - 7 77	
Power Consumption (R	ated)	W	1 847 - 1 847	1 713 - 1 713	1 847 - 1 847	1 713 - 1 713	
Power Eactor (Rated)		%	96.3 - 96.4	96.1 - 95.9	96.3 - 96.4	96.1 - 95.9	
		in (mm)	28 15/16 × 34 1/4 × 12	5/8 (735 × 870 × 320)	28 15/16 × 34 1/4 × 12	5/8 (735 × 870 × 320)	
Dimensions $(H \times VV \times D)$ in. (mm)		in. (mm)	20-13/10 ~ 34-1/4 ~ 12	$\frac{1}{4}$ (210 × 1.056 × 464)	20-13/10 ~ 34-1/4 ~ 12	$\frac{1}{4}$ (210 × 1.056 × 464)	
Packaged Dimensions (H × W × D) in. (mm)		III. (IIIII)	31-7/8 × 41-9/10 × 18-	(45)	31-7/8 × 41-9/10 × 18-	(45)	
Veight (Mass) Ibs (kg)		IDS (KG)	100	(43)	100	(43)	
Gross Weight (Gross Wa	ass)		110	(50)	110	(50)	
Sound Pressure Level	r	an(A)				55	
	Indoor		67.0°FWB (19.4°CWB)	60.0°FWB (15.6°CWB)	67.0°FWB (19.4°CWB)	60.0°FWB (21.1°CDB) / 60.0°FWB (15.6°CWB)	
Conditions Based on	Outdoor		95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)	95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)	
	Piping Length		25 ft (7.5 m)	25 ft (7.5 m)	
Drawing No.			C: 3D1	43147A	C: 3D1	43147A	
Note(s)			SL: The quiet fan level of the	e airflow rate setting.			

Conversion Formulae kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

	Indoor Unit		FDMQ09	9WVJU9	FDMQ12WVJU9		
Model	Outdoor Unit		RX09W	MVJU9	RX12WMVJU9		
			Cooling	Heating	Cooling	Heating	
Power Supply			1 φ, 208 - 230 V, 60 Hz		1	30 V, 60 Hz	
Capacity Rated (Mi	n Max.)	Btu/h	9,000 (3,900 - 9,400)	10,900 (3,900 - 12,800)	10,800 (4,000 - 12,400)	13,600 (3,900 - 14,200)	
Running Current (R	ated)	A	5.30 - 4.79	5.34 - 4.83	6.14 - 5.55	6.48 - 5.86	
Power Consumption	n (Rated)	W	1,059 - 1,059	1,065 - 1,065	1,227 - 1,227	1,329 - 1,329	
Power Factor (Rate	(d)	%	96.1 - 96.1	95.9 - 95.8	96.1 - 96.2	98.6 - 98.6	
SEER2 / HSPF2		DI // 14/	14.30	8.20	14.60	8.10	
EER2 (Rated)		Btu/n·vv	8.50		8.80		
COP2 (Rated)	I toutat	VV/VV		3.00		3.00	
Piping	Liquid	in (mm)	φ 1/4 ± 2/9	(0.5)	φ 1/4 ± 2/9	(0.5)	
Connections	Gas	in. (mm)		(9.5)		(9.5)	
Heat Insulation	Drain	in. (mm)	I.D. φ I (25) / O Roth Liquid o	1.D. φ 1-1/4 (32)	I.D. φ I (25) / 0	9.D. φ 1-1/4 (32)	
Max Interunit Dinin	a Lonath	ft (m)	65 5/		65 5/	8 (20)	
Max. Interunit Heid	nt Difference	ft (m)	49-1/4	4 (15)	49-1/	4 (15)	
Chargeless	It Billerende	ft (m)	32-3/4	4 (10)	32-3/	4 (10)	
Amount of Addition	al Charge of	oz/ft	02.0,	(00)	02.0,	()	
Refrigerant	al orlange er	(g/m)	0.21	(20)	0.21	(20)	
Indoor Unit			FDMQ09	9WVJU9	FDMQ12	2WVJU9	
Hoat Exchanger	Rows × Stages, Fin	per Inch	3 × 2	6, 18	3 × 2	6, 18	
	Fin Spec / Tube		Multi Slit Fin / d	5 Hi-XA Tube	Multi Slit Fin / d	5 Hi-XA Tube	
Airflow Rate	н/м/г	cfm	293 / 265 / 233	293 / 265 / 233	371 / 318 / 261	371 / 318 / 261	
		m³/min	8.3 / 7.5 / 6.6	8.3 / 7.5 / 6.6	10.5 / 9.0 / 7.4	10.5 / 9.0 / 7.4	
Fan Motor	H/M/L	rpm	997 / 896 / 795	997 / 896 / 795	1,089 / 930 / 771	1,089 / 930 / 771	
-	Motor Output	HP	0.	17	0.	17	
Fan	Туре		Siroco	o Fan	Siroco	o Fan	
External Static Pres	sure	inH ₂ O	Standard 0.20	0 (0.60 - 0.12)	Standard 0.20	0 (0.60 - 0.12)	
		Pa	Standard 5	0 (150 - 30)	Standard 5	0 (150 - 30)	
Running Current (R	ated)	A	0.40 - 0.36	0.40 - 0.36	0.44 - 0.40	0.44 - 0.40	
Power Consumption		VV 0/.	/5-/5	/5-/5	89-89	89-89	
Tomporature Contr	Forward Factor (Rated) %		90.2 - 90.7 Microcomp	90.2 - 90.7	Microcomputer Control		
Dimensions (H x W	Dimonsions (H x W x D)		0-5/8 x 27-0/16 x 31-	$1/2 (245 \times 700 \times 800)$	9-5/8 × 27-9/16 × 31-1/2 (245 × 700 × 800)		
Difference $(H \times W \times D)$ III. (I		in (mm)	11-9/16 × 35-3/8 × 34	-7/8 (293 × 899 × 886)	11-9/16 × 35-3/8 × 34-7/8 (293 × 899 × 886)		
Weight (Mass)		lbs (ka)	64	(29)	64 (29)		
Gross Weight (Gros	s Mass)	lbs (kg)	71 (32)		71 (32)		
Sound Pressure Le	vel	dB(A)	32	32	33 33		
		Wired	BRC1E73		BRC1E73		
Remote Controller ((Option)	Wireless	BRC082A43		BRC082A43		
Outdoor Unit			RX09W	MVJU9	RX12WMVJU9		
Casing Color			lvory	White	Ivory White		
Heat Exchanger	Fin Spec / Tube		Waffle Fin (PE) /		Waffle Fin (PE) /		
Fan Motor	Motor Output	HP	0.0	03	0.	03	
Compressor	Туре		Hermetically Sealed Swing Type		Hermetically Sea	aled Swing Type	
	Model		1YC23	AUXD	1YC23	AUXD	
Refrigerant Oil	Туре		FVC	50K	FVC	50K	
	Charge	oz (L)	12.68 (0.375)		12.68	(0.375)	
Refrigerant	Туре		R-4	10A	R-4	10A	
	Charge	lbs (kg)	2.09 (0.95)	2.09	(0.95)	
Airflow Rate		(m ³ /min)	985 (27.9)	1,144 (32.4)	1,105 (31.3)	1,144 (32.4)	
Fan	Type	()	Prop	beller	Prop	peller	
Running Current (R	ated)	A	4.90 - 4.43	4.94 - 4.47	5.70 - 5.15	6.04 - 5.46	
Power Consumption	n (Rated)	W	984 - 984	990 - 990	1,138 - 1,138	1,240 - 1,240	
Power Factor (Rate	d)	%	96.5 - 96.6	96.3 - 96.3	96.0 - 96.1	98.7 - 98.7	
Dimensions (H × W	×D)	in. (mm)	21-5/8 × 26-9/16 × 11-	3/16 (550 × 675 × 284)	21-5/8 × 26-9/16 × 11-	3/16 (550 × 675 × 284)	
Packaged Dimensions (H × W × D) in. (mm)		in. (mm)	23-13/16 × 31-7/16 × 14-11/16 (605 × 798 × 373)		23-13/16 × 31-7/16 × 14	-11/16 (605 × 798 × 373)	
Weight (Mass) Ibs (kg)		63 ((29)	63	(29)		
Gross Weight (Gross Mass) Ibs (kg)		lbs (kg)	68 ((31)	68	(31)	
Sound Pressure Le	vel	dB(A)	46	50	49	51	
Conditions Road	Indoor		80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	
on	Outdoor		95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)	95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)	
	Piping Length		25 ft (7.5 m)	25 ft (7.5 m)	
Drawing No.			C: 3D14	43150A	C: 3D1	43150A	
Note(s)			SL: The quiet fan level of the airflow rate setting. External static pressure is changeable in 13 stages by remote controller. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.				

	Indoor Unit		FDMQ1	5WVJU9	FDMQ18WVJU9		
Model	Outdoor Unit		RX15W	RX15WMVJU9		MVJU9	
	Outdoor Onit		Cooling	Heating	Cooling	Heating	
Power Supply			1 φ, 208 - 2	30 V, 60 Hz	1 φ, 208 - 2	30 V, 60 Hz	
Capacity Rated (Mi	n Max.)	Btu/h	14,400 (5,100 - 15,700)	18,000 (5,600 - 18,500)	17,600 (5,100 - 19,600)	21,600 (5,700 - 22,200)	
Running Current (R	lated)	A	7.25 - 6.56	8.72 - 7.89	9.16 - 8.28	10.41 - 9.41	
Power Consumption	n (Rated)	W	1,440 - 1,440	1,758 - 1,758	1,872 - 1,872	2,110 - 2,110	
Power Factor (Rate	ed)	%	95.5 - 95.4	96.9 - 96.9	98.3 - 98.3	97.4 - 97.5	
SEER2 / HSPF2			15.30	8.20	15.30	8.20	
EER2 (Rated)		Btu/h·W	10.00	—	9.40	—	
COP2 (Rated)		W/W	—	3.00	—	3.00	
D	Liquid	in. (mm)	φ 1/4	(6.4)	φ 1/4	(6.4)	
Piping	Gas	in. (mm)	φ 1/2	(12.7)	φ 1/2	(12.7)	
Connections	Drain	in. (mm)	I.D. φ 1 (25) / O	.D. φ 1-1/4 (32)	I.D. φ 1 (25) / C	.D. φ 1-1/4 (32)	
Heat Insulation			Both Liquid a	nd Gas Pipes	Both Liquid a	nd Gas Pipes	
Max. Interunit Pipin	g Length	ft (m)	98-1/2	2 (30)	98-1/2	2 (30)	
Max. Interunit Heig	ht Difference	ft (m)	65-5/	8 (20)	65-5/	8 (20)	
Chargeless		ft (m)	32-3/4	4 (10)	32-3/-	4 (10)	
Amount of Addition	al Charge of	oz/ft	0.21	(20)	0.31	(20)	
Refrigerant	5	(g/m)	0.21	(20)	0.21	(20)	
Indoor Unit			FDMQ1	5WVJU9	FDMQ18	3WVJU9	
Hoat Exchanger	Rows × Stages, Fin	per Inch	2 × 2	6, 18	3 × 2	6, 18	
	Fin Spec / Tube		Multi Slit Fin / d	5 Hi-XA Tube	Multi Slit Fin / d	∮5 Hi-XA Tube	
Airflow Poto		cfm	448 / 399 / 350	448 / 399 / 350	614 / 523 / 431	614 / 523 / 431	
AITIOW Rate		m³/min	12.7 / 11.3 / 9.9	12.7 / 11.3 / 9.9	17.4 / 14.8 / 12.2	17.4 / 14.8 / 12.2	
Fon Motor	H/M/L	rpm	926 / 822 / 717	926 / 822 / 717	1,023 / 870 / 717	1,023 / 870 / 717	
Fan Wotor	Motor Output	HP	0.:	31	0.	31	
Fan	Туре		Siroco	o Fan	Siroco	o Fan	
		inH ₂ O	Standard 0.20	0 (0.60 - 0.20)	Standard 0.20	0 (0.60 - 0.20)	
External Static Pres	ssure	Pá	Standard 5	0 (150 - 50)	Standard 5	0 (150 - 50)	
Running Current (R	lated)	A	0.58 - 0.52	0.58 - 0.52	0.69 - 0.62	0.69 - 0.62	
Power Consumptio	n (Rated)	W	104 - 104	104 - 104	131 - 131	131 - 131	
Power Factor (Rate	ed)	%	85.8 - 87.1	85.8 - 87.1	91.2 - 92.2	91.2 - 92.2	
Temperature Contr	ol	1	Microcomp	uter Control	Microcomputer Control		
Dimensions (H × W × D) in. (r		in. (mm)	9-5/8 × 39-3/8 × 31-1/	2 (245 × 1.000 × 800)	9-5/8 × 39-3/8 × 31-1/	2 (245 × 1.000 × 800)	
Packaged Dimensions (H × W × D) in (in. (mm)	11-9/16 × 47-3/16 × 34-	7/8 (293 × 1,199 × 886)	11-9/16 × 47-3/16 × 34-7/8 (293 × 1,199 × 886)		
Weight (Mass)		lbs (ka)	77 ((35)	82 (37)		
Gross Weight (Gros	ss Mass)	lbs (kg)	84 (38)		88 (40)		
Sound Pressure Le	vel	dB(A)	34	34	35	35	
		Wired	BRC1E73		BRC	1F73	
Remote Controller	(Option)	Wireless	BRCO	82A43	BRC082A43		
Outdoor Unit			RX15W	MVJU9	RX18W	MVJU9	
Casing Color			lvorv	White	lvorv	White	
Heat Exchanger	Fin Spec / Tube		Waffle Fin (PF) /	φ 7 Hi-XSL Tube	Waffle Fin (PF) /	φ 7 Hi-XSL Tube	
Fan Motor	Motor Output	HP	0	10	0	12	
	Type		Hermetically Sea	aled Swing Type	Hermetically Sea	aled Swing Type	
Compressor	Model		2YC3	6PXD	2YC3	6PXD	
	Type		EVC50K		EVC50K		
Refrigerant Oil	Charge	07 (L)	21.98 (0.650)		21.98 (0.650)		
	Type	02 (2)	R-410A		R-4	10A	
Refrigerant	Charge	lbs (ka)	2 49 ((1 13)	2 49	(1 13)	
	onargo	cfm	2.10		2.10		
Airflow Rate		(m ³ /min)	2,313 (65.5)	2,108 (59.7)	2,461 (69.7)	2,553 (72.3)	
Fan	Туре		Prop	eller	Prop	eller	
Running Current (R	lated)	A	6.67 - 6.04	8.14 - 7.37	8.47 - 7.66	9.72 - 8.79	
Power Consumptio	n (Rated)	W	1,336 - 1,336	1,654 - 1,654	1,741 - 1,741	1,979 - 1,979	
Power Factor (Rate	ed)	%	96.3 - 96.2	97.7 - 97.6	98.8 - 98.8	97.9 - 97.9	
Dimensions (H × W	/ × D)	in. (mm)	28-15/16 × 34-1/4 × 12	-5/8 (735 × 870 × 320)	28-15/16 × 34-1/4 × 12	-5/8 (735 × 870 × 320)	
Packaged Dimensions (H × W × D) in (mm)		in. (mm)	31-7/8 × 41-9/16 × 18-1	1/4 (810 × 1.056 × 464)	31-7/8 × 41-9/16 × 18-	1/4 (810 × 1.056 × 464)	
Weight (Mass)		100	(45)	100	(45)		
Gross Weight (Gross Mass) Ibs (kg)		lbs (kg)	110	(50)	110	(50)	
Sound Pressure Le	vel	dB(A)	50	51	54	55	
			80.0°FDB (26.7°CDB) /	70.0°FDB (21.1°CDB) /	80.0°FDB (26.7°CDB) /	70.0°FDB (21.1°CDB) /	
	Indoor		67.0°FWB (19.4°CWB)	60.0°FWB (15.6°CWB)	67.0°FWB (19.4°CWB)	60.0°FWB (15.6°CWB)	
on Conditions Based	Outdoor		95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /	95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /	
			75.0°FWB (24.0°CWB)	43.0°FWB (6.1°CWB)	75.0°FWB (24.0°CWB)	43.0°FWB (6.1°CWB)	
	Piping Length		25 ft (7.5 m)	25 ft (7.5 m)	
Drawing No.			C: 3D14	43151A	C: 3D1	43151A	
Note(s)			SL: The quiet fan level of the airflow rate setting. External static pressure is changeable in 11 stages by remote controller. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.				

	Indoor Unit	-	FDMQ24WVJU9				
Model	Outdoor Unit		RX24WMVJU9				
			Cooling	Heating			
Power Supply	Power Suppry		1 φ, 208 - 25	30 V, 60 HZ			
Running Current (R	Running Current (Rated)		21,000 (3,000 - 23,000)	24,000 (0,400 - 20,000)			
Power Consumption	n (Rated)	Ŵ	2 180 - 2 180	2 345 - 2 345			
Power Factor (Rate	() (atou)	%	99.2 - 99.2	99.2 - 99.2			
SEER2 / HSPF2			15.20	8.10			
EER2 (Rated)		Btu/h·W	10.00	_			
COP2 (Rated)	-	W/W	—	3.00			
Disting	Liquid	in. (mm)	φ 1/4	(6.4)			
Connections	Gas	in. (mm)	φ 5/8 (15.9)				
	Drain	in. (mm)	I.D. \u03c6 1 (25) / O	.D. \(\phi 1-1/4 (32))			
Heat Insulation		1	Both Liquid ar	nd Gas Pipes			
Max. Interunit Pipin	g Length	ft (m)	98-1/2	2 (30)			
Max. Interunit Heigi	nt Difference	ft (m)	65-5/8	3 (20)			
Amount of Addition	ol Chargo of	11 (11) 07/ft	32-3/4	4 (10)			
Refrigerant	al Charge of	(g/m)	0.21	(20)			
Indoor Unit			FDMQ24	\$WVJU9			
Lleat Evebonger	Rows × Stages, Fin	per Inch	3 × 2	6, 18			
	Fin Spec / Tube		Multi Slit Fin / ¢	5 Hi-XA Tube			
Airflow Rate	н/м/і	cfm	731 / 621 / 512	731 / 621 / 512			
		m³/min	20.7 / 17.6 / 14.5	20.7 / 17.6 / 14.5			
Fan Motor	H/M/L	rpm	1,119 / 951 / 783	1,119 / 951 / 783			
	Motor Output	HP	0.3	31			
Fan	Туре	inllO	Sirocc Stendard 0.20	0 Fan			
External Static Pres	sure		Standard U.20 Standard 50	D (150 - 50)			
Running Current (R	ated)	Га	0.82 - 0.74	0.82 - 0.74			
Power Consumption	n (Rated)	Ŵ	167 - 167	167 - 167			
Power Factor (Rate	d)	%	97.8 - 97.5	97.8 - 97.5			
Temperature Contro	Temperature Control		Microcompu	uter Control			
Dimensions (H × W	×D)	in. (mm)	9-5/8 × 39-3/8 × 31-1/	2 (245 × 1,000 × 800)			
Packaged Dimension	ons (H × W × D)	in. (mm)	11-9/16 × 47-3/16 × 34-	7/8 (293 × 1,199 × 886)			
Weight (Mass)		lbs (kg)	82 ((37)			
Gross Weight (Gros	ss Mass)	lbs (kg)	88 ((40)			
Sound Pressure Le	vel	dB(A)	40 40				
Remote Controller	(Option)	Wired	BRC1E73				
Outda an Unit		Wireless	BRCO	BRC082A43 BX24WMV.III9			
Outdoor Unit			RX24W	MV509			
Heat Exchanger	Fin Spec / Tube		Waffle Fin (PF) /				
Fan Motor	Motor Output	HP	0.12				
			Hermetically Sealed Swing Type				
Compressor	Model		2YC36PXD				
Defrimenent Oil	Туре		FVC	50K			
Reingerant Oli	Charge	oz (L)	21.98 ((0.650)			
Refrigerant	Туре		R-4	10A			
	Charge	lbs (kg)	3.20 ((1.45)			
Airflow Rate		(m ³ /min)	2,641 (74.8)	2,641 (74.8)			
Fan	Type		Pron	eller			
Running Current (R	ated)	A	9.74 - 8.81	10.55 - 9.54			
Power Consumption	n (Rated)	W	2.013 - 2.013	2.178 - 2.178			
Power Factor (Rate	d)	%	99.4 - 99.3	99.3 - 99.3			
Dimensions (H × W	' × D)	in. (mm)	28-15/16 × 34-1/4 × 12	-5/8 (735 × 870 × 320)			
Packaged Dimension	ons (H × W × D)	in. (mm)	31-7/8 × 41-9/16 × 18-1	1/4 (810 × 1,056 × 464)			
Weight (Mass)		lbs (kg)	109	(50)			
Gross Weight (Gross Mass) Ibs (kg)		lbs (kg)	120	(54)			
Sound Pressure Le	vel	dB(A)	56	58			
Conditions Based	Indoor		80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)			
on	Outdoor		95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)			
	Piping Length		25 ft (7	7.5 m)			
Drawing No.			C: 3D14	43151A			
Note(s)			SL: The quiet fan level of the airflow rate setting. External static pressure is changeable in 11 stages by remote controller. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.				

Conversion Formulae
kcal/h = kW × 860
Btu/h = kW × 3412
cfm = m ³ /min × 35.3

	Indoor Unit		FFQ09V	W2VJU9	FFQ12V	V2VJU9				
Model	Outdoor Unit		RX09W	MVJU9	RX12W	MVJU9				
			Cooling	Heating	Cooling	Heating				
Power Supply		D : "	<u>1 φ, 208 - 2</u>	30 V, 60 Hz	1 φ, 208 - 2	30 V, 60 Hz				
Capacity Rated (Min Min	Max.)	Btu/h	9,100 (4,600 - 11,000)	10,000 (4,600 - 14,000)	10,800 (4,600 - 13,300)	13,500 (4,600 - 16,800)				
Running Current (Rated	l) atad)	A	3.94 - 3.56	3.74 - 3.38	5.01 - 4.53	5.45 - 4.93				
Power Consumption (Ra	aled)	VV	750 - 750	696 - 696	939 - 939	1,001 - 1,001				
		70	92.5 - 92.5	0.40	90.1-90.1	95.4 - 95.4				
EER2 (Rated)		Btu/b⋅\//	12.00	9.40	11.50	9.00				
COP2 (Rated)		W/W		4 20		3.66				
	Liquid	in (mm)	<u>ф 1/4</u>	(6.4)	ф 1/4	(6.4)				
Piping Connections	Gas	in. (mm)	φ 3/8	(9.5)	φ 3/8	(9.5)				
	Drain	in. (mm)	VP20 (O.D. 0	(1-1/32 (26))	VP20 (O.D. o	0 1-1/32 (26))				
Heat Insulation	1		Both Liquid a	nd Gas Pipes	Both Liquid a	nd Gas Pipes				
Max. Interunit Piping Le	ngth	ft (m)	65-5/	8 (20)	65-5/	8 (20)				
Max. Interunit Height Di	fference	ft (m)	49-1/-	4 (15)	49-1/4 (15)					
Chargeless		ft (m)	32-3/-	4 (10)	32-3/4 (10)					
Amount of Additional Ch	narge of	oz/ft (g/m)	0.21	(20)	0.21 (20)					
Refrigerant		(g,)	5.000	()/	55040	()				
Indoor Unit	Model (Color)		PVEO60P2		FFQ12W2VJU9					
	Dimensions									
Decoration Panel (1)	(H × W × D)	in. (mm)	2-3/16 × 27-9/16 × 27	-9/16 (55 × 700 × 700)	2-3/16 × 27-9/16 × 27-9/16 (55 × 700 × 700)					
	Weight (Mass)	lbs (kg)	6.0	(2.7)	6.0	(2.7)				
	Model (Color)	1	BYFQ60C2W1W (White)	/ BYFQ60C2W1S (Silver)	BYFQ60C2W1W (White) / BYFQ60C2W1S (Sil					
Decoration Panel (2)	(H × W × D)	in. (mm)	1-13/16 × 24-7/16 × 24	-7/16 (46 × 620 × 620)	1-13/16 × 24-7/16 × 24	-7/16 (46 × 620 × 620)				
	Weight (Mass)	lbs (kg)	6.2	(2.8)	6.2	(2.8)				
Heat Exchanger	Rows × Stages, F	in per Inch	2 × 1	6, 21	2 × 1	6, 21				
	Fin Spec / Tube		Slit Fin / ø 5	Hi-XA Tube	Slit Fin / of 5	Hi-XA Tube				
Airflow Rate	н/м/г	cfm	378 / 339 / 268	399 / 357 / 282	406 / 353 / 268	427 / 371 / 282				
-	T (0)	m³/min	10.7 / 9.6 / 7.6	11.3 / 10.1 / 8.0	11.5 / 10.0 / 7.6	12.1 / 10.5 / 8.0				
Fan Dumeine Oursent (Deter	Type / Speed	•	I Urbo Far							
Running Current (Rated	I) atad)	A	0.23 - 0.21	0.23 - 0.21	0.27 - 0.24	0.27 - 0.24				
Power Consumption (Ra	aleu)	VV %	<u> </u>	<u> </u>	/81-/80	<u> </u>				
Temperature Control		70	Microcomp	uter Control	Microcomp	uter Control				
Dimensions (H × W × D)	in (mm)	10-1/4 × 22-5/8 × 22-	5/8 (260 × 575 × 575)	10-1/4 × 22-5/8 × 22-	5/8 (260 × 575 × 575)				
Packaged Dimensions (/ H × W × D)	in. (mm)	11 × 27 × 23-1/2	(280 × 686 × 597)	11 × 27 × 23-1/2	(280 × 686 × 597)				
Weight (Mass)	/	lbs (kg)	36	(16)	36	(16)				
Gross Weight (Gross M	ass)	lbs (kg)	39	(17)	39	(17)				
Sound Pressure Level	H/M/L	dB(A)	38 / 35 / 29	38 / 35 / 29	39 / 36 / 30	39 / 36 / 30				
Romoto Controllor (Onti	ion)	Wired	BRC	1E73	BRC	1E73				
		Wireless	BRC082A41W / BRC08	32A42W / BRC082A42S	BRC082A41W / BRC08	2A42W / BRC082A42S				
Outdoor Unit			RX09W	/MVJU9	RX12W	MVJU9				
Casing Color	1		lvory	White	lvory	White				
Heat Exchanger	Fin Spec / Tube		Waffle Fin (PE) /		Waffle Fin (PE) /					
Fan Motor		HP HP	U.	U3 alad Swing Type	U.	U3 alad Swing Type				
Compressor	Type Model									
	Type		FVC	SOK	FVC	SOK				
Refrigerant Oil	Charge	oz (L)	12.68	(0.375)	12.68	(0.375)				
	Туре		R-4	10A	R-4	10A				
Retrigerant	Charge	lbs (kg)	2.09	(0.95)	2.09	(0.95)				
Airflow Rate		cfm	985 (27.9)	1,144 (32.4)	1,105 (31.3)	1,144 (32.4)				
Fan	Type	(məmin)	Pror	peller	Pror	eller				
Running Current (Rated)	A	3 71 - 3 35	3 51 - 3 17	4 74 - 4 29	5 18 - 4 69				
Power Consumption (R	ated)	W	735 - 735	675 - 675	912 - 912	1 054 - 1 054				
Power Factor (Rated)	/	%	95.2 - 95.4	92.5 - 92.6	92.5 - 92.4	97.8 - 97.7				
Dimensions (H × W × D)	in. (mm)	21-5/8 × 26-9/16 × 11-	3/16 (550 × 675 × 284)	21-5/8 × 26-9/16 × 11-	3/16 (550 × 675 × 284)				
Packaged Dimensions (H × W × D)	in. (mm)	23-13/16 × 31-7/16 × 14	-11/16 (605 × 798 × 373)	23-13/16 × 31-7/16 × 14-11/16 (605 × 798 ×					
Weight (Mass)		lbs (kg)	63	(29)						
Gross Weight (Gross M	ass)	lbs (kg)	68	(31)	68	(31)				
Sound Pressure Level	1	dB(A)	46	50	49	51				
	Indoor		80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	/ 0.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)				
Conditions Based on	Outdoor		95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /	95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /				
	Outdoor		75.0°FWB (24.0°CWB)	43.0°FWB (6.1°CWB)	(1.0°FWB (24.0°CWB) 43.0°FWB (6.1°CWB)					
Drawin a Ni	Piping Length		25 ft (7.5 m)	25 ft (7.5 m)					
Note(s)			C: 3D1 SL: The quiet for lovel of t	43143A	C: 3D1	43 143A				
				ne annow rate setting.						

	Indoor Unit		FFQ15	W2VJU9	FFQ18V	V2VJU9					
Model	Outdoor Unit		RX15W	MVJU9	RX18W	MVJU9					
			Cooling	Heating	Cooling	Heating					
Power Supply		D : "	1 φ, 208 - 2	30 V, 60 Hz	1 φ, 208 - 2	30 V, 60 Hz					
Capacity Rated (Min I	Max.)	Btu/h	14,400 (5,100 - 16,200)	16,200 (5,200 - 16,300)	17,400 (5,100 - 18,800)	21,600 (5,400 - 21,800)					
Running Current (Rated	l) atad)	A	6.34 - 5.73	6.80 - 6.15	1.74 - 7.00	10.70 - 9.68					
Power Consumption (R	aled)	VV	1,252 - 1,252	1,349 - 1,349	1,513 - 1,513	2,110 - 2,110					
		70	94.9 - 95.0	95.4 - 95.4	94.0 - 94.0	94.0 - 94.0					
EER2 (Rated)		Btu/b⋅\//	11.50	0.80	11.50	8.40					
COP2 (Rated)		W/M/		3 52		3.00					
	Liquid	in (mm)	ф 1/4	(6.4)	<u>ф 1/4</u>	(6.4)					
Piping Connections	Gas	in. (mm)	φ 1/2	(12.7)	φ 1/2	(12.7)					
	Drain	in. (mm)	VP20 (O.D. ((1-1/32 (26))	VP20 (O.D. (0 1-1/32 (26))					
Heat Insulation	1	1 ()	Both Liquid a	nd Gas Pipes	Both Liquid and Gas Pipes						
Max. Interunit Piping Le	ngth	ft (m)	98-1/	2 (30)	98-1/	2 (30)					
Max. Interunit Height Di	fference	ft (m)	65-5/	8 (20)	65-5/	8 (20)					
Chargeless		ft (m)	32-3/-	4 (10)	32-3/4 (10)						
Amount of Additional Cl	narge of	oz/ft (a/m)	0.21	(20)	0.21 (20)						
Refrigerant		02,11 (g,11)	55045	(20)	0.21 (20)						
Indoor Unit	Madal (Oalar)		FFQ15V	N2VJU9	FFQ18W2VJU9						
	Dimensions	1		www.(wwnite)		vv i (vviiite)					
Decoration Panel (1)	(H × W × D)	in. (mm)	2-3/16 × 27-9/16 × 27-	-9/16 (55 × 700 × 700)	2-3/16 × 27-9/16 × 27-	-9/16 (55 × 700 × 700)					
	Weight (Mass)	lbs (kg)	6.0	(2.7)	6.0 (2.7)						
	Model (Color)		BYFQ60C2W1W (White)	/ BYFQ60C2W1S (Silver)	BYFQ60C2W1W (White) / BYFQ60C2W1S						
Decoration Panel (2)	Dimensions	in. (mm)	1-13/16 × 24-7/16 × 24	-7/16 (46 × 620 × 620)	1-13/16 × 24-7/16 × 24	-7/16 (46 × 620 × 620)					
	$(H \times W \times D)$		6.0	(2.0)	6.0	(2.0)					
	Rowe x Stages	Lips (Kg)	0.2	(2.0)	6.2 (2.8)						
Heat Exchanger	Fin Spec / Tube	in per men	Slit Fin / d 5	0, 21 Hi-XΔ Tube	۲ م ا	U, ZI Hi-XA Tube					
		cfm	420 / 367 / 293	441/385/307	448 / 378 / 275	498 / 420 / 307					
Airflow Rate	H/M/L	m³/min	11.9 / 10.4 / 8.3	12.5 / 10.9 / 8.7	12.7 / 10.7 / 7.8	14.1 / 11.9 / 8.7					
Fan	Type / Speed		Turbo Far	n / 3 Steps	Turbo Far	n / 3 Steps					
Running Current (Rated	l)	A	0.29 - 0.26	0.29 - 0.26	0.52 - 0.47	0.52 - 0.47					
Power Consumption (Ra	ated)	W	28 - 28	28 - 28	51 - 51	51 - 51					
Power Factor (Rated)		%	46.4 - 46.8	46.4 - 46.8	47.2 - 47.2	47.2 - 47.2					
Temperature Control			Microcomp	uter Control	Microcomp	uter Control					
Dimensions (H × W × D)	in. (mm)	10-1/4 × 22-5/8 × 22-	5/8 (260 × 575 × 575)	10-1/4 × 22-5/8 × 22-	5/8 (260 × 575 × 575)					
Packaged Dimensions ((H × W × D)	in. (mm)	11 × 27 × 23-1/2	(280 × 686 × 597)	11 × 27 × 23-1/2	(280 × 686 × 597)					
Weight (Mass)		lbs (kg)	36	(16)	39 (*	17.5)					
Gross Weight (Gross M	ass)	lbs (kg)	39	(17)	42	(19)					
Sound Pressure Level	H/M/L	dB(A)	40/37/31	40/37/31	44 / 40 / 32	44 / 40 / 32					
Remote Controller (Opti	ion)	Wired	BRC	1E73	BRC	1E/3					
Outdoor Unit		Wireless	BRC002A41W/BRC00	MV IIIQ	BRC002A41W/BRC00	MV IIIQ					
Casing Color			lvorv	White	lvorv	White					
Heat Exchanger	Fin Spec / Tube		Waffle Fin (PF) /	φ 7 Hi-XSL Tube	Waffle Fin (PF) /	φ 7 Hi-XSL Tube					
Fan Motor	Motor Output	HP	0.	10	0.	12					
0	Туре	1	Hermetically Se	aled Swing Type	Hermetically Se	aled Swing Type					
Compressor	Model		2YC3	6PXD	2YC3	6PXD					
Refrigerant Oil	Туре		FVC	50K	FVC	50K					
	Charge	oz (L)	21.98	(0.650)	21.98	(0.650)					
Refrigerant	Туре		R-4	10A	R-4	10A					
	Charge	lbs (kg)	2.49	(1.13)	2.49	(1.13)					
Airflow Rate		(m ³ /min)	2,313 (65.5)	2,108 (59.7)	2,461 (69.7)	2,553 (72.3)					
Fan	Туре	,	Prop	beller	Prop	eller					
Running Current (Rated	i)	A	6.05 - 5.47	6.51 - 5.89	7.22 - 6.53	10.18 - 9.21					
Power Consumption (Ra	ated)	W	1,224 - 1,224	1,321 - 1,321	1,462 - 1,462	2,059 - 2,059					
Power Factor (Rated)		%	97.3 - 97.3	97.6 - 97.5	97.4 - 97.3	97.2 - 97.2					
Dimensions (H × W × D)	in. (mm)	28-15/16 × 34-1/4 × 12	2-5/8 (735 × 870 × 320)	28-15/16 × 34-1/4 × 12	-5/8 (735 × 870 × 320)					
Packaged Dimensions ((H × W × D)	in. (mm)	31-7/8 × 41-9/16 × 18-	1/4 (810 × 1,056 × 464)	31-7/8 × 41-9/16 × 18-	1/4 (810 × 1,056 × 464)					
Weight (Mass)	>	lbs (kg)	100	(45)	100	(45)					
Gross Weight (Gross M	ass)	IDS (KG)	110	(50)	110	(50)					
Souria Pressure Level	[UB(A)									
	Indoor		67.0°FWB (19.4°CWB)	60.0°FWB (15.6°CWB)	67.0°FWB (19.4°CWB)	60.0°FWB (15.6°CWB)					
Conditions Based on	Outdoor		95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /	95.0°FDB (35.0°CDB) /	47.0°FDB (8.3°CDB) /					
			75.0°FWB (24.0°CWB)	43.0°FWB (6.1°CWB)) 75.0°FWB (24.0°CWB) 43.0°FWB (6.1°CWB)						
Drawing N	Piping Length		25 ft ((.5 m)	25 ft (7.5 m)						
Drawing No.			C: 3D1	40144A	C: 3D1	+3144A					
				ne annow rate setting.							

4. Dimensions 4.1 Indoor Unit

FTXR09/12WVJUW(S)9



FTXR18WVJUW(S)9



FDMQ09/12WVJU9



3D112918C

FDMQ15/18/24WVJU9





FFQ09/12/15/18W2VJU9 with BYFQ60B3W1 (Decoration Panel)

C: 3D106040A

FFQ09/12/15/18W2VJU9 with BYFQ60C2W1W(S) (Decoration Panel)



C: 3D106039A

BRC1E73 — Wired Remote Controller (Option) —



3D091305A

BRC082A43 — Wireless Remote Controller (Option) —



3D049611A

BRC082A41W — Wireless Remote Controller (Option) —



3D082556A

BRC082A42W(S) — Wireless Remote Controller (Option) —

· REMOTE CONTROLLER DIMENSIONS



• RECEIVER INSTALLATION PROCEDURE

DECORATION PANEL (BYEQ60C2019) (BYEQ60C2015)

 Ô

DRAIN PIPING SIDE

RECEIVER

4.2 Outdoor Unit RX09/12WMVJU9



RX15/18WMVJU9

HANDLE 9/16(14) 2-3/4(70) 34-1/4(870) 1/4(7) 12-5/8(320) 1-3/16(30) DUTDOOR AIR THERMISTOR ELECTRIC WIRE INTAKE BRAND NAME PLATE गारेगा 6 MANUFACTURER'S LABEL 28-15/16(735) 3/4(19) 7/8(23) 9/16(14,5) 4-HOLES FOR FOUNDATION BOLTS (M8 OR M10) 23-5/8(600) 4-15/16(125) 13-5/8(346) 7/16(11) (INSTALLATION LEG PITCH) 1-7/16(291 14-1/2(368) 3-15/16(100) Ó 0 ت 0 WALL HEIGHT ON AIR OUTLET SIDE EARTH THERMINAL MINIMUM SPACE FOR AIR PASSAGE =LESS THAN 47-1/4(1200) LIQUID STOP VALVE 20-11/16(525) 2 φ 1/4(φ 6.4)CυT) DRAIN OUTLET (1,D # 5/8(#15.9) HOSE FOR h GAS STOP VALVE 3-15/16(100) 3/4(350) <u>CONNECTION WITH DRAIN JOINT)</u> Æ -11 (# 1/2(# 12, 7)CuT) 13-3/4(350) Ð 4-1/8(105) 6-1/2(165) 1-15/16(50) 1-15/16(50) 1-15/16(50) 13-3/4(350) SERVICE PORT \odot UNIT:inch(mm) 6-13/16(173) IN CASE OF REMOVING STOP VALVE COVER AND TERMINAL STRIP COVER

3D092224D

RX24WMVJU9



3D092230B

5. Wiring Diagrams

5.1 Indoor Unit FTXR09/12/18WVJUW(S)9





FDMQ09/12/15/18/24WVJU9



FFQ09/12/15/18W2VJU9



3. IN CASE OF MAIN/SUB CHANGEOVER, SEE THE INSTALLATION MANUAL ATTACHED TO WIRELESS REMOTE CONTROLLER.

4. SYMBOLS SHOW AS FOLLOWS: BLK:BLACK RED:RED BLU:BLUE WHT:WHITE YLW:YELLOW GRN:GREEN ORG:ORANGE BRN:BROWN PNK:PINK

	INDOOR UNIT	WIR	ELESS REMOTE CONTROLLER
A1P	PRINTED CIRCUIT BOARD		(RECEIVER/DISPLAY UNIT)
C105	CAPACITOR(M1F)	A2P+A3P	PRINTED CIRCUIT BOARD
D\$1	DIP SWITCH ON PCB	BS1	PUSH BUTTON SWITCH ON PCB
F1U	FUSE(F.5A.250V)	HIP	PILOT LAMP (ON-RED)
F2U	FUSE(F,3.15A,500V)	סנע	PILOT LAMP
HAD	FLASHING LAMP		(TIMER-GREEN)
HAF	(SERVICE MONITOR GREEN)	סנע	PILOT LAMP
K2R	MAGNETIC RELAY	ПЪР	(FILTER SIGN-RED)
M1F	FAN MOTOR	U/D	PILOT LAMP
M1P	DRAIN PUMP MOTOR	7 חייר	(DEFROST-ORANGE)
M1S+M2S		001	SELECTOR SWITCH
M3S+M4S	SWING MOTOR	001	(MAIN-SUB)
R2T•R3T	THERMISTOR(COIL)	000	SELECTOR SWITCH
R4T	THERMISTOR(AIR)	332	(WIRELESS ADDRESS SET)
S1L	FLOAT SWITCH		SENSOR KIT
V1R	DIODE BRIDGE	A4P	PRINTED CIRCUIT BOARD
X1M	TERMINAL BLOCK	A5P	PRINTED CIRCUIT BOARD
X2M	TERMINAL BLOCK	CON	NECTOR FOR OPTIONAL PARTS
Z1F	NOISE FILTER	VOAA	CONNECTOR
Z1C	FERRITE CORE	AZ4A	(WIRING REMOTE CONTROLLER)
Z2C	FERRITE CORE	V99A	CONNECTOR
PS	SWITCHING POWER SUPPLY	VOON	(ADAPTOR FOR WIRING)
RC	RECEIVER	V26A	CONNECTOR
TC	TRANSMITTER	VIJA	(POWER SUPPLY FOR ADAPTOR)
W	IRED REMOTE CONTROLLER	V01A	CONNECTOR
RIT	THERMISTOR(AIR)	VOIM	(SENSOR KIT)

5.2 Outdoor Unit RX09/12WMVJU9



RX15/18/24WMVJU9



6. Piping Diagrams 6.1 Indoor Unit FTXR09/12WVJUW(S)9

FTXR18WVJUW(S)9





4D101008B

FDMQ09/12/15/18/24WVJU9



FFQ09/12/15/18W2VJU9



C: 4D112974B

C: 4D106033A

4D101010B

6.2 Outdoor Unit RX09/12WMVJU9



3D135014

RX15/18WMVJU9



unit:inch

RX24WMVJU9



unit∶inch

3D141502

Cooling (60 Hz, 208 V)

AFR	7.7
BF	0.16

Temp: Celsius / TC, SHC, PI: kW

IND	OOR	OUTDOOR TEMPERATURE (°CDB)																	
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	2.53	1.90	0.34	2.53	1.90	0.53	2.46	1.86	0.75	2.34	1.80	0.81	2.21	1.74	0.87	2.07	1.67	0.94
16.0	22.0	3.07	2.07	0.51	2.83	1.95	0.63	2.58	1.83	0.75	2.46	1.78	0.81	2.33	1.72	0.87	2.19	1.66	0.95
18.0	25.0	3.19	2.15	0.51	2.95	2.04	0.64	2.70	1.93	0.76	2.58	1.88	0.82	2.46	1.83	0.88	2.31	1.76	0.95
19.4	26.7	3.25	2.26	0.52	3.01	2.15	0.64	2.76	2.04	0.76	2.64	1.99	0.82	2.52	1.94	0.88	2.37	1.88	0.95
22.0	30.0	3.44	2.16	0.52	3.19	2.07	0.64	2.95	1.98	0.76	2.82	1.93	0.82	2.70	1.89	0.88	2.55	1.84	0.96
24.0	32.0	3.56	2.10	0.53	3.31	2.01	0.65	3.07	1.93	0.77	2.94	1.89	0.83	2.82	1.85	0.89	2.67	1.80	0.96

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	OOR		OUTDOOR TEMPERATURE (°FDB)																
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC PI TC SHC PI					TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	8.62	6.47	0.34	8.62	6.47	0.53	8.39	6.35	0.75	7.97	6.15	0.81	7.55	5.94	0.87	7.05	5.70	0.94
60.8	71.6	10.48	7.06	0.51	9.64	6.66	0.63	8.80	6.26	0.75	8.39	6.07	0.81	7.97	5.87	0.87	7.46	5.65	0.95
64.4	77.0	10.90	7.34	0.51	10.06	6.96	0.64	9.22	6.59	0.76	8.80	6.41	0.82	8.38	6.23	0.88	7.88	6.02	0.95
67.0	80.0	11.10	7.69	0.52	10.27	7.33	0.64	9.43	6.97	0.76	9.00	6.80	0.82	8.59	6.63	0.88	8.08	6.42	0.95
71.6	86.0	11.73	7.39	0.52	10.89	7.06	0.64	10.05	6.75	0.76	9.63	6.60	0.82	9.21	6.44	0.88	8.71	6.26	0.96
75.2	89.6	12.14	7.17	0.53	11.30	6.87	0.65	10.46	6.59	0.77	10.05	6.45	0.83	9.63	6.31	0.89	9.12	6.14	0.96

Heating (60 Hz, 208 V)

AFR 9.8

Temp: Celsius / TC, PI: kW

INDOOR					Ol	JTDOO	R TEMP	ERATU	RE (°CW	/B)				
EDB	-1	15	-1	0	-	5	(C	(6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.40	0.53	1.68	0.56	1.96	0.59	2.25	0.61	3.04	0.72	3.31	0.74	3.84	0.79
21.1	1.31	0.55	1.60	0.57	1.88	0.60	2.16	0.63	2.94	0.73	3.21	0.76	3.74	0.81
22.0	1.28	0.55	1.56	0.58	1.84	0.61	2.13	0.63	2.90	0.74	3.16	0.76	3.70	0.81
24.0	1.24	0.56	1.53	0.58	1.81	0.61	2.09	0.64	2.86	0.75	3.12	0.77	3.66	0.82
25.0	1.23	0.56	1.51	0.59	1.79	0.61	2.07	0.64	2.84	0.75	3.10	0.77	3.64	0.82
27.0	1.19	0.57	1.48	0.59	1.76	0.62	2.04	0.65	2.80	0.76	3.06	0.78	3.59	0.83

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR					0	UTDOOI	R TEMP	ERATU	RE (°FW	В)				
EDB		5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	TC PI		PI	TC	PI	TC	ΡI	TC	PI	TC	PI
59.0	4.78	0.53	5.74	0.56	6.70	0.59	7.67	0.61	10.38	0.72	11.28	0.74	13.10	0.79
70.0	4.48	0.55	5.45	0.57	6.41	0.60	7.37	0.63	10.00	0.73	10.94	0.76	12.75	0.81
71.6	4.37	0.55	5.33	0.58	6.29	0.61	7.25	0.63	9.89	0.74	10.80	0.76	12.61	0.81
75.2	4.25	0.56	5.21	0.58	6.17	0.61	7.14	0.64	9.75	0.75	10.66	0.77	12.47	0.82
77.0	4.19	0.56	5.15	0.59	6.11	0.61	7.08	0.64	9.69	0.75	10.59	0.77	12.40	0.82
80.6	4.07	0.57	5.03	0.59	6.00	0.62	6.96	0.65	9.55	0.76	10.45	0.78	12.27	0.83

Cooling (60 Hz, 230 V)

AFR	7.7
BF	0.16

Temp: Celsius / TC, SHC, PI: kW

IND	DOR	OUTDOOR TEMPERATURE (°CDB)																	
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	ΡI	PI TC SHC PI				SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	2.53	1.90	0.34	2.53	1.90	0.53	2.46	1.86	0.75	2.34	1.80	0.81	2.21	1.74	0.87	2.07	1.67	0.94
16.0	22.0	3.07	2.07	0.51	2.83	1.95	0.63	2.58	1.83	0.75	2.46	1.78	0.81	2.33	1.72	0.87	2.19	1.66	0.95
18.0	25.0	3.19	2.15	0.51	2.95	2.04	0.64	2.70	1.93	0.76	2.58	1.88	0.82	2.46	1.83	0.88	2.31	1.76	0.95
19.4	26.7	3.25	2.26	0.52	3.01	2.15	0.64	2.76	2.04	0.76	2.64	1.99	0.82	2.52	1.94	0.88	2.37	1.88	0.95
22.0	30.0	3.44	2.16	0.52	3.19	2.07	0.64	2.95	1.98	0.76	2.82	1.93	0.82	2.70	1.89	0.88	2.55	1.84	0.96
24.0	32.0	3.56	2.10	0.53	3.31	2.01	0.65	3.07	1.93	0.77	2.94	1.89	0.83	2.82	1.85	0.89	2.67	1.80	0.96

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR	OUTDOOR TEMPERATURE (°FDB)																	
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	8.62	6.47	0.34	8.62	6.47	0.53	8.39	6.35	0.75	7.97	6.15	0.81	7.55	5.94	0.87	7.05	5.70	0.94
60.8	71.6	10.48	7.06	0.51	9.64	6.66	0.63	8.80	6.26	0.75	8.39	6.07	0.81	7.97	5.87	0.87	7.46	5.65	0.95
64.4	77.0	10.90	7.34	0.51	10.06	6.96	0.64	9.22	6.59	0.76	8.80	6.41	0.82	8.38	6.23	0.88	7.88	6.02	0.95
67.0	80.0	11.10	7.69	0.52	10.27	7.33	0.64	9.43	6.97	0.76	9.00	6.80	0.82	8.59	6.63	0.88	8.08	6.42	0.95
71.6	86.0	11.73	7.39	0.52	10.89	7.06	0.64	10.05	6.75	0.76	9.63	6.60	0.82	9.21	6.44	0.88	8.71	6.26	0.96
75.2	89.6	12.14	7.17	0.53	11.30	6.87	0.65	10.46	6.59	0.77	10.05	6.45	0.83	9.63	6.31	0.89	9.12	6.14	0.96

Heating (60 Hz, 230 V)

AFR	9.8

Temp: Celsius / TC, PI: kW

INDOOR					Ol	JTDOOF	R TEMP	ERATU	RE (°CW	/B)				
EDB		15	´	10	_	-5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.40	0.53	1.68	0.56	1.96	0.59	2.25	0.61	3.04	0.72	3.31	0.74	3.84	0.79
21.1	1.31	0.55	1.60	0.57	1.88	0.60	2.16	0.63	2.94	0.73	3.21	0.76	3.74	0.81
22.0	1.28	0.55	1.56	0.58	1.84	0.61	2.13	0.63	2.90	0.74	3.16	0.76	3.70	0.81
24.0	1.24	0.56	1.53	0.58	1.81	0.61	2.09	0.64	2.86	0.75	3.12	0.77	3.66	0.82
25.0	1.23	0.56	1.51	0.59	1.79	0.61	2.07	0.64	2.84	0.75	3.10	0.77	3.64	0.82
27.0	1.19	0.57	1.48	0.59	1.76	0.62	2.04	0.65	2.80	0.76	3.06	0.78	3.59	0.83

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)														
EDB	Į	5	1	4	2	3	3	2	4	3	5	0	6	4		
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
59.0	4.78	0.53	5.74	0.56	6.70	0.59	7.67	0.61	10.38	0.72	11.28	0.74	13.10	0.79		
70.0	4.48	0.55	5.45	0.57	6.41	0.60	7.37	0.63	10.00	0.73	10.94	0.76	12.75	0.81		
71.6	4.37	0.55	5.33	0.58	6.29	0.61	7.25	0.63	9.89	0.74	10.80	0.76	12.61	0.81		
75.2	4.25	0.56	5.21	0.58	6.17	0.61	7.14	0.64	9.75	0.75	10.66	0.77	12.47	0.82		
77.0	4.19	0.56	5.15	0.59	6.11	0.61	7.08	0.64	9.69	0.75	10.59	0.77	12.40	0.82		
80.6	4.07	0.57	5.03	0.59	6.00	0.62	6.96	0.65	9.55	0.76	10.45	0.78	12.27	0.83		

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
PI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

4. Airflow rate (AFR) and Bypass factor (BF) are tabulated above table.

FTXR12WVJUW(S)9 + RX12WMVJU9

Cooling (60 Hz, 208 V)

AFR	9.5
BF	0.19

Temp: Celsius / TC, SHC, PI: kW

IND	OOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB		10 20						30		35				40		46		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.01	2.26	0.32	3.01	2.26	0.52	3.01	2.26	0.82	3.01	2.26	1.00	2.97	2.24	1.16	2.67	2.09	1.17
16.0	22.0	3.86	2.56	0.55	3.79	2.53	0.84	3.46	2.37	1.00	3.30	2.29	1.08	3.13	2.21	1.16	2.82	2.07	1.17
18.0	25.0	4.28	2.79	0.69	3.95	2.63	0.85	3.62	2.48	1.01	3.46	2.41	1.09	3.29	2.33	1.17	2.96	2.19	1.17
19.4	26.7	4.36	2.90	0.69	4.03	2.76	0.85	3.70	2.61	1.01	3.54	2.54	1.09	3.38	2.47	1.17	3.04	2.33	1.17
22.0	30.0	4.61	2.78	0.69	4.28	2.65	0.86	3.95	2.52	1.02	3.78	2.46	1.10	3.62	2.40	1.18	3.25	2.26	1.17
24.0	32.0	4.77	2.70	0.70	4.44	2.57	0.86	4.11	2.46	1.02	3.95	2.40	1.10	3.78	2.34	1.18	3.39	2.21	1.17

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR	OUTDOOR TEMPERATURE (°FDB)																	
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	10.26	7.70	0.32	10.26	7.70	0.52	10.26	7.70	0.82	10.26	7.70	1.00	10.12	7.63	1.16	9.11	7.13	1.17
60.8	71.6	13.17	8.75	0.55	12.93	8.63	0.84	11.81	8.08	1.00	11.24	7.81	1.08	10.68	7.54	1.16	9.61	7.05	1.17
64.4	77.0	14.61	9.50	0.69	13.49	8.97	0.85	12.36	8.46	1.01	11.80	8.21	1.09	11.24	7.96	1.17	10.11	7.47	1.17
67.0	80.0	14.89	9.91	0.69	13.77	9.40	0.85	12.64	8.90	1.01	12.00	8.66	1.09	11.52	8.42	1.17	10.36	7.94	1.17
71.6	86.0	15.73	9.50	0.69	14.60	9.04	0.86	13.48	8.60	1.02	12.91	8.39	1.10	12.35	8.18	1.18	11.09	7.71	1.17
75.2	89.6	16.28	9.20	0.70	15.16	8.78	0.86	14.03	8.38	1.02	13.47	8.19	1.10	12.91	7.99	1.18	11.58	7.55	1.17

Heating (60 Hz, 208 V)

AFR 11.2

Temp: Celsius / TC, PI: kW

INDOOR	OUTDOOR TEMPERATURE (°CWB)														
EDB	-1	5	-1	0	-	5	()	6	3	1	0	1	8	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
15.0	1.89	0.80	2.27	0.84	2.65	0.88	3.03	0.92	4.10	1.08	4.45	1.12	5.17	1.19	
21.1	1.77	0.82	2.15	0.86	2.53	0.91	2.91	0.95	3.96	1.11	4.32	1.14	5.03	1.22	
22.0	1.72	0.83	2.10	0.87	2.48	0.91	2.86	0.96	3.91	1.12	4.26	1.15	4.98	1.23	
24.0	1.68	0.84	2.06	0.88	2.44	0.92	2.82	0.96	3.85	1.13	4.21	1.16	4.92	1.24	
25.0	1.65	0.85	2.03	0.89	2.41	0.93	2.79	0.97	3.82	1.13	4.18	1.17	4.90	1.24	
27.0	1.61	0.85	1.99	0.90	2.37	0.94	2.75	0.98	3.77	1.14	4.13	1.18	4.84	1.25	

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR					Ol	JTDOOI	R TEMP	ERATU	RE (°FW	'B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI TC PI TC P		PI	TC	ΡI	TC	ΡI		
59.0	6.43	0.80	7.73	0.84	9.03	0.88	10.33	0.92	13.98	1.08	15.20	1.12	17.64	1.19
70.0	6.04	0.82	7.33	0.86	8.63	0.91	9.93	0.95	13.50	1.11	14.73	1.14	17.17	1.22
71.6	5.88	0.83	7.18	0.87	8.47	0.91	9.77	0.96	13.32	1.12	14.55	1.15	16.99	1.23
75.2	5.72	0.84	7.02	0.88	8.31	0.92	9.61	0.96	13.14	1.13	14.36	1.16	16.80	1.24
77.0	5.64	0.85	6.94	0.89	8.24	0.93	9.53	0.97	13.05	1.13	14.27	1.17	16.71	1.24
80.6	5.48	0.85	6.78	0.90	8.08	0.94	9.37	0.98	12.86	1.14	14.08	1.18	16.52	1.25

Cooling (60 Hz, 230 V)

AFR	9.5
BF	0.19

Temp: Celsius / TC, SHC, PI: kW

IND	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB		10 20						30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI
14.0	20.0	3.01	2.26	0.32	3.01	2.26	0.52	3.01	2.26	0.82	3.01	2.26	1.00	2.97	2.24	1.16	2.77	2.14	1.26
16.0	22.0	3.86	2.56	0.55	3.79	2.53	0.84	3.46	2.37	1.00	3.30	2.29	1.08	3.13	2.21	1.16	2.93	2.12	1.26
18.0	25.0	4.28	2.79	0.69	3.95	2.63	0.85	3.62	2.48	1.01	3.46	2.41	1.09	3.29	2.33	1.17	3.10	2.25	1.27
19.4	26.7	4.36	2.90	0.69	4.03	2.76	0.85	3.70	2.61	1.01	3.54	2.54	1.09	3.38	2.47	1.17	3.18	2.39	1.27
22.0	30.0	4.61	2.78	0.69	4.28	2.65	0.86	3.95	2.52	1.02	3.78	2.46	1.10	3.62	2.40	1.18	3.42	2.32	1.28
24.0	32.0	4.77	2.70	0.70	4.44	2.57	0.86	4.11	2.46	1.02	3.95	2.40	1.10	3.78	2.34	1.18	3.59	2.28	1.28

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	OOR							OU.	TDOOF	R TEMP	PERATU	IRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI
57.2	68.0	10.26	7.70	0.32	10.26	7.70	0.52	10.26	7.70	0.82	10.26	7.70	1.00	10.12	7.63	1.16	9.45	7.30	1.26
60.8	71.6	13.17	8.75	0.55	12.93	8.63	0.84	11.81	8.08	1.00	11.24	7.81	1.08	10.68	7.54	1.16	10.01	7.23	1.26
64.4	77.0	14.61	9.50	0.69	13.49	8.97	0.85	12.36	8.46	1.01	11.80	8.21	1.09	11.24	7.96	1.17	10.56	7.67	1.27
67.0	80.0	14.89	9.91	0.69	13.77	9.40	0.85	12.64	8.90	1.01	12.00	8.66	1.09	11.52	8.42	1.17	10.84	8.14	1.27
71.6	86.0	15.73	9.50	0.69	14.60	9.04	0.86	13.48	8.60	1.02	12.91	8.39	1.10	12.35	8.18	1.18	11.68	7.93	1.28
75.2	89.6	16.28	9.20	0.70	15.16	8.78	0.86	14.03	8.38	1.02	13.47	8.19	1.10	12.91	7.99	1.18	12.23	7.76	1.28

Heating (60 Hz, 230 V)

AFR	11.2

Temp: Celsius / TC, PI: kW

INDOOR					Ol	JTDOOF	R TEMP	ERATU	RE (°CW	/B)				
EDB	— ´	15	´	10		5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.89	0.80	2.27	0.84	2.65	0.88	3.03	0.92	4.10	1.08	4.45	1.12	5.17	1.19
21.1	1.77	0.82	2.15	0.86	2.53	0.91	2.91	0.95	3.96	1.11	4.32	1.14	5.03	1.22
22.0	1.72	0.83	2.10	0.87	2.48	0.91	2.86	0.96	3.91	1.12	4.26	1.15	4.98	1.23
24.0	1.68	0.84	2.06	0.88	2.44	0.92	2.82	0.96	3.85	1.13	4.21	1.16	4.92	1.24
25.0	1.65	0.85	2.03	0.89	2.41	0.93	2.79	0.97	3.82	1.13	4.18	1.17	4.90	1.24
27.0	1.61	0.85	1.99	0.90	2.37	0.94	2.75	0.98	3.77	1.14	4.13	1.18	4.84	1.25

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR					Ol	JTDOOI	R TEMP	ERATUI	RE (°FW	'В)				
EDB	Į	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	6.43	0.80	7.73	0.84	9.03	0.88	10.33	0.92	13.98	1.08	15.20	1.12	17.64	1.19
70.0	6.04	0.82	7.33	0.86	8.63	0.91	9.93	0.95	13.50	1.11	14.73	1.14	17.17	1.22
71.6	5.88	0.83	7.18	0.87	8.47	0.91	9.77	0.96	13.32	1.12	14.55	1.15	16.99	1.23
75.2	5.72	0.84	7.02	0.88	8.31	0.92	9.61	0.96	13.14	1.13	14.36	1.16	16.80	1.24
77.0	5.64	0.85	6.94	0.89	8.24	0.93	9.53	0.97	13.05	1.13	14.27	1.17	16.71	1.24
80.6	5.48	0.85	6.78	0.90	8.08	0.94	9.37	0.98	12.86	1.14	14.08	1.18	16.52	1.25

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

4. Airflow rate (AFR) and Bypass factor (BF) are tabulated above table.

FTXR18WVJUW(S)9 + RX18WMVJU9

Cooling (60 Hz, 208 V)

AFR	9.9
BF	0.17

Temp: Celsius / TC, SHC, PI: kW

IND	OOR							OU.	TDOOF	R TEMP	ERATL	IRE (°C	DB)						
EWB	EDB		10			20			30			35			40		46		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.21	2.41	0.23	3.21	2.41	0.38	3.21	2.41	0.67	3.21	2.41	0.89	3.21	2.41	1.16	3.19	2.40	1.41
16.0	22.0	4.12	2.74	0.34	4.12	2.74	0.58	4.12	2.74	0.99	4.12	2.74	1.28	4.12	2.74	1.60	3.34	2.36	1.41
18.0	25.0	5.10	3.23	0.53	5.10	3.23	0.90	5.10	3.23	1.48	5.10	3.23	1.82	4.91	3.14	2.01	3.49	2.48	1.41
19.4	26.7	5.62	3.56	0.66	5.62	3.56	1.14	5.53	3.52	1.74	5.28	3.40	1.88	5.03	3.28	2.01	3.57	2.62	1.41
22.0	30.0	6.87	3.84	1.19	6.38	3.61	1.47	5.89	3.38	1.75	5.64	3.28	1.89	5.39	3.17	2.02	3.79	2.53	1.41
24.0	32.0	7.12	3.70	1.20	6.63	3.49	1.48	6.13	3.28	1.76	5.89	3.18	1.90	5.62	3.08	2.02	3.94	2.47	1.41

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOR	TEMP	ERATU	IRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI
57.2	68.0	10.95	8.22	0.23	10.95	8.22	0.38	10.95	8.22	0.67	10.95	8.22	0.89	10.95	8.22	1.16	10.87	8.18	1.41
60.8	71.6	14.07	9.34	0.34	14.07	9.34	0.58	14.07	9.34	0.99	14.07	9.34	1.28	14.07	9.34	1.60	11.40	8.05	1.41
64.4	77.0	17.42	11.03	0.53	17.42	11.03	0.90	17.42	11.03	1.48	17.42	11.03	1.82	16.76	10.71	2.01	11.92	8.46	1.41
67.0	80.0	19.18	12.16	0.66	19.18	12.16	1.14	18.85	12.00	1.74	18.00	11.59	1.88	17.18	11.18	2.01	12.18	8.94	1.41
71.6	86.0	23.45	13.10	1.19	21.78	12.31	1.47	20.10	11.55	1.75	19.26	11.18	1.89	18.38	10.80	2.02	12.95	8.64	1.41
75.2	89.6	24.28	12.62	1.20	22.61	11.90	1.48	20.93	11.20	1.76	20.09	10.86	1.90	19.16	10.50	2.02	13.45	8.42	1.41

Heating (60 Hz, 208 V)

AFR 11.7

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-1	5	-1	0	-	5	()	6	3	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.80	1.27	3.36	1.34	3.93	1.40	4.49	1.47	6.08	1.72	6.61	1.77	7.68	1.89
21.1	2.63	1.31	3.19	1.37	3.76	1.44	4.32	1.50	5.88	1.76	6.41	1.81	7.47	1.93
22.0	2.56	1.32	3.12	1.39	3.69	1.45	4.25	1.52	5.80	1.77	6.33	1.83	7.29	1.90
24.0	2.49	1.33	3.05	1.40	3.62	1.46	4.18	1.53	5.72	1.79	6.25	1.84	6.85	1.74
25.0	2.46	1.34	3.02	1.41	3.58	1.47	4.15	1.54	5.68	1.79	6.21	1.85	6.63	1.67
27.0	2.39	1.36	2.95	1.42	3.51	1.49	4.08	1.55	5.60	1.81	6.13	1.87	6.19	1.53

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR					OL	JTDOOI	R TEMP	ERATU	RE (°FW	'B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	ΡI	TC	PI	TC	PI	TC	ΡI
59.0	9.55	1.27	11.48	1.34	13.41	1.40	15.33	1.47	20.76	1.72	22.57	1.77	26.19	1.89
70.0	8.97	1.31	10.89	1.37	12.82	1.44	14.74	1.50	20.00	1.76	21.87	1.81	25.50	1.93
71.6	8.73	1.32	10.66	1.39	12.58	1.45	14.51	1.52	19.79	1.77	21.60	1.83	24.88	1.90
75.2	8.49	1.33	10.42	1.40	12.35	1.46	14.27	1.53	19.51	1.79	21.32	1.84	23.37	1.74
77.0	8.38	1.34	10.30	1.41	12.23	1.47	14.15	1.54	19.37	1.79	21.18	1.85	22.62	1.67
80.6	8.14	1.36	10.07	1.42	11.99	1.49	13.92	1.55	19.09	1.81	20.91	1.87	21.11	1.53

Cooling (60 Hz, 230 V)

AFR	9.9
BF	0.17

Temp: Celsius / TC, SHC, PI: kW

IND	DOR	OUTDOOR TEMPERATURE (°CDB)																	
EWB	EDB	10			20			30			35			40			46		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI
14.0	20.0	3.21	2.41	0.23	3.21	2.41	0.38	3.21	2.41	0.67	3.21	2.41	0.89	3.21	2.41	1.16	3.21	2.41	1.55
16.0	22.0	4.12	2.74	0.34	4.12	2.74	0.58	4.12	2.74	0.99	4.12	2.74	1.28	4.12	2.74	1.60	3.59	2.48	1.56
18.0	25.0	5.10	3.23	0.53	5.10	3.23	0.90	5.10	3.23	1.48	5.10	3.23	1.82	4.91	3.14	2.01	3.75	2.60	1.56
19.4	26.7	5.62	3.56	0.66	5.62	3.56	1.14	5.53	3.52	1.74	5.28	3.40	1.88	5.03	3.28	2.01	3.84	2.74	1.56
22.0	30.0	6.87	3.84	1.19	6.38	3.61	1.47	5.89	3.38	1.75	5.64	3.28	1.89	5.40	3.17	2.03	4.09	2.64	1.56
24.0	32.0	7.12	3.70	1.20	6.63	3.49	1.48	6.13	3.28	1.76	5.89	3.18	1.90	5.64	3.09	2.03	4.25	2.58	1.56

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	OOR							OU	TDOOF	TEMP	PERATU	IRE (°F	DB)						
EWB	EDB	50			68			86		95			104			115			
°F	°F	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI
57.2	68.0	10.95	8.22	0.23	10.95	8.22	0.38	10.95	8.22	0.67	10.95	8.22	0.89	10.95	8.22	1.16	10.95	8.22	1.55
60.8	71.6	14.07	9.34	0.34	14.07	9.34	0.58	14.07	9.34	0.99	14.07	9.34	1.28	14.07	9.34	1.60	12.24	8.45	1.56
64.4	77.0	17.42	11.03	0.53	17.42	11.03	0.90	17.42	11.03	1.48	17.42	11.03	1.82	16.76	10.71	2.01	12.81	8.86	1.56
67.0	80.0	19.18	12.16	0.66	19.18	12.16	1.14	18.85	12.00	1.74	18.00	11.59	1.88	17.18	11.18	2.01	13.10	9.34	1.56
71.6	86.0	23.45	13.10	1.19	21.78	12.31	1.47	20.10	11.55	1.75	19.26	11.18	1.89	18.42	10.82	2.03	13.95	9.02	1.56
75.2	89.6	24.28	12.62	1.20	22.61	11.90	1.48	20.93	11.20	1.76	20.09	10.86	1.90	19.25	10.53	2.03	14.51	8.79	1.56

Heating (60 Hz, 230 V)

AFR	11.7

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		-10		-5		0		6		10		18	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.80	1.27	3.36	1.34	3.93	1.40	4.49	1.47	6.08	1.72	6.61	1.77	7.68	1.89
21.1	2.63	1.31	3.19	1.37	3.76	1.44	4.32	1.50	5.88	1.76	6.41	1.81	7.47	1.93
22.0	2.56	1.32	3.12	1.39	3.69	1.45	4.25	1.52	5.80	1.77	6.33	1.83	7.29	1.90
24.0	2.49	1.33	3.05	1.40	3.62	1.46	4.18	1.53	5.72	1.79	6.25	1.84	6.85	1.74
25.0	2.46	1.34	3.02	1.41	3.58	1.47	4.15	1.54	5.68	1.79	6.21	1.85	6.63	1.67
27.0	2.39	1.36	2.95	1.42	3.51	1.49	4.08	1.55	5.60	1.81	6.13	1.87	6.19	1.53

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR	OUTDOOR TEMPERATURE (°FWB)													
EDB	5		14		23		32		43		50		64	
°F	TC	PI	TC	PI	TC	PI	TC	ΡI	TC	PI	TC	PI	TC	PI
59.0	9.55	1.27	11.48	1.34	13.41	1.40	15.33	1.47	20.76	1.72	22.57	1.77	26.19	1.89
70.0	8.97	1.31	10.89	1.37	12.82	1.44	14.74	1.50	20.00	1.76	21.87	1.81	25.50	1.93
71.6	8.73	1.32	10.66	1.39	12.58	1.45	14.51	1.52	19.79	1.77	21.60	1.83	24.88	1.90
75.2	8.49	1.33	10.42	1.40	12.35	1.46	14.27	1.53	19.51	1.79	21.32	1.84	23.37	1.74
77.0	8.38	1.34	10.30	1.41	12.23	1.47	14.15	1.54	19.37	1.79	21.18	1.85	22.62	1.67
80.6	8.14	1.36	10.07	1.42	11.99	1.49	13.92	1.55	19.09	1.81	20.91	1.87	21.11	1.53

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

4. Airflow rate (AFR) and Bypass factor (BF) are tabulated above table.
FDMQ09WVJU9 + RX09WMVJU9

Cooling (60 Hz, 208 V)

AFR	6.4
BF	0.14

Temp: Celsius / TC, SHC, PI: kW

IND	DOR	OUTDOOR TEMPERATURE (°CDB)																	
EWB	EDB		10 20				30			35			40			46			
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	2.69	1.89	0.50	2.69	1.89	0.79	2.46	1.77	0.97	2.33	1.71	1.05	2.21	1.65	1.13	2.06	1.57	1.17
16.0	22.0	3.07	1.99	0.66	2.82	1.87	0.82	2.58	1.74	0.97	2.46	1.69	1.05	2.33	1.63	1.13	2.19	1.56	1.17
18.0	25.0	3.19	2.06	0.67	2.95	1.94	0.82	2.70	1.82	0.98	2.58	1.77	1.06	2.45	1.71	1.13	2.31	1.65	1.17
19.4	26.7	3.25	2.14	0.67	3.01	2.03	0.82	2.76	1.92	0.98	2.64	1.86	1.06	2.51	1.81	1.14	2.37	1.75	1.17
22.0	30.0	3.43	2.05	0.67	3.19	1.95	0.83	2.94	1.85	0.99	2.82	1.80	1.07	2.70	1.76	1.14	2.55	1.70	1.17
24.0	32.0	3.56	1.98	0.68	3.31	1.89	0.84	3.06	1.80	0.99	2.94	1.76	1.07	2.82	1.72	1.15	2.67	1.67	1.17

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	OOR							OU.	TDOOF	R TEMP	PERATU	JRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	9.17	6.46	0.50	9.17	6.46	0.79	8.38	6.04	0.97	7.96	5.83	1.05	7.54	5.61	1.13	7.04	5.36	1.17
60.8	71.6	10.47	6.80	0.66	9.64	6.37	0.82	8.80	5.95	0.97	8.38	5.75	1.05	7.96	5.55	1.13	7.46	5.31	1.17
64.4	77.0	10.89	7.01	0.67	10.05	6.61	0.82	9.21	6.22	0.98	8.79	6.03	1.06	8.37	5.85	1.13	7.87	5.63	1.17
67.0	80.0	11.10	7.30	0.67	10.26	6.91	0.82	9.42	6.54	0.98	9.00	6.36	1.06	8.58	6.18	1.14	8.08	5.96	1.17
71.6	86.0	11.72	6.99	0.67	10.88	6.65	0.83	10.04	6.32	0.99	9.62	6.15	1.07	9.20	5.99	1.14	8.70	5.80	1.17
75.2	89.6	12.13	6.77	0.68	11.29	6.45	0.84	10.46	6.15	0.99	10.04	6.00	1.07	9.62	5.86	1.15	9.11	5.68	1.17

Heating (60 Hz, 208 V)

AFR 8.7

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		-1	0	-	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.52	0.69	1.86	0.72	2.13	0.76	2.44	0.79	3.30	1.04	3.59	1.08	4.17	1.15
21.1	1.43	0.70	1.77	0.74	2.04	0.77	2.35	0.81	3.19	1.06	3.48	1.10	4.06	1.17
22.0	1.39	0.71	1.73	0.75	2.00	0.78	2.31	0.82	3.15	1.07	3.44	1.11	4.02	1.18
24.0	1.35	0.72	1.70	0.76	1.97	0.79	2.27	0.83	3.11	1.08	3.39	1.12	3.97	1.19
25.0	1.33	0.72	1.68	0.76	1.95	0.79	2.25	0.83	3.08	1.09	3.37	1.12	3.95	1.19
27.0	1.30	0.73	1.64	0.77	1.91	0.80	2.22	0.84	3.04	1.10	3.33	1.13	3.91	1.20

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	5.19	0.69	6.36	0.72	7.28	0.76	8.33	0.79	11.28	1.04	12.26	1.08	14.23	1.15
70.0	4.87	0.70	6.04	0.74	6.96	0.77	8.01	0.81	10.90	1.06	11.88	1.10	13.85	1.17
71.6	4.74	0.71	5.91	0.75	6.84	0.78	7.88	0.82	10.75	1.07	11.73	1.11	13.70	1.18
75.2	4.62	0.72	5.79	0.76	6.71	0.79	7.75	0.83	10.60	1.08	11.58	1.12	13.55	1.19
77.0	4.55	0.72	5.72	0.76	6.64	0.79	7.69	0.83	10.52	1.09	11.51	1.12	13.48	1.19
80.6	4.42	0.73	5.60	0.77	6.52	0.80	7.56	0.84	10.37	1.10	11.36	1.13	13.33	1.20

AFR	6.4
BF	0.14

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOR	TEMP	ERATU	IRE (°C	DB)						
EWB	EDB		10 20					30			35			40			46		
°C	°C	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI
14.0	20.0	2.69	1.89	0.50	2.69	1.89	0.79	2.46	1.77	0.97	2.33	1.71	1.05	2.21	1.65	1.13	2.06	1.57	1.22
16.0	22.0	3.07	1.99	0.66	2.82	1.87	0.82	2.58	1.74	0.97	2.46	1.69	1.05	2.33	1.63	1.13	2.19	1.56	1.22
18.0	25.0	3.19	2.06	0.67	2.95	1.94	0.82	2.70	1.82	0.98	2.58	1.77	1.06	2.45	1.71	1.13	2.31	1.65	1.23
19.4	26.7	3.25	2.14	0.67	3.01	2.03	0.82	2.76	1.92	0.98	2.64	1.86	1.06	2.51	1.81	1.14	2.37	1.75	1.23
22.0	30.0	3.43	2.05	0.67	3.19	1.95	0.83	2.94	1.85	0.99	2.82	1.80	1.07	2.70	1.76	1.14	2.55	1.70	1.24
24.0	32.0	3.56	1.98	0.68	3.31	1.89	0.84	3.06	1.80	0.99	2.94	1.76	1.07	2.82	1.72	1.15	2.67	1.67	1.24

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATL	JRE (°F	DB)						
EWB	EDB		50 68				86			95			104			115			
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI
57.2	68.0	9.17	6.46	0.50	9.17	6.46	0.79	8.38	6.04	0.97	7.96	5.83	1.05	7.54	5.61	1.13	7.04	5.36	1.22
60.8	71.6	10.47	6.80	0.66	9.64	6.37	0.82	8.80	5.95	0.97	8.38	5.75	1.05	7.96	5.55	1.13	7.46	5.31	1.22
64.4	77.0	10.89	7.01	0.67	10.05	6.61	0.82	9.21	6.22	0.98	8.79	6.03	1.06	8.37	5.85	1.13	7.87	5.63	1.23
67.0	80.0	11.10	7.30	0.67	10.26	6.91	0.82	9.42	6.54	0.98	9.00	6.36	1.06	8.58	6.18	1.14	8.08	5.96	1.23
71.6	86.0	11.72	6.99	0.67	10.88	6.65	0.83	10.04	6.32	0.99	9.62	6.15	1.07	9.20	5.99	1.14	8.70	5.80	1.24
75.2	89.6	12.13	6.77	0.68	11.29	6.45	0.84	10.46	6.15	0.99	10.04	6.00	1.07	9.62	5.86	1.15	9.11	5.68	1.24

Heating (60 Hz, 230 V)

AFR 8.7

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		´	10	_	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.52	0.69	1.83	0.72	2.13	0.76	2.44	0.79	3.30	1.04	3.59	1.08	4.17	1.15
21.1	1.43	0.70	1.73	0.74	2.04	0.77	2.35	0.81	3.19	1.06	3.48	1.10	4.06	1.17
22.0	1.39	0.71	1.70	0.75	2.00	0.78	2.31	0.82	3.15	1.07	3.44	1.11	4.02	1.18
24.0	1.35	0.72	1.66	0.75	1.97	0.79	2.27	0.83	3.11	1.08	3.39	1.12	3.97	1.19
25.0	1.33	0.72	1.64	0.76	1.95	0.79	2.25	0.83	3.08	1.09	3.37	1.12	3.95	1.19
27.0	1.30	0.73	1.60	0.77	1.91	0.80	2.22	0.84	3.04	1.10	3.33	1.13	3.91	1.20

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	ΡI
59.0	5.19	0.69	6.24	0.72	7.28	0.76	8.33	0.79	11.28	1.04	12.26	1.08	14.23	1.15
70.0	4.87	0.70	5.92	0.74	6.96	0.77	8.01	0.81	10.90	1.06	11.88	1.10	13.85	1.17
71.6	4.74	0.71	5.79	0.75	6.84	0.78	7.88	0.82	10.75	1.07	11.73	1.11	13.70	1.18
75.2	4.62	0.72	5.66	0.75	6.71	0.79	7.75	0.83	10.60	1.08	11.58	1.12	13.55	1.19
77.0	4.55	0.72	5.60	0.76	6.64	0.79	7.69	0.83	10.52	1.09	11.51	1.12	13.48	1.19
80.6	4.42	0.73	5.47	0.77	6.52	0.80	7.56	0.84	10.37	1.10	11.36	1.13	13.33	1.20

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
PI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FDMQ12WVJU9 + RX12WMVJU9

Cooling (60 Hz, 208 V)

AFR	7.8
BF	0.17

Temp: Celsius / TC, SHC, PI: kW

IND	DOR	OUTDOOR TEMPERATURE (°CDB)																	
EWB	EDB					20			30			35			40			46	
°C	°C	ТС	SHC	PI	TC	SHC	PI												
14.0	20.0	3.14	2.21	0.57	3.14	2.21	0.86	2.95	2.11	1.12	2.80	2.03	1.21	2.65	1.96	1.30	2.48	1.87	1.17
16.0	22.0	3.68	2.38	0.77	3.39	2.23	0.95	3.09	2.08	1.13	2.95	2.01	1.22	2.80	1.94	1.31	2.62	1.85	1.17
18.0	25.0	3.83	2.45	0.77	3.53	2.31	0.95	3.24	2.17	1.13	3.09	2.10	1.22	2.94	2.04	1.32	2.77	1.96	1.17
19.4	26.7	3.90	2.55	0.77	3.61	2.41	0.96	3.31	2.28	1.14	3.17	2.21	1.23	3.02	2.15	1.32	2.84	2.07	1.17
22.0	30.0	4.12	2.44	0.78	3.83	2.32	0.96	3.53	2.20	1.14	3.38	2.14	1.24	3.24	2.08	1.33	3.06	2.02	1.17
24.0	32.0	4.27	2.36	0.79	3.97	2.25	0.97	3.68	2.14	1.15	3.53	2.09	1.24	3.38	2.04	1.33	3.21	1.97	1.17

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR	OUTDOOR TEMPERATURE (°FDB)																	
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	10.70	7.54	0.57	10.70	7.54	0.86	10.06	7.20	1.12	9.56	6.94	1.21	9.05	6.68	1.30	8.45	6.37	1.17
60.8	71.6	12.57	8.12	0.77	11.56	7.60	0.95	10.56	7.09	1.13	10.05	6.85	1.22	9.55	6.60	1.31	8.95	6.32	1.17
64.4	77.0	13.07	8.36	0.77	12.06	7.87	0.95	11.05	7.40	1.13	10.55	7.17	1.22	10.05	6.95	1.32	9.44	6.68	1.17
67.0	80.0	13.31	8.70	0.77	12.31	8.23	0.96	11.30	7.77	1.14	10.80	7.55	1.23	10.30	7.33	1.32	9.69	7.07	1.17
71.6	86.0	14.06	8.32	0.78	13.06	7.91	0.96	12.05	7.50	1.14	11.55	7.31	1.24	11.04	7.11	1.33	10.44	6.88	1.17
75.2	89.6	14.56	8.05	0.79	13.55	7.67	0.97	12.55	7.30	1.15	12.04	7.12	1.24	11.54	6.95	1.33	10.94	6.74	1.17

Heating (60 Hz, 208 V)

AFR 10.8

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		-1	0	-	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.90	0.86	2.33	0.90	2.66	0.94	3.05	0.99	4.12	1.30	4.48	1.34	5.07	1.36
21.1	1.78	0.88	2.21	0.93	2.55	0.97	2.93	1.01	3.99	1.33	4.35	1.37	4.89	1.36
22.0	1.73	0.89	2.16	0.94	2.50	0.98	2.88	1.02	3.93	1.34	4.29	1.38	4.82	1.36
24.0	1.69	0.90	2.12	0.95	2.45	0.99	2.84	1.03	3.88	1.35	4.24	1.40	4.75	1.36
25.0	1.66	0.90	2.09	0.95	2.43	0.99	2.81	1.03	3.85	1.36	4.21	1.40	4.72	1.36
27.0	1.62	0.91	2.05	0.96	2.38	1.00	2.77	1.04	3.79	1.37	4.15	1.41	4.65	1.36

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	6.48	0.86	7.94	0.90	9.09	0.94	10.39	0.99	14.07	1.30	15.30	1.34	17.28	1.36
70.0	6.08	0.88	7.54	0.93	8.69	0.97	9.99	1.01	13.60	1.33	14.83	1.37	16.67	1.36
71.6	5.92	0.89	7.38	0.94	8.53	0.98	9.83	1.02	13.41	1.34	14.64	1.38	16.43	1.36
75.2	5.76	0.90	7.22	0.95	8.37	0.99	9.67	1.03	13.22	1.35	14.45	1.40	16.20	1.36
77.0	5.68	0.90	7.14	0.95	8.29	0.99	9.59	1.03	13.13	1.36	14.36	1.40	16.09	1.36
80.6	5.52	0.91	6.98	0.96	8.13	1.00	9.43	1.04	12.94	1.37	14.17	1.41	15.86	1.36

AFR	7.8
BF	0.17

Temp: Celsius / TC, SHC, PI: kW

IND	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB					20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.14	2.21	0.57	3.14	2.21	0.86	2.95	2.11	1.12	2.80	2.03	1.21	2.65	1.96	1.30	2.48	1.87	1.30
16.0	22.0	3.68	2.38	0.77	3.39	2.23	0.95	3.09	2.08	1.13	2.95	2.01	1.22	2.80	1.94	1.31	2.62	1.85	1.30
18.0	25.0	3.83	2.45	0.77	3.53	2.31	0.95	3.24	2.17	1.13	3.09	2.10	1.22	2.94	2.04	1.32	2.77	1.96	1.30
19.4	26.7	3.90	2.55	0.77	3.61	2.41	0.96	3.31	2.28	1.14	3.17	2.21	1.23	3.02	2.15	1.32	2.84	2.07	1.30
22.0	30.0	4.12	2.44	0.78	3.83	2.32	0.96	3.53	2.20	1.14	3.38	2.14	1.24	3.24	2.08	1.33	3.06	2.02	1.30
24.0	32.0	4.27	2.36	0.79	3.97	2.25	0.97	3.68	2.14	1.15	3.53	2.09	1.24	3.38	2.04	1.33	3.21	1.97	1.30

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR	OUTDOOR TEMPERATUR										IRE (°F	DB)						
EWB	EDB					68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI
57.2	68.0	10.70	7.54	0.57	10.70	7.54	0.86	10.06	7.20	1.12	9.56	6.94	1.21	9.05	6.68	1.30	8.45	6.37	1.30
60.8	71.6	12.57	8.12	0.77	11.56	7.60	0.95	10.56	7.09	1.13	10.05	6.85	1.22	9.55	6.60	1.31	8.95	6.32	1.30
64.4	77.0	13.07	8.36	0.77	12.06	7.87	0.95	11.05	7.40	1.13	10.55	7.17	1.22	10.05	6.95	1.32	9.44	6.68	1.30
67.0	80.0	13.31	8.70	0.77	12.31	8.23	0.96	11.30	7.77	1.14	10.80	7.55	1.23	10.30	7.33	1.32	9.69	7.07	1.30
71.6	86.0	14.06	8.32	0.78	13.06	7.91	0.96	12.05	7.50	1.14	11.55	7.31	1.24	11.04	7.11	1.33	10.44	6.88	1.30
75.2	89.6	14.56	8.05	0.79	13.55	7.67	0.97	12.55	7.30	1.15	12.04	7.12	1.24	11.54	6.95	1.33	10.94	6.74	1.30

Heating (60 Hz, 230 V)

AFR 10.8

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15			10	_	5	()	6	3	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.90	0.86	2.28	0.90	2.66	0.94	3.05	0.99	4.12	1.30	4.48	1.34	5.20	1.43
21.1	1.78	0.88	2.16	0.92	2.55	0.97	2.93	1.01	3.99	1.33	4.35	1.37	5.07	1.46
22.0	1.73	0.89	2.12	0.93	2.50	0.98	2.88	1.02	3.93	1.34	4.29	1.38	5.01	1.47
24.0	1.69	0.90	2.07	0.94	2.45	0.99	2.84	1.03	3.88	1.35	4.24	1.40	4.96	1.48
25.0	1.66	0.90	2.05	0.95	2.43	0.99	2.81	1.03	3.85	1.36	4.21	1.40	4.93	1.49
27.0	1.62	0.91	2.00	0.96	2.38	1.00	2.77	1.04	3.79	1.37	4.15	1.41	4.87	1.50

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	6.48	0.86	7.78	0.90	9.09	0.94	10.39	0.99	14.07	1.30	15.30	1.34	17.76	1.43
70.0	6.08	0.88	7.38	0.92	8.69	0.97	9.99	1.01	13.60	1.33	14.83	1.37	17.29	1.46
71.6	5.92	0.89	7.22	0.93	8.53	0.98	9.83	1.02	13.41	1.34	14.64	1.38	17.10	1.47
75.2	5.76	0.90	7.06	0.94	8.37	0.99	9.67	1.03	13.22	1.35	14.45	1.40	16.91	1.48
77.0	5.68	0.90	6.98	0.95	8.29	0.99	9.59	1.03	13.13	1.36	14.36	1.40	16.82	1.49
80.6	5.52	0.91	6.82	0.96	8.13	1.00	9.43	1.04	12.94	1.37	14.17	1.41	16.63	1.50

Symbols:

Notes:

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AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FDMQ15WVJU9 + RX15WMVJU9

Cooling (60 Hz, 208 V)

AFR	9.9
BF	0.20

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATL	JRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.87	2.73	0.67	3.87	2.73	0.93	3.87	2.73	1.28	3.73	2.65	1.42	3.54	2.55	1.53	3.30	2.43	1.30
16.0	22.0	4.76	3.05	0.86	4.52	2.92	1.11	4.13	2.72	1.32	3.93	2.62	1.43	3.73	2.52	1.54	3.50	2.41	1.30
18.0	25.0	5.11	3.21	0.90	4.71	3.02	1.12	4.32	2.83	1.33	4.12	2.74	1.44	3.93	2.65	1.54	3.69	2.54	1.30
19.4	26.7	5.20	3.33	0.91	4.81	3.14	1.12	4.42	2.96	1.33	4.22	2.87	1.44	4.02	2.78	1.55	3.79	2.68	1.30
22.0	30.0	5.49	3.18	0.92	5.10	3.02	1.13	4.71	2.85	1.34	4.51	2.78	1.45	4.32	2.70	1.56	4.08	2.61	1.30
24.0	32.0	5.69	3.08	0.92	5.30	2.92	1.14	4.90	2.78	1.35	4.71	2.70	1.46	4.51	2.63	1.56	4.27	2.55	1.30

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOR	TEMP	ERATU	JRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	13.22	9.31	0.67	13.22	9.31	0.93	13.22	9.31	1.28	12.74	9.06	1.42	12.07	8.70	1.53	11.27	8.29	1.30
60.8	71.6	16.24	10.40	0.86	15.42	9.97	1.11	14.08	9.28	1.32	13.40	8.94	1.43	12.73	8.61	1.54	11.93	8.22	1.30
64.4	77.0	17.42	10.97	0.90	16.08	10.30	1.12	14.74	9.65	1.33	14.07	9.34	1.44	13.40	9.03	1.54	12.59	8.66	1.30
67.0	80.0	17.75	11.37	0.91	16.41	10.72	1.12	15.07	10.10	1.33	14.40	9.80	1.44	13.73	9.50	1.55	12.92	9.15	1.30
71.6	86.0	18.75	10.87	0.92	17.41	10.29	1.13	16.07	9.74	1.34	15.40	9.47	1.45	14.72	9.20	1.56	13.92	8.89	1.30
75.2	89.6	19.41	10.50	0.92	18.07	9.98	1.14	16.73	9.47	1.35	16.06	9.22	1.46	15.39	8.98	1.56	14.58	8.69	1.30

Heating (60 Hz, 208 V)

AFR 12.5

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-1	15	-1	0	-	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.51	1.13	3.08	1.20	3.53	1.25	4.03	1.31	5.46	1.72	5.93	1.78	5.78	1.51
21.1	2.36	1.16	2.92	1.23	3.37	1.28	3.88	1.34	5.28	1.76	5.75	1.82	5.55	1.51
22.0	2.30	1.18	2.86	1.24	3.31	1.29	3.81	1.35	5.20	1.77	5.68	1.83	5.47	1.51
24.0	2.23	1.19	2.80	1.25	3.25	1.30	3.75	1.36	5.13	1.79	5.61	1.85	5.38	1.51
25.0	2.20	1.20	2.77	1.26	3.22	1.31	3.72	1.37	5.09	1.80	5.57	1.86	5.34	1.51
27.0	2.14	1.21	2.71	1.27	3.15	1.32	3.66	1.38	5.02	1.81	5.50	1.87	5.25	1.51

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	8.57	1.13	10.51	1.20	12.03	1.25	13.75	1.31	18.62	1.72	20.25	1.78	19.72	1.51
70.0	8.04	1.16	9.98	1.23	11.50	1.28	13.23	1.34	18.00	1.76	19.63	1.82	18.95	1.51
71.6	7.83	1.18	9.77	1.24	11.29	1.29	13.02	1.35	17.75	1.77	19.38	1.83	18.65	1.51
75.2	7.62	1.19	9.56	1.25	11.08	1.30	12.80	1.36	17.50	1.79	19.13	1.85	18.36	1.51
77.0	7.52	1.20	9.45	1.26	10.97	1.31	12.70	1.37	17.38	1.80	19.00	1.86	18.21	1.51
80.6	7.30	1.21	9.24	1.27	10.76	1.32	12.49	1.38	17.13	1.81	18.76	1.87	17.93	1.51

AFR	9.9
BF	0.20

Temp: Celsius / TC, SHC, PI: kW

IND	INDOOR								TDOOR	TEMP	ERATU	IRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI
14.0	20.0	3.87	2.73	0.67	3.87	2.73	0.93	3.87	2.73	1.28	3.73	2.65	1.42	3.54	2.55	1.53	3.30	2.43	1.44
16.0	22.0	4.76	3.05	0.86	4.52	2.92	1.11	4.13	2.72	1.32	3.93	2.62	1.43	3.73	2.52	1.54	3.50	2.41	1.44
18.0	25.0	5.11	3.21	0.90	4.71	3.02	1.12	4.32	2.83	1.33	4.12	2.74	1.44	3.93	2.65	1.54	3.69	2.54	1.44
19.4	26.7	5.20	3.33	0.91	4.81	3.14	1.12	4.42	2.96	1.33	4.22	2.87	1.44	4.02	2.78	1.55	3.79	2.68	1.44
22.0	30.0	5.49	3.18	0.92	5.10	3.02	1.13	4.71	2.85	1.34	4.51	2.78	1.45	4.32	2.70	1.56	4.08	2.61	1.44
24.0	32.0	5.69	3.08	0.92	5.30	2.92	1.14	4.90	2.78	1.35	4.71	2.70	1.46	4.51	2.63	1.56	4.27	2.55	1.44

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	INDOOR							OU.	TDOOF	R TEMP	PERATU	IRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	13.22	9.31	0.67	13.22	9.31	0.93	13.22	9.31	1.28	12.74	9.06	1.42	12.07	8.70	1.53	11.27	8.29	1.44
60.8	71.6	16.24	10.40	0.86	15.42	9.97	1.11	14.08	9.28	1.32	13.40	8.94	1.43	12.73	8.61	1.54	11.93	8.22	1.44
64.4	77.0	17.42	10.97	0.90	16.08	10.30	1.12	14.74	9.65	1.33	14.07	9.34	1.44	13.40	9.03	1.54	12.59	8.66	1.44
67.0	80.0	17.75	11.37	0.91	16.41	10.72	1.12	15.07	10.10	1.33	14.40	9.80	1.44	13.73	9.50	1.55	12.92	9.15	1.44
71.6	86.0	18.75	10.87	0.92	17.41	10.29	1.13	16.07	9.74	1.34	15.40	9.47	1.45	14.72	9.20	1.56	13.92	8.89	1.44
75.2	89.6	19.41	10.50	0.92	18.07	9.98	1.14	16.73	9.47	1.35	16.06	9.22	1.46	15.39	8.98	1.56	14.58	8.69	1.44

Heating (60 Hz, 230 V)

AFR 12.5

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		´	10		5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.51	1.13	3.02	1.19	3.53	1.25	4.03	1.31	5.46	1.72	5.93	1.78	6.26	1.67
21.1	2.36	1.16	2.86	1.22	3.37	1.28	3.88	1.34	5.28	1.76	5.75	1.82	6.01	1.67
22.0	2.30	1.18	2.80	1.23	3.31	1.29	3.81	1.35	5.20	1.77	5.68	1.83	5.91	1.67
24.0	2.23	1.19	2.74	1.25	3.25	1.30	3.75	1.36	5.13	1.79	5.61	1.85	5.82	1.67
25.0	2.20	1.20	2.71	1.25	3.22	1.31	3.72	1.37	5.09	1.80	5.57	1.86	5.77	1.67
27.0	2.14	1.21	2.65	1.27	3.15	1.32	3.66	1.38	5.02	1.81	5.50	1.87	5.68	1.67

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	8.57	1.13	10.30	1.19	12.03	1.25	13.75	1.31	18.62	1.72	20.25	1.78	21.35	1.67
70.0	8.04	1.16	9.77	1.22	11.50	1.28	13.23	1.34	18.00	1.76	19.63	1.82	20.50	1.67
71.6	7.83	1.18	9.56	1.23	11.29	1.29	13.02	1.35	17.75	1.77	19.38	1.83	20.17	1.67
75.2	7.62	1.19	9.35	1.25	11.08	1.30	12.80	1.36	17.50	1.79	19.13	1.85	19.85	1.67
77.0	7.52	1.20	9.24	1.25	10.97	1.31	12.70	1.37	17.38	1.80	19.00	1.86	19.69	1.67
80.6	7.30	1.21	9.03	1.27	10.76	1.32	12.49	1.38	17.13	1.81	18.76	1.87	19.38	1.67

Symbols:

Notes:

AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FDMQ18WVJU9 + RX18WMVJU9

Cooling (60 Hz, 208 V)

AFR	12.3
BF	0.21

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATL	JRE (°C	DB)						
EWB	EDB		10 20					30			35			40			46		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	4.72	3.32	0.84	4.72	3.32	1.17	4.72	3.32	1.65	4.56	3.24	1.85	4.32	3.11	1.99	4.04	2.97	1.43
16.0	22.0	5.79	3.71	1.10	5.52	3.57	1.44	5.04	3.32	1.72	4.80	3.20	1.86	4.56	3.08	2.00	4.27	2.94	1.43
18.0	25.0	6.24	3.92	1.18	5.76	3.68	1.45	5.28	3.45	1.73	5.04	3.34	1.87	4.80	3.23	2.01	4.51	3.10	1.43
19.4	26.7	6.36	4.07	1.18	5.88	3.84	1.46	5.40	3.61	1.73	5.16	3.50	1.87	4.92	3.40	2.01	4.63	3.27	1.43
22.0	30.0	6.72	3.89	1.19	6.24	3.68	1.47	5.75	3.48	1.75	5.51	3.39	1.88	5.27	3.29	2.02	4.99	3.18	1.43
24.0	32.0	6.95	3.76	1.20	6.47	3.57	1.48	5.99	3.39	1.75	5.75	3.30	1.89	5.51	3.21	2.03	5.22	3.11	1.43

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOR	TEMP	ERATU	JRE (°F	DB)						
EWB	EDB		50 68					86			95			104			115		
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI
57.2	68.0	16.09	11.33	0.84	16.09	11.33	1.17	16.09	11.33	1.65	15.57	11.06	1.85	14.75	10.63	1.99	13.77	10.12	1.43
60.8	71.6	19.76	12.66	1.10	18.84	12.17	1.44	17.20	11.33	1.72	16.38	10.92	1.86	15.56	10.51	2.00	14.58	10.03	1.43
64.4	77.0	21.29	13.39	1.18	19.65	12.57	1.45	18.01	11.78	1.73	17.19	11.40	1.87	16.38	11.02	2.01	15.39	10.57	1.43
67.0	80.0	21.70	13.88	1.18	20.06	13.09	1.46	18.42	12.33	1.73	17.60	11.96	1.87	16.78	11.59	2.01	15.80	11.16	1.43
71.6	86.0	22.91	13.27	1.19	21.27	12.57	1.47	19.64	11.89	1.75	18.82	11.56	1.88	18.00	11.23	2.02	17.01	10.85	1.43
75.2	89.6	23.72	12.82	1.20	22.09	12.18	1.48	20.45	11.56	1.75	19.63	11.26	1.89	18.81	10.96	2.03	17.82	10.61	1.43

Heating (60 Hz, 208 V)

AFR 17.7

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-1	-15 -10		0	-	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.01	1.36	3.70	1.44	4.23	1.50	4.84	1.57	6.55	2.06	7.12	2.13	7.73	2.03
21.1	2.83	1.40	3.51	1.47	4.04	1.54	4.65	1.60	6.33	2.11	6.90	2.18	7.45	2.03
22.0	2.75	1.41	3.44	1.49	3.97	1.55	4.58	1.62	6.24	2.13	6.82	2.20	7.35	2.03
24.0	2.68	1.43	3.36	1.50	3.90	1.57	4.50	1.64	6.16	2.15	6.73	2.22	7.25	2.03
25.0	2.64	1.43	3.32	1.51	3.86	1.57	4.47	1.64	6.11	2.16	6.68	2.23	7.19	2.03
27.0	2.57	1.45	3.25	1.53	3.78	1.59	4.39	1.66	6.02	2.18	6.60	2.25	7.09	2.03

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	Ę	5		4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	ΡI	TC	PI	TC	PI	TC	PI
59.0	10.29	1.36	12.61	1.44	14.43	1.50	16.51	1.57	22.35	2.06	24.30	2.13	26.37	2.03
70.0	9.65	1.40	11.97	1.47	13.80	1.54	15.87	1.60	21.60	2.11	23.55	2.18	25.43	2.03
71.6	9.40	1.41	11.72	1.49	13.55	1.55	15.62	1.62	21.30	2.13	23.25	2.20	25.07	2.03
75.2	9.15	1.43	11.47	1.50	13.29	1.57	15.37	1.64	21.00	2.15	22.95	2.22	24.72	2.03
77.0	9.02	1.43	11.34	1.51	13.17	1.57	15.24	1.64	20.85	2.16	22.81	2.23	24.55	2.03
80.6	8.77	1.45	11.09	1.53	12.91	1.59	14.98	1.66	20.56	2.18	22.51	2.25	24.21	2.03

AFR	12.3
BF	0.21

Temp: Celsius / TC, SHC, PI: kW

IND	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB		10 20				30			35			40			46			
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI									
14.0	20.0	4.72	3.32	0.84	4.72	3.32	1.17	4.72	3.32	1.65	4.56	3.24	1.85	4.32	3.11	1.99	4.04	2.97	1.58
16.0	22.0	5.79	3.71	1.10	5.52	3.57	1.44	5.04	3.32	1.72	4.80	3.20	1.86	4.56	3.08	2.00	4.27	2.94	1.58
18.0	25.0	6.24	3.92	1.18	5.76	3.68	1.45	5.28	3.45	1.73	5.04	3.34	1.87	4.80	3.23	2.01	4.51	3.10	1.58
19.4	26.7	6.36	4.07	1.18	5.88	3.84	1.46	5.40	3.61	1.73	5.16	3.50	1.87	4.92	3.40	2.01	4.63	3.27	1.58
22.0	30.0	6.72	3.89	1.19	6.24	3.68	1.47	5.75	3.48	1.75	5.51	3.39	1.88	5.27	3.29	2.02	4.99	3.18	1.58
24.0	32.0	6.95	3.76	1.20	6.47	3.57	1.48	5.99	3.39	1.75	5.75	3.30	1.89	5.51	3.21	2.03	5.22	3.11	1.58

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU	TDOOF	TEMP	PERATL	JRE (°F	DB)						
EWB	EDB		50 68					86			95			104			115		
°F	°F	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	16.09	11.33	0.84	16.09	11.33	1.17	16.09	11.33	1.65	15.57	11.06	1.85	14.75	10.63	1.99	13.77	10.12	1.58
60.8	71.6	19.76	12.66	1.10	18.84	12.17	1.44	17.20	11.33	1.72	16.38	10.92	1.86	15.56	10.51	2.00	14.58	10.03	1.58
64.4	77.0	21.29	13.39	1.18	19.65	12.57	1.45	18.01	11.78	1.73	17.19	11.40	1.87	16.38	11.02	2.01	15.39	10.57	1.58
67.0	80.0	21.70	13.88	1.18	20.06	13.09	1.46	18.42	12.33	1.73	17.60	11.96	1.87	16.78	11.59	2.01	15.80	11.16	1.58
71.6	86.0	22.91	13.27	1.19	21.27	12.57	1.47	19.64	11.89	1.75	18.82	11.56	1.88	18.00	11.23	2.02	17.01	10.85	1.58
75.2	89.6	23.72	12.82	1.20	22.09	12.18	1.48	20.45	11.56	1.75	19.63	11.26	1.89	18.81	10.96	2.03	17.82	10.61	1.58

Heating (60 Hz, 230 V)

AFR	17.7

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		´	10		5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.01	1.36	3.62	1.43	4.23	1.50	4.84	1.57	6.55	2.06	7.12	2.13	8.20	2.24
21.1	2.83	1.40	3.44	1.47	4.04	1.54	4.65	1.60	6.33	2.11	6.90	2.18	7.90	2.24
22.0	2.75	1.41	3.36	1.48	3.97	1.55	4.58	1.62	6.24	2.13	6.82	2.20	7.78	2.24
24.0	2.68	1.43	3.29	1.50	3.90	1.57	4.50	1.64	6.16	2.15	6.73	2.22	7.67	2.24
25.0	2.64	1.43	3.25	1.50	3.86	1.57	4.47	1.64	6.11	2.16	6.68	2.23	7.61	2.24
27.0	2.57	1.45	3.18	1.52	3.78	1.59	4.39	1.66	6.02	2.18	6.60	2.25	7.50	2.24

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	10.29	1.36	12.36	1.43	14.43	1.50	16.51	1.57	22.35	2.06	24.30	2.13	27.98	2.24
70.0	9.65	1.40	11.73	1.47	13.80	1.54	15.87	1.60	21.60	2.11	23.55	2.18	26.95	2.24
71.6	9.40	1.41	11.47	1.48	13.55	1.55	15.62	1.62	21.30	2.13	23.25	2.20	26.55	2.24
75.2	9.15	1.43	11.22	1.50	13.29	1.57	15.37	1.64	21.00	2.15	22.95	2.22	26.16	2.24
77.0	9.02	1.43	11.09	1.50	13.17	1.57	15.24	1.64	20.85	2.16	22.81	2.23	25.97	2.24
80.6	8.77	1.45	10.84	1.52	12.91	1.59	14.98	1.66	20.56	2.18	22.51	2.25	25.60	2.24

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FDMQ24WVJU9 + RX24WMVJU9

Cooling (60 Hz, 208 V)

AFR	15.1
BF	0.24

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATU	JRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	5.59	3.94	1.00	5.59	3.94	1.36	5.59	3.94	1.83	5.59	3.94	2.12	5.36	3.81	2.32	5.00	3.63	1.83
16.0	22.0	6.87	4.40	1.23	6.84	4.39	1.68	6.25	4.07	2.00	5.95	3.92	2.17	5.65	3.77	2.33	5.29	3.60	1.83
18.0	25.0	7.73	4.82	1.37	7.13	4.52	1.69	6.54	4.23	2.01	6.24	4.09	2.18	5.94	3.95	2.34	5.59	3.78	1.83
19.4	26.7	7.88	4.99	1.37	7.28	4.70	1.70	6.69	4.42	2.02	6.39	4.28	2.18	6.09	4.14	2.34	5.73	3.99	1.83
22.0	30.0	8.32	4.77	1.39	7.72	4.51	1.71	7.13	4.26	2.03	6.83	4.13	2.19	6.53	4.01	2.36	6.18	3.87	1.83
24.0	32.0	8.61	4.60	1.40	8.02	4.37	1.72	7.42	4.14	2.04	7.13	4.02	2.20	6.83	3.91	2.37	6.47	3.79	1.83

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOF	TEMP	ERATU	JRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI
57.2	68.0	19.09	13.44	1.00	19.09	13.44	1.36	19.09	13.44	1.83	19.09	13.44	2.12	18.27	13.01	2.32	17.06	12.37	1.83
60.8	71.6	23.44	15.02	1.23	23.34	14.96	1.68	21.31	13.90	2.00	20.29	13.38	2.17	19.28	12.87	2.33	18.06	12.27	1.83
64.4	77.0	26.37	16.46	1.37	24.34	15.42	1.69	22.31	14.43	2.01	21.30	13.94	2.18	20.28	13.46	2.34	19.06	12.90	1.83
67.0	80.0	26.88	17.03	1.37	24.85	16.03	1.70	22.82	15.07	2.02	21.80	14.60	2.18	20.78	14.14	2.34	19.57	13.60	1.83
71.6	86.0	28.38	16.27	1.39	26.35	15.38	1.71	24.32	14.52	2.03	23.31	14.11	2.19	22.29	13.70	2.36	21.07	13.22	1.83
75.2	89.6	29.39	15.71	1.40	27.36	14.90	1.72	25.33	14.11	2.04	24.31	13.73	2.20	23.30	13.36	2.37	22.08	12.92	1.83

Heating (60 Hz, 208 V)

AFR 21.0

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		-1	0	-	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.35	1.51	4.11	1.60	4.70	1.66	5.38	1.74	7.28	2.29	7.91	2.37	8.24	2.14
21.1	3.14	1.55	3.90	1.64	4.49	1.71	5.17	1.78	7.03	2.34	7.67	2.42	7.94	2.14
22.0	3.06	1.57	3.82	1.65	4.41	1.72	5.09	1.80	6.94	2.37	7.57	2.44	7.83	2.14
24.0	2.98	1.59	3.73	1.67	4.33	1.74	5.00	1.82	6.84	2.39	7.48	2.46	7.72	2.14
25.0	2.94	1.59	3.69	1.68	4.29	1.75	4.96	1.83	6.79	2.40	7.43	2.47	7.66	2.14
27.0	2.85	1.61	3.61	1.70	4.20	1.76	4.88	1.84	6.69	2.42	7.33	2.50	7.55	2.14

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	11.43	1.51	14.01	1.60	16.04	1.66	18.34	1.74	24.83	2.29	27.00	2.37	28.12	2.14
70.0	10.73	1.55	13.31	1.64	15.33	1.71	17.64	1.78	24.00	2.34	26.17	2.42	27.11	2.14
71.6	10.44	1.57	13.02	1.65	15.05	1.72	17.35	1.80	23.67	2.37	25.84	2.44	26.71	2.14
75.2	10.16	1.59	12.74	1.67	14.77	1.74	17.07	1.82	23.34	2.39	25.51	2.46	26.33	2.14
77.0	10.02	1.59	12.60	1.68	14.63	1.75	16.93	1.83	23.17	2.40	25.34	2.47	26.14	2.14
80.6	9.74	1.61	12.32	1.70	14.35	1.76	16.65	1.84	22.84	2.42	25.01	2.50	25.76	2.14

AFR	15.1
BF	0.24

Temp: Celsius / TC, SHC, PI: kW

IND	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB	10				20			30			35			40			46	
°C	°C	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI
14.0	20.0	5.59	3.94	1.00	5.59	3.94	1.36	5.59	3.94	1.83	5.59	3.94	2.12	5.36	3.81	2.32	5.00	3.63	2.03
16.0	22.0	6.87	4.40	1.23	6.84	4.39	1.68	6.25	4.07	2.00	5.95	3.92	2.17	5.65	3.77	2.33	5.29	3.60	2.03
18.0	25.0	7.73	4.82	1.37	7.13	4.52	1.69	6.54	4.23	2.01	6.24	4.09	2.18	5.94	3.95	2.34	5.59	3.78	2.03
19.4	26.7	7.88	4.99	1.37	7.28	4.70	1.70	6.69	4.42	2.02	6.39	4.28	2.18	6.09	4.14	2.34	5.73	3.99	2.03
22.0	30.0	8.32	4.77	1.39	7.72	4.51	1.71	7.13	4.26	2.03	6.83	4.13	2.19	6.53	4.01	2.36	6.18	3.87	2.03
24.0	32.0	8.61	4.60	1.40	8.02	4.37	1.72	7.42	4.14	2.04	7.13	4.02	2.20	6.83	3.91	2.37	6.47	3.79	2.03

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU	TDOOR	R TEMP	PERATL	JRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI
57.2	68.0	19.09	13.44	1.00	19.09	13.44	1.36	19.09	13.44	1.83	19.09	13.44	2.12	18.27	13.01	2.32	17.06	12.37	2.03
60.8	71.6	23.44	15.02	1.23	23.34	14.96	1.68	21.31	13.90	2.00	20.29	13.38	2.17	19.28	12.87	2.33	18.06	12.27	2.03
64.4	77.0	26.37	16.46	1.37	24.34	15.42	1.69	22.31	14.43	2.01	21.30	13.94	2.18	20.28	13.46	2.34	19.06	12.90	2.03
67.0	80.0	26.88	17.03	1.37	24.85	16.03	1.70	22.82	15.07	2.02	21.80	14.60	2.18	20.78	14.14	2.34	19.57	13.60	2.03
71.6	86.0	28.38	16.27	1.39	26.35	15.38	1.71	24.32	14.52	2.03	23.31	14.11	2.19	22.29	13.70	2.36	21.07	13.22	2.03
75.2	89.6	29.39	15.71	1.40	27.36	14.90	1.72	25.33	14.11	2.04	24.31	13.73	2.20	23.30	13.36	2.37	22.08	12.92	2.03

Heating (60 Hz, 230 V)

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AFR 21.0
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Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		´	10		5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.35	1.51	4.02	1.59	4.70	1.66	5.38	1.74	7.28	2.29	7.91	2.37	8.82	2.37
21.1	3.14	1.55	3.82	1.63	4.49	1.71	5.17	1.78	7.03	2.34	7.67	2.42	8.49	2.37
22.0	3.06	1.57	3.74	1.65	4.41	1.72	5.09	1.80	6.94	2.37	7.57	2.44	8.36	2.37
24.0	2.98	1.59	3.65	1.66	4.33	1.74	5.00	1.82	6.84	2.39	7.48	2.46	8.23	2.37
25.0	2.94	1.59	3.61	1.67	4.29	1.75	4.96	1.83	6.79	2.40	7.43	2.47	8.17	2.37
27.0	2.85	1.61	3.53	1.69	4.20	1.76	4.88	1.84	6.69	2.42	7.33	2.50	8.05	2.37

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	11.43	1.51	13.73	1.59	16.04	1.66	18.34	1.74	24.83	2.29	27.00	2.37	30.09	2.37
70.0	10.73	1.55	13.03	1.63	15.33	1.71	17.64	1.78	24.00	2.34	26.17	2.42	28.96	2.37
71.6	10.44	1.57	12.75	1.65	15.05	1.72	17.35	1.80	23.67	2.37	25.84	2.44	28.52	2.37
75.2	10.16	1.59	12.47	1.66	14.77	1.74	17.07	1.82	23.34	2.39	25.51	2.46	28.10	2.37
77.0	10.02	1.59	12.32	1.67	14.63	1.75	16.93	1.83	23.17	2.40	25.34	2.47	27.89	2.37
80.6	9.74	1.61	12.04	1.69	14.35	1.76	16.65	1.84	22.84	2.42	25.01	2.50	27.47	2.37

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
PI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FFQ09W2VJU9 + RX09WMVJU9

Cooling (60 Hz, 208 V)

AFR	10.7
BF	0.18

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATU	IRE (°C	DB)						
EWB	EDB					20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	2.98	2.35	0.47	2.74	2.23	0.58	2.49	2.12	0.69	2.36	2.06	0.75	2.24	2.00	0.81	2.09	1.94	0.87
16.0	22.0	3.11	2.31	0.47	2.86	2.20	0.58	2.61	2.09	0.70	2.49	2.03	0.75	2.36	1.98	0.81	2.21	1.92	0.88
18.0	25.0	3.23	2.43	0.48	2.98	2.33	0.59	2.73	2.23	0.70	2.61	2.18	0.76	2.48	2.13	0.81	2.33	2.07	0.88
19.4	26.7	3.29	2.59	0.48	3.04	2.49	0.59	2.79	2.39	0.70	2.67	2.34	0.76	2.55	2.29	0.81	2.40	2.24	0.88
22.0	30.0	3.48	2.50	0.48	3.23	2.41	0.59	2.98	2.32	0.71	2.85	2.28	0.76	2.73	2.24	0.82	2.58	2.19	0.89
24.0	32.0	3.60	2.43	0.54	3.35	2.35	0.60	3.10	2.28	0.71	2.98	2.24	0.77	2.85	2.20	0.82	2.70	2.15	0.89

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR	DR OUTDOOR TEMPERATURE (°FDB)																	
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	10.18	8.03	0.47	9.33	7.62	0.58	8.48	7.23	0.69	8.06	7.03	0.75	7.64	6.84	0.81	7.13	6.61	0.87
60.8	71.6	10.60	7.88	0.47	9.75	7.50	0.58	8.90	7.13	0.70	8.48	6.94	0.75	8.06	6.76	0.81	7.55	6.55	0.88
64.4	77.0	11.02	8.31	0.48	10.17	7.95	0.59	9.32	7.61	0.70	8.90	7.44	0.76	8.48	7.27	0.81	7.97	7.07	0.88
67.0	80.0	11.23	8.82	0.48	10.38	8.48	0.59	9.53	8.15	0.70	9.10	7.99	0.76	8.69	7.82	0.81	8.18	7.63	0.88
71.6	86.0	11.86	8.51	0.48	11.01	8.22	0.59	10.16	7.92	0.71	9.74	7.78	0.76	9.32	7.63	0.82	8.81	7.47	0.89
75.2	89.6	12.28	8.30	0.54	11.43	8.03	0.60	10.58	7.76	0.71	10.16	7.63	0.77	9.74	7.50	0.82	9.23	7.35	0.89

Heating (60 Hz, 208 V)

AFR 11.3

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15		-1	0	-	5	()	(6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.40	0.45	1.68	0.47	1.96	0.50	2.25	0.52	3.04	0.68	3.31	0.71	3.84	0.75
21.1	1.31	0.46	1.60	0.49	1.88	0.51	2.16	0.53	2.94	0.70	3.21	0.72	3.74	0.77
22.0	1.28	0.47	1.56	0.49	1.84	0.51	2.13	0.54	2.90	0.71	3.16	0.73	3.70	0.78
24.0	1.24	0.47	1.53	0.50	1.81	0.52	2.09	0.54	2.86	0.71	3.12	0.74	3.66	0.78
25.0	1.23	0.48	1.51	0.50	1.79	0.52	2.07	0.54	2.84	0.72	3.10	0.74	3.64	0.78
27.0	1.19	0.48	1.48	0.50	1.76	0.53	2.04	0.55	2.80	0.72	3.06	0.75	3.59	0.79

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	4.78	0.45	5.74	0.47	6.70	0.50	7.67	0.52	10.38	0.68	11.28	0.71	13.10	0.75
70.0	4.48	0.46	5.45	0.49	6.41	0.51	7.37	0.53	10.00	0.70	10.94	0.72	12.75	0.77
71.6	4.37	0.47	5.33	0.49	6.29	0.51	7.25	0.54	9.89	0.71	10.80	0.73	12.61	0.78
75.2	4.25	0.47	5.21	0.50	6.17	0.52	7.14	0.54	9.75	0.71	10.66	0.74	12.47	0.78
77.0	4.19	0.48	5.15	0.50	6.11	0.52	7.08	0.54	9.69	0.72	10.59	0.74	12.40	0.78
80.6	4.07	0.48	5.03	0.50	6.00	0.53	6.96	0.55	9.55	0.72	10.45	0.75	12.27	0.79

AFR	10.7
BF	0.18

Temp: Celsius / TC, SHC, PI: kW

IND	OOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB					20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI
14.0	20.0	2.98	2.35	0.47	2.74	2.23	0.58	2.49	2.12	0.69	2.36	2.06	0.75	2.24	2.00	0.81	2.09	1.94	0.87
16.0	22.0	3.11	2.31	0.47	2.86	2.20	0.58	2.61	2.09	0.70	2.49	2.03	0.75	2.36	1.98	0.81	2.21	1.92	0.88
18.0	25.0	3.23	2.43	0.48	2.98	2.33	0.59	2.73	2.23	0.70	2.61	2.18	0.76	2.48	2.13	0.81	2.33	2.07	0.88
19.4	26.7	3.29	2.59	0.48	3.04	2.49	0.59	2.79	2.39	0.70	2.67	2.34	0.76	2.55	2.29	0.81	2.40	2.24	0.88
22.0	30.0	3.48	2.50	0.48	3.23	2.41	0.59	2.98	2.32	0.71	2.85	2.28	0.76	2.73	2.24	0.82	2.58	2.19	0.89
24.0	32.0	3.60	2.43	0.54	3.35	2.35	0.60	3.10	2.28	0.71	2.98	2.24	0.77	2.85	2.20	0.82	2.70	2.15	0.89

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATU	JRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	10.18	8.03	0.47	9.33	7.62	0.58	8.48	7.23	0.69	8.06	7.03	0.75	7.64	6.84	0.81	7.13	6.61	0.87
60.8	71.6	10.60	7.88	0.47	9.75	7.50	0.58	8.90	7.13	0.70	8.48	6.94	0.75	8.06	6.76	0.81	7.55	6.55	0.88
64.4	77.0	11.02	8.31	0.48	10.17	7.95	0.59	9.32	7.61	0.70	8.90	7.44	0.76	8.48	7.27	0.81	7.97	7.07	0.88
67.0	80.0	11.23	8.82	0.48	10.38	8.48	0.59	9.53	8.15	0.70	9.10	7.99	0.76	8.69	7.82	0.81	8.18	7.63	0.88
71.6	86.0	11.86	8.51	0.48	11.01	8.22	0.59	10.16	7.92	0.71	9.74	7.78	0.76	9.32	7.63	0.82	8.81	7.47	0.89
75.2	89.6	12.28	8.30	0.54	11.43	8.03	0.60	10.58	7.76	0.71	10.16	7.63	0.77	9.74	7.50	0.82	9.23	7.35	0.89

Heating (60 Hz, 230 V)

AFR 11.3

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB	-15			10	_	5	()	6	3	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.40	0.45	1.68	0.47	1.96	0.50	2.25	0.52	3.04	0.68	3.31	0.71	3.84	0.75
21.1	1.31	0.46	1.60	0.49	1.88	0.51	2.16	0.53	2.94	0.70	3.21	0.72	3.74	0.77
22.0	1.28	0.47	1.56	0.49	1.84	0.51	2.13	0.54	2.90	0.71	3.16	0.73	3.70	0.78
24.0	1.24	0.47	1.53	0.50	1.81	0.52	2.09	0.54	2.86	0.71	3.12	0.74	3.66	0.78
25.0	1.23	0.48	1.51	0.50	1.79	0.52	2.07	0.54	2.84	0.72	3.10	0.74	3.64	0.78
27.0	1.19	0.48	1.48	0.50	1.76	0.53	2.04	0.55	2.80	0.72	3.06	0.75	3.59	0.79

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)												
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	4.78	0.45	5.74	0.47	6.70	0.50	7.67	0.52	10.38	0.68	11.28	0.71	13.10	0.75
70.0	4.48	0.46	5.45	0.49	6.41	0.51	7.37	0.53	10.00	0.70	10.94	0.72	12.75	0.77
71.6	4.37	0.47	5.33	0.49	6.29	0.51	7.25	0.54	9.89	0.71	10.80	0.73	12.61	0.78
75.2	4.25	0.47	5.21	0.50	6.17	0.52	7.14	0.54	9.75	0.71	10.66	0.74	12.47	0.78
77.0	4.19	0.48	5.15	0.50	6.11	0.52	7.08	0.54	9.69	0.72	10.59	0.74	12.40	0.78
80.6	4.07	0.48	5.03	0.50	6.00	0.53	6.96	0.55	9.55	0.72	10.45	0.75	12.27	0.79

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FFQ12W2VJU9 + RX12WMVJU9

Cooling (60 Hz, 208 V)

AFR	11.5
BF	0.28

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOF	TEMP	ERATU	JRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.55	2.59	0.58	3.26	2.44	0.72	2.96	2.29	0.86	2.81	2.22	0.93	2.67	2.15	1.00	2.49	2.06	1.08
16.0	22.0	3.70	2.54	0.59	3.40	2.40	0.73	3.11	2.26	0.86	2.96	2.19	0.93	2.81	2.12	1.00	2.63	2.05	1.09
18.0	25.0	3.85	2.64	0.59	3.55	2.51	0.73	3.25	2.39	0.87	3.11	2.32	0.94	2.96	2.26	1.01	2.78	2.19	1.09
19.4	26.7	3.92	2.78	0.59	3.62	2.65	0.73	3.33	2.53	0.87	3.18	2.47	0.94	3.03	2.41	1.01	2.85	2.34	1.09
22.0	30.0	4.14	2.67	0.60	3.84	2.56	0.74	3.55	2.45	0.88	3.40	2.40	0.95	3.25	2.34	1.02	3.07	2.28	1.10
24.0	32.0	4.29	2.60	0.60	3.99	2.49	0.74	3.69	2.39	0.88	3.55	2.35	0.95	3.40	2.30	1.02	3.22	2.24	1.10

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOF	R TEMP	PERATU	RE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	12.13	8.83	0.58	11.12	8.32	0.72	10.11	7.82	0.86	9.60	7.57	0.93	9.10	7.33	1.00	8.49	7.04	1.08
60.8	71.6	12.63	8.66	0.59	11.62	8.17	0.73	10.61	7.71	0.86	10.10	7.48	0.93	9.60	7.25	1.00	8.99	6.98	1.09
64.4	77.0	13.13	9.02	0.59	12.12	8.57	0.73	11.11	8.14	0.87	10.60	7.92	0.94	10.10	7.71	1.01	9.49	7.46	1.09
67.0	80.0	13.38	9.48	0.59	12.37	9.05	0.73	11.36	8.63	0.87	10.80	8.43	0.94	10.34	8.22	1.01	9.74	7.98	1.09
71.6	86.0	14.13	9.11	0.60	13.12	8.73	0.74	12.11	8.36	0.88	11.60	8.18	0.95	11.09	8.00	1.02	10.49	7.79	1.10
75.2	89.6	14.63	8.85	0.60	13.62	8.51	0.74	12.61	8.17	0.88	12.10	8.00	0.95	11.59	7.84	1.02	10.99	7.64	1.10

Heating (60 Hz, 208 V)

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AFR 12.1
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Temp: Celsius / TC, PI: kW

INDOOR	OUTDOOR TEMPERATURE (°CWB)														
EDB	-1	15	-1	0	-	5	()	6	6	1	0	1	8	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
15.0	1.89	0.70	2.27	0.73	2.65	0.77	3.03	0.80	4.10	1.06	4.45	1.09	5.17	1.16	
21.1	1.77	0.71	2.15	0.75	2.53	0.79	2.91	0.82	3.96	1.08	4.32	1.12	5.03	1.19	
22.0	1.72	0.72	2.10	0.76	2.48	0.79	2.86	0.83	3.91	1.09	4.26	1.13	4.98	1.20	
24.0	1.68	0.73	2.06	0.77	2.44	0.80	2.82	0.84	3.85	1.10	4.21	1.14	4.92	1.21	
25.0	1.65	0.73	2.03	0.77	2.41	0.81	2.79	0.84	3.82	1.10	4.18	1.14	4.90	1.21	
27.0	1.61	0.74	1.99	0.78	2.37	0.81	2.75	0.85	3.77	1.11	4.13	1.15	4.84	1.22	

INDOOR	OUTDOOR TEMPERATURE (°FWB)														
EDB	ļ	5	1	4	2	3	3	2	4	3	5	0	6	4	
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
59.0	6.43	0.70	7.73	0.73	9.03	0.77	10.33	0.80	13.98	1.06	15.20	1.09	17.64	1.16	
70.0	6.04	0.71	7.33	0.75	8.63	0.79	9.93	0.82	13.50	1.08	14.73	1.12	17.17	1.19	
71.6	5.88	0.72	7.18	0.76	8.47	0.79	9.77	0.83	13.32	1.09	14.55	1.13	16.99	1.20	
75.2	5.72	0.73	7.02	0.77	8.31	0.80	9.61	0.84	13.14	1.10	14.36	1.14	16.80	1.21	
77.0	5.64	0.73	6.94	0.77	8.24	0.81	9.53	0.84	13.05	1.10	14.27	1.14	16.71	1.21	
80.6	5.48	0.74	6.78	0.78	8.08	0.81	9.37	0.85	12.86	1.11	14.08	1.15	16.52	1.22	

AFR	11.5
BF	0.28

Temp: Celsius / TC, SHC, PI: kW

IND	OOR							OU.	TDOOR	TEMP	ERATU	IRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.55	2.59	0.58	3.26	2.44	0.72	2.96	2.29	0.86	2.81	2.22	0.93	2.67	2.15	1.00	2.49	2.06	1.08
16.0	22.0	3.70	2.54	0.59	3.40	2.40	0.73	3.11	2.26	0.86	2.96	2.19	0.93	2.81	2.12	1.00	2.63	2.05	1.09
18.0	25.0	3.85	2.64	0.59	3.55	2.51	0.73	3.25	2.39	0.87	3.11	2.32	0.94	2.96	2.26	1.01	2.78	2.19	1.09
19.4	26.7	3.92	2.78	0.59	3.62	2.65	0.73	3.33	2.53	0.87	3.18	2.47	0.94	3.03	2.41	1.01	2.85	2.34	1.09
22.0	30.0	4.14	2.67	0.60	3.84	2.56	0.74	3.55	2.45	0.88	3.40	2.40	0.95	3.25	2.34	1.02	3.07	2.28	1.10
24.0	32.0	4.29	2.60	0.60	3.99	2.49	0.74	3.69	2.39	0.88	3.55	2.35	0.95	3.40	2.30	1.02	3.22	2.24	1.10

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOF	R TEMP	PERATU	RE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	12.13	8.83	0.58	11.12	8.32	0.72	10.11	7.82	0.86	9.60	7.57	0.93	9.10	7.33	1.00	8.49	7.04	1.08
60.8	71.6	11.62	8.66	0.59	11.62	8.17	0.73	10.61	7.71	0.86	10.10	7.48	0.93	9.60	7.25	1.00	8.99	6.98	1.09
64.4	77.0	12.12	9.02	0.59	12.12	8.57	0.73	11.11	8.14	0.87	10.60	7.92	0.94	10.10	7.71	1.01	9.49	7.46	1.09
67.0	80.0	12.37	9.48	0.59	12.37	9.05	0.73	11.36	8.63	0.87	10.80	8.43	0.94	10.34	8.22	1.01	9.74	7.98	1.09
71.6	86.0	13.12	9.11	0.60	13.12	8.73	0.74	12.11	8.36	0.88	11.60	8.18	0.95	11.09	8.00	1.02	10.49	7.79	1.10
75.2	89.6	13.62	8.85	0.60	13.62	8.51	0.74	12.61	8.17	0.88	12.10	8.00	0.95	11.59	7.84	1.02	10.99	7.64	1.10

Heating (60 Hz, 230 V)

AFR	12.1

Temp: Celsius / TC, PI: kW

INDOOR					Ol	JTDOOF	R TEMP	ERATU	RE (°CW	/B)				
EDB		15	´	10	_	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.89	0.70	2.27	0.73	2.65	0.77	3.03	0.80	4.10	1.06	4.45	1.09	5.17	1.16
21.1	1.77	0.71	2.15	0.75	2.53	0.79	2.91	0.82	3.96	1.08	4.32	1.12	5.03	1.19
22.0	1.72	0.72	2.10	0.76	2.48	0.79	2.86	0.83	3.91	1.09	4.26	1.13	4.98	1.20
24.0	1.68	0.73	2.06	0.77	2.44	0.80	2.82	0.84	3.85	1.10	4.21	1.14	4.92	1.21
25.0	1.65	0.73	2.03	0.77	2.41	0.81	2.79	0.84	3.82	1.10	4.18	1.14	4.90	1.21
27.0	1.61	0.74	1.99	0.78	2.37	0.81	2.75	0.85	3.77	1.11	4.13	1.15	4.84	1.22

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR	OUTDOOR TEMPERATURE (°FWB)														
EDB	Į	5	1	4	2	3	3	2	4	3	5	0	6	4	
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
59.0	6.43	0.70	7.73	0.73	9.03	0.77	10.33	0.80	13.98	1.06	15.20	1.09	17.64	1.16	
70.0	6.04	0.71	7.33	0.75	8.63	0.79	9.93	0.82	13.50	1.08	14.73	1.12	17.17	1.19	
71.6	5.88	0.72	7.18	0.76	8.47	0.79	9.77	0.83	13.32	1.09	14.55	1.13	16.99	1.20	
75.2	5.72	0.73	7.02	0.77	8.31	0.80	9.61	0.84	13.14	1.10	14.36	1.14	16.80	1.21	
77.0	5.64	0.73	6.94	0.77	8.24	0.81	9.53	0.84	13.05	1.10	14.27	1.14	16.71	1.21	
80.6	5.48	0.74	6.78	0.78	8.08	0.81	9.37	0.85	12.86	1.11	14.08	1.15	16.52	1.22	

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
PI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FFQ15W2VJU9 + RX15WMVJU9

AFR	11.9
BF	0.32

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATU	IRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.94	2.77	0.73	3.94	2.77	0.94	3.91	2.76	1.15	3.72	2.66	1.24	3.52	2.55	1.33	3.29	2.43	1.44
16.0	22.0	4.84	3.10	0.78	4.50	2.92	0.97	4.11	2.72	1.15	3.91	2.62	1.24	3.71	2.53	1.34	3.48	2.41	1.45
18.0	25.0	5.08	3.21	0.79	4.69	3.02	0.97	4.30	2.83	1.16	4.10	2.74	1.25	3.91	2.65	1.34	3.67	2.55	1.45
19.4	26.7	5.18	3.33	0.79	4.79	3.15	0.97	4.40	2.97	1.16	4.20	2.88	1.25	4.00	2.79	1.34	3.77	2.69	1.46
22.0	30.0	5.47	3.19	0.80	5.08	3.02	0.98	4.69	2.86	1.17	4.49	2.78	1.26	4.29	2.71	1.35	4.06	2.62	1.46
24.0	32.0	5.66	3.08	0.80	5.27	2.93	0.99	4.88	2.78	1.17	4.68	2.71	1.27	4.49	2.64	1.36	4.25	2.56	1.47

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOR	TEMP	ERATU	RE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	13.44	9.47	0.73	13.44	9.47	0.94	13.35	9.42	1.15	12.68	9.06	1.24	12.01	8.72	1.33	11.21	8.31	1.44
60.8	71.6	16.51	10.58	0.78	15.34	9.96	0.97	14.01	9.28	1.15	13.34	8.95	1.24	12.67	8.62	1.34	11.87	8.23	1.45
64.4	77.0	17.34	10.96	0.79	16.00	10.30	0.97	14.67	9.66	1.16	14.00	9.35	1.25	13.33	9.05	1.34	12.53	8.69	1.45
67.0	80.0	17.67	11.37	0.79	16.33	10.74	0.97	15.00	10.12	1.16	14.40	9.82	1.25	13.66	9.53	1.34	12.86	9.18	1.46
71.6	86.0	18.66	10.87	0.80	17.32	10.31	0.98	15.99	9.76	1.17	15.32	9.50	1.26	14.65	9.23	1.35	13.85	8.93	1.46
75.2	89.6	19.32	10.51	0.80	17.98	10.00	0.99	16.65	9.50	1.17	15.98	9.25	1.27	15.31	9.01	1.36	14.51	8.73	1.47

Heating (60 Hz, 208 V)

AFR 12.5

Temp: Celsius / TC, PI: kW

INDOOR					Ol	JTDOOF	R TEMP	ERATU	RE (°CW	/B)				
EDB	-1	15	-1	0	-	5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.26	0.87	2.71	0.91	3.17	0.95	3.62	1.00	4.90	1.32	5.33	1.36	6.19	1.45
21.1	2.12	0.89	2.57	0.93	3.03	0.98	3.48	1.02	4.74	1.35	5.17	1.39	6.02	1.48
22.0	2.06	0.90	2.52	0.94	2.97	0.99	3.43	1.03	4.67	1.36	5.10	1.40	5.96	1.49
24.0	2.01	0.91	2.46	0.95	2.92	1.00	3.37	1.04	4.61	1.37	5.04	1.41	5.88	1.50
25.0	1.98	0.91	2.43	0.96	2.89	1.00	3.34	1.05	4.58	1.38	5.00	1.42	5.84	1.50
27.0	1.92	0.92	2.38	0.97	2.83	1.01	3.29	1.06	4.51	1.39	4.94	1.43	5.75	1.50

INDOOR					Ol	JTDOO	R TEMP	ERATU	RE (°FW	/B)				
EDB	į	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	7.70	0.87	9.25	0.91	10.81	0.95	12.36	1.00	16.73	1.32	18.19	1.36	21.11	1.45
70.0	7.23	0.89	8.78	0.93	10.33	0.98	11.88	1.02	16.20	1.35	17.63	1.39	20.56	1.48
71.6	7.04	0.90	8.59	0.94	10.14	0.99	11.69	1.03	15.95	1.36	17.41	1.40	20.33	1.49
75.2	6.85	0.91	8.40	0.95	9.95	1.00	11.50	1.04	15.73	1.37	17.19	1.41	20.08	1.50
77.0	6.75	0.91	8.31	0.96	9.86	1.00	11.41	1.05	15.61	1.38	17.08	1.42	19.92	1.50
80.6	6.56	0.92	8.12	0.97	9.67	1.01	11.22	1.06	15.39	1.39	16.85	1.43	19.61	1.50

AFR	11.9
BF	0.32

Temp: Celsius / TC, SHC, PI: kW

IND	OOR							OU.	TDOOR	TEMP	ERATU	IRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	ΡI
14.0	20.0	3.94	2.77	0.73	3.94	2.77	0.94	3.91	2.76	1.15	3.72	2.66	1.24	3.52	2.55	1.33	3.25	2.41	1.42
16.0	22.0	4.84	3.10	0.78	4.50	2.92	0.97	4.11	2.72	1.15	3.91	2.62	1.24	3.71	2.53	1.34	3.43	2.39	1.42
18.0	25.0	5.08	3.21	0.79	4.69	3.02	0.97	4.30	2.83	1.16	4.10	2.74	1.25	3.91	2.65	1.34	3.61	2.52	1.42
19.4	26.7	5.18	3.33	0.79	4.79	3.15	0.97	4.40	2.97	1.16	4.20	2.88	1.25	4.00	2.79	1.34	3.71	2.66	1.42
22.0	30.0	5.47	3.19	0.80	5.08	3.02	0.98	4.69	2.86	1.17	4.49	2.78	1.26	4.29	2.71	1.35	3.98	2.59	1.42
24.0	32.0	5.66	3.08	0.80	5.27	2.93	0.99	4.88	2.78	1.17	4.68	2.71	1.27	4.49	2.64	1.36	4.17	2.53	1.42

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOR	TEMP	PERATU	IRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	13.44	9.47	0.73	13.44	9.47	0.94	13.35	9.42	1.15	12.68	9.06	1.24	12.01	8.72	1.33	11.08	8.24	1.42
60.8	71.6	15.34	10.58	0.78	15.34	9.96	0.97	14.01	9.28	1.15	13.34	8.95	1.24	12.67	8.62	1.34	11.71	8.16	1.42
64.4	77.0	16.00	10.96	0.79	16.00	10.30	0.97	14.67	9.66	1.16	14.00	9.35	1.25	13.33	9.05	1.34	12.33	8.60	1.42
67.0	80.0	16.33	11.37	0.79	16.33	10.74	0.97	15.00	10.12	1.16	14.40	9.82	1.25	13.66	9.53	1.34	12.65	9.09	1.42
71.6	86.0	17.32	10.87	0.80	17.32	10.31	0.98	15.99	9.76	1.17	15.32	9.50	1.26	14.65	9.23	1.35	13.59	8.82	1.42
75.2	89.6	17.98	10.51	0.80	17.98	10.00	0.99	16.65	9.50	1.17	15.98	9.25	1.27	15.31	9.01	1.36	14.21	8.62	1.42

Heating (60 Hz, 230 V)

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AFR 12.5
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Temp: Celsius / TC, PI: kW

INDOOR					Ol	JTDOOF	R TEMP	ERATU	RE (°CW	/B)				
EDB	´	15	´	10		5	()	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.26	0.87	2.71	0.91	3.17	0.95	3.62	1.00	4.90	1.32	5.33	1.36	6.19	1.45
21.1	2.12	0.89	2.57	0.93	3.03	0.98	3.48	1.02	4.74	1.35	5.17	1.39	6.02	1.48
22.0	2.06	0.90	2.52	0.94	2.97	0.99	3.43	1.03	4.67	1.36	5.10	1.40	5.96	1.49
24.0	2.01	0.91	2.46	0.95	2.92	1.00	3.37	1.04	4.61	1.37	5.04	1.41	5.89	1.50
25.0	1.98	0.91	2.43	0.96	2.89	1.00	3.34	1.05	4.58	1.38	5.00	1.42	5.86	1.51
27.0	1.92	0.92	2.38	0.97	2.83	1.01	3.29	1.06	4.51	1.39	4.94	1.43	5.80	1.52

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR					Ol	JTDOO	R TEMP	ERATU	RE (°FW	'B)				
EDB	į	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	7.70	0.87	9.25	0.91	10.81	0.95	12.36	1.00	16.73	1.32	18.19	1.36	21.11	1.45
70.0	7.23	0.89	8.78	0.93	10.33	0.98	11.88	1.02	16.20	1.35	17.63	1.39	20.56	1.48
71.6	7.04	0.90	8.59	0.94	10.14	0.99	11.69	1.03	15.95	1.36	17.41	1.40	20.33	1.49
75.2	6.85	0.91	8.40	0.95	9.95	1.00	11.50	1.04	15.73	1.37	17.19	1.41	20.11	1.50
77.0	6.75	0.91	8.31	0.96	9.86	1.00	11.41	1.05	15.61	1.38	17.08	1.42	20.00	1.51
80.6	6.56	0.92	8.12	0.97	9.67	1.01	11.22	1.06	15.39	1.39	16.85	1.43	19.77	1.52

Symbols:

Notes:

AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

FFQ18W2VJU9 + RX18WMVJU9

Cooling (60 Hz, 208 V)

AFR	12.7
BF	0.08

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOF	R TEMP	ERATU	IRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	5.69	4.01	0.93	5.29	3.79	1.16	4.81	3.55	1.38	4.57	3.43	1.50	4.33	3.31	1.61	2.75	2.57	1.37
16.0	22.0	6.00	3.97	0.94	5.52	3.73	1.17	5.04	3.49	1.39	4.80	3.38	1.50	4.56	3.27	1.61	2.97	2.56	1.37
18.0	25.0	6.24	4.11	0.95	5.76	3.88	1.17	5.28	3.67	1.40	5.04	3.56	1.51	4.80	3.45	1.62	3.18	2.79	1.37
19.4	26.7	6.36	4.29	0.95	5.88	4.07	1.18	5.40	3.87	1.40	5.16	3.76	1.51	4.92	3.66	1.62	3.29	3.02	1.37
22.0	30.0	6.72	4.11	0.96	6.24	3.92	1.19	5.76	3.74	1.41	5.52	3.65	1.52	5.28	3.56	1.63	3.61	2.97	1.37
24.0	32.0	6.96	3.99	0.97	6.48	3.81	1.19	5.99	3.64	1.42	5.75	3.56	1.53	5.51	3.48	1.64	3.83	2.94	1.37

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU.	TDOOR	TEMP	ERATU	JRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI
57.2	68.0	19.41	13.67	0.93	18.04	12.94	1.16	16.40	12.10	1.38	15.58	11.69	1.50	14.76	11.28	1.61	9.40	8.76	1.37
60.8	71.6	20.49	13.53	0.94	18.85	12.71	1.17	17.21	11.92	1.39	16.39	11.53	1.50	15.57	11.15	1.61	10.13	8.75	1.37
64.4	77.0	21.30	14.01	0.95	19.66	13.25	1.17	18.02	12.51	1.40	17.20	12.14	1.51	16.38	11.79	1.62	10.86	9.51	1.37
67.0	80.0	21.70	14.64	0.95	20.07	13.90	1.18	18.43	13.19	1.40	17.40	12.84	1.51	16.79	12.50	1.62	11.23	10.29	1.37
71.6	86.0	22.92	14.03	0.96	21.28	13.38	1.19	19.64	12.75	1.41	18.82	12.44	1.52	18.00	12.14	1.63	12.33	10.14	1.37
75.2	89.6	23.73	13.60	0.97	22.09	13.01	1.19	20.45	12.43	1.42	19.63	12.15	1.53	18.81	11.87	1.64	13.06	10.02	1.37

Heating (60 Hz, 208 V)

AFR 14.1

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)														
EDB	-1	15	-1	<u>-10</u> <u>-5</u> <u>0</u> <u>6</u> <u>10</u> <u>18</u>												
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
15.0	3.00	1.35	3.60	1.42	4.21	1.49	4.81	1.56	6.52	2.05	7.08	2.12	7.50	1.96		
21.1	2.82	1.39	3.42	1.46	4.02	1.53	4.63	1.60	6.30	2.10	6.78	2.12	7.23	1.96		
22.0	2.74	1.40	3.35	1.47	3.95	1.54	4.56	1.61	6.21	2.12	6.66	2.12	7.12	1.96		
24.0	2.67	1.42	3.27	1.49	3.88	1.56	4.48	1.63	6.10	2.12	6.55	2.12	7.02	1.96		
25.0	2.63	1.43	3.24	1.50	3.84	1.57	4.44	1.63	6.04	2.12	6.49	2.12	6.97	1.96		
27.0	2.56	1.44	3.16	1.51	3.77	1.58	4.37	1.65	5.93	2.12	6.38	2.12	6.87	1.96		

INDOOR		OUTDOOR TEMPERATURE (°FWB)													
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4	
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
59.0	10.24	1.35	12.30	1.42	14.36	1.49	16.43	1.56	22.24	2.05	24.16	2.12	25.59	1.96	
70.0	9.61	1.39	11.67	1.46	13.73	1.53	15.80	1.60	21.60	2.10	23.13	2.12	24.66	1.96	
71.6	9.35	1.40	11.42	1.47	13.48	1.54	15.54	1.61	21.20	2.12	22.73	2.12	24.30	1.96	
75.2	9.10	1.42	11.16	1.49	13.23	1.56	15.29	1.63	20.81	2.12	22.34	2.12	23.95	1.96	
77.0	8.98	1.43	11.04	1.50	13.10	1.57	15.16	1.63	20.61	2.12	22.14	2.12	23.77	1.96	
80.6	8.72	1.44	10.79	1.51	12.85	1.58	14.91	1.65	20.23	2.12	21.76	2.12	23.43	1.96	

AFR	12.7
BF	0.08

Temp: Celsius / TC, SHC, PI: kW

IND	DOR							OU.	TDOOR	TEMP	ERATU	IRE (°C	DB)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI
14.0	20.0	5.69	4.01	0.93	5.29	3.79	1.16	4.81	3.55	1.38	4.57	3.43	1.50	4.33	3.31	1.61	3.25	2.79	1.51
16.0	22.0	6.00	3.97	0.94	5.52	3.73	1.17	5.04	3.49	1.39	4.80	3.38	1.50	4.56	3.27	1.61	3.47	2.78	1.51
18.0	25.0	6.24	4.11	0.95	5.76	3.88	1.17	5.28	3.67	1.40	5.04	3.56	1.51	4.80	3.45	1.62	3.68	2.99	1.51
19.4	26.7	6.36	4.29	0.95	5.88	4.07	1.18	5.40	3.87	1.40	5.16	3.76	1.51	4.92	3.66	1.62	3.79	3.21	1.51
22.0	30.0	6.72	4.11	0.96	6.24	3.92	1.19	5.76	3.74	1.41	5.52	3.65	1.52	5.28	3.56	1.63	4.11	3.14	1.51
24.0	32.0	6.96	3.99	0.97	6.48	3.81	1.19	5.99	3.64	1.42	5.75	3.56	1.53	5.51	3.48	1.64	4.33	3.09	1.51

Temp: Fahrenheit / TC, SHC: kBtu/h / PI: kW

IND	DOR							OU	TDOOF	TEMP	ERATU	JRE (°F	DB)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	19.41	13.67	0.93	18.04	12.94	1.16	16.40	12.10	1.38	15.58	11.69	1.50	14.76	11.28	1.61	11.09	9.53	1.51
60.8	71.6	18.85	13.53	0.94	18.85	12.71	1.17	17.21	11.92	1.39	16.39	11.53	1.50	15.57	11.15	1.61	11.83	9.47	1.51
64.4	77.0	19.66	14.01	0.95	19.66	13.25	1.17	18.02	12.51	1.40	17.20	12.14	1.51	16.38	11.79	1.62	12.56	10.19	1.51
67.0	80.0	20.07	14.64	0.95	20.07	13.90	1.18	18.43	13.19	1.40	17.40	12.84	1.51	16.79	12.50	1.62	12.93	10.94	1.51
71.6	86.0	21.28	14.03	0.96	21.28	13.38	1.19	19.64	12.75	1.41	18.82	12.44	1.52	18.00	12.14	1.63	14.02	10.72	1.51
75.2	89.6	22.09	13.60	0.97	22.09	13.01	1.19	20.45	12.43	1.42	19.63	12.15	1.53	18.81	11.87	1.64	14.76	10.55	1.51

Heating (60 Hz, 230 V)

AFR	14.1

Temp: Celsius / TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)													
EDB	— ´	15		10	_	5	()	6	6	1	0	1	8	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
15.0	3.00	1.35	3.60	1.42	4.21	1.49	4.81	1.56	6.52	2.05	7.09	2.12	8.01	2.17	
21.1	2.82	1.39	3.42	1.46	4.02	1.53	4.63	1.60	6.30	2.10	6.87	2.17	7.71	2.17	
22.0	2.74	1.40	3.35	1.47	3.95	1.54	4.56	1.61	6.21	2.12	6.78	2.19	7.59	2.17	
24.0	2.67	1.42	3.27	1.49	3.88	1.56	4.48	1.63	6.13	2.14	6.70	2.21	7.48	2.17	
25.0	2.63	1.43	3.24	1.50	3.84	1.57	4.44	1.63	6.08	2.15	6.65	2.22	7.42	2.17	
27.0	2.56	1.44	3.16	1.51	3.77	1.58	4.37	1.65	6.00	2.17	6.56	2.24	7.31	2.17	

Temp: Fahrenheit / TC: kBtu/h / PI: kW

INDOOR	OUTDOOR TEMPERATURE (°FWB)													
EDB	5		14		23		32		43		50		64	
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	10.24	1.35	12.30	1.42	14.36	1.49	16.43	1.56	22.24	2.05	24.18	2.12	27.34	2.17
70.0	9.61	1.39	11.67	1.46	13.73	1.53	15.80	1.60	21.60	2.10	23.44	2.17	26.31	2.17
71.6	9.35	1.40	11.42	1.47	13.48	1.54	15.54	1.61	21.20	2.12	23.14	2.19	25.91	2.17
75.2	9.10	1.42	11.16	1.49	13.23	1.56	15.29	1.63	20.90	2.14	22.84	2.21	25.52	2.17
77.0	8.98	1.43	11.04	1.50	13.10	1.57	15.16	1.63	20.75	2.15	22.70	2.22	25.33	2.17
80.6	8.72	1.44	10.79	1.51	12.85	1.58	14.91	1.65	20.46	2.17	22.40	2.24	24.95	2.17

Symbols:

Notes:

-		
AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

1.	shows nominal (rated) capacities and power input.
2.	TC, PI and SHC must be calculated by interpolation using the figures in the above
	tables. (Figures out of the tables should not be used for calculation.)
3.	Capacities are based on the following conditions.
	Corresponding refrigerant piping length : 25 ft (7.5 m)
	Level difference : 0 ft (0 m)

7.1 Capacity Correction Factor by the Length of Refrigerant Piping (Reference)

The cooling capacity and the heating capacity of the unit have to be corrected in accordance with the length of refrigerant piping — the distance between the indoor unit and the outdoor unit.

7.1.1 09/12 Class





7.1.2 15/18 Class

7.1.3 24 Class



Note: The graphs show the factor when additional refrigerant of the proper quantity is charged.

8. Operation Limit

RX09/12/15/18/24WMVJU9



Notes) I, The graphs are based on the following conditions. - Equivalent piping length 25ft - Level difference Oft

2, Facility Setting (cooling at low outdoor temperature : only for RX model) This function is limited only for facilities (the target of air conditioning is equipment such as computer). Never use it in a residence or office (The space where there is a human). Indoor fan tap should be fixed to high. - Cutting jumper 6 (JS) on the circuit board - Installing an air direction adjustment grille (wind baffle)(sold separately) : extend the operation range to -4° F(-20°C).

3D092209F

9. Fan Characteristics

9.1 External Static Pressure FDMQ09WVJU9



Notes

- Notes: 1. Fan characteristics at the time of rear suction and bottom suction are similar to each other. 2. Fan characteristics() shows a representative of fan

- representative of fan characteristics at the time of "Maximm ESP"."ESP at 0.4in,WG(100Pa)" "Factory setting ESP"and"Minimum ESP".
 3. A remote controller can be used to change airflow rate of "H","M" and "L".
 4. Set the ESP on suction side to 0.4in,WG(100Pa) or less.
 5. Fan characteristics(2) (for field setting of remote controller) shows fan characteristics of airflow "H" which can be changed in the field setting by a remote controller.
- setting by a remote controller. 6. Select ESP setting in accordance with resistance of the connected with resistance of the connected duct by using Fan characteristics() and(2) (Factory setting ESP is 0.2in.WG(50Pa). See installation manual for ESP setting procedure.)
 7. The ESP setting of this unit can be changed into 13 levels.
 8. The value of Fan characteristics(2) mentioned in this drawing shows the ESP of rated airflow.

FDMQ12WVJU9



Fan characteristics 2 (For field setting of remote controller) Range of available air flow rate in [H] in.WG(Pa) 0.8(200) 0.6(150) 0.60in.WG(150Pa) max ESP static pressure 0. 56 in. WG (140Pa) 0.52 in.WG (130Pa) 0.48 in.WG (120Pa) 0.4(100) 0.44 in.WG(110Pa) External 0.40 in.WG(100Pa) 0. 36 in. ¥G (90Pa) 0. 32 in. %G(80Pa) 0, 2 (50) 0.28in.WG(70Pa) 0.24in.WG(60Pa) 0 20 in WG(50Pa) Factory setting ESP 0. 16 in. WG (40Pa) 0.12 in.WG (30Pa) 0 400 (11.3) 300 (8, 5) 350 (9, 9) 450 (12.7) 370 (10.5) Air flow CFM (m/min) 314 (8.9) 425 (12, 0)

- Notes: 1. Fan characteristics at the time of
- Fan characteristics at the time of rear suction and bottom suction are similar to each other.
 Fan characteristics(D)shows a representative of fan characteristics at the time of "Maximum ESP". "ESP at 0.4in, WG(100Pa)" "Factory setting ESP"and"Winimum ESP".
 A remote controller can be used to charge airflow rate of "H". "M" and "L".
- Glaige alfriend et et i, m and ".".
 4. Set the ESP on suction side to 0.4in.WG(100Pa) or less.
 5. Fan characteristics (2) (for field setting of remote controller) shows fan characteristics of airflow "H" which can be characteria in the field.
- fan characteristics of airflow "H" which can be charged in the field setting by a remote controller.
 6. Select ESP setting in accordance with resistance of the connected duct by using Fan characteristics() and() (Factory setting ESP is 0.2in.WG(50Pa). See installation manual for ESP setting procedure.)
 7. The ESP setting of this unit can be changed into 13 levels.
 8. The value of Fan characteristics() mentioned in this drawing shows the
- mentioned in this drawing shows the ESP of rated airflow.

FDMQ15WVJU9



- Notes: 1. Fan characteristics at the time of
- Fan characteristics at the time of rear suction and bottom suction are similar to each other.
 Fan characteristics(D)shows a representative of fan characteristics at the time of "Maximum ESP", "ESP at 0.4in, WG(100Pa)" and "Factory setting ESP".
 A remote controller can be used to change airflow rate of "H", "M" and "L".

- Glauge affine factor in the matching of the matching of the set of t
- fan characteristics of airflow "H" which can be changed in the field setting by a remote controller.
 6. Select ESP setting in accordance with resistance of the connected duct by using Fan characteristics ① and ② (Factory setting ESP is 0.2in.WG(50Pa). See installation manual for ESP setting procedure.)
 7. The ESP setting of this unit can be changed into 10 levels.
 8. The value of Fan characteristics ② mentioned in this drawing shows the ESP of rated airflow.

FDMQ18WVJU9



Notes:

- 1. Fan characteristics at the time of

- Notes:
 1. Fan characteristics at the time of rear suction and bottom suction are similar to each other.
 2. Fan characteristics ① shows a representative of fan characteristics at the time of "Maximum ESP", "ESP at 0.4in, WG(100Pa)" and "Factory setting ESP".
 3. A remote controller can be used to charge airflow rate of "H". "M" and "L".
 4. Set the ESP on suction side to 0.4in, WG(100Pa) or less.
 5. Fan characteristics ② (for field setting of remote controller) shows fan characteristics of airflow "H" which can be changed in the field setting of remote controller.
 6. Select ESP setting in accordance with resistance of the connected duct by using Fan characteristics ① and ② (Factory setting of this unit can be changed into 10 levels.
 8. The value of Fan characteristics ② mentioned in this drawing shows the ESP of rated airflow.

FDMQ24WVJU9



Notes:

- Fan characteristics at the time of rear suction and bottom suction are
- rear suction and bottom suction are similar to each other. 2. Fan characteristics() shows a representative of fan characteristics at the time of "Maximum ESP", "ESP at 0.4in,WG(100Pa)" and "Factory setting ESP". 3. A remote controller can be used to change airflow rate of "H", "M" and ("

- change affiling face of n, m and "L".
 4. Set the ESP on suction side to 0.4in.WG(100Pa) or less.
 5. Fan characteristics © (for field setting of remote controller) shows fan characteristics of airflow "H"
- fan characteristics of airflow "H" which can be changed in the field setting by a remote controller.
 6. Select ESP setting in accordance with resistance of the connected duct by using Fan characteristics (D) and (2) (Factory setting ESP is 0.2in.WG(50Pa). See installation manual for ESP setting erroedure)

- See Installation markal for ESP setting procedure.)
 7. The ESP setting of this unit can be changed into 10 levels.
 8. The value of Fan characteristics mentioned in this drawing shows the ESP of rated airflow.

9.2 Airflow Auto Adjustment FDMQ09WVJU9





FDMQ12WVJU9



Air flow CFM (m³/min)

- Notes :
 1. This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 2. After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 3. About the field setting method of the "Air volume automatic adjustment", look at the installation manual which is attached to an indoor unit.
 4. ESP that can adjust by "Air volume automatic

- an indoor unit.
 4. ESP that can adjust by "Air volume automatic adjustment" function is 0.12in.WG (30Pa) 0.6in.WG(150Pa) (When air flow is "H").
 5. If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatically, and the unit will provide different form operate with the air flow rate different from the rated value.
- the rated value.
 This figure shows a fan characteristics at the time of "H" "M" and "L".
 The remote controller can be used to change "H" "M" and "L".

ESP : external static pressure.

3D141701

- Notes : 1. This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation. 2. After duct construction completion, please

- at the time of intro the factor factor factor.
 After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 About the field setting method of the "Air volume automatic adjustment". look at the installation manual which is attached to an indoor unit.
 ESP that can adjust by "Air volume automatic adjustment" function is 0.12in.WG (30Pa) 0.6in.WG(150Pa) (When air flow is "H").
 If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value. the rated value.
- This figure shows a fan characteristics at the time of "H" "M" and "L".
 The remote controller can be used to change "H" "M" and "L".

FDMQ15WVJU9





FDMQ18WVJU9



Air flow CFM (m³/min)

Notes

- Notes :

 This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 About the field setting method of the "Air volume automatic adjustment", look at the installation manual which is attached to

- "Air volume automatic adjustment". look at the installation manual which is attached to an indoor unit.
 ESP that can adjust by "Air volume automatic adjustment" function is 0.2 in.WG (SOPa) 0.6 in.WG(ISOPa) (When air flow is "H").
 If the unit is used beyond the range of the above-mentioned ESP. the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value
- operate with the air flow rate different from the rated value.
 6. This figure shows a fan characteristics at the time of "H" "M" and "L".
 7. The remote controller can be used to change "H" "M" and "L".

ESP : external static pressure.

3D141703

Notes

- Notes :

 This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 About the field setting method of the "Air volume automatic adjustment", look at the installation manual which is attached to an indoor unit.

- installation manual which is attached to an indoor unit.
 4. ESP that can adjust by "Air volume automatic adjustment" function is 0.2in.WG (50Pa) 0.6in.WG(150Pa) (When air flow is "H").
 5. If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value the rated value.

- The rated value. 6. This figure shows a fan characteristics at the time of "H" "M" and "L". 7. The remote controller can be used to change "H" "M" and "L".

FDMQ24WVJU9





- Notes :

 This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 About the field setting method of the "Air volume automatic adjustment" by remote controller.
 About the field setting with a stacked to an indoor unit.
 ESP that can adjust by "Air volume automatic adjustment" function is 0.2in.WG (50Pa) 0.6in.WG(150Pa) (When air flow is "H").
 If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value.
 This figure shows a fan characteristics at the time of "H" "M" and "L".

ESP : external static pressure.

3D141705

10. Sound Level 10.1 Measuring Location





Notes: 1. Operation sound is measured in an anechoic chamber.

2. The data are based on the conditions shown in the table below.

	Cooling	Heating	Piping Length	
Indoor	80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)	70.0°FDB (21.1°CDB) / 60.0°FWB (15.6°CWB)	05 ft (7 5 m)	
Outdoor	95.0°FDB (35.0°CDB) / 75.0°FWB (24.0°CWB)	47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)	25 It (7.5 III)	

10.2 Indoor Unit FTXR09WVJUW(S)9



3D105687B

FTXR12WVJUW(S)9





FTXR18WVJUW(S)9



3D105689B

FDMQ09WVJU9



FDMQ12WVJU9



FDMQ15WVJU9



FDMQ18WVJU9





4D113011A

4D113010B

FDMQ24WVJU9



4D113013A

68

FFQ09W2VJU9





3D106125B

FFQ12W2VJU9





FFQ15W2VJU9





3D106127B

FFQ18W2VJU9




10.3 Outdoor Unit RX09WMVJU9



3D106145C

RX12WMVJU9





RX15WMVJU9





3D106147B

RX18WMVJU9





3400

4000 8000

6800

RX24WMVJU9



3D113030A

11. Electric Characteristics

			Power Supply			Compressor	OFM			IFM		
Indoor Unit	Outdoor Unit	Hz - Volts	Voltage Range	MCA	MFA	RLA	Нр	W	FLA	Нр	W	FLA
FTXR09WVJUW9 FTXR09WVJUS9	RX09WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	7.6	15	7.5	0.03	20	0.17	0.04	29	0.13
FTXR12WVJUW9 FTXR12WVJUS9	RX12WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	7.7	15	7.5	0.03	20	0.17	0.04	29	0.19
FTXR18WVJUW9 FTXR18WVJUS9	RX18WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	11.0	15	10.8	0.12	93	0.58	0.04	29	0.21
FDMQ09WVJU9	RX09WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	8.0	15	7.5	0.03	20	0.17	0.17	130	0.49
FDMQ12WVJU9	RX12WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	8.1	15	7.5	0.03	20	0.17	0.17	130	0.63
FDMQ15WVJU9	RX15WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	8.6	15	8.0	0.10	75	0.47	0.31	230	0.64
FDMQ18WVJU9	RX18WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	11.6	15	10.8	0.12	93	0.58	0.31	230	0.84
FDMQ24WVJU9	RX24WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	13.1	20	12.0	0.12	93	0.58	0.31	230	1.10
FFQ09W2VJU9	RX09WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	7.8	15	7.5	0.03	20	0.17	0.07	50	0.28
FFQ12W2VJU9	RX12WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	7.8	15	7.5	0.03	20	0.17	0.07	50	0.28
FFQ15W2VJU9	RX15WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	8.3	15	8.0	0.10	75	0.47	0.07	50	0.28
FFQ18W2VJU9	RX18WMVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	11.0	15	10.8	0.12	93	0.58	0.07	50	0.28

Symbols:

Notes:

1. RLA is the max current that comes in cooling operation and heating operation.

2. Maximum allowable voltage variation between phases is 2%.

- 3. Select wire size based on the larger value of MCA.
- MCA : Min. circuit amps (A) MFA : Max. fuse amps (A) RLA : Rated load amps (A) OFM : Outdoor fan motor IFM : Indoor fan motor FLA : Full load amps (A) W/Hp : Fan motor rated output (W, Hp)

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12. Installation Manual

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1. Trial operation and testing 14
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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

Read the precautions in this manual carefully before operating the unit.

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.

Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.

Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
Indicates situations that may result in equipment or property damage accidents only.

/ DANGER

1

- Refrigerant gas is heavier than air and replaces oxygen.
 A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
 Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.

- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances.
 Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.

🕂 WARNING -

- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.

- When wiring, position the wires so that the electrical wiring box cover can be securely fastened. Improper positioning of the electrical wiring box cover may result in electric shock, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- · Be aware that refrigerants may not contain an odor.
- Comply with national gas regulations.

CAUTION -

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R410A in the system must be kept clean, dry, and tight.
- (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.

- (b) Tight -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The indoor unit is for R410A. See the catalog for outdoor models that can be connected. Normal operation is not possible when connected to non-compatible outdoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen.
 - Plastic parts may deteriorate and fall off or result in water leakage.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in
- refrigerant leakage. (c) Near machinery emitting electromagnetic waves.
- Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction. (d) Where flammable gas may leak, where there is carbon fiber.
- (d) Where flammable gas may leak, where there is carbon tiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

- The indoor unit should be positioned where the unit and interunit wires (outdoor to indoor) are at least 3.3ft (1m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 3.3ft (1m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R410A, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

FTN005-U



Choosing an Installation Site

Before choosing the installation site, obtain user approval.

1. Indoor unit

- The indoor unit should be positioned in a place where:
- 1) the restrictions on the installation requirements specified in "Indoor Unit Installation Diagram" on page 4 are met,
- 2) both the air inlet and air outlet are unobstructed,
- 3) the unit is not exposed to direct sunlight,
- 4) Install so that drainage occurs easily,
- 5) the unit is away from sources of heat or steam,
- 6) there is no source of machine oil vapor (this may shorten the indoor unit service life),
- 7) cool/warm air is circulated throughout the room,
- 8) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may affect the remote controller range,
- 9) no laundry equipment is nearby.

2. Wireless remote controller

Turn on all the fluorescent lamps in the room, if any, and find a location where the remote controller signals are properly received by the indoor unit (within 19-11/16ft (6m)).

Indoor Unit Installation Diagram A CAUTION -• Do not hit or violently push the INTELLIGENT EYE sensor. This can lead to damage and malfunction. • Do not place large objects near the INTELLIGENT EYE sensor. Also keep heating units or humidifiers outside the sensor's detection area. (A)Mounting plate How to attach the indoor unit (A) Mounting Hook the hooks of the bottom frame to the A mounting plate. If the hooks are difficult to hook, 21 T plate remove the front grille. ŋ How to remove the indoor unit Push up the lower part of the front grille to release the hooks. Front grille Bottom frame If it is difficult to release, remove the front grille. The (A) mounting plate should be installed on a wall which B Mounting plate fixing screws M4 × 1" (M4 × 25mm) Upper front panel can support the weight of the Screws M4 × 5/8" (M4 × 16mm) indoor unit. When dismounting the front grille, refer to "2. Removing and installing the front grille" (J) Screw covers on page 11. INTELLIGENT EYE sensor 1-3/16" (30mm) or more from ceiling 1-15/16" (50mm) or more from walls (on both sides) Do not connect commercially available (drain hose directly to the indoor unit. (Water leakage may result) Lower front panel / 19-11/16" (500mm) Cut thermal insulation pipe to an or more appropriate length and wrap it with tape, making sure that no gap is left in the Air filters insulation pipe's cut line. Make sure that there are no obstacles within 19-11/16 inch (500mm) under the signal receiver Such obstacles, if any, may have an adverse influence on the Wrap the insulation pipe with the finishing tape from bottom to top. reception performance of the receiver and the reception distance may be shortened. C Titanium apatite deodorizing filter (2) ervice lid DWireless remote controller The service lid is removable Filter frame Opening method 1) Remove the service lid screws. Titanium apatite 2) Pull out the service lid diagonally deodorizing filter down in the direction of the arrow. Before screwing the 3) Pull down. E remote controller holder to the wall, make sure that control signals are properly received Ťab Claw by indoor unit. Air filte E Remote controller holder Ē Remote controller holder fixing screws M3 × 13/16" (M3 × 20mm) 4

Indoor Unit Installation

1. Installing the mounting plate

The mounting plate should be installed on a wall which can support the weight of the indoor unit.

1)Temporarily secure the mounting plate to the wall, make sure that the plate is completely level, and mark the drilling points on the wall.

2)Secure the mounting plate to the wall with screws.

Recommended mounting plate retention spots and dimensions



* Depending on the model, the actual distance between the liquid pipe end and gas pipe end may differ from the distance between those symbols on the mounting plate (the distance listed in this manual). Always measure the actual distance between the liquid pipe end and gas pipe end before installing refrigerant pipes.

2. Drilling a wall hole and installing wall embedded pipe

MARNING -

For metal frame or metal board walls, be sure to use a wall embedded pipe and wall hole cover in the feed-through hole to prevent possible heat, electric shock, or fire.

- Be sure to caulk the gaps around the pipes with caulking material. (to prevent condensation caused by intrusion of air from outside or within the wall)
 - 1) Drill a feed-through hole with a $\phi 2\text{-}9/16$ inch (65mm) diameter through the wall at a downward angle toward the outside.
 - 2) Insert a wall embedded pipe into the hole.
 - 3) Insert a wall hole cover into wall pipe.
 - 4) After completing refrigerant piping, wiring, and drain piping, caulk the pipe hole gap with putty.



Even if a wall hole cover is not used, caulk both the outdoor and indoor sides with putty.

3. Installing the indoor unit

- The recommended installation method is back piping.
- When performing bottom piping or left side piping, refer to "3-2. Left-side, left-back, or left-bottom piping".
- Right side piping cannot be performed.
- In the case of bending or curing refrigerant pipes, keep the following precautions in mind. Abnormal sound may be generated if improper work is conducted.
 - Do not strongly press the refrigerant pipes onto the bottom frame.
 - Do not strongly press the refrigerant pipes on the front grille, either.

3-1. Right-back or right-bottom piping

- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
- 2) Wrap the refrigerant pipes and drain hose together with (K) insulation tape.
- Pass the drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the (A) mounting plate hooks, using the △ markings at the top of the indoor unit as a guide.

How to remove the pipe port cover

- Cut off the pipe port cover (on the bottom of the front grille) with a copping saw.
 Apply the blade of the copping saw to the notch,
- and cut off the pipe port cover along the uneven inner surface.
- After cutting off the pipe port cover, perform filing. Remove the burrs along the cut section using a half round needle file.





The figure shows the case of left-bottom piping.

NOTE

- · Be careful not to let chips enter the driving section of the arm.
- Be careful not to put pressure on the lower front panel.
- 3-2. Left-side, left-back, or left-bottom piping







4. Wiring

Refer to the installation manual for the outdoor unit also.

WARNING -

- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- . Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

ACAUTION -

Recommend stranded cable for interunit wiring. Local code always supersedes recommendation.

• For stranded wires, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place.

Round



(With a multi indoor unit), install as described in the installation manual supplied with the multi outdoor unit.

- 1) Remove the upper front panel, then remove the service lid. (Refer to the opening method on page 4.)
- 2) Lift up the unit and place it on the (A) mounting plate hooks.
- 3) Remove the front grille.

Strip wire ends

(3/4 inch

(20mm))

3/4 inch

(20mm)

- (Refer to the removal method on page 11.)
- 4) Remove the conduit mounting plate and then secure the conduit to the conduit mounting plate with the lock nut, as shown in the illustration.
- 5) Strip wire ends (3/4 inch (20mm)).
- 6) Match wire colors with terminal numbers on the indoor and outdoor unit's terminal blocks and firmly secure the wires in the corresponding terminals with the screws.
- 7) Connect the ground wire to the corresponding terminals. 8) Pull the wires lightly to make sure they are securely connected.

Terminal block

Wire retainer

Electrical wiring box

Shape wires so that the

service lid will fit securely. Use the specified wire type.



unit

Good

Wrong



Indoor Unit Installation

- 9) In case of connecting to an adapter system, run the remote controller cable and attach the S21. (Refer to "5. When connecting to an HA system" on page 13.)
- 10) Attach the conduit mounting plate.
- 11) Shape the wires so that the service lid fits securely.
- 12) Attach the front grille. (Refer to removal method on page 11.)
- 13) Attach the service lid and the upper front panel. (Refer to the opening method on page 4.)
- 14) Take care to ensure that all wiring between the indoor unit and the outdoor unit has a consistent connection. Any splices can cause communication errors.

5. Drain piping

- 1) Connect the drain hose, as described on the right.
 - Avoid placing the end of the drain hose in a drainage location that could cause bad odors or corrosive gas to flow backward into the outlet.
 - The drainage water may change color due to bacteria or other organisms. Place in a location where the flow of drainage water will not cause a problem.
- Minimize the number of bends in the drain hose as much as possible. If bending the drain hose, bend it gently.
- Remove the air filters and transfer some water to the indoor heat exchanger by pouring water into the drain pan.
- 3) Make sure that water flows out of the drain hose.
- 4) If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end. Figure of hose front end



- When drain hose requires extension, obtain an extension hose with an inner diameter of 5/8 inch (16mm).
 Be sure to thermally insulate the indoor section of the extension hose.
- When connecting a rigid polyvinyl chloride pipe (nominal diameter 1/2 inch (13mm)) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (nominal diameter 1/2 inch (13mm)) as a joint.



(13mm))

(13mm))

Refrigerant Piping Work

WARNING -

- Do not apply mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Never install a dryer to this R410A unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Incomplete flaring may result in refrigerant gas leakage.





	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness
Gas sida	O.D. 3/8 inch (9.5mm)	1-3/16 inch (30mm) or more		I.D. 15/32-19/32 inch (12-15mm)	
Gas side	O.D. 1/2 inch (12.7mm)	1-9/16 inch (40mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 9/16-5/8 inch (14-16mm)	13/32 inch (10mm) Min.
Liquid side	O.D. 1/4 inch (6.4mm)	1-3/16 inch (30mm) or more		I.D. 5/16-13/32 inch (8-10mm)	

• Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

• Using finishing tape, bundle and wrap the indoor unit piping and drain hose together so that the drain hose is below the other piping.







Trial operation should be carried out in either COOL or HEAT operation	ation						
1-1. Measure the supply voltage and make sure that it is within the specified range.							
1-2. In COOL operation, select the lowest progra in HEAT operation, select the highest progra	mmable temperature;						
 1-3. Carry out the trial operation following the in ensure that all functions and parts, such as working properly. To protect the air conditioner, restart operation is disabled for 1-4. After trial operation is complete, set the tem 	structions in the opera the movement of the I 3 minutes after the system has perature to a normal le	ation manual to ouvers, are been turned off. evel (78°F to 82°F					
(26°C to 28°C) in COOL operation, 68°F to 7	5°F (20°C to 24°C) in H	EAT operation).					
 When operating the air conditioner in COOL operation in winter, or mode using the following method. 	HEAT operation in summer, set	it to the trial operation					
1) Press $\begin{bmatrix} x \\ y \\ y \\ y \end{bmatrix}$, $\begin{bmatrix} x \\ y \\ y \\ y \end{bmatrix}$ and $\begin{bmatrix} \text{Mode} \end{bmatrix}$ at the same time.	ſ						
2) Press (Trees, select "7", and press (Mode) for confirmation.		* 8 /F					
3) Press (b) to turn on the system.							
 Trial operation will stop automatically after about 30 minute 	s.						
To stop the operation, press $(\textcircled{0})$.	To stop the operation, press $\textcircled{0}$.						
Some of the functions cannot be used in the trial operation mode.							
Some of the functions cannot be used in the trial operationThe air conditioner draws a small amount of power in its standby n	mode. node. If the system is not to be u	used for some time after					
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Trial Operation and Testing

Test items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly grounded.	Electrical leakage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling/heating function	
Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote controller commands.	No operation	
it will be displayed when the MODE button is pressed.	No heating	
Pipes and wires are connected to the corresponding terminal blocks/ connection ports for the connected unit.	No cooling/heating	

12.2 FDMQ

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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

Read the precautions in this manual carefully before operating the unit.

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates

properly during the startup operation. Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.

Meanings of DANGER, WARNING, CAUTION, and NOTE Symbols:

ANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
MARNING ·······	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
<u>∧</u> NOTE	Indicates situations that may result in equipment or property damage accidents only.

ANGER

i

- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
 Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.

- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.

MARNING -

- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.

- When wiring, position the wires so that the electrical wiring box cover can be securely fastened. Improper positioning of the electrical wiring box cover may result in electric shock, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Comply with national gas regulations.

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R410A in the system must be kept clean, dry, and tight.
- (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.

- (b) Tight -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The indoor unit is for R410A. See the catalog for outdoor models that can be connected. Normal operation is not possible when connected to non-compatible outdoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen.
 Plastic parts may deteriorate and fall off or result in water leakage.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced.
 - Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

- The indoor unit should be positioned where the unit and interunit wires (outdoor to indoor) are at least 3.3ft (1m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 3.3ft (1m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R410A, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

Before Installation

- Leave the unit inside its packaging until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit. When unpacking the unit or when moving the unit after unpacking, be sure to lift the unit by holding on to the hanger bracket without exerting any pressure on other parts, especially on refrigerant piping, drain piping and other resin parts.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Caution concerning refrigerant series R410A:

The connectable outdoor units must be designed exclusively for R410A.

Precautions

- Do not install or operate the unit in places mentioned below.
- Places with mineral oil, or filled with oil vapor or spray like in kitchens. (Plastic parts may deteriorate.)
- Where corrosive gas like sulphurous gas exists. (Copper tubing and brazed spots may corrode.)
- Where volatile flammable gas like thinner or gasoline is used.
- Where machines generating electromagnetic waves exist. (Control system may malfunction.)
- Where the air contains high levels of salt such as near the ocean and where voltage fluctuates a lot (e.g. in factories). Also inside vehicles or vessels.
- · Do not install accessories on the casing directly. Drilling holes in the casing may damage electrical wires and consequently cause fire.
- Take off static electricity from the body when carrying out wiring and the electrical wiring box cover is removed.
- The electric parts may be damaged.

Accessories

(A) Clamp metal	1	(B) Drain hose	1	C Duct flange connection screw	10*	 (D) Fitting insulation (for liquid pipe) Thin 	1
(E) Fitting insulation (for gas pipe)	1	(F) Sealing pad (large) (Dark gray)	1	G Sealing pad (medium) (Dark gray)	2	(H) Clamp	8
Washer fixing plate	4	K Wire sealing pad (small) (Gray)	2	(L) Washer (for hanger bracket)	8	Conduit mounting plate	1
N Operation manual P Installation manual 1 Image: Constant of the second secon		1	(Q) Warranty	1	(R) General safety considerations	1	

Optional Accessories

A remote controller is required for the indoor unit.

 There are 2 types of remote controllers: wired and wireless. Select a remote controller from the table according to user request and install in an appropriate place.

Remote controller type	Model name
Wired type	BRC1E73
Wireless type	BRC082A43

• If you wish to use a remote controller that is not listed in the table, select a suitable remote controller after consulting catalogs and technical materials.

The indoor unit can be switched to lower suction. (Refer to "6. In the case of changing the preset suction to underside suction, replace the chamber cover and the suction flange." (page 6))
 The side cover plate (KDBD63A160) is required in the case of wiring from the bottom for underside suction.

For installation work, refer to the instruction sheet provided with the side cover plate.

*The 15/18/24 class models have 18 screws

Choosing an Installation Site

Hold the unit by the 4 hanger brackets when opening the box and moving it, and do not exert pressure on to any other part, piping (refrigerant, drain, etc.), and air outlet flange.

If the temperature or humidity inside the ceiling might rise above 86°F (30°C) or RH 80%, respectively, add extra insulation to the unit.

Use polyethylene foam as insulation and make sure it is at least 3/8 inch (10mm) thick and fits inside the ceiling opening.

- Before choosing the installation site, obtain user approval.
- The indoor unit should be positioned in a place where:
- 1) both the air inlet and air outlet are unobstructed,
- 2) the unit is not exposed to direct sunlight,
- 3) the unit is away from the source of heat or steam,
- 4) there is no source of machine oil vapor (this may shorten the indoor unit service life),
- 5) cool/warm air is circulated throughout the room,
- 6) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may affect the remote controller range,
- 7) no laundry equipment is nearby,
- 8) drainage can be performed without any problem,
- 9) the weight of the indoor unit can be adequately supported,
- 10) the wall and the ceiling's lower surface are not significantly tilted,
- 11) room can be left for installation and service work,
- 12) there is no risk of flammable gas leaking,
- 13) the required length of indoor-outdoor piping would not exceed the specified maximum length (see the installation manual that came with the outdoor unit for details).

[Installation Space Requirements]



- *1 Dimension H1 indicates the product height.
- *2 Secure a downward slope of at least 1/100 specified in "8. Drain piping work" (page 8) and determine dimension H2.

<Failure example>

If there is an obstacle in the airflow path or proper installation space is not provided, the indoor unit will cause air volume reduction and take in air blown out of the indoor unit, thus resulting in performance degradation or turning the thermostat OFF frequently.

Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the unit or not. If there is a risk, reinforce the ceiling before installing the unit.

Indoor Unit Installation 1. Check the relation of location between the ceiling opening and the indoor unit suspension bolts. (unit: inch (mm)) Provide one of the following service spaces for the maintenance and inspection of the electrical wiring box and drain pump or for other services. If a space of 300mm or more under the product can be secured Inspection ports 1 and 2 (17-11/16 inch (450mm) × 17-11/16 inch (450mm)) and a minimum space of 11-13/16 inch (300mm) at the bottom of the product. 31-1/2 (800) Electrical wiring box Inspection port 1 (17-11/16 (450) or more × 17-11/16 (450) or more) õ 24-13/16 11 (630) 1-13/16 間 đ ~**C** 7-7/8 (200) (Suspension Ī bolt pitch) Suspension bolt (x 4) Electrical wiring box Ceiling uspension bolt pitch Inspection port Ωa < → Air inlet Air outlet Inspection port 2* Bottom of (17-11/16 (450) or more × 17-11/16 (450) or more) в indoor unit ເວັ (For drain pan removal and component replacement) Inspection port 2 is not required if the bottom space under the product is accessible for work. unit: inch (mm) View A If a space of 300mm or more under the product can not be secured Electrical wiring box 3/16 (20) more 間 r**o**n 0 ١Ē 13/1 or n െ Ceiling Inspection port Ϋ́A 1) Inspection port 1 (17-11/16 inch (450mm) × 17-11/16 inch 2) Inspection port 3 on the bottom of the product and on (450mm)) on the electrical wiring box side and inspection the bottom side of the electrical wiring box. (View A-2)) port 2 on the bottom of the product. (View A-1)) Electrical wiring box Inspection port 1 (17-11/16 (450) or more × 17-11/16 (450) or more) 7-7/8 (200) or less Inspection port 3 E=C+11-13/16 (300) or more (Indoor unit size + 11-13/16 (300) or more) Electrical wiring box с č Inspection port 2 (Indoor unit size or more 31-1/2 (800) 31-1/2 (800) unit: inch (mm) unit: inch (mm) or more or more View A-1) View A-2) В С D Е 07/09/12 class (0)27-9/16 (700) 29-1/16 (738) 39-3/8 (1000) 15/18/24 class 1-15/16 (50) 39-3/8 (1000) 40-7/8 (1038) 51-3/16 (1300) unit: inch (mm) 5

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2. Mount canvas ducts, sound absorbing material and anti-vibration rubber.

• Mount canvas ducts to the air outlet and inlet so that the vibration of the indoor unit will not be transmitted to the ducts or ceiling.

Furthermore, attach sound absorbing material (thermal insulation material) to the duct inner walls and anti-vibration rubber to the suspension bolts (refer to "10. Duct work" (page 15)).

3. The indoor unit is set to standard external static pressure.

 If external static pressure is higher or lower than the standard set value, the remote controller may be used to make onsite setting change in the external static pressure.
 Refer to "Field settings" (page 18).

4. Open installation holes (in the case of installation onto the existing ceiling).

- Open the installation holes on the ceiling of the installation location, and work on the refrigerant piping, drain piping, remote controller wiring, and wiring between the indoor and outdoor units to the piping connection port and wiring connection port of the indoor unit (refer to each piping and wiring procedure items).
- Ceiling framework reinforcement may be required in order to keep the ceiling horizontal and prevent ceiling vibration after opening the ceiling holes. For details, consult your building and upholstery work contractors.

5. Installing the suspension bolts

(Use either a M8-M10 size bolt or the equivalent) Use a hole-in anchor for existing ceilings, and a sunken insert, sunken anchor or other field supplied parts for new ceilings to reinforce the ceiling to bear the weight of the unit. Adjust clearance (2-4 inch (50-100mm)) from the ceiling before proceeding further.

• All the above parts are field supplied.



In the case of changing the preset suction to underside suction, replace the chamber cover and the suction flange.

Remove the suction flange and chamber cover.
 Replace the suction flange and the chamber cover.



- Secure a sufficient maintenance space for the drain pan and electrical components before installing the indoor unit.
- Secure a sufficient maintenance space for the filter chamber, and peripheral components before installing the indoor unit.

Indoor Unit Installation

7. Installing the indoor unit

When installing optional accessories, read also the installation manual of the optional accessories. Depending on the field conditions, it may be easier to install optional accessories before the indoor unit is installed. As for the parts to be used for installation work, be sure to use the provided accessories and specified parts designated by Daikin.

- 1) Install the indoor unit temporarily.
- Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and (L) washer from the upper and lower sides of the hanger bracket.

If the (J) washer fixing plate is used, the upper side (L) washer may be protected from falling off.



• Keep the air outlet covered with a protective sheet to prevent weld spatter and other foreign materials from entering the indoor unit and damaging the resin drain pan.

(If holes or cracks are generated in the resin drain pan, water can leak.)

- 2) Adjust the height of the unit.
- 3) Check the unit is horizontally level.



4) Remove the (J) washer fixing plate used for preventing the (L) washer from dropping and tighten the upper side nut.

- Install the indoor unit leveled.
- If the indoor unit is inclined and the drain piping side gets high, it may cause malfunction of float switch and result in water leakage. • Attach nuts on the upper and lower side of hanger.
- If there is no upper nut and the lower nut is over-tightened, the hanger and the top plate will deform and cause abnormal sound.
- Do not insert materials other than that specified into the clearance between the hanger and the washer for hanger bracket (11). Unless the washers are properly attached, the suspension bolts may come off from the hanger.

🕂 WARNING -

The indoor unit must be securely installed on a place that can withstand the mass. If the strength is insufficient, the indoor unit may fall down and cause injuries.

8. Drain piping work

- Water pooling in the drainage piping can cause the drain to clog.
- Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.
- Keep in mind that the drain pipe becomes blocked if water collects on it.
- Do not tighten the (A) clamp metal with the torque more than the specified value.
- The (B) drain hose , the socket or the (A) clamp metal may be damaged.

1. Install of drain piping

• ft (120~150 N·cm).

- Install the drain piping as shown in the figure and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.
- Keep piping as short as possible and slope it downwards at a gradient of at least 1/100 so that air may not remain trapped inside the pipe.
- Select the piping diameter equal to or larger than (except for riser) that of the connection piping (polyvinyl chloride piping, nominal diameter 1 inch (25mm), outside diameter 1-1/4 inch (32mm)).
- If the drain hose cannot be sufficiently set on a slope, refer to "Precautions for drain raising piping" (page 9).
- To keep the drain hose from sagging, space hanger bracket every 40-60 inch (1000-1500mm).



• Wrap the vinyl tape around the end of the (A) clamp metal so that the (F) sealing pad (Large) to be used at the next process may not be damaged with the clamp end or bend the tip of the (A) clamp metal inward as shown.





Таре

Indoor Unit Installation

Precautions for drain raising piping

- The maximum height of the drain riser is 29-9/16 inch (675mm). Since the drain pump mounted on this indoor unit is a high head type, from the characteristic point of view, the higher the drain riser the lower the draining noise. Therefore, the drain riser of 11-13/16 inch (300mm) or higher is recommended.
- For upward drain piping, keep the horizontal piping distance of 11-13/16 inch (300mm) or less between the drain socket root to the drain riser.



- To ensure no excessive pressure is applied to the included (B) drain hose, do not bend or twist the hose when installing as it could cause leakage.
- If converging multiple drain pipes, install according to the procedure shown below.



Select converging drain pipes with gauges is suitable for the operating capacity of the unit.

- · Positioning the upward drain piping at an angle may cause float switch malfunction and lead to water leakage.
 - While replacing with new indoor unit, use the attached new (B) drain hose and the (A) clamp metal. If an old drain hose or a clamp metal is used, it may cause water leakage.

2. After piping work is finished, check if drainage flows smoothly

When electric wiring work is finished

• Gradually pour 1/4 gal of water from the inspection port at the bottom of the drain socket on the left side of the drain socket into the drain pan giving caution to avoid splashing water on the electric components such as drain pump and confirm drainage by operating the indoor unit under cooling mode according to **Field settings**.



When electric wiring work is not finished

- The electric wiring works (including grounding) must be carried out by a qualified electrician.
- If a qualified person is not present, after the electric wiring work is finished, check the drainage according to the method specified in [When the electric wiring work is finished].
 - 1. Open the electrical wiring box cover and connect the ground wiring to the ground terminal.
- 2. Make sure the electrical wiring box cover is closed before turning on the power supply.
 - Throughout the whole process, carry out the work giving caution to the wiring around the electrical wiring box so that the connectors may not come off.
- **3.** Gradually pour 1 litre of water from the air outlet on the left side of the drain socket into the drain pan giving caution to avoid splashing water on the electric components such as drain pump.
- 4. When the power supply is turned on, the drain pump will operate. Drainage can be checked at the transparent part of the drain socket.

(The drain pump will automatically stop after 10 minutes.)

- The drainage of water can be confirmed with water level change in the drain pan through the access window. • Do not connect the drain piping directly to the sewage that gives off ammonia odor.
- The ammonia in the sewage may go through the drain piping and corrode the heat exchanger of the indoor unit. • Do not apply external force to the float switch. (It may result in malfunction)
- Do not touch the drain pump.
- Touching the drain pump may cause electric shock.
- 5. Turn off the power supply after checking drainage, and remove the power supply wiring.
- 6. Attach the electrical wiring box cover as before.

3. Sweating may occur and result in water leakage. Therefore, make sure to insulate the following 2 locations (drain piping that laid indoors and drain sockets).

• Use the provided (F) sealing pad (large), and perform the thermal insulation of the (A) clamp metal and (B) drain hose after checking the drainage of water.



Indoor Unit Installation

9. Wiring

1. General instructions

- Make certain that all electric wiring work is carried out by qualified personnel according to the applicable legislation and this installation manual, using a separate dedicated circuit.
- Insufficient capacity of the power supply circuit or improper electrical construction may lead to electric shock or a fire. Make sure to install a ground fault circuit interrupter.
- Failure to do so may cause electric shock and a fire.
- Do not turn on the power supply (branch switch, branch overcurrent circuit breaker) until all the works are finished.
- Multiple number of indoor units are connected to one outdoor unit. Name each indoor unit as A-unit, B-unit and the like. When these indoor units are wired to the outdoor unit, always wire the indoor unit to the terminal indicated with the same symbol on the terminal block. If the wiring and the piping are connected to the different indoor units and operated, it will result in malfunction.
- Make sure to ground the air conditioner.
- Grounding resistance should be according to applicable legislation.
- Do not connect the ground wiring to gas or water pipings, lightning conductor or telephone ground wiring.
 - Gas pipingIgnition or explosion may occur if the gas leaks.
 - Water piping......Hard vinyl tubes are not effective grounds.
- Lightning conductor or telephone ground wiring..... Electric potential may rise abnormally if struck by a lightning bolt.
- · For electric wiring work, refer to also the "WIRING DIAGRAM" attached to the electrical wiring box cover.
- Carry out wiring between the outdoor units, indoor units and the remote controllers according to the wiring diagram.
- Carry out installation and wiring of the remote controller according to the "installation manual" attached to the remote controller.
- Do not touch the Printed Circuit Board assembly. It may cause malfunction.

MARNING ·

- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
 Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the
- terminal block.) Doing so may cause electric shock or fire.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

- When clamping wiring, use the included clamping material to prevent outside pressure being exerted on the wiring connections and clamp firmly. When doing the wiring, make sure the wiring is neat and does not cause the electrical wiring box cover to stick up, then close the cover firmly.
- Outside the unit, separate the low voltage wiring (remote controller wiring) and high voltage wiring (wiring between units, ground, and other power wiring) at least 2 in. so that they do not pass through the same place together. Proximity may cause electrical interference, malfunctions, and breakage.

2. Wiring example

For the wiring of outdoor units, refer to the installation manual attached to the outdoor units.

- Confirm the system type.
- Multi system: 2 through 6 (The number of connectable units will vary according to model) indoor units connect to 1 outdoor unit. The indoor unit is controlled by remote controller connected to each indoor unit.

NOTE

- 1. All transmission wiring except for the remote controller wires is polarized and must match the terminal symbol.



3. Specification for field wire

	Wire	Size	Length	
Wiring between units	Recommend stranded and shielded.	AWG 14	_	
	Local code supersedes recommendation.			
Remote controller wiring	Sheathed (2 wire)	AWG 18 - 16	Max. 1640ft (500m)*	
Wiring to ground terminal	Recommend stranded and shielded.			
	Local code supersedes recommendation.	_	_	

* This will be the total extended length in the system when doing group control.

4. Wiring connection method

A CAUTION FOR WIRING -

Recommend stranded cable for interunit wiring. Local code always supersedes recommendation.



Tightening torque for the terminal blocks

- Use the correct screwdriver for tightening the terminal screws. If the blade of screwdriver is too small, the head of the screw might be damaged, and the screw will not be properly tightened.
- If the terminal screws are tightened too hard, screws might be damaged.
- Refer to the table below for the tightening torque of the terminal screws.

	unit: lbf • ft (N • m)
	Tightening torque
Terminal block for remote controller (6P)	0.58 - 0.72 (0.79 - 0.98)
Terminal block for power supply (4P)	0.87 - 1.06 (1.18 - 1.44)

• When wiring, form the wirings orderly so that the electrical wiring box cover can be securely fastened. If the electrical wiring box cover is not in place, the wirings may come out or be sandwiched by the box and the lid and cause electric shock or a fire.

1) Remove the electrical wiring box cover.







NOTE

Secure the wiring between the wiring intake and conduit with the (H) clamp so that the wiring will not become loose.

- 5) Mount the electrical wiring box cover and wrap the (K) wire sealing pad (small) so that the wiring through hole will be covered by the sealing pad.
 - Seal the clearance around the wirings with putty or insulating material (field supply). (If insects and small animals get into the indoor unit, short-circuiting may occur inside the electrical wiring box.)
- 6) Securely fix each wiring with the provided $(\widehat{\mathbf{H}})$ clamp material.
 - See the installation manual supplied with the outdoor unit.





Indoor Unit Installation

10. Duct work

Pay the utmost attention to the following items and conduct the duct work.

- Check that the duct is not in excess of the setting range of external static pressure for the unit. (Refer to the technical datasheet for the setting range.)
- Attach a canvas duct each to the air outlet and air inlet so that the vibration of the equipment will not be transmitted to the duct or ceiling.

Use a sound-absorbing material (insulation material) for the lining of the duct and apply vibration insulation rubber to the suspension bolts.

- At the time of duct welding, perform the curing of the duct so that the sputter will not come in contact with the drain pan for the filter.
- If the metal duct passes through a metal lath, wire lath, or plate of a wooden structure, separate the duct and wall electrically.
- Be sure to heat insulate the duct for the prevention of dew condensation. (Material: Glass wool or styrene foam; Thickness: 1 inch (25mm))
- Be sure to attach the field supply air filter to the air inlet of the unit or field supply inlet in the air passage on the air suction side. (Be sure to select an air filter with a duct collection efficiency of 50 weight percent.)
- Explain the operation and washing methods of the locally procured components (i.e., the air filter, air inlet grille, and air outlet grille) to the user.
- Locate the air outlet grille on the indoor side for the prevention of drafts in a position where indirect contact with people.
- The air conditioner incorporates a function to adjust the fan to rated speed automatically. (Field settings) Therefore, do not use booster fans midway in the duct.
- Connection method of ducts on air inlet and outlet sides.
- Connect the field supply duct in alignment with the inner side of the flange.
- Connect the flange and unit with the (C) duct flange connection screw.
- Wrap aluminium tape around the flange and duct joint in order to prevent air leakage.
- Do not create air outlets in multiple rooms for 1 unit.



Connect the flange and unit with the (C) duct flange connection screw regardless of whether the duct is connected to the air inlet side.

Refrigerant Piping Work

Refer also to the installation manual for the outdoor unit.

- Do not apply mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Never install a dryer to this R410A unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- · Incomplete flaring may result in refrigerant gas leakage.

Execute thermal insulation work completely on both sides of the gas and the liquid piping. Otherwise, a water leakage can result sometimes.

For gas piping, use insulation material of which heat resistant temperature is not less than 230°F (110°C).

Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 86°F (30°C) or RH80%, reinforce the refrigerant insulation. (13/16 inch (20mm) or thicker) Condensation may form on the surface of the insulating material.

Before refrigerant piping work, check which type of refrigerant is used. Proper operation is not possible if the types of refrigerant are not the same.

1. Flaring the pipe end

- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.

	T T
Cut exactly at	
right angles.	Remove burrs.

- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring has been done correctly.



2. Refrigerant piping

- Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Do not have oil adhere to the screw fixing part of resin parts.
- If oil adheres, it may weaken the strength of screwed part.
- Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand, then tighten them fully with a spanner and a torque wrench.



	Piping size	Flare nut tightening torque
	O.D. 3/8 inch (9.5mm)	24-1/8-29-1/2lbf • ft (32.7-39.9N • m)
Gas side	O.D. 1/2 inch (12.7mm)	36-1/2-44-1/2lbf • ft (49.5-60.3N • m)
	O.D. 5/8 inch (15.9mm)	45.6–55.6lbf • ft (61.8-75.4N • m)
Liquid side	O.D. 1/4 inch (6.4mm)	10-1/2-12-3/4lbf • ft (14.2-17.2N • m)

Refrigerant Piping Work Cautions on piping handling · Protect the open end of the pipe from dust and moisture. Be sure to · All pipe bends should be as gentle as possible. Use a pipe bender for place a cap bending. no flare cap is available cover the flare mouth with tape to keep dirt and water out. Selection of copper and heat insulation materials When using commercial copper pipes and fittings, observe the following: Gas pipe Liquid pipe Insulation material: Polyethylene foam Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/fth°F (0.035 to 0.045kcal/mh°C)) Be sure to use insulation that is designed for use with HVAC Systems. · ACR Copper pipe only. Gas pipe iquid pipe Finishing tape Drain hose · Be sure to insulate both the gas and liquid piping and observe the insulation dimensions as below. Thermal insulation Piping size Minimum bend radius Piping thickness Thermal insulation size thickness O.D. 3/8 inch 1-3/16 inch (30mm) I.D. 15/32-19/32 inch (9.5mm) (12-15mm) or more 0.031 inch (0.8mm) O.D. 1/2 inch 1-9/16 inch (40mm) (C1220T-O) LD 9/16-5/8 inch Gas side 13/32 inch (12.7mm) (14-16mm) or more (10mm) Min. O.D. 5/8 inch 1-15/16 inch (50mm) 0.039 inch (1.0mm) I.D. 5/8-13/16 inch (15.9mm) or more (C1220T-O) (16-20mm) O.D. 1/4 inch 1-3/16 inch (30mm) 0.031 inch (0.8mm) I.D. 5/16-13/32 inch Liquid side (6.4mm) (C1220T-O) (8-10mm) or more Use separate thermal insulation pipes for gas and liquid refrigerant pipes. Make absolutely sure to execute thermal insulation works on the pipe-connecting section, after checking for gas leakage, by thoroughly studying the following figures and using the included thermal insulating materials (D) fitting insulation and (E) fitting insulation. Fasten both ends with the (H) clamps. • Make sure to bring the seam of (D) fitting insulation and (E) fitting insulation to the top. Piping insulation procedure Gas piping Liquid piping (E) Fitting insulation Flare nut connection (D) Fitting insulation Flare nut connection (H) Clamps (use 2 clamps (for gas pipe) (for liquid pipe) per insulation) Main unit Main unit Gas Liquid E) Fitting insulation piping piping (for gas pipe) (H) Clamps (H) Clamps (H) Clamps (use 2 clamps Attach to base Attach to base (use 2 clamps per insulation) (use 2 clamps per insulation) per insulation)

condensation or burns if touched

17

Wrap over from the base of the unit

to the top of the flare nut connection

G Sealing pad (medium)

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Gas piping

Liquid piping

D Fitting insulation (for liquid pipe)

Wrap over from the base of the unit

to the top of the flare nut connection

G Sealing pad (medium)

Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause

Field Settings

- Before carrying out field setting, check the items mentioned in "2. Test items" (page 21).
- Check if all the installation and piping works for the air conditioner are completed.
- Check that the outside panel and piping cover of the indoor and outdoor units are closed.

After turning on the power supply, carry out field setting from the remote controller according to the installation state.

- The settings shown by _____ in the following tables indicate those when shipped from the factory.
- Carry out setting at 3 places, "Mode No.", "FIRST CODE No." and "SECOND CODE No.".
- The method of setting procedure and operation is shown in the installation manual attached to the remote controller.
- Ask the user to keep the manual attached to the remote controller together with the operation manual.
- Do not carry out settings other than those shown in the table.

NOTE

 Though setting of "Mode No." is carried out as a group, if you intend to carry out individual setting by each indoor unit or confirmation after setting, carry out setting with the Mode No. shown in the parenthesis ().

1. Setting remote controller

When using wireless remote controllers

When using the wireless remote controllers, wireless remote controller address setting is necessary. Refer to the
installation manual attached to the wireless remote controller.

2. Settings for external static pressure

Make settings in either method (a) or method (b).

(a) Make settings with Air volume automatic adjustment function.

"Air volume automatic adjustment" function: The air volume is adjusted to the rated air volume automatically.

Be sure to check that the external static pressure is within the specification range before making settings. The
external static pressure will not be automatically adjusted and air volume insufficiency or water leakage may
result if the external static pressure is outside the range. (Refer to the technical document for the setting range of
external static pressure.)

1) Check that the electrical wiring and duct work have been completed.

(If the closing damper is set midway, be sure to check that the damper is opened. Furthermore, check that the air passage on the suction side is provided with an air filter (field supply)).

- 2) If air conditioner has more than one air outlet and air inlet, be sure to make adjustments so that the air volume ratio of each air outlet and the corresponding air inlet will conform to the designed air volume ratio. In that case, set the operating mode to "Fan". (In the case of changing the air volume, press the fan speed button on the remote controller and change the current selection to "High", "Medium", or "Low".)
- 3) Make settings to adjust the air volume automatically.

After setting the operating mode to "Fan", set the air conditioner to field setting mode with the operation of the air conditioner stopped. Select Mode No. [21] (11 in the case of batch settings), select FIRST CODE No. "7", and set the SECOND CODE No. to "03".

Return to the "Basic screen" ("Normal mode" if a wireless remote controller is used), and press the ON/OFF button. The operation lamp is lit, and the indoor unit will go into fan operation for air volume automatic adjustments (at which time, do not adjust the opening of the air outlet or inlet). The air volume adjustments will automatically terminate approximately 1 to 15 minutes after the indoor unit comes into operation, and the operation lamp will be OFF and the indoor unit will come to a stop.

Air volume adjustment

Setting content	Mode No.	FIRST CODE No.	SECOND CODE No.
OFF		(21) 7	01
Air volume adjustment completion	11 (21)		02
Air volume adjustment start			03
Field Settings

- If airflow pathway changes, such as duct and air outlet changes, are made after air volume adjustments, be sure to make "Air volume automatic adjustment" again.
- If airflow pathway changes, such as duct and air outlet changes, are made after "**Trial Operation and Testing**" (page 20) or air conditioner relocation, contact your dealer.

(b) Select external static pressure with the remote controller.

Check with Mode No. [21] per indoor unit that the SECOND CODE No. for the above "Air volume adjustment" is set to "01" (OFF). (The SECOND CODE No. is factory set to "01" (OFF).)

Change the SECOND CODE No. by referring to the table below according to the external static pressure of the duct to be connected.

For 15/18/24 class

External static pressure

0.28 in. WG (70Pa) 0.32 in. WG (80Pa)

0.36 in. WG (90Pa) 0.40 in. WG (100Pa) 0.44 in. WG (110Pa) 0.48 in. WG (120Pa) 0.52 in. WG (130Pa) 0.56 in. WG (140Pa) 0.60 in. WG (150Pa)

01 01/00/12 01000			
Setting content	Mode No.	FIRST CODE NO.	SECOND CODE NO.
0.12 in. WG (30Pa)			03
0.16 in. WG (40Pa)			04
0.20 in. WG (50Pa)			05
0.24 in. WG (60Pa)			06

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	6	6 03 04 05 06 07 08 09 10 11 12 13 14 15

Setting content	Mode No.	FIRST CODE NO.	SECOND CODE NO.
0.20 in. WG (50Pa)			05
0.24 in. WG (60Pa)			06
0.28 in. WG (70Pa)			07
0.32 in. WG (80Pa)	13 (23)	6	08
0.36 in. WG (90Pa)			09
0.40 in. WG (100Pa)			10
0.44 in. WG (110Pa)			11
0.48 in. WG (120Pa)			12
0.52 in. WG (130Pa)			13
0.56 in. WG (140Pa)			14
0.60 in. WG (150Pa)			15

3. Setting for options

• For settings for options, see the installation manual provided with the option.

4. Setting air filter sign

- · Remote controllers are equipped with liquid crystal display air filter signs to display the time to clean air filters.
- Change the SECOND CODE NO. depending on the amount of dirt or dust in the room.

AIR FILTER CLEANING TIME INDICATOR lamp display interval

······································				
Setting content	Contamination	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Approx. 2500 hrs	Contamination-light	10 (20)	0	01
Approx. 1250 hrs	Contamination-heavy	10 (20)	0	02
AIR FILTER CLEANING TIME INDICATOR lamp display				
Setting content		Mode No.	FIRST CODE NO.	SECOND CODE NO.
Display ON		10 (20)	0	01
Displa	y OFF*	10 (20)	3	02

* Use "Display OFF" setting when cleaning indication is not necessary such as the case of periodical cleaning being carried out.

5. When implementing group control

- When using as a pair unit, you may control up to 16 units with the remote controller.
- In this case, all the indoor units in the group will operate in accordance with the group control remote controller.
- Select a remote controller which matches as many of the functions (swing flap, etc.) in the group as possible.

Wiring Method

- Remove the electrical wiring box cover. (Refer to 1) Remove the electrical wiring box cover in "9. Wiring" on page 12.)
- Cross-wire the terminal block for remote controller (P1, P2) inside the electrical wiring box. (There is no polarity.) (Refer to 3. Specification for field wire in "9. Wiring" on page 12)



Trial Operation and Testing

After finishing the construction of refrigerant piping, drain piping, and electric wiring, conduct trial operation accordingly to protect the unit.

1. Trial operation and testing

CAUTION ·

After test operation is completed, check the items mentioned "**Items to be checked at time of delivery**" (page 22). If the interior finish work is not completed when the test operation is finished, for protection of the air conditioner, ask the user not operate the air conditioner until the interior finish work is completed.

If the air conditioner is operated, the inside of the indoor units may be polluted by substances generated from the coating and adhesives used for the interior finish work and cause water splash and leakage.

Trial operation should be carried out in either COOL or HEAT operation.

- 1-1. Measure the supply voltage and make sure that it is within the specified range.
- 1-2. In COOL operation, select the lowest programmable temperature; in HEAT operation, select the highest programmable temperature.
- 1-3. Carry out the trial operation following the instructions in the operation manual to ensure that all functions and parts, such as the movement of the louvers, are working properly.

• To protect the air conditioner, restart operation is disabled for 3 minutes after the system has been turned off.

- 1-4. After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C) in COOL operation, 68°F to 75°F (20°C to 24°C) in HEAT operation).
 - When operating the air conditioner in COOL operation in winter, or HEAT operation in summer, set it to the trial operation mode using the following method.
 - Refer to For wired remote controller .
 - Refer to For wireless remote controller (page 21).

For wired remote controller

- 1) Set to COOL or HEAT operation using the remote controller.
- 2) Press and hold Cancel button for 4 seconds or longer. Service settings menu is displayed.
- 3) Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and "Test Operation" is displayed at the bottom.
- 4) Press On/Off button within 10 seconds, and the test operation starts.

Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool/heat regardless of the temperature setpoint and room temperature.

- In the case of above-mentioned procedures 3) and 4) in reverse order, test operation can start as well.
- 5) Press and hold Cancel button for 4 seconds or longer in the basic screen.

Service settings menu is displayed.

- Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and normal operation is conducted.
 - Test operation will stop automatically after 15-30 minutes. To stop the operation, press On/Off button.



Trial Operation and Testing

For wireless remote controller

()ON∕OFF

1) Press mode and select the COOL or HEAT operation.

2) Press twice. "Test" is displayed.

3) Press (iii) within 10 seconds, and the test operation starts.

Monitor the operation of the indoor unit for a minimum of 10 minutes.

During test operation, the indoor unit will continue to cool/heat regardless of the temperature setpoint and room temperature.

- In the case of above-mentioned procedures 1) and 2) in reverse order, test operation can start as well.
- Test operation will stop automatically after 15 30 minutes.
 - To stop the operation, press $(\bigcirc ON / OFF)$
- Some of the functions cannot be used in the test operation mode.

Precautions

Refer to "3. How to diagnose for malfunction" (page 23) if the unit does not operate properly.

2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
The power supply voltage corresponds to that shown on the name plate.	No operation or burn damage	
System is properly grounded.	Electrical leakage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling/heating function	
Refrigerant piping length and additional refrigerant charge are noted down.	The refrigerant charge in the system is not clear	
Pipes and wires are connected to the corresponding connection ports / terminal blocks for the connected unit.	No cooling/heating	
Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives wireless remote control commands.	No operation	
The external static pressure is set correctly.	Incomplete cooling/heating function or water leakage	

Items to be checked at time of delivery

Also review the "Precautions" (page 3)

Test items	Check
The electrical wiring box cover and air filter are attached.	
I explained about operations while showing the operation manual to the user.	
Field setting has been carried out. (if necessary)	
It has been confirmed that the cool air discharges during the COOL operation and the warm air discharges during the HEAT operation. The indoor unit does not make unpleasant sounds of air discharge.	
I explained the set fan speed to the user (if the fan speed was set at thermostat OFF).	
I handed the operation manual over to the user.	
I have checked that there is no generation of abnormal noise (i.e., noise resulting from contamination or missing parts).	
The printed circuit board switch is not on the emergency (EMG.) side. The switch is factory set to the normal (NORM.) side.	
I have checked the operation of the optional accessory and made field settings as needed (if an optional accessory is in use).	
I have explained failure examples of "3.How to diagnose for malfunction" (page 23).	
I explained the power supply status (power supply ON/OFF) to the user.	

Points for explanation about operations

The items with Δ WARNING and Δ CAUTION marks in the operation manual are the items pertaining to possibilities for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask your user to read the operation manual.

Note to the installer

Be sure to instruct user how to properly operate the unit (especially cleaning the filter, operating different functions, and adjusting the temperature) by having them carry out operations while looking at the manual.

▲ To the operator carrying out test operation –

After test operation is completed, before delivering the air conditioner to the user, confirm that the electrical wiring box cover is closed.

In addition, explain the power supply status (power supply ON/OFF) to the user.

Trial Operation and Testing

3. How to diagnose for malfunction

• If the air conditioner does not operate normally after installing the air conditioner, a malfunction shown in the table below may happen.

Wired remote controller display	Description
No display	 Power outage, power voltage error or open-phase Incorrect wiring (between indoor and outdoor units) Indoor PC-board assembly failure Remote controller wiring not connected Remote controller failure Open fuse or tripped circuit breaker (outdoor unit)
"Checking the connection. Please stand by." *	Indoor PC-board assembly failureWrong wiring (between indoor and outdoor units)

* "Checking the connection. Please stand by" will be displayed for up to 90 seconds following the application of power to the indoor unit. This is normal and does not indicate a malfunction.

Diagnose with the display on the liquid crystal display remote controller.

With the wired remote controller

When the operation stops due to a malfunction, operation lamp blinks, and the malfunction code is indicated on the liquid crystal display. In such a case, diagnose the fault contents by referring to **Error History** in the service settings menu. In the case of group control, the unit No. is displayed so that the indoor unit with the trouble can be identified.

With the wireless remote controller

(Refer also to the operation manual attached to the wireless remote controller) When the operation stops due to a malfunction the display on the indoor unit blinks. In such a case, diagnose the fault contents with the error code which can be found by following procedures.

1) Press the INSPECTION/TEST OPERATION button, "binks." is displayed and "0" blinks.

2) Press the TEMPERATURE SETTING button and find the unit No. which stopped due to trouble.

3 short beeps	Perform all the following operations
1 short beep	Perform (3) and (6)
1 long beep	No trouble

3) Press the OPERATION MODE SELECTOR button and upper figure of the error code blinks.

4) Continue pressing the TEMPERATURE SETTING button until it makes 2 short beeps and find the upper code.

5) Press the OPERATION MODE SELECTOR button and lower figure of the error code blinks.

6) Continue pressing the TEMPERATURE SETTING button until it makes a long beep and find the lower code.• A long beep indicate the error code.

4. Malfunction code

Number of beeps

- For places where the malfunction code is written in white, the " 祾 " indication is not displayed. Though the system continues operating, be sure to inspect the system and make repairs as necessary.
- Depending on the type of indoor or outdoor unit, the malfunction code may or may not be displayed.

Malfunction code	Descriptions and measures	Remarks
A1	Indoor Printed Circuit Board failure	
A3	Drain level abnormal	
A5	High pressure control or freeze-up protector	
46	Indoor fan motor overload, over current, lock	
AO	Indoor Printed Circuit Board connection failure	
A8	Indoor unit power supply voltage abnormal	
AJ	Capacity setting failure	Capacity setting adapter or capacity data error, or disconnection of the capacity setting adapter, failure to connect the adapter, or the capacity is not set to the data-retention IC.

Malfunction code	Descriptions and measures	Remarks
C1	Transmission error between indoor Printed Circuit Board (Master) and indoor Printed Circuit Board (Slave)	
C4	Indoor heat exchanger liquid pipe temperature sensor malfunction	Abnormal stop is applied depending on the model or condition.
C5	Indoor heat exchanger condenser / evaporator temperature sensor malfunction	Abnormal stop is applied depending on the model or condition.
C9	Suction air thermistor malfunction	Abnormal stop is applied depending on the model or condition.
CJ	Remote controller air thermistor malfunction	Remote controller thermo does not function, but body thermo operation is enabled.
E0	Action of safety device (Outdoor unit)	
E1	Outdoor Printed Circuit Board failure (Outdoor unit)	
E3	High pressure switch (HPS) activated	Depending on the type of outdoor unit connected, the malfunction code may not be displayed.
E5	OL (compressor overload) started, high pressure switch (HPS) activated	Depending on the type of outdoor unit connected, the malfunction contents may be different.
E6	Compressor motor lock by over current (Outdoor unit)	
F7	Outdoor fan motor lock malfunction (Outdoor unit)	
	Outdoor fan instant overcurrent malfunction (Outdoor unit)	
E8	Input overcurrent (Outdoor unit)	
EA	Cooling/heating switch malfunction (Outdoor unit)	
F3	Discharge piping temperature malfunction (Outdoor unit)	
F6	High pressure control (in cooling) (Outdoor unit)	
F8	Operation halt due to compressor internal temperature abnormality	
H0	Sensor fault for inverter (Outdoor unit)	
H6	Operation halt due to faulty position detection sensor	
H8	CT abnormality (Outdoor unit)	
H9	Outdoor air thermistor system malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
J3	Discharge piping thermistor system malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
J6	Outdoor heat exchanger distributor liquid piping thermistor malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
L3	Reactor thermistor malfunction (Outdoor unit)	
L4	Overheated heat-radiating fin (Outdoor unit)	Inverter cooling failure.
L5	Instantaneous overcurrent (Outdoor unit)	The compressor engines and turbines may be experiencing a ground fault or short circuit.
P4	Heat-radiating fin thermistor malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
UO	Suction piping temperature abnormal (Outdoor unit)	The refrigerant may be insufficient. Abnormal stop is applied depending on the model or condition.
U2	Power voltage malfunction (Outdoor unit)	The inverter open-phase or main circuit condenser may be malfunctioning. Abnormal stop is applied depending on the model or condition.
U4 UF	Transmission error (between indoor and outdoor units)	Wiring error between indoor and outdoor unit. Or Indoor and outdoor Printed Circuit Board failure.
U5	Transmission error (between indoor and remote controller units)	Transmission between indoor unit and remote controller is not performed properly.
U7	Transmission error of the inverter module	
UA	Field setting error	System setting error of the simultaneous on/off multi-split type.
UE	Transmission error (between indoor unit and centralized remote controller)	
UC	Remote controller address setting error	

12.3 FFQ

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Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

Read the precautions in this manual carefully before operating the unit.

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.

Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.

Meanings of DANGER, WARNING, CAUTION, and NOTE Symbols:

ANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
MARNING ·······	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
<u>∧</u> NOTE	Indicates situations that may result in equipment or property damage accidents only.

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- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
 Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.

- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.

MARNING -

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- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.

- When wiring, position the wires so that the electrical wiring box cover can be securely fastened. Improper positioning of the electrical wiring box cover may result in electric shock, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- · Comply with national gas regulations.

CAUTION -

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R410A in the system must be kept clean, dry, and tight.
- (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.

- (b) Tight -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The indoor unit is for R410A. See the catalog for outdoor models that can be connected. Normal operation is not possible when connected to non-compatible outdoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen.
 Plastic parts may deteriorate and fall off or result in water leakage.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced.
 - Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

- The indoor unit should be positioned where the unit and interunit wires (outdoor to indoor) are at least 3.3ft (1m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 3.3ft (1m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R410A, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.
 FTN005-U

Before Installation

- Leave the unit inside its packaging until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit. When unpacking the unit or when moving the unit after unpacking, be sure to lift the unit by holding on to the hanger bracket without exerting any pressure on other parts, especially on refrigerant piping, drain piping and other resin parts.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Caution concerning refrigerant series R410A:
- The connectable outdoor units must be designed exclusively for R410A.

Precautions

- Do not install or operate the unit in places mentioned below.
 - Places with mineral oil, or filled with oil vapor or spray like in kitchens. (Plastic parts may deteriorate.)
 - Where corrosive gas like sulphurous gas exists. (Copper tubing and brazed spots may corrode.)
 - Where volatile flammable gas like thinner or gasoline is used.
 - Where machines generating electromagnetic waves exist. (Control system may malfunction.)
- Where the air contains high levels of salt such as near the ocean and where voltage fluctuates a lot (e.g. in factories). Also inside vehicles or vessels.
- When selecting the installation site, use the supplied (\overline{E}) template for installation.
- Do not install accessories on the casing directly. Drilling holes in the casing may damage electrical wires and consequently cause fire.
- Take off static electricity from the body when carrying out wiring and the electrical wiring box cover is removed. The electric parts may be damaged.

Accessories

(A) Drain hose	1	(B) Clamp metal	1	© Washer for hanger bracket	8	(D) Clamp	7
E Template (cut out from upper part of packing)	1	(F) Screws (M5) (for template)	4	G Fitting insulation (for gas pipe)	1	(H) Fitting insulation (for liquid pipe)	1
(1) Sealing pad (large)	1	(K) Sealing pad (medium A)	1	(L) Sealing pad (medium B)	1	M Sealing pad (small)	1
N Washer for conduit		P Operation manual		Q Installation manual		(R) Warranty	
\bigcirc	1		1		1		1
S General safety considerations							
	1						
3							

Optional Accessories

• The optional decoration panel and remote controller are required for this indoor unit.

Table 1

	Optional decoration	panel
Туре А	BYFQ60B3W1	Color: White
Type B	BYFQ60C2W1W	Color: White
Type B	BYFQ60C2W1S	Color: Silver

 There are 2 types of remote controllers: wired and wireless. Select a remote controller from Table 2 according to customer request and install in an appropriate place.

Table 2

Remote controller type	Model name
Wired type	BRC1E73
Wireless type	BRC082A41W / BRC082A42W / BRC082A42S

 If you wish to use a remote controller that is not listed in Table 2, select a suitable remote controller after consulting catalogs and technical materials.

Choosing an Installation Site

Hold the unit by the 4 hanger brackets when opening the box and moving it, and do not exert pressure on to any other part, piping (refrigerant, drain, etc.), or plastic parts.

If the temperature or humidity inside the ceiling might rise above 86°F (30°C) or RH 80%, respectively, add extra insulation to the unit.

Use polyethylene foam as insulation and make sure it is at least 3/8 inch (10mm) thick and fits inside the ceiling opening.

Select the air flow directions best suited to the room and point of installation.

For air discharge in 3 directions, it is necessary to make field settings by means of the remote controller and to close the air outlet (s).

Refer to the installation manual of the blocking pad kit (sold separately) and to "Field Settings" on page 16.

- · Before choosing the installation site, obtain user approval.
- The indoor unit should be positioned in a place where:
- 1) both the air inlet and air outlet are unobstructed,
- 2) the unit is not exposed to direct sunlight,
- 3) the unit is away from the source of heat or steam,
- 4) there is no source of machine oil vapor (this may shorten the indoor unit service life),
- 5) cool/warm air is circulated throughout the room,
- 6) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may affect the remote controller range,
- 7) no laundry equipment is nearby,
- 8) drainage can be performed without any problem,
- 9) the weight of the indoor unit can be adequately supported,
- 10) the wall and the ceiling's lower surface are not significantly tilted,
- 11) room can be left for installation and service work,
- 12) there is no risk of flammable gas leaking,
- 13) the required length of indoor-outdoor piping would not exceed the specified maximum length (see the installation manual that came with the outdoor unit for details).



Indoor Unit Installation 1. Relation of ceiling opening to unit and suspension bolt position For decoration panel type A For decoration panel type B Top view Top view Þ 23-1/16-23-7/16 (585-595) Ceiling opening Refrigerant pitch Refrigerant 23-1/16-26 (585-660) Ceiling opening pitch 27-9/16 (700) Decoration panel piping 24-7/16 (620) Decoration panel piping 22-5/8 (575) Indoor unit 21 (533) Suspension bolt p 22-5/8 (575) Indoor unit 21 (533) Suspension bolt p Suspension Suspension 4 bolt (×4) bolt (×4) 21 (533) 21 (533) Suspension bolt pitch Suspension bolt pitch 2-1/2 (63) 22-5/8 (575) 22-5/8 (575) 2-1/2 Indoor unit (63) Indoor unit 23-1/16-26 (585-660) 23-1/16-23-7/16 (585-595) Ceiling opening Ceiling opening 27-9/16 (700) 24-7/16 (620) Decoration panel Decoration panel Side view Side view 23-1/16-26 (585-660) 23-1/16-23-7/16 (585-595) Ceiling opening Ceiling opening 11-1/4 (285) Hanger bracket 11-3/4 (298) Hanger bracket -1/16 180) 7-1/2 False ceiling - False ceiling ≥*13/16 ≥*13/16 ≥*1/2 (12.5) ≥*1/2 (12.5) (20) (20) unit: inch (mm) NOTE • *If the panel does not extend over the ceiling by this amount, supplement with extra ceiling material or restore the ceiling. • Install the inspection opening on the electrical wiring box side where maintenance and Electrical wiring box inspection of the electrical wiring box and drain pump are easy. 17-11/16×17-11/16 (450×450) ł Inspection 11-3/4 (300) 6

Indoor Unit Installation

2. Make the ceiling opening needed for installation where applicable (For existing ceilings)

- Refer to the (E) template for ceiling opening dimensions.
- Create the ceiling opening required for installation. From the side of the opening to the casing outlet, implement the refrigerant and drain piping and wiring for remote controller (unnecessary for wireless type) and wiring between units. Refer to each Drain piping work or Wiring section.
- · After making an opening in the ceiling, it may be necessary to reinforce ceiling beams to keep the ceiling level and to prevent it from vibrating. Consult the builder for details.

3. Installing the suspension bolts

(Use either a M8-M10 size bolt or the equivalent) Use a hole-in anchor for existing ceilings, and a sunken insert, sunken anchor or other field supplied parts for new ceilings to reinforce the ceiling to bear the weight of the unit. Adjust clearance (2-4 inch (50-100mm)) from the ceiling before proceeding further.

· All the above parts are field supplied.

2-4 (50-100) Long nut or turn-buckle Suspension bolt False ceiling

4. Installing the indoor unit

When installing optional accessories (except for the decoration panel), read also the installation manual of the optional accessories. Depending on the field conditions, it may be easier to install optional accessories before the indoor unit is installed. However, for existing ceilings, always install fresh air intake kit before installing the unit. As for the parts to be used for installation work, be sure to use the provided accessories and specified parts designated by Daikin.

For new ceilings

1) Install the indoor unit temporarily.

· Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and (\widehat{C}) washer from the upper and lower sides of the hanger bracket.

Securing the hanger bracket

Installation Example

Ceiling slab

unit:inch (mm)

Anchor



2) Refer to the (E) template for ceiling opening dimension. Consult the builder or carpenter for details.

- The center of the ceiling opening is indicated on the (E) template. This indication also indicates the center of the unit
- The (E) template can be rotated by 90° to be able to indicate the correct dimensions on all 4 sides.
- · After cutting the template from the packaging, attach the (E) template to the unit with (F) screws (×4) as shown in figure.
- Ceiling height is shown on the side of the (E) template. Adjust the height of the unit according to this indication.

Ceiling work

3) Adjust the unit to the right position for installation. (Refer to 1. Relation of ceiling opening to unit and suspension bolt position.)





- If the drain hose cannot be sufficiently set on a slope, refer to "Precautions for drain raising piping".
- To keep the drain hose from sagging, space hanger bracket every 40-60 inch (1000-1500mm).



Indoor Unit Installation

- Tighten the B clamp metal as indicated in the illustration.
- After the testing of drain piping is finished, attach the drain (J) sealing pad (large) supplied with the unit over the uncovered part of the drain socket (= between drain hose and unit body).
- Wrap the supplied large sealing pad over the (B) clamp metal and (A) drain hose to insulate and fix it with clamps.
- Insulate the complete drain piping inside the building (field supply).
- If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

Precautions for drain raising piping

- Install the drain raising pipes at a height of less than H2.
- Install the drain raising pipes at a right angle to the indoor unit and no more than 11-3/4 inch (300mm) from the unit.

Drain socket

(B) Clamp metal

(J) Sealing pad (large)

View A

(A) Drain hose

(J) Sealing pad

(B) Clamp metal

(large)

Drain socket

Drain piping (field supply)

(A) Drain hose



- To ensure no excessive pressure is applied to the included (A) drain hose, do not bend or twist the hose when installing as it could cause leakage.
- · If converging multiple drain pipes, install according to the procedure shown below.



Select converging drain pipes with gauges is suitable for the operating capacity of the unit.



Indoor Unit Installation

6. Wiring

Refer also to the installation manual for the outdoor unit.

🗥 WARNING 🛛

- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

Recommend stranded cable for interunit wiring. Local code always supersedes recommendation.

For stranded wires, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminal secure in place.

 For stranded wires, make sure to use the round crimp-style terminal block. Place the round crimp-style terminal

Good

Flat washer

If solid core wire must be used, be sure to curl the end of the lead.
Improper work may cause heat and fire.

Round

termina

crimp-style



Round crimp-style

terminal

Wrong

- When clamping wiring, use the included clamping material to prevent outside pressure being exerted on the wiring connections and clamp firmly. When doing the wiring, make sure the wiring is neat and does not cause the electrical wiring box cover to stick up, then close the cover firmly.
- Outside the unit, separate the low voltage wiring (remote controller wiring) and high voltage wiring (wiring between units, ground, and other power wiring) at least 2 in. so that they do not pass through the same place together. Proximity may cause electrical interference, malfunctions, and breakage.

Tightening torque for the terminal blocks

- Use the correct screwdriver for tightening the terminal screws. If the blade of screwdriver is too small, the head of the screw might be damaged, and the screw will not be properly tightened.
- If the terminal screws are tightened too hard, screws might be damaged.
- Refer to the table below for the tightening torque of the terminal screws.

	unit: lbf • ft (N • m)
	Tightening torque
Terminal block for remote controller (6P)	0.58 - 0.72 (0.79 - 0.98)
Terminal block for power supply (4P)	0.87 - 1.06 (1.18 - 1.44)

- For electric wiring work, refer also to "Wiring diagram label" attached to the electrical wiring box cover.
- For remote controller wiring details, refer to the installation manual attached to the remote controller.
- A circuit breaker capable of shutting down power supply to the entire system must be installed.

· Specifications for field wire

The remote controller wiring should be procured locally.

Table 3

	Wire	Size	Length
Wiring between units	Recommend stranded and shielded. Local code supersedes recommendation.	AWG 14	_
Remote controller wiring	Sheathed (2 wire)	AWG 18 - 16	Max. 1640ft (500m)*
Wiring to ground terminal	Recommend stranded and shielded. Local code supersedes recommendation.	_	_

* This will be the total extended length in the system when doing group control.

• Arrange the wires and fix a cover firmly so that the cover does not float during wiring work.

- Do not clamp remote controller wiring together with wiring between units. Doing so may cause malfunction.
- Remote controller wiring and wiring between units should be located at least 2 inch (50mm) from other electric wires.
 - Not following this guideline may result in malfunction due to electrical noise.

Indoor Unit Installation

Connection of wiring between units, ground wire and remote controller wiring

Wiring between units and ground wire

1) Remove the electrical wiring box cover (2 screws).



2) Insert the wires including the ground wire into the conduit, and secure the conduit to the hole in the electrical wiring box using a lock nut and the (N) washer for conduit, as shown in the illustration.



- 3) Connect the ground wire to the corresponding terminals.
- 4) Match wire colors with terminal numbers on the terminal block for power supply of indoor and outdoor unit and firmly secure the wires in the corresponding terminals with screws.
- 5) In doing this, pull the wires inside through the hole and fix the wires securely with the included (D) clamp.
- 6) Give enough slack to the wires between the (D) clamp and terminal block for power supply.
- 7) Pull the wires inside through the hole and connect them to the terminal block for remote controller (P1, P2) (no polarity). Securely fix the remote controller wiring with the included (D) clamp.
- 8) Give enough slack to the wires between the (D) clamp and the terminal block for remote controller.
- 9) Attach the electrical wiring box cover as before.
- 10) After all wiring connections are done, fill in any gaps in the casing wiring holes with putty or (M) sealing pad (small) thus to prevent small animals or dirt from entering the unit from outside and causing short circuits in the electrical wiring box.



Refrigerant Piping Work

Refer also to the installation manual for the outdoor unit.

- Do not apply mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Never install a dryer to this R410A unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Incomplete flaring may result in refrigerant gas leakage.

Execute thermal insulation work completely on both sides of the gas and the liquid piping. Otherwise, a water leakage can result sometimes.

Be sure to use insulation designed for use with HVAC systems.

Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 86°F (30°C) or RH80%, reinforce the refrigerant insulation. (13/16 inch (20mm) or thicker) Condensation may form on the surface of the insulating material. Before refrigerant piping work, check which type of refrigerant is used. Proper operation is not possible if the types of refrigerant are not the same.

1. Flaring the pipe end

- 1) Cut the pipe end with a pipe cutter.
- 2) Remove burrs with the cut surface facing downward so that the filings do not enter the pipe.

Cut exactly at right angles. Remove burrs.

- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring has been done correctly.



2. Refrigerant piping

- Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.



Refrigerant Piping Work

Selection of copper and heat insulation materials

When using commercial copper pipes and fittings, observe the following:

- · Insulation material: Polyethylene foam
- Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/fth°F (0.035 to 0.045kcal/mh°C))
- Be sure to use insulation that is designed for use with HVAC Systems.
- ACR Copper pipe only.



· Be sure to insulate both the gas and liquid piping and observe the insulation dimensions as below.

	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness
Casaida	O.D. 3/8 inch (9.5mm)	1-3/16 inch (30mm) or more		I.D. 15/32-19/32 inch (12-15mm)	
Gas side	O.D. 1/2 inch (12.7mm)	1-9/16 inch (40mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 9/16-5/8 inch (14-16mm)	13/32 inch (10mm) Min.
Liquid side	O.D. 1/4 inch (6.4mm)	1-3/16 inch (30mm) or more		I.D. 5/16-13/32 inch (8-10mm)	

- · Use separate thermal insulation pipes for gas and liquid refrigerant pipes.
- Make absolutely sure to execute thermal insulation works on the pipe-connecting section, after checking for gas leakage, by thoroughly studying the following figures and using the included thermal insulating materials (G) fitting insulation and (H) fitting insulation. Fasten both ends with the (D) clamps.

Piping insulation procedure



Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

Installation of the Decoration Panel

With the wireless remote controller, field setting and trial operation cannot be performed without attaching the decoration panel.

Read **"Trial Operation and Testing**" before making a trial operation without attaching the decoration panel. Refer to the installation manual attached to the decoration panel.

After installing the decoration panel, ensure that there is no space between the unit body and decoration panel.

Field Settings

When performing field setting or trial operation without attaching the decoration panel, do not touch the drain pump. This may cause electric shock.

- · Make sure the electrical wiring box cover is closed on the indoor and outdoor units.
- · Field settings must be made from the remote controller and in accordance with installation conditions.
- · Setting can be made by changing the "Mode No.", "FIRST CODE NO." and "SECOND CODE NO.".
- . The "Field Settings" included with the remote control lists the order of the settings and method of operation.

20 0-01 1-01 2-02 3-01 11----15 14

4ÅI

Field Settings

Unit No

1. Setting air outlet direction

- · For changing air outlet direction (2 or 3 directions), refer to the installation manual attached to the blocking pad kit (sold separately) or the service manual.
 - (SECOND CODE NO. is factory set to "01" for air outlet in 4 directions.)

2. Setting for options

· For settings for options, see the installation manual provided with the option.

3. Setting remote controller

When using wireless remote controllers

· When using the wireless remote controllers, wireless remote controller address setting is necessary. Refer to the installation manual attached to the wireless remote controller.

4. Setting air filter sign

- Remote controllers are equipped with liquid crystal display air filter signs to display the time to clean air filters.
- · Change the SECOND CODE NO. depending on the amount of dirt or dust in the room.

AIR FILTER CLEANING TIME INDICATOR lamp display interval

Setting content	Contamination	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Approx. 2500 hrs	Contamination-light	10 (20)	0	01
Approx. 1250 hrs	Contamination-heavy	10 (20)	0	02

AIR FILTER CLEANING TIME INDICATOR lamp display

Setting content	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Display ON	10 (20)	0	01
Display OFF*	10 (20)	3	02

* Use "Display OFF" setting when cleaning indication is not necessary such as the case of periodical cleaning being carried out.

5. When implementing group control

- · When using as a pair unit, you may control up to 16 units with the remote controller.
- In this case, all the indoor units in the group will operate in accordance with the group control remote controller.
- Select a remote controller which matches as many of the functions (swing flap, etc.) in the group as possible.

Wiring Method

- 1) Remove the electrical wiring box cover. (Refer to Wiring between units and ground wire in "6. Wiring" on page 13.)
- 2) Cross-wire the terminal block for remote controller (P1, P2) inside the electrical wiring box. (There is no polarity.)
 - (Refer to Table 3 in "6. Wiring" on page 12)



Field Settings

6. 2 remote controllers (controlling 1 indoor unit by 2 remote controllers)

 When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".

Wiring Method

- 1) Remove the electrical wiring box cover.
- (Refer to Wiring between units and ground wire in "6. Wiring" on page 13.) 2) Add remote controller 2 to the terminal block for remote controller (P1, P2) in
- the electrical wiring box. (There is no polarity.) (Refer to Table 3 in "6. Wiring" on page 12)



Trial Operation and Testing

When performing field settings or trial operation without attaching the decoration panel, do not touch the drain pump. This may cause electric shock.

• After finishing the construction of refrigerant piping, drain piping, and electric wiring, conduct trial operation accordingly to protect the unit.

1. Trial operation and testing

Make sure to install the decoration panel before carrying out trial operation if the wireless remote controller is used.

• Trial operation should be carried out in either COOL or HEAT operation.

- 1-1. Measure the supply voltage and make sure that it is within the specified range.
- 1-2. In COOL operation, select the lowest programmable temperature; in HEAT operation, select the highest programmable temperature.
- 1-3. Carry out the trial operation following the instructions in the operation manual to ensure that all functions and parts, such as the movement of the louvers, are working properly.
 - To protect the air conditioner, restart operation is disabled for 3 minutes after the system has been turned off.
- 1-4. After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C) in COOL operation, 68°F to 75°F (20°C to 24°C) in HEAT operation).
- When operating the air conditioner in COOL operation in winter, or HEAT operation in summer, set it to the trial operation mode using the following method.

Refer to **For wired remote controller** on page 18.

Refer to For wireless remote controller

For wireless remote controller

1) Press and select the COOL or HEAT operation.

2) Press twice. "Test" is displayed.

()ON/OFF

3) Press (iii) within 10 seconds, and the test operation starts.

Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool/heat regardless of the temperature setpoint and room temperature.

In the case of above-mentioned procedures 1) and 2) in reverse order, test operation can start as well.
 ○on/orF

Test operation will stop automatically after 15 - 30 minutes. To stop the operation, press

• Some of the functions cannot be used in the test operation mode.

For wired remote controller

- 1) Set to COOL or HEAT operation using the remote controller.
- 2) Press and hold Cancel button for 4 seconds or longer. Service settings menu is displayed.
- Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and "Test Operation" is displayed at the bottom.
- 4) Press On/Off button within 10 seconds, and the test operation starts.

Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool/heat regardless of the temperature setpoint and room temperature.

- In the case of above-mentioned procedures 3) and 4) in reverse order, test operation can start as well.
- Press Menu/OK button in the basic screen. Main menu is displayed.
- 6) Select Air Flow Direction in the main menu and check that air flow direction is actuated according to the setting. For operation of air flow direction setting, see the operation manual.
- 7) After the operation of air flow direction is confirmed, press Menu/OK button. Basic screen returns.
- Press and hold Cancel button for 4 seconds or longer in the basic screen.
 - Service settings menu is displayed.
- 9) Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and normal operation is conducted.
 - Test operation will stop automatically after 15-30
 minutes. To stop the operation, press On/Off button.
- 10) If the decoration panel has not been installed, turn off the power after the test operation.



Precautions

Refer to "3. How to diagnose for malfunction" if the unit does not operate properly.

Trial Operation and Testing

2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
Is the outdoor unit fully installed?	No operation or burn damage	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
Does the power supply voltage correspond to that shown on the name plate?	No operation or burn damage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
System is properly grounded.	Electrical leakage	
Is wiring size according to specifications?	No operation or burn damage	
Is something blocking the air outlet or inlet of either the indoor or outdoor units?	Incomplete cooling/heating function	
Are refrigerant piping length and additional refrigerant charge noted down?	The refrigerant charge in the system is not clear	
Pipes and wires are connected to the corresponding connection ports / terminal blocks for the connected unit.	No cooling/heating	
Stop valves are opened.	Incomplete cooling/heating function	
Check that the connector of the lead wires of the decoration panel is connected securely.	Louvers do not move	
Indoor unit properly receives wireless remote control commands.	No operation	

Items to be checked at time of delivery

Also review the "Precautions" on page 3

Test items	Check
Are the electrical wiring box cover, air filter, suction grille attached?	
Did you explain about operations while showing the operation manual to your customer?	
Did you hand the operation manual over to your customer?	

Points for explanation about operations

The items with \triangle WARNING and \triangle CAUTION marks in the operation manual are the items pertaining to possibilities for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask your customers to read the operation manual.

Note to the installer

Be sure to instruct customers how to properly operate the unit (especially cleaning the filter, operating different functions, and adjusting the temperature) by having them carry out operations while looking at the manual.

3. How to diagnose for malfunction

• If the air conditioner does not operate normally after installing the air conditioner, a malfunction shown in the table below may happen.

Wired remote controller display	Description
	Power outage, power voltage error or open-phase
	 Incorrect wiring (between indoor and outdoor units)
No diantau	Indoor PC-board assembly failure
ino display	Remote controller wiring not connected
	Remote controller failure
	Open fuse or tripped circuit breaker (outdoor unit)
"Checking the connection. Please	Indoor PC-board assembly failure
stand by."* • Wrong wiring (between indoor and outdoor units)	

* "Checking the connection. Please stand by" will be displayed for up to 90 seconds following the application of power to the indoor unit. This is normal and does not indicate a malfunction.

Diagnose with the display on the liquid crystal display remote controller.

With the wired remote controller

When the operation stops due to a malfunction, operation lamp blinks, and the malfunction code is indicated on the liquid crystal display. In such a case, diagnose the fault contents by referring to **Error History** in the service settings menu. In the case of group control, the unit No. is displayed so that the indoor unit with the trouble can be identified.

With the wireless remote controller

(Refer also to the operation manual attached to the wireless remote controller) When the operation stops due to a malfunction the display on the indoor unit blinks. In such a case, diagnose the fault contents with the error code which can be found by following procedures.

1) Press the INSPECTION/TEST OPERATION button, " " is displayed and " 0 " blinks.

2) Press the TEMPERATURE SETTING button and find the unit No. which stopped due to trouble.

Number of beeps	3 short beeps	Perform all the following operations	
	1 short beep	Perform (3) and (6)	
	1 long beep	No trouble	

3) Press the OPERATION MODE SELECTOR button and upper figure of the error code blinks.

4) Continue pressing the TEMPERATURE SETTING button until it makes 2 short beeps and find the upper code.

- 5) Press the OPERATION MODE SELECTOR button and lower figure of the error code blinks.
- 6) Continue pressing the TEMPERATURE SETTING button until it makes a long beep and find the lower code.
 A long beep indicate the error code.

12.4 RX09/12

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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

Read the precautions in this manual carefully before operating the unit.

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.

Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.

Meanings of DANGER, WARNING, CAUTION, and NOTE Symbols:

ANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING ·······	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
<u>∧</u> NOTE	Indicates situations that may result in equipment or property damage accidents only.

🕂 DANGER -

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- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death. Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.

- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injury or death by suffocation.

MARNING -

- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injury.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.

- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the protection plate can be securely fastened. Improper positioning of the protection plate may result in electric shock, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit protection plate. If the protection plate is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, which may result in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Comply with national gas regulations.

CAUTION -

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- · Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R410A in the system must be kept clean, dry, and tight.
 (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.

- (b) Tight -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping* and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The outdoor unit is for R410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to non-compatible indoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

- The outdoor unit should be positioned where the unit and power supply wires (breaker panel to outdoor unit) are at least 10ft (3m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 10ft (3m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R410A, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

RN006-U

Accessories

		B Drain socket	
(A) Installation manual	1		1
		This is at the better of the neckering	
		This is at the bottom of the packaging.	
© Drain cap (1)		D Drain cap (2)	
	4	(P)	2
C Morronty	4		-
		General salety consideration	

Precautions for Selecting a Location

- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operating sound will not be amplified.
- 2) Choose a location where the air discharged from the unit or the operating sound will not cause a nuisance to the neighbors of the user.
- 3) Avoid locations, such as near bedrooms, where the operating sound may cause disturbance.
- 4) There must be sufficient space to carry the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) The site must not be prone to flammable gas leaks in the surrounding area.
- 7) In coastal areas or other places with a salty atmosphere or one containing sulfate gas, corrosion may shorten the life of the air conditioner.
- Since water will flow from the drain of the outdoor unit, do not place anything under the unit which must be kept away from moisture.
- 9) A location where flammable gas does not leak. Position at least 6-5/8ft (2m) from propane gas cylinders.

NOTE

Cannot be installed suspended from a ceiling or stacked.

When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.

- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- In heavy snow areas, select an installation site where the snow will not affect the unit.
- If there is a likelihood of snow accumulating on the outdoor unit, attach a snow protection hood.
- In high humidity areas or heavy snow areas, it is recommended to attach a drain pan heater to prevent ice build-up from the bottom frame.

Construct a large canopy.
Construct a pedestal.



Install the unit high enough off the ground to prevent burying in snow.

Precautions on Installation

- Check the strength and level of the installation surface so that the unit does not cause any operating vibrations or noise after installation.
- Fix the unit in place securely using foundation bolts, as in the figure. (Prepare 4 sets of 5/16 inch (M8) or 3/8 inch (M10) foundation bolts, nuts and washers; all sold separately.)
- It is best to screw in the foundation bolts until their ends are 3/4 inch (20mm) from the foundation surface.



Outdoor Unit Installation Diagram



Installation Space Requirements

- · Position the unit on a horizontal surface. Any tilt in the unit should be 3° or less to the horizontal.
- Where a wall or other obstacle is in the path of the outdoor unit's intake or exhaust airflow, follow the installation space requirements below.
- For any of the below installation patterns, the wall height on the outlet side should be 47-1/4 inch (1200mm) or less.
- Secure as much installation space around the unit as the location allows, as more space will result in more efficient operation.



Top view

unit: inch (mm)

Outdoor Unit Installation

1. Installing the outdoor unit

- When installing the outdoor unit, refer to "Precautions for Selecting a Location" on page 3 and the "Outdoor Unit Installation Diagram" on page 4.
- If drain work is necessary, follow the procedures below.

2. Drain work

In cold areas, do not use a drain socket, drain caps (1, 2) and a drain hose with the outdoor unit. (Drain water may freeze, impairing heating performance.)

- If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 1-1/4 inch (30mm) in height under the outdoor unit's feet.
- 1) Attach \bigcirc drain cap (1) and \bigcirc drain cap (2).
- 2) Attach (B) drain socket.
 - When attaching (B) drain socket to the bottom frame, make sure to connect the drain hose to the drain socket first.



3. Flaring the pipe end

MARNING -

- Do not apply mineral oil to the flare.
- · Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with this unit.
- Never install a dryer to this R410A unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Improper flaring may result in refrigerant gas leakage.

Do not reuse joints which have been used once already.

- 1) Cut the pipe end with a pipe cutter.
- Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.
- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring has been done correctly.



Flaring								
Set exactly at the position shown below.								
, ↓A	\square	Flare tool for R410A	Convent	ional flare tool				
	$ \rangle$	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)				
	А	0-0.020 inch (0-0.5mm)	0.039-0.059 inch (1.0-1.5mm)	0.059-0.079 inch (1.5-2.0mm)				

4. Refrigerant piping

CAUTION

- Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand, then tighten them fully with a spanner and a torque wrench.



Tightening torque

Piping connection

Fipling connection			valve cap	Service poirt cap	
Flare nut]	Width ac	8-10-7/8lbf • ft	
Gas side	Liquid side		11/16 inch (17mm)	3/4 inch (19mm)	(10.7-14.7N • m)
3/8 inch (9.5mm)	1/4 inch (6.4mm)		10-1/2-12-5/8lbf • ft	12-5/8-15-3/8lbf • ft	
24-1/8-29-1/2lbf • ft	10-1/2-12-3/4lbf • ft		(14.2-17.2N • m)	(17.0-21.0N • m)	
(32.7-39.9N • m)	(14.2-17.2N • m)				

Outdoor Unit Installation

Cautions on pipe handling

- Protect the open end of the pipe from dust and moisture.
- All pipe bends should be as gentle as possible. Use a pipe bender for bending.

Selection of copper and heat insulation materials

- When using commercial copper pipes and fittings, observe the following:
- Insulation material: Polyethylene foam Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/fth°F) (0.035 to 0.045kcal/mh°C) Be sure to use insulation that is designed for use with HVAC Systems.
- ACR Copper only.
- Be sure to insulate both the gas and liquid piping and observe the insulation dimensions as below.

	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness
Gas side	O.D. 3/8 inch (9.5mm)	1-3/16 inch (30mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 15/32-19/32 inch (12-15mm)	13/32 inch
Liquid side	O.D. 1/4 inch (6.4mm)	1-3/16 inch (30mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 5/16-13/32 inch (8-10mm)	(10mm) Min.

Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

• Using finishing tape, bundle and wrap the indoor unit piping and drain hose together so that the drain hose is below the other piping.



Be sure to

If no flare cap is available, cover the flare mouth with tape to keep dirt and water out

5. Pressure test and evacuating system

WARNING -

- Make sure that air or any matter other than refrigerant (R410A) does not get into the refrigeration cycle.
- If refrigerant gas leaks should occur, ventilate the room as soon and as much as possible.
- R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.

It is highly recommended that you do not open/close the stop valves when the outdoor temperature is below -5°F (-21°C) as this may result in refrigerant leakage.

- When piping work is complete, it is necessary to perform a pressure test and evacuate system with a vacuum pump.
- If using additional refrigerant, purge the air from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- Use a hexagonal wrench (3/16 inch (4mm)) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench to the specified tightening torque.



- 1) Pressurize the liquid pipe and gas pipe from the service ports of each stop valve to 604psi (4.17MPa) (do not pressurize more than 604psi (4.17MPa)) for 1 hour minimum, 24 hours recommended. If there is a pressure drop, check for leaks, make repairs and perform the pressure test again.
- 2) Connect the gauge manifold's charging hose to the gas stop valve's service port.
- Fully open the low-pressure valve (Lo) on the gauge manifold and fully close the high-pressure valve (Hi). (High-pressure valve will require no further operation.)
- 4) Evacuate system using vacuum pump to below 500 microns for 1 hour minimum.
- 5) Close the low-pressure valve (Lo) on the gauge manifold and stop vacuum pumping. (Maintain this condition for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)^{*1}
- 6) Remove the valve caps from the liquid stop valve and gas stop valve.
- 7) To open the liquid stop valve, turn the rod of the valve 90° counter-clockwise using a hexagonal wrench. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from the indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off.
- 8) Disconnect the charging hoses from the service port for the gas stop valve, then fully open the liquid and gas stop valves. (Do not attempt to turn the valve rods further than they can go.)
- 9) Tighten the valve caps and service port caps for the liquid and gas stop valves with a torque wrench to the specified torques.

Refer to "4. Refrigerant piping" on page 6 for details.

*1 If the compound pressure gauge pointer swings back, the refrigerant may have water content or there may be a loose pipe joint.

Check all pipe joints and retighten nuts as needed, then repeat steps 3) through 5).

6. Refilling refrigerant

Check the type of refrigerant to be used on the machine nameplate.

Precautions when adding R410A

Fill from the liquid pipe in liquid form.

R410A is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.

• Before filling, check whether the cylinder has a siphon attached or not. (It should have something like "liquid filling siphon attached" displayed on it.)

Filling a cylinder with an attached siphon

Filling other cylinders

Turn the cylinder upside-down when filling.

Stand the cylinder upright when filling. (There is a siphon pipe inside, so the cylinder need not be upside-down to fill with liquid.

linder

• Be sure to use the R410A tools to ensure pressure and to prevent foreign objects from entering.

Wiring

- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
- Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.
- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Use an all-pole disconnection type circuit breaker with at least 1/8 inch (3mm) between the contact point gaps.
- When carrying out wiring, take care not to pull at the conduit.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.
- Do not turn on the circuit breaker until all work is completed.

Precautions to be taken for power supply wiring

Recommend stranded cable for interunit wiring. Local code always supersedes recommendation.



Arrow view A

• If solid core wire must be used, be sure to curl the end of the lead. Improper work may cause heat and fire.



- 1) Strip the insulation from the wire (3/4 inch (20mm)).
- 2) Connect the inter-unit wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. It is recommended that a slot-head screwdriver be used to tighten the screws.



NOTE

Take care to ensure that all wiring between indoor unit and outdoor unit has a consistent connection. Any splices can cause communication errors.

[Method of mounting conduit]

- A protection plate is fixed for protection from the high-voltage section.
- 1) Dismount the stop valve cover by removing the screw.
- 2) Dismount the protection plate by removing the 2 screws.
- 3) Dismount the conduit mounting cover by removing the 2 screws.
- 4) Pass wires through the conduit and secure them with a lock nut.
- 5) After completing the work, reattach the conduit mounting cover, the protection plate, and the stop valve cover to its original position.



Ground

This air conditioner must be grounded. For grounding, follow all local, and state electrical codes.

Facility Setting (cooling at low outdoor temperature)

MARNING ·

Make sure to turn the power OFF before performing work.

- If the outdoor unit is installed where the heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
- Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
- Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used. A humidifier might cause dew condensation from the indoor unit outlet vent.
- Cutting the jumper 6 (J6) sets the indoor fan tap to the highest position. Notify the user about this.
Facility Setting (cooling at low outdoor temperature)

This function is designed for facilities such as equipment or computer rooms. It is never to be used in a residence or office where people occupy the space.

- Cutting the jumper 6 (J6) on the circuit board will expand the operation range down to 14°F (-10°C).
 - Installing an air direction adjustment grille (sold separately) will further extend the operation range to -4°F (-20°C).
- In these cases, the unit will stop operating if the outdoor temperature falls below $-4^{\circ}F$ ($-20^{\circ}C$), restarting once the temperature rises above this level.
- 1) Remove the top plate of the outdoor unit. (4 screws)
- 2) Remove the front plate. (5 screws)
- 3) Cut the jumper (J6) of the PCB inside.



When Attaching the Drain Pan Heater

Make sure to turn the power OFF before performing work.

In high humidity areas or heavy snow areas, it is recommended to attach a drain pan heater to prevent ice build-up from the bottom frame.

1) Attach the drain pan heater in accordance with the installation manual included with the drain pan heater.

2) Cut the jumper (J9) of the PCB inside.





Pump Down Operation

[For wireless remote controller] 1) Press and select the COOL operation.

2) Press Twice. "Test" is displayed.

3) Press (III) within 10 seconds, and the forced cooling operation starts.

Forced cooling operation will stop automatically after about 15 minutes.

To stop the operation, press

Trial Operation and Testing

1. Trial operation and testing

Refer to the installation manual for the indoor unit.

2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly grounded.	Electrical leakage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling/heating function	
Stop valves are opened.	Incomplete cooling/heating function	
[For FFQ models] Check that the connector of the lead wires of the decoration panel is connected securely.	Louvers do not move	
Indoor unit properly receives remote control commands.	No operation	

12.5 RX15/18/24

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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.



Read the precautions in this manual carefully before operating the unit.

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.

Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.

Meanings of DANGER, WARNING, CAUTION, and NOTE Symbols:

ANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
A WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
<u>∧</u> NOTE	Indicates situations that may result in equipment or property damage accidents only.

🕂 DANGER -

1

- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
 Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.

- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injury or death by suffocation.

🕂 WARNING -

- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injury.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.

- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the service lid can be securely fastened. Improper positioning of the service lid may result in electric shock, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit service lid. If the service lid is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, which may result in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Comply with national gas regulations.

CAUTION -

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- · Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R410A in the system must be kept clean, dry, and tight.
 (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.

- (b) Tight -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping* and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The outdoor unit is for R410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to non-compatible indoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

- The outdoor unit should be positioned where the unit and power supply wires (breaker panel to outdoor unit) are at least 10ft (3m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 10ft (3m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R410A, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

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Accessories

(A) Installation manual	1	B Drain socket* This is at the bottom of the packaging.	1
© Drain cap (1)*	6	Drain cap (2)*	3
© Warranty	1	© General safety consideration	1

* Only for Heat pump models

Precautions for Selecting a Location

- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operating sound will not be amplified.
- 2) Choose a location where the air discharged from the unit or the operating sound will not cause a nuisance to the neighbors of the user.
- 3) Avoid locations, such as near bedrooms, where the operating sound may cause disturbance.
- 4) There must be sufficient space to carry the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) The site must not be prone to flammable gas leaks in the surrounding area.
- 7) In coastal areas or other places with a salty atmosphere or one containing sulfate gas, corrosion may shorten the life of the air conditioner.
- Since water will flow from the drain of the outdoor unit, do not place anything under the unit which must be kept away from moisture.
- 9) A location where flammable gas does not leak. Position at least 6-5/8ft (2m) from propane gas cylinders.

NOTE

Cannot be installed suspended from a ceiling or stacked.

When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.

• To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.

- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- In heavy snow areas, select an installation site where the snow will not affect the unit.
- If there is a likelihood of snow accumulating on the outdoor unit, attach a snow protection hood.
- In high humidity areas or heavy snow areas, it is recommended to attach a drain pan heater to prevent ice build-up from the bottom frame.





Install the unit high enough off the ground to prevent burying in snow.

Precautions on Installation

- Check the strength and level of the installation surface so that the unit does not cause any operating vibrations or noise after installation.
- Fix the unit in place securely using foundation bolts, as in the figure. (Prepare 4 sets of 5/16 inch (M8) or 3/8 inch (M10) foundation bolts, nuts and washers; all sold separately.)
- It is best to screw in the foundation bolts until their ends are 3/4 inch (20mm) from the foundation surface.



Outdoor Unit Installation Diagram



Installation Space Requirements

- Position the unit on a horizontal surface. Any tilt in the unit should be 3° or less to the horizontal.
- Where a wall or other obstacle is in the path of the outdoor unit's intake or exhaust airflow, follow the installation space requirements below.
- For any of the below installation patterns, the wall height on the outlet side should be 47-1/4 inch (1200mm) or less.
- Secure as much installation space around the unit as the location allows, as more space will result in more efficient operation.



Outdoor Unit Installation

1. Installing the outdoor unit

- When installing the outdoor unit, refer to "Precautions for Selecting a Location" on page 3 and the "Outdoor Unit Installation Diagram" on page 4.
- If drain work is necessary, follow the procedures below.

2. Drain work (Only for heat pump models)

- In cold areas, do not use a drain socket, drain caps (1,2) and a drain hose with the outdoor unit. (Drain water may freeze, impairing heating performance.)
 - If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 1-1/4 inch (30mm) in height under the outdoor unit's feet.
 - 1) Attach \bigcirc drain cap (1) and \bigcirc drain cap (2).
 - 2) Attach (B) drain socket.
 - When attaching (B) drain socket to the bottom frame, make sure to connect the drain hose to the drain socket first.



3. Flaring the pipe end

- Do not apply mineral oil to the flare.
- · Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with this unit.
- Never install a dryer to this R410A unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Incomplete flaring may result in refrigerant gas leakage.

- · Do not reuse joints which have been used once already.
 - 1) Cut the pipe end with a pipe cutter.
 - 2) Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.
 - 3) Put the flare nut on the pipe.
 - 4) Flare the pipe.
 - 5) Check that the flaring has been done correctly.



(1.0-1.5mm)

(1.5-2.0mm)

(0-0.5mm)

4. Refrigerant piping

• Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)

Die

- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand, then tighten them fully with a spanner and a torque wrench.

Spanner

Piping union

Tiahten

Torque wrencl

Flare nut



Tightening torque

Piping connection		Valve cap			Service port cap
Flare nut			Width across flats		8–10-7/8lbf • ft
Gas side	Liquid side	11/16 inch (17mm)	1-1/16 inch (27mm)	1-3/16 inch (30mm)	(10.7-14.7N • m)
1/2 inch (12.7mm) 5/8 inch (15.9mm)	1/4 inch (6.4mm)	10-1/2-12-5/8lbf • ft	35-3/8-44-1/8lbf • ft	16-5/8-20-1/4lbf • ft	
36-1/2-44-1/2lbf • ft 45-5/8-55-5/8lbf • f	t 10-1/2-12-3/4lbf • ft	(14.2-17.2N • m)	(48.0-59.8N • m)	(22.5-27.5N • m)	
(49.5-60.3N • m) (61.8-75.4N • m)	(14.2-17.2N • m)				

Outdoor Unit Installation

Cautions on pipe handling

- Protect the open end of the pipe from dust and moisture.
- All pipe bends should be as gentle as possible. Use a pipe bender for bending.

Selection of copper and heat insulation materials

When using commercial copper pipes and fittings, observe the following:

- Insulation material: Polyethylene foam Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/fth°F) (0.035 to 0.045kcal/mh°C) Be sure to use insulation that is designed for use with HVAC Systems.
- ACR Copper only.
- · Be sure to insulate both the gas and liquid piping and observe the insulation dimensions as below.

	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness
Casaida	O.D. 1/2 inch (12.7mm)	1-9/16 inch (40mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 9/16-5/8 inch (14-16mm)	
Gas side	O.D. 5/8 inch (15.9mm)	1-15/16 inch (50mm) or more	0.039 inch (1.0mm) (C1220T-O)	I.D. 5/8-13/16 inch (16-20mm)	13/32 inch (10mm) Min.
Liquid side	O.D. 1/4 inch (6.4mm)	1-3/16 inch (30mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 5/16-13/32 inch (8-10mm)	

Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

• Using finishing tape, bundle and wrap the indoor unit piping and drain hose together so that the drain hose is below the other piping.



5. Pressure test and evacuating system

- Make sure that air or any matter other than refrigerant (R410A) does not get into the refrigeration cycle.
- If refrigerant gas leaks should occur, ventilate the room as soon and as much as possible.
- R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.

It is highly recommended that you do not open/close the stop valves when the outdoor temperature is below -5°F (-21°C) as this may result in refrigerant leakage.



- · When piping work is complete, it is necessary to perform a pressure test and evacuate system with a vacuum pump.
- · If using additional refrigerant, purge the air from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- Use a hexagonal wrench (3/16 inch (4mm)) to operate the stop valve rod.
- · All refrigerant pipe joints should be tightened with a torque wrench to the specified tightening torque.



- 1) Pressurize the liquid pipe and gas pipe from the service ports of each stop valve to 604psi (4.17MPa) (do not pressurize more than 604psi (4.17MPa)) for 1 hour minimum, 24 hours recommended. If there is a pressure drop, check for leaks, make repairs and perform the pressure test again.
- 2) Connect the gauge manifold's charging hose to the gas stop valve's service port.
- 3) Fully open the low-pressure valve (Lo) on the gauge manifold and fully close the high-pressure valve (Hi). (High-pressure valve will require no further operation.)
- 4) Evacuate system using vacuum pump to below 500 microns for 1 hour minimum.
- 5) Close the low-pressure valve (Lo) on the gauge manifold and stop vacuum pumping. (Maintain this condition for a few minutes to make sure that the compound pressure gauge pointer does not swing back.)*1
- 6) Remove the valve caps from the liquid stop valve and gas stop valve.
- 7) To open the liquid stop valve, turn the rod of the valve 90° counter-clockwise using a hexagonal wrench. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from the indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off.
- 8) Disconnect the charging hoses from the service port for the gas stop valve, then fully open the liquid and gas stop valves. (Do not attempt to turn the valve rods further than they can go.)
- 9) Tighten the valve caps and service port caps for the liquid and gas stop valves with a torque wrench to the specified torques

Refer to "4. Refrigerant piping" on page 6 for details.

*1 If the compound pressure gauge pointer swings back, the refrigerant may have water content or there may be a loose pipe joint.

Check all pipe joints and retighten nuts as needed, then repeat steps 3) through 5).

6. Refilling refrigerant

Check the type of refrigerant to be used on the machine nameplate.

Precautions when adding R410A

Fill from the liquid pipe in liquid form.

R410A is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.

· Before filling, check whether the cylinder has a siphon attached or not. (It should have something like "liquid filling siphon attached" displayed on it.)

Filling a cylinder with an attached siphon

Filling other cylinders

There is a siphon pipe inside, so the cylinder need not be upside-down to fill with liquid.

Stand the cylinder upright when filling.

Turn the cylinder upside-down when filling.

Be sure to use the R410A tools to ensure pressure and to prevent foreign objects from entering.

Wiring

- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
- Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.
- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Use an all-pole disconnection type circuit breaker with at least 1/8 inch (3mm) between the contact point gaps.
- When carrying out wiring, take care not to pull at the conduit.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.
- Do not turn on the circuit breaker until all work is completed.

Precautions to be taken for power supply wiring

Recommend stranded cable for interunit wiring. Local code always supersedes recommendation.



• If solid core wire must be used, be sure to curl the end of the lead. Improper work may cause heat and fire.



- 1) Strip the insulation from the wire (3/4 inch (20mm)).
- 2) Connect the inter-unit wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. It is recommended that a slot-head screwdriver be used to tighten the screws.



NOTE

Take care to ensure that all wiring between indoor unit and outdoor unit has a consistent connection. Any splices can cause communication errors.

[Method of mounting conduit]

1) Dismount the service lid by removing the 2 screws.

2) Pass wires through the conduit and secure them with a lock nut.

10



₿ G Conduit

Lock nut

RX30/36, RK30/36, RXL18/24 models



Ground

This air conditioner must be grounded. For grounding, follow all local, and state electrical codes.

Facility Setting (cooling at low outdoor temperature)

Make sure to turn the power OFF before performing work.

- If the outdoor unit is installed where the heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
- Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
 Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used.
- A humidifier might cause dew condensation from the indoor unit outlet vent.
- Activating the facility setting sets the indoor fan tap to the highest position. Notify the user about this.

This function is designed for facilities such as equipment or computer rooms. It is never to be used in a residence or office where people occupy the space.

RX15/18/24, RXL15 models

- <u>Cutting jumper 6 (J6)</u> on the PCB will extend the operation range to 14°F (-10°C). Installing an air direction adjustment grille (sold separately) will further extend the operation range to -4°F (-20°C). In these cases, the unit will stop operating if the outdoor temperature falls below -4°F (-20°C), restarting once the temperature rises above this level.
 - 1) Remove the top plate of the outdoor unit. (6 screws)
 - 2) Remove the front plate. (8 screws)
 - 3) Remove the anti-drip cover.
 - 4) Cut the jumper (J6) of the PCB inside.



RX30/36, RK30/36, RXL18/24 models

- Turning on SW5-3 on the PCB will extend the operation range to 14°F (-10°C). Installing an air direction adjustment grille (sold separately) will further extend the operation range to -4°F (-20°C). In these cases, the unit will stop operating if the outdoor temperature falls below -4°F (-20°C), restarting once the temperature rises above this level.
 - 1) Remove the service lid. (2 screws)
 - 2) Remove the switch cover. (1 screw)
 - 3) Turn on SW5-3.



Only for cooling models

In addition to turning on SW5-3, turning on SW6-2 as well on the PCB will extend the operation range to -22°F (-30°C). The unit will stop operating if the outdoor temperature falls below -22°F (-30°C), restarting once the temperature rises above this level.

1) Turn on SW6-2 in addition to SW5-3.

NOTE

When the outdoor temperature is below $-4^{\circ}F$ (-20°C) and if SW6-2 in this step is turned on, for the purpose of protecting the compressor, it may take up to 3 hours for operation to begin while the system warms up.



When attaching the drain pan heater

WARNING -

• Make sure to turn the power OFF before performing work.

In high humidity areas or heavy snow areas, it is recommended to attach a drain pan heater to prevent ice build-up from the bottom frame.

RX15/18/24, RXL15 models

- 1) Attach the drain pan heater in accordance with the installation manual included with the drain pan heater.
- 2) Cut the jumper (J9) of the PCB inside.



RX30/36, RK30/36, RXL18/24 models

1) Attach the drain pan heater in accordance with the installation manual included with the drain pan heater. 2) Turn on SW6-1 on the PCB.



Pump Down Operation

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.

- 1) Remove the valve caps from the liquid stop valve and gas stop valve.
- 2) Begin forced cooling operation.
- 3) After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation.
- 5) Attach the valve caps once procedures are complete.



Forced cooling operation

■Using the indoor unit ON/OFF switch

[For FTX, FTXR and FVX models]

Press the indoor unit ON/OFF switch for at least 5 seconds. (The operation will start.)

 Forced cooling operation will stop automatically after about 15 minutes. To stop the operation, press the indoor unit ON/OFF switch.

■Using the indoor unit's remote controller [For FFQ and FDMQ models]

[For wired remote controller]

- 1) Set to COOL operation using the remote controller.
- 2) Press and hold the Cancel button for 4 seconds or longer. Service settings menu is displayed.
- Select Test Operation in the service settings menu, and press the Menu/OK button. Basic screen returns and "Test Operation" is displayed at the bottom.
- Press the On/Off button within 10 seconds, and the forced cooling operation starts.
- Forced cooling operation will stop automatically after about 15 minutes. To stop the operation, press the On/Off button.

[For wireless remote controller]

1) Press mode and select the COOL operation.

- 2) Press Twice. "Test" is displayed.
- 3) Press (iii) within 10 seconds, and the forced cooling operation starts.
- Forced cooling operation will stop automatically after about 15 minutes.

To stop the operation, press





Trial Operation and Testing

• When trial operation is conducted directly after the circuit breaker is turned on, in some cases no air will be output for about 15 minutes in order to protect the air conditioner.

1. Trial operation and testing

Refer to the installation manual for the indoor unit.

2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly grounded.	Electrical leakage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling/heating function	
Stop valves are opened.	Incomplete cooling/heating function	
[For FFQ models] Check that the connector of the lead wires of the decoration panel is connected securely.	Louvers do not move	
Indoor unit properly receives remote control commands.	No operation	

12.6 <BYFQ60B3W1> Decoration Panel



The English text is the original instruction. Other languages are translations of the original instructions.

Read this manual attentively before installation. Do not throw it away. Keep it in your files for future reference.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin that are specifically designed for the use with the equipment and have them installed by a professional.

If unsure of installation procedures or use, always contact your dealer for advice and information.

Before installation

Leave the unit inside its packaging until you reach the installation site.





Cut off the main power before opening the grille.

 Refer to the installation manual of the indoor unit for items not described in this manual.

> NOTE To the installer Be sure to instr

Be sure to instruct the customer how to properly operate the system showing him or her the operation manual of the indoor unit.

Accessories

Installation manual		Wire harness	
Screws (4x)	(III)	Temporary latch	\square
Fibre glass tube		Tie wrap (7x)	

Preparation before installation

For this unit, you are able to select air flow directions. To discharge air in 2 or 3 directions, it is necessary to purchase the optional blocking pad kit for sealing air discharge outlets.

Handling of the decoration panel

To prevent any damage to the decoration panel, take care of the following:

- Never place the decoration panel facing down.
- Never let the decoration panel lean against a wall.
- Never place the decoration panel on a sharp or projecting object.
- Never touch or put pressure on the swing flap in order to prevent malfunction of the swing flap.

Preparing the decoration panel for installation

- Remove the suction grille from the decoration panel.
 - 1 Decoration panel
 - 2 Suction grille
 - 3 Lever
 - Push the suction grille lever (3) inward and open the suction grille (2). (See figure 1)
 - Detach the suction grille from the decoration panel by lifting the suction grille up approximately 45 degrees (A) until the position is reached on which removal of the suction grille is possible (B). (See figure 2)

Installation of the decoration panel to the indoor unit

Refer to the installation manual of the indoor unit for details on installing the indoor unit.

Installation and wiring of the decoration panel.



For installation and wiring of the decoration panel see figure 6.

	1	Screws
•	1	Tie wrap
	2	Latch
		Socket X36
		Socket X80
R	1	Tie wrap
	2	Latch
c	1	Tie wrap
<u> </u>	2	Tie wrap
	3	Fibre glass tube
	4	Tie wrap

- 1 Attach wire harness from panel accessory set to unit and to other wire harness by two tie wraps (1). (See figure 6-C)
- 2 Lead the wire harness through unit's groove and attach it by tie wrap (1) to the rest of wire harnesses. (See figure 6-B)
- 3 Open two latches (2) and insert the wire harness so it is in the same condition as other wire harnesses. (See figure 6-A and 6-B)
- 4 Insert wire harness into switch box using lower hole, insert two connectors into proper sockets (X36, X80) and secure the wire harness by tie wrap (1). (See figure 6-A)
- 5 Provisionally tighten the 2 supplied screws (1) approximately 5 mm (0.2 in) into the indoor unit as marked in figure. (See figure 6)

- 6 Attach latch (2) from panel accessory set to unit according to figure 3. Then turn this latch up. (See figure 3)
- 7 Slide the panel over the provisionally tightened screws matching the 2 attachment holes (∩).
- 8 Turn decoration panel lever (1) 90 degrees and then turn temporary latch (2) down to secure panel in temporary position. (See figure 3)
- 9 Attach remaining screws and tighten all 4 screws until the thickness of the sealing material between the decoration panel and the indoor unit reduces to 6-8 mm. (See figure 4)
 - 1 Indoor unit
 - 2 Ceiling
 - 3 Sealing material
 - 4 Decoration panel
 - 5 Air outlet

10 Pull the fibre glass tube (3) over decoration panel wire harness. Then connect both wire harnesses together and move the fibre glass tube over this connection. Secure the fiber glass tube by two tie wraps (2) according to figure 6-C. Then attach decoration panel wire harness to unit by tie wrap (4). (See figure 6-C)



Make sure that the swing flap motor lead wire is not caught between the indoor unit and the decoration panel and inbetween the electric component box lid.

Precautions

- Improper tightening of the screws (See figure 5) may cause air to leak into the unit and between the ceiling and the decoration panel (1), resulting in formation of contamination (2) and dew (3).
- If there is a gap remaining between the ceiling and the decoration panel after tightening the screws, re-adjust the indoor unit body height. The indoor unit must be kept leveled and the drain piping kept unaffected.

Installation of the suction grille

Install the suction grille by reversing the procedure shown in "Preparing the decoration panel for installation" on page 1.

- The suction grille may be installed in 4 directions by simply turning it 90 degrees.
- Change the direction when adjusting the direction of the suction grille of multiple units or to comply with the demands of the customer.

NOTE Be careful not to get the swing flap motor lead wire get caught when installing the suction grille.

12.7 <BYFQ60C2W1W(S)> Decoration Panel



The English text is the original instruction. Other languages are translations of the original instructions.

Read this manual attentively before installation. Do not throw it away. Keep it in your files for future reference.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin that are specifically designed for the use with the equipment and have them installed by a professional.

If unsure of installation procedures or use, always contact your dealer for advice and information.

Before installation

Leave the unit inside its packaging until you reach the installation site.



 Refer to the installation manual of the indoor unit for items not described in this manual.

NOTE To the installer

 Be sure to instruct the customer how to properly operate the system showing him or her the operation manual of the indoor unit.

Accessories

면

A

Installation manual	
Screws (4x)	ALL
Grille hinge (2x)	IT.

Preparation before installation

For this unit, you are able to select air flow directions. To discharge air in 2 or 3 directions, it is necessary to purchase the optional blocking pad kit for sealing air discharge outlets.

Handling of the decoration panel

To prevent any damage to the decoration panel, take care of the following:

- Never place the decoration panel facing down.
- Never let the decoration panel lean against a wall.
- Never place the decoration panel on a sharp or projecting object.
- Never touch or put pressure on the swing flap in order to prevent malfunction of the swing flap.

Preparing the decoration panel for installation

- 1 Remove the suction grille from the decoration panel.
 - 1 Decoration panel
 - 2 Suction grille
 - 3 Lever
 - Remove the transporting tape from the decoration panel suction grille and flaps.
 - Push the suction grille lever (3) inward and open the suction grille (2). (See figure 1)
 - Detach the suction grille from the decoration panel by lifting the suction grille up approximately 90 degrees (A) until the position is reached on which removal of the suction grille is possible (B). (See figure 2)

Installation of the decoration panel to the indoor unit

Refer to the installation manual of the indoor unit for details on installing the indoor unit.

- Install the decoration panel (See figure 3)
 - 1 Temporary latch
 - 2 Hook
 - 3 Swing flap motor lead wire
 - 4 Piping area
 - 5 Piping side mark
 - 6 Drain area
 - 7 Drain side mark
 - 1 Hold the decoration panel against the indoor unit by matching the piping side and drain side marks on the decoration panel with the position of the piping area and drain area of the indoor unit.
 - 2 Turn 2 panel temporary latches up into the hooks of the indoor unit so the decoration panel is temporarily fixed to the indoor unit. (See figure 3)
 - 3 Make sure that the swing flap motor lead wire isn't caught between the decoration panel and the indoor unit.
 - 4 Attach 4 supplied screws and check whether the decoration panel is properly aligned with the indoor unit and ceiling.
 - 5 Tighten all 4 screws until the thickness between of the sealing material between the decoration panel and the indoor unit reduces to 4-8 mm. (See figure 4)
 - 1 Indoor unit
 - 2 Ceiling
 - 3 Sealing material
 - 4 Decoration panel
 - 5 Air outlet

Precautions

- Improper tightening of the screws (See figure 5) may cause air to leak into the unit and between the ceiling and the decoration panel (1), resulting in formation of contamination (2) and dew (3).
- If there is a gap remaining between the ceiling and the decoration panel after tightening the screws, re-adjust the indoor unit body height. The indoor unit must be kept leveled and the drain piping kept unaffected.
- 2 Wiring of the decoration panel (See figure 6)

Make sure to turn off the power supply before wiring!

- 1 Screws (2)
- 2 Switch box
- 3 Swing flap motor lead wire
- 4 Swing flap motor lead wire fixed by tie wrap to the rest of the wires (See detail in figure 6)
- 5 Connector of the indoor unit PCB (X36A)
- 6 Tie wrap
- Remove the electric components box lid. Loosen 2 screws and slide the electric components box lid in the direction of the arrows.
- 2 Securely connect the connector of swing flap motor lead wire installed on the decoration panel. Attach the swing flap motor lead wire to the rest of the wires firmly by tie wrap (from indoor unit accessory set). (See figure 6)
- 3 Replace the electric components box lid reversing the procedure to remove it.



Make sure that the swing flap motor lead wire is not caught between the indoor unit and the decoration panel and inbetween the electric component box lid.

Installation of the suction grille to decoration panel

Install the suction grille (See figure 7)

- 1 Decoration panel
- 2 Suction grille
- 3 Suction grille hinge (attached to decoration panel)
- **1** Remove the transportation tape which is securing 2 suction grille hinges in place.
- 2 Attach the suction grille to hinges by pressing the hinge and inserting both ends of hinge to holes on the suction grille. (See figure 7)
- **3** Make sure that the suction grille is attached to the decoration panel properly by 2 hinges.
- 4 Close the suction grille by reversing the procedure shown in "Preparing the decoration panel for installation" on page 1.
- The suction grille may be installed in 4 directions by simply turning it 90 degrees.
- Change the direction when adjusting the direction of the suction grille of multiple units or to comply with the demands of the customer.

12.8 <BRC1E73> Wired Remote Controller

1. Safety Considerations

The original instructions are written in English. All other languages are translations of the original instructions.

All phases of the field-installation, including, but not limited to, electrical, piping, safety, etc. must be in accordance with manufacturer's instructions and must comply with national, state, provincial and local codes.

Read these SAFETY CONSIDERATIONS carefully before installing the remote controller.

After completing the installation, ensure that the remote controller operates properly during the startup operation.

Train the customer to operate and maintain the remote controller. Inform customers that they should store this Installation Manual with the Operation Manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in electrical shock, fire, or explosion.

Meanings of WARNING, CAUTION, and NOTE Symbols.

WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
NOTE	Indicates situations that may result in equipment or property-damage accidents only.

Only qualified personnel must carry out the installation work.

Consult your Daikin dealer regarding relocation and reinstallation of the remote controller. Improper installation work may result in electric shocks or fire.

Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual.

Improper installation may cause electrical shocks or fire.

Use only specified accessories and parts for installation work.

Failure to use specified parts may result in electric shocks, fire, or the unit falling.

Do not disassemble, reconstruct, or repair.

Electric shock or fire may occur.

Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires.

Improper connections or installation may result in fire.

Before touching electrical parts, confirm the power-off to the unit.

Kee	ep water out of the remote controller.	
To a Do	avoid electric shock due to entry of water or insects, fill the wiring through-hole with putty. not wash the remote controller with water as it may result in electrical shocks or fire.	
Do	not touch the remote controller buttons with wet fingers.	
Tou	ching the buttons with wet fingers can cause an electric shock.	
Do	not install the remote controller in the following locations:	
(a)	Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate.	
(b)	Where corrosive gas, such as sulfurous acid gas, is produced.	
(C)	Near machinery emitting electromagnetic waves.	
	Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.	
(d)	Where flammable gas may leak, where there is carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled.	
	Operating the unit in such conditions can cause a fire.	
(e)	High temperature area of direct flame.	
(f)	Overnealing and/or life Call occur.	
(1)	it may cause electric shock and electrical components may fail.	
	▲ NOTE	
Inst	tall the control wires for the indoor and the remote controller at least 3.5 feet (1 meter) away from	
tele	evisions or radios to prevent image interference or noise. Depending on the radio waves, a	
dist	tance of 3.5 feet (1 meter) may not be sufficient to eliminate the noise	

When remote controller's temperature sensor is used, select the installation location as per the following:

- A place where average temperature in the room can be detected.
- A place where it is not exposed to direct sunlight.
- A place where it is far away from any heat source.
- A place where it is not affected directly by outside air.

2. Accessories

The following accessories are included.



3. Remote Controller Installation Procedure

3-1 Determine where to install the remote controller.

Make sure to follow the Safety Considerations when determining the location.

3-2 If the control wire for the remote controller is to be routed from the rear, consider the location of the access hole in the lower case for making a hole in the wall.



3-3 Remove upper case.

4

Insert a screwdriver in the recess of lower case to remove the upper case (2 points).





Cut the plastic at the notched area and remove any remaining burrs.

Cut the plastic at the notched area and remove any remaining burrs.

3-5 Install wiring.

- 1. Switch box and control wiring are filed supplied.
- 2. Do not touch the remote controller printed-circuit board.

Wiring Specifications

Wiring Type	Non-shielded, 2-conductor, stranded copper wire
Wiring Size	AWG-18
Wiring Length	Maximum 1640 feet (500 m)





– 🗥 NOTE -

• To prevent electrical noise and possible communication errors, avoid installing the remote controller wiring parallel to or in the vicinity of line voltage circuits.

3-6 Installation procedure for the lower case.

When wiring the remote controller through the top center or rear access points, attachment of the wire to the lower case is required before it is wall mounted. Closely follow the wiring procedures.

3-6-1 Wall installation

Secure by using furnished drywall anchors and screws (2 pcs.).



3-6-2 Switch box installation

Secure by using field supplied machine screws (2 pcs.).



– 🗥 NOTE -

- Install the control on a flat surface only.
- To prevent deformation of the lower case, avoid over-tightening the installation screws.

3-7 Install the upper case.

- Align the upper case with tabs of the lower case (6 points), insert and install the upper case.
- Install the wiring with care to prevent pinching.
- Peel off the protective membrane which overlays the upper case.



4. Functions and Menu Items of Remote **Controller Buttons**

4-1 Functions and menu items



- (1) Operation mode selector button Used to change the mode.
- (2) Fan speed control button
 - Used to change the fan control.

(3) Menu/OK button

- Used to access the main menu. (For details of the main menu, see the operation manual.)
- Used to enter the item selected.

Main Menu

*Airflow Direction ***Individual Airflow Direction** *Ventilation Schedule Off Timer Celsius / Fahrenheit Filter Auto Clean Maintenance Information Configuration **Current Settings** Clock & Calendar **Daylight Saving Time** Language

*Depending on connected model

(2) Fan speed control button

(4) Up button **A**

- Used to raise the setpoint temperature.
- The previous menu items will be highlighted.
 - (The highlighted items will be scrolled continuously when the button is pressed continuously.)
- Used to change the selected item.

(5) Down button ▼

- Used to lower the setpoint temperature.
- Items below the currently selected item will be highlighted. (The highlighted items will be scrolled
 - continuously when the button is pressed continuously.)
- Used to change the selected item.

(6) Right button ►

- Used to highlight items to the right of the currently selected item.
- Display contents are changed to next screen per page.

(7) Left button ◀

- Used to highlight items to the left of the currently selected item.
- Display contents are changed to previous screen per page.

(8) On/Off button

Press once to operate, and press once again to stop.

(9) Operation lamp

Green lamp lights up during operation. The lamp will flash if a malfunction occurs.

(10) Cancel button

- Used to return to the previous screen.
- Press and hold this button for 4 seconds or longer to display service settings menu.

(11) LCD (with backlight)

The backlight will illuminate for approximately 30 seconds by pressing any operation button.

Service Settings menu

Test Operation Maintenance Contact Field Settings *Energy Saving Options Prohibit Function Min Setpoints Differential *Outdoor unit AirNet Address Error History *Indoor Unit Status *Outdoor Unit Status Forced Fan ON Switch Main Sub Controller Filter Indicator *Brush/Filter Ind. *Disable Filter Auto Clean

*Depending on connected model

- Operate the button while the backlight is illuminated.
- When one indoor unit is controlled by two remote controllers (main / sub) only the first controller to be accessed by the user will illuminate it's backlight.

4-2 Button menu display descriptions

<Service settings menu screen>



Highlighted display (selected items)

In the highlighted display (selected items) setting screen, button operation descriptions are displayed.

5. Power-on

- Check for completion of indoor/outdoor unit wiring.
- Ensure that covers have been replaced on electrical component boxes for both indoor and outdoor units prior to restoring power.
- 5-1 The following message is <Main remote controller> <Sub remote controller> displayed after power-on. 5-1 5-1 Checking the connection. Checking the connection Checking the connection Please stand by Please stand by Please stand by. When the above message is displayed, the backlight will not be Main R Main RC ON. ٦ In the case that 1 indoor Error Code U5 Error Code U5 unit is controlled by Checking the connection. Please stand by. Checking the connection. Please stand by. 2 remote controllers: Make sure to set the sub remote Main RC Main RC controller when the above message is displayed. Hold Mode $\overline{}$ button for 4 seconds or longer to <Basic screen> set 5-2 Press and hold 4 seconds When the display is changed from or longer Mode button of "Main RC" to "Sub RC" the setting Fan sub remote controller side is completed. de. Checking the connection Please stand by 5-2 Basic screen is displayed. Sub RC - NOTE -If sub remote controller is not set at power-on in the case of one indoor unit controlled by two remote controllers, <Basic screen> Error Code: U5 is displayed in the connection checking 5-2 screen. Fan Select the sub remote controller by pressing Mode 2 button of either one of the remote controllers for 4 seconds or longer. If the basic screen is not displayed in 2 minutes after the "Sub RC" is displayed, shut off the power supply and check the wiring. NOTE When selecting a different language, refer to Chapter 12. Language. (See page 22.)



6-6 Press Menu/OK button. Setting confirmation screen is displayed. <Setting confirmation screen> 6-7 Select Yes and press Menu/OK 6-6 Field Settings button. Setting details are Save the settings? 6-7 determined and field settings Yes No screen returns. Setting 6-8 In the case of multiple setting changes, repeat "6-3" to "6-7". 6-9 After all setting changes are com-Press Menu/OK button. pleted, press Cancel button Ĺ ٦, twice. Setting confirmation 6-10 Backlight goes out, and [Checking the connection. Please stand by.] is displayed for initialization. After the initialization, the basic screen returns. NOTE • Installation of optional accessories on the indoor unit may require changes to field settings. See the manual of the optional accessory. • For field setting details related to the indoor unit, see installation manual shipped with the indoor unit.
No. Code	ote 1) No.	2 (20)	ے ۔ م	; (22) 2	~	m	-10	5	12	13	4	15	1e 2
Description	-	Priority of thermistor sensors for space temperature control	Room temperature value reported to multizone controllers	Thermo-on/off deadband (Note 4)	Thermistor sensor for auto changeover and setback control by the remote controller	Access permission level setting	Remote controller thermostat offset (Main RC, Auto mode) (Note 5)	Remote controller thermostat offset (Sub RC, Auto mode) (Note 5)	Remote controller thermostat offset (Main RC, Cool mode) (Note 5)	Remote controller thermostat offset (Main RC, Heat mode) (Note 5)	Remote controller thermostat offset (Sub RC, Cool mode) (Note 5)	Remote controller thermostat offset (Sub RC, Heat mode) (Note 5)	Setback availability
	01	The return air thermistor is primary and the remote controller thermistor is secondary.	Return air thermistor	2F (1C)	Utilize the return air thermistor	Level 2	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	N/A
	02	The remote controller thermistor is not utilized. Only the return air thermistor will be utilized.	Thermistor designated by 10-2 above (Note 3)	1F (0.5C)	Utilize the remote controller thermistor	Level 3	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	Heat only
(Iter	03	Only the remote controller thermistor will be utilized.	I	Ι	I	Ι	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	Cool only
erus in bolo	04	I	Ι	I	I	I	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	Cool/ Heat
lare facto	05	I	I	I	I	I	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	I
o. (Note ∠ ry default	06	I	I	I	I	1	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	I
:) settings)	07	I	I	I	I	1	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	I
	08	I	I	I	I	I	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	I
	60		I	1	1	1	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	
	10		I	I	I	1	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	
	11	I	I	I	I	I	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	I
	12	I	I	I	I	I	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	I
	13	I	Ι	I	I		5.4F (3.0C	5.4F (3.0C	5.4F (3.0C)	5.4F (3.0C	5.4F (3.0C	5.4F (3.0C)	Ι

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- Notes) 1. Field settings are normally applied to the entire remote control group, however if individual indoor units in the remote control group require specific settings or for confirmation that settings have been established, utilize the mode number in parenthesis.
 - 2. Any features not supported by the connected indoor unit will not be displayed.
 - 3. When mode 10-2-01 is selected, only the return air temperature value is reported to the multizone controller.
 - 4. The actual default deadband value will depend upon the indoor unit model.
 - If different offset values are set for cooling and heating modes, the following issues may occur in auto operation mode:
 - The indoor unit may switch more frequently between cooling/heating modes
 - The indoor unit may switch less frequently between cooling/heating modes
 - Setback on/off may happen more frequently
 - Setback on/off may happen less frequently

To avoid these issues, set the offset values for auto mode.

7. Test Operation

Also see installation manuals furnished with the indoor unit and the outdoor unit.

- Verify that the wiring of the indoor unit and the outdoor unit is completed.
- Ensure that covers have been replaced on electrical component boxes for both indoor and outdoor units prior to restoring power.
- After refrigerant piping, drain piping and electric wiring are completed, clean inside of the indoor unit and decorative panel.
- Perform the test operation according to following procedure.
- To protect the compressor, apply power to the outdoor unit at least 6 hours prior to test operation.
- Set the remote controller display mode to standard or detailed display mode. Refer to Operation Manual for the setting method.

- Notes for backlight -

- The backlight will be ON for 30 seconds by pressing any button.
- The initial push of the button will only turn on the backlight. While the backlight is turned on, the buttons assigned functionality will be available.
- **7-1** Set the operation mode to cooling by using the remote controller.
- **7-2** Press and hold **Cancel** button for 4 seconds or longer. Service settings menu is displayed.
- **7-3** Select **Test Operation** in the service settings menu, and press **Menu/OK** button. Basic screen returns and message "Test Operation" is displayed at the bottom.

<Basic screen>



- **7-4** Press **On/Off** button within 10 seconds, and the test operation starts. Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool regardless of the temperature setpoint and room temperature.
 - * Note) In the case of above-men-

tioned procedures 7-3 and

7-4 in reverse order, test operation can start as well.

- **7-5** Press **Menu/OK** button in the basic screen. Main menu is displayed.
- 7-6 In the case of a model having airflow direction function, select
 Airflow Direction in the main menu and check that airflow direction is actuated according to the setting. For operation of airflow direction setting, see the operation manual.
- **7-7** After the operation of airflow direction is confirmed, press **Menu/OK** button. Basic screen returns.
- 7-8 Press and hold Cancel button for 4 seconds or longer in the basic screen.
 Service settings menu is displayed.
- 7-9 Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and normal operation is conducted.
 * Note) The test operation will automatically finish in 30 minutes.
- **7-10** Check the functions according to the operation manual.
- **7-11** When the decorative panel is not installed, shut off the power supply after the test operation finishes.
- If construction activities are planned within the space following the test operation procedure, recommend to the customer that the indoor unit is not operated to prevent contamination from paints, drywall dust and other airborne materials.



- If operation is not possible due to a malfunction, refer to following Failure diagnosis method .
- After the test operation finishes, check whether the error code history is displayed on the maintenance information screen of the main menu according to the following procedure.
- 7-12 Press Menu/OK button in the basic screen. Main menu screen is displayed.
- 7-13 Select Maintenance Information in the main menu, and press Menu/OK button.
- **7-14** Maintenance information screen is displayed. Check whether the error code history is displayed on the screen.
 - * If no error code history is displayed following this procedure the system has normally completed the test operation mode.
- 7-15 If the error code history is displayed, conduct the failure diagnosis referring to <Error code list> in the installation manual of the indoor unit.
 After the failure diagnosis finishes, press and hold On/Off button for 4 seconds or longer in the maintenance information screen to erase the error code history.

Failure diagnosis method

- Whenever the remote controller display is blank or displays [Checking the connection. Please stand by.], troubleshoot the system with the items in the Description column of the following table.
- If an error occurs, CODE is displayed on the LCD as shown to the right. Conduct the failure analysis referring to <Error code list> in the installation manual of the indoor unit. When the unit No. which detected the error during group control is confirmed, refer to Chapter 8: Procedure

for Checking Error History.





Remote controller display	Description
No display	 Power outage, power voltage error or open-phase Incorrect wiring (between indoor and outdoor units) Indoor printed-circuit board assembly failure Remote controller wiring not connected Remote controller failure Open fuse or tripped circuit breaker (outdoor unit)
Checking the connection. Please stand by. *	 Indoor printed-circuit board assembly failure Wrong wiring (between indoor and outdoor units)

* [Checking the connection. Please stand by.] will be displayed for up to 90 seconds following the application of power to the indoor unit. This is normal and does not indicate a malfunction.

8. Procedure for Checking Error History

- 8-1 Press and hold **Cancel** button for 4 seconds or longer in the basic screen. Service settings menu is displayed.
- **8-2** Select **Error History** in the service settings menu, and press **Menu/OK** button. The error history menu screen is displayed.
- **8-3** Select **RC Error History** in the error history menu, and press **Menu/OK** button. Error codes and unit No. can be

confirmed in the RC error history screen.

- **8-4** In the error history, the 10 most recent items are displayed in order of occurrence.
- **8-5** Press **Cancel** button in the RC error history screen 3 times. The basic screen returns.









12.9 <BRC082A43> Wireless Remote Controller

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1. SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

Meaning of warning, caution and note symbols.

▲ WARNING Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 ▲ CAUTION Indication a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices.
 ▲ NOTE Indication situation that may result in equipment or property-damage-only accidents.

-/! warning-

 Perform installation work in accordance with this installation manual.

Improper installation may result in electric shocks or fire.

- Be sure to use only the specified accessories and parts for installation work.
- Failure to use the specified parts may result in, electric shocks, fire or the unit falling.
- Before touching electrical parts, turn off the unit.
- Do not touch the switch with wet fingers.
- Touching a switch with wet fingers can cause electric shock.

- Refer also to the installation manuals attached to the indoor unit and the decoration panel.
- Confirm that the following conditions are satisfied prior to installation. Ensure that nothing interrupts the operation of the wireless

remote controller. (Ensure that there is neither a source of light nor fluorescent lamp near the receiver. Also, ensure that the receiver is not exposed of direct sunlight.)

Ensure that the operation display lamp and other indicators are easy to see.

- The installation position of this receiver is one corner of the decoration panel. Therefore, confirm that its position is set so that the signal from the wireless remote controller can be easily transmitted and its display can be easily seen.
- If both this kit and fresh air intake kit are installed, only one duct chamber shall be used. Refer to the installation manual of the fresh air intake kit (optional hand book).

2. BEFORE INSTALLATION

2-1 ACCESSORIES

Check if the following accessories are included with the unit.

Name	(1) Receiver	(2) Wireless remote controller	(3) Remote controller holder	
Quantity	1 pc.	1 pc.	1 pc.	
Shape				
Name	(4) Dry cell battery LR03 (AM4)	(5) Unit No. label	(6) Screw for install- ing remote con- troller holder	
Quantity	2 pcs.	1 pc.	2 pcs.	
Shape	0	1 2 3 1 2 3 1 2 3	M3.5	

Name	(7) Mounting screw (Black)	(8) Mounting screw	(9) Paper pattern printing	
Quantity	2 pcs.	2 pcs.	1 pc.	
Shape	M4	M5	3-15/16x1-15/16 (in.)	

Name	(10) Winged bar	(11) Operation manual	(12) Installation manual	
Quantity	1 pc.	1 pc.	1 pc.	
Shape		\bigcirc	\bigcirc	

2-2 NOTE TO THE INSTALLER

Be sure to instruct the customer how to properly operate the system showing him/her the attached operation manual.

3. REMOTE CONTROLLER INSTALLATION <Installing wireless remote controller>

 Do not throw the remote controller or impose large shocks. Also, do not store where it may be exposed to moisture or direct sunlight.

- When operating, point the transmitting part of the remote controller in the direction of the receiver.
- The direct transmitting distance of the remote controller is approximately 23 ft..
- The signal cannot be transmitted if something such as curtains blocks the receiver and the remote controller.
- Installing to a wall or a pillar
 - 1. Fix the remote controller holder (3) with the screws (6).
 - 2. Slide the remote controller (2) into the remote controller holder (3) from the top.
- How to put the dry cell batteries
 - 1. Remove the back cover of the remote controller (2) to the direction pointed by the arrow mark.
 - Put the dry cell batteries. Use two LR03<AM4> dry cell batteries (4). Put the dry cell batteries (4) correctly to fit their (+) and (-).
 - 3. Close the back cover as before.

4. RECEIVER INSTALLATION

- Do not install more than 3 receivers in the vicinity of one another.
- With 4 or more units, there is always the possibility of malfunction.

4-1. Preparations before installation

- Remove the upper part of the receiver (1).
- Insert the screwdriver (-) here and gently work off the upper part of the receiver (1).

Upper par



4-2. Determination of address and MAIN/SUB remote controller

If setting multiple wireless remote controllers to operate in 1 room, perform address setting for the receiver and the wireless remote controller. If setting multiple wired remote controllers in 1 room, change the MAIN/SUB switch of the receiver.

4-3. Setting procedure

Setting the receiver

Set the wireless address switch (SS2) on the PC-board according to the table below.



Change the setting so that the internal electronic equipments are not damaged with a pen etc.

When using both a wired and a wireless remote controller for 1 indoor unit, the wired controller should be set to MAIN. Therefore, set the MAIN/SUB switch (SS1) of the receiver to SUB.

	MAIN	I SUB
MAIN SUB switc (SS1	l/ hs	M S

4-4. Receiver installation

—/! WARNING-

Be sure to turn off the power before installation.

<Precautions on transmission wiring>

- 1. When wiring, run the wiring away the power supply wiring in order to avoid receiving electric noise (external noise).
- 2. When wiring, refer to the wiring diagram of indoor unit (attached to indoor unit) as well.

WIRING SPECIFICATION

Wiring type	Sheathed wire (2 wire)
Size	AWG18-16
Wiring length	Max 650 ft. (See Note)

Keep wires to less than 650 ft. total when using 2 remote controllers (wired or wireless) and when not.



pressing the wings inward to fit the hole and then by pushing from the screws (8) until it sits flat on the ceiling.



• Tighten the screws (8) until the lower part is fixed in place.



(Tighten both screws (8) evenly. Overtightening may deform the case and possibly make it harder to install the upper part.)

parts are facing in the correct direction. After installation,

Neither of the terminals is polarized, so it is not important if connections are crossed.)

- 2. Fix the lower part.
 - Install the lower part on the control box (field supplied part). (Select as flat a place as possible to install the lower part. Also, be aware of the fact that overtightening the screws (7) may deform the case and possibly make it harder to install the upper part.)





5. FIELD SETTING

If optional accessories are mounted on the indoor unit, the indoor unit setting may have to be changed. Refer to the instruction manual (optional hand book) for each optional accessory.



Procedure

- (1) When in the normal mode, press the " <a>[

 " but-
ton for at least 4 seconds, and the FIELD SET MODE is entered.
- (2) Select the desired MODE NO. with the " MODE " button.
- (3) Push the " \triangle " button and select the FIRST CODE NO..
- (4) Push the " \sum_{DOWN} " button and select the SECOND CODE NO..
- (5) Push the" <u>RESERVE</u> "button and the present settings are set.
- (6) Push the " ₩/TEST " button to quit the FIELD SET MODE and return to the normal display.
- (Example) If the time to clean air filter is set to "Filter Contamination-Heavy", set Mode No. to "10", FIRST CODE NO. to "0", and SECOND CODE NO. to "02".

MODE NO.	FIRST CODE NO.	DESCRIPTION OF SETTING					
	0	Filter Contamination-Heavy/Light (Setting for spacing time of display time to clean air filter) (Setting for	Long-life type				
10		when filter contamination is heavy, and spacing time of display time to clean air filter is to be halved)	Standard type				
	3	Spacing time of display time to clean air filter count (Setting for when the filter sign is not to be displayed)					
12 (VRV system)	1	ON/OFF input from outside (Set to enable starting/ stopping from remote.)					
	2	Thermostat differential changeover remote controller thermostat sensor	(Set when using .)				

MODE	FIRST	SECOND CODE NO.					
NO.	CODE NO.		01		02	03	
	0	Light	Approx. 2,500 hours	Heavy	Approx. 1,250 hours		
10	0	Light	Approx. 200 hours		Approx. 100 hours	_	
	3		Display	Do	not display	_	
12	1	Force	orced OFF input		ON/OFF	_	
(VRV system)	2		2°F	1°F		_	
•							

The SECOND CODE NO. is factory set to "01". Do not use any settings not listed in the table. For group control with a wireless remote controller, initial settings for all the indoor units of the group are equal. (For group control, refer to the installation manual attached to the indoor unit for group control.)

6. TEST OPERATION

- Perform test operation according to the instructions in the installation manual attached to the indoor unit.
- After refrigerant piping, drain piping, and electric wiring, operate according to the table to protect the unit.

- 1. Refer to a malfunction code in the installation manual attached to the outdoor unit if it does not operate.
- Refer to the installation manual attached to the outdoor unit for individual operation system types.
 Some of our product types should have the power supply turned ON 6 hours before starting operation in order to electrify crank case heater.

Refer to the installation manual attached to the outdoor unit.

Order	Operation
(1)	Open gas side stop valve.
(2)	Open liquid side stop valve.
(3)	Set to cooling with the remote controller and push " ON/OFF " button to start operation.
(4)	Push" <u> 遂/TEST</u> "button twice and operate in TEST OPERA- TION MODE for 3 minutes.
(5)	Push" 🔯/TEST "button and operate normally.
(6)	Confirm its function according to the operation manual.

12.10 <BRC082A41W, BRC082A42W(S)> Wireless Remote Controller



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Field setting	5

READ THIS MANUAL ATTENTIVELY BEFORE STARTING UP THE UNIT. DO NOT THROW IT AWAY. KEEP IT IN YOUR FILES FOR FUTURE REFERENCE.

IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORTCIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO THE EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES MADE BY DAIKIN WHICH ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL. IF UNSURE OF INSTALLATION PROCEDURES

IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

The English text is the original instruction. Other languages are translations of the original instructions.

Safety considerations

Please read this "Safety considerations" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure at start up operation that the unit operates properly. Please instruct the customer how to operate the unit and how to perform maintenance.

Meaning of caution symbols

Failure to observe these instructions properly may result in property damage or personal injury.

Information classified as **NOTE** contains instructions to ensure proper use of the equipment.



Refer also to the installation manual supplied with the indoor unit and the installation manual supplied with the decoration panel.

- There is only 1 possible installation position of this kit into the decoration panel. It is therefore recommended that installation orientation of the decoration panel is confirmed prior to installation of this kit.
 - Ensure that nothing interrupts operation of the wireless remote controller.
 - Ensure that the signal from the remote controller can easily be transmitted.
 - Ensure that the operation display lamp and other indicator lamps can easily be seen.
 - Ensure that there is neither a source of light nor a fluorescent lamp near the receiver.
 - Ensure that the receiver is not exposed to direct sunlight.

Before installation

Accessories

See figure 1. Check if the following accessories are included with your kit.

1 Receiver

- 2 Transmitter board
- 3 Wireless remote controller
- 4 Remote controller holder
- 5 Alkaline battery of type AAA.LR03
- 6 Unit number label
- 7 Screw for installing remote controller holder
- 8 Installation manual
- 9 Operation manual
- 10 Clamp
- 11 Plastic spacer
- 12 Plastic band
- 13 Sealing

Note to the installer

Be sure to instruct the customer how to properly operate the system showing him/her the supplied operation manual.

Remote controller installation

Installing the wireless remote controller

- Do not throw the remote controller or subject it to powerful shocks and do not store the remote controller where it may be exposed to moisture or direct sunlight.
- When operating, point the transmitting part of the remote controller in the direction of the receiver.
- The direct transmitting distance of the remote controller is approximately 23ft (7m).
- The signal cannot be transmitted if something such as curtains blocks the receiver and the remote controller.

Installing to a wall or a pillar

- 1 Turn on all the fluorescent lamps in the room, if any, and find a location where the remote controller signals are properly received by the indoor unit (within 23ft (7m)).
- 2 Fix the remote controller holder with the supplied screws.



3 Mount the remote controller on to the hook of the remote controller holder and then push it toward the wall.



How to insert the batteries

1 Slide the back cover to take it off.



2 Insert 2 dry batteries AAA. LR03 (alkaline).



3 Replace the back cover.

Determination of address and MAIN/SUB remote controller

- If setting multiple wireless remote controllers to operate in one room, perform address setting for the receiver and the wireless remote controller.
- If using both a wired remote controller and a wireless remote controller with one indoor unit, change the MAIN/ SUB switch of the transmitter board.

Setting procedure

Setting the transmitter board

Set the wireless address switch (SS2) on the transmitter board according to the table below.



When using both a wired and a wireless remote controller for 1 indoor unit, the wired controller should be set to MAIN. Therefore, set the MAIN/SUB switch (SS1) of the transmitter board to SUB.

	MAIN	SUB
MAIN/SUB switch (SS1)	≥ S	N N N

Setting the address of the wireless remote controller

(See figure 3)

- A Field Set mode
- B Address (is factory set to " ! ")
- C Display setting

Setting from the remote controller

- 1 Hold down the ∰ button and the ₩/TEST button for at least 4 seconds to enter the Field Set mode. (Indicated in the display area in the figure.)
- 2 Press the & FAN button and select an appropriate display setting (%b). Each time the button is pressed the display switches between " β " and " b ". Refer to "Display setting %b" on page 3 for full comprehension of this feature.
- 3 Press the \triangle button and $\sum_{i=1}^{i}$ button to set the address.

$$rac{}{}^{\rightarrow}1 \longrightarrow 2 \longrightarrow 3 \longrightarrow 4 \longrightarrow 5 \longrightarrow 6 \longrightarrow$$

Address can be set from 1 to 6, but set it to 1-3 and to same address as the receiver. (The receiver does not work with address 4-6.)

- 4 Press the RESERVE button to confirm the setting.
- 5 Press the ₩/TEST button to quit the Field Set mode and to return to normal display again.

Display setting 8/b

The wireless remote controller has 2 possible display settings.

The standard setting R permanently indicates all operational items whereas the multi system display setting b indicates operations for a limited period of time after execution of settings only.

In case the target indoor unit is simultaneously being controlled;

- by another unit in group control,
- by a wired remote controller,
- by a centralized remote controller.

the indoor unit sometimes does not respond to ON/OFF and temperature setting commands from the wireless remote controller.

In order not to confuse the customer with possible discrepancies between the wireless remote controller display and the actual operation state of the indoor unit, it is recommended to set the display on the wireless remote controller to b in such a control configuration. Check what setting the customer prefers and adjust the

display setting accordingly.

Display setting	Remote controller display	Result of the display setting in case the target indoor unit is simultaneously being controlled by more than 1 device
R: standard	All operational items are permanently displayed.	In the operation mode changeover, temperature setting or the like are carried out from the wireless remote controller, the indoor unit rejects the instruction. (Signal receiving sound, 1 long beep or 3 short beeps) As a result, a display discrepancy between the operation state of the indoor unit and the indication on the wireless remote controller display occurs.
δ: multi system	Operations only remain displayed for a short time after execution of the commands.	Since the indications on the wireless remote controller are turned off, a discrepancy such as described above no longer occurs.

Affix the unit number label

Affix corresponding unit number labels onto both air outlet of the decoration panel and onto back of the wireless remote controller.



NOTE Set the Unit No. of the receiver and the wireless remote controller to be equal. If the settings differ, the signal from the remote controller cannot be transmitted.

Installation of the transmitter board

(See figure 2)

- 1 Electrical wiring box cover
- 2 Transmitter board
- 3 Shorter wire harness
- 4 Longer wire harness
- 5 Clamp
- 6 Electrical wiring box
- 7 Plastic spacer
- 1 Cut off the power supply.
- 2 Remove the electrical wiring box cover as described in the installation manual supplied with the indoor unit.
- 3 Attach four plastic spacers (7) to the transmitter board (2) and install it in the electrical wiring box (6).
- 4 Connect the shorter wire harness from the X2A connector on transmitter board (2) to X24A connector on the printed circuit board in the electrical wiring box of indoor unit. Lay down the shorter wire harness as shown in the figure 2.
- 5 When the receiver is installed bring the longer wire harness to the electrical wiring box of indoor unit and connect it to X1A connector on the transmitter board.
- 6 Clamp the wire harness by the clamp (5) as shown in the figure 2.

Installation of the decoration panel

Install the decoration panel as described in the installation manual supplied with the decoration panel.

NOTE Make sure that the wire harness (longer one) from the transmitter board is not caught between the indoor unit and the decoration panel, and between the ceiling and the decoration panel. The installation process of the receiver depends on used decoration panel.

Installation of the receiver in case of BRC082A41W

- 1 Remove the suction grille as described in the installation manual supplied with the decoration panel.
- 2 Detach the brand name plate part of the decoration panel piece, before attaching the decoration panel. This part is not needed hereafter.
- 3 Remove the electrical wiring box cover as described in the installation manual supplied with the indoor unit. (Be sure to turn off power, before removing the electrical wiring box cover.)



4 Pass the wire harness from the receiver through the wiring hole of the decoration panel. Then attach the receiver to the decoration panel. Lead the wire harness to the electrical wiring box on the indoor unit and connect it to X1A connector on the transmitter board.



4



Installation of the receiver in case of BRC082A42W/S

- 1 Remove the suction grille as described in the installation manual supplied with the decoration panel.
- 2 The receiver (1) should be installed in the corner that is surrounded by 2 square marks on one side and 1 square mark on the other, as shown in the illustration. Then remove the plastic corner cover.



3 Break off the plastic cover from back side of the panel.





Field setting

If optional accessories are mounted on the indoor unit, the indoor unit setting may have to be changed. Refer to the instruction manual (option handbook) for each optional accessory.

(See figure 4)

- A Mode No.
- B Field Set mode
- C First code No.
- D Second code No.

Procedure

- 1 When in normal mode, hold down the ₩/TEST button for at least 4 seconds to enter the Field Set mode.
- 2 Select the desired Mode No. with the MODE button.
- **3** Press the \triangle_{up} button and select the First code No.
- 4 Press the 💭 button and select the Second code No.
- 5 Press the RESERVE button to confirm the settings.
- 6 Press the ₩/TEST button to quit the Field Set mode and to return to normal display again.

Example

If the time to clean air filter is set to "Filter Contamination-Heavy", set Mode No. to "30", First code No. to "30", and Second code No. to "32".

Mode	First	Description of setting				Second	code No.	
No.	No.	Description of setting		0	11	6	2	03
ю	0	Sets operation time until AIR FILTER CLEANING TIME INDICATOR lamp lights up. (When dirt and dust levels are high, change the setting to "Filter Contamination-Heavy".)	Long-life filter	Light	±2,500 hrs.	Heavy	±1,250 hrs.	_
	3	Changes AIR FILTER CLEANING TIME INDICATOR lamp on/off settings.		С	Dn	C	Off	_
	0	Setting air outlet velocity. This setting is to be changed in function height (H).	of ceiling	≤8- (≤2	7/8ft .7m)	8-7/8 <h⊴ (2.7<h< td=""><td>≨9-13/16ft ≤3.0m)</td><td>9-13/16<h≤11-1 2ft<br="">(3.0<h≤3.5m)< td=""></h≤3.5m)<></h≤11-1></td></h<></h⊴ 	≨9-13/16ft ≤3.0m)	9-13/16 <h≤11-1 2ft<br="">(3.0<h≤3.5m)< td=""></h≤3.5m)<></h≤11-1>
в	;	Selection of air flow direction. This setting is to be changed when bloc optional kit is used.	king pad	4-wa <u>y</u>	y flow	3-wa	y flow	2-way flow
	ч	Airflow direction range setting. This setting is to be changed when rang flap movement needs to be changed.	e of swing	Up	per	Med	lium	Lower

NOTE

Factory settings of the Second code No. are marked in grey backgrounds.

Do not use any settings not listed in the table.

For group control with a wireless remote controller, initial settings for all the indoor units of the group are equal. (For group control, refer to the installation manual supplied with the indoor unit for group control.)

13. Operation Manual 13.1 FTXR

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

Read the precautions in this manual carefully before operating the unit.

Read these **Safety Considerations for Operations** carefully before operating an air conditioner or heat pump. Make sure that the unit operates properly during the startup operation. Instruct the user on how to operate and maintain the unit. Inform users that they should store this operation manual with the installation manual for future reference. Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

A DANGER ·······	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
<u>∧</u> NOTE	Indicates situations that may result

accidents only.
 DANGER
 Do not install the unit in an area where flammable

in equipment or property damage

- materials are present due to risk of explosion resulting in serious injury or death.
- Any abnormalities in the operation of the air conditioner or heat pump, such as smoke or fire, could result in severe injury or death. Turn off the power and contact your dealer immediately.
- Refrigerant gas may produce toxic gas if it comes into contact with fire, such as from a fan heater, stove, or cooking device. Exposure to this gas could cause severe injury or death.
- For refrigerant leakage, consult your dealer. Refrigerant gas is heavier than air and replaces oxygen. A massive leak could lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- If equipment utilizing a burner is used in the same room as the air conditioner or heat pump, there is the danger of oxygen deficiency which could lead to an asphyxiation hazard resulting in serious injury or death. Be sure to ventilate the room sufficiently to avoid this hazard.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
- Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death by suffocation.

- Contact your dealer for repair and maintenance. Improper repair and maintenance may result in water leakage, electric shock, and fire. Only use accessories made by Daikin that are specifically designed for use with the equipment and have them installed by a professional.
- Contact your dealer to move and reinstall the air conditioner or heat pump. Incomplete installation may result in water leakage, electric shock, and fire.
- Never let the indoor unit or the remote controller get wet. Water can cause an electric shock or a fire.
- Never use flammable spray such as hair spray, lacquer, or paint near the unit. Flammable spray may cause a fire.
- When a fuse blows out, never replace it with one of incorrect ampere ratings or different wires. Always replace any blown fuse with a fuse of the same specification.
- Never remove the fan guard of the unit. A fan rotating at high speed without the fan guard is very dangerous.
- Never inspect or service the unit by yourself. Contact a qualified service person to perform this work.
- Turn off all electrical power before doing any maintenance to avoid the risk of serious electric shock; never sprinkle or spill water or liquids on the unit.
- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- The heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins while working around them.
- Do not put a finger or other objects into the air inlet or air outlet. The fan is rotating at high speed and will cause injury.
- Check the unit foundation for damage on a continuous basis, especially if it has been in use for a long time. If left in a damaged condition the unit may fall and cause injury.
- Placing a flower vase or other containers with water or other liquids on the unit could cause a shock or fire if a spill occurs.
- Do not touch the air outlet or horizontal blades while the swing flap is in operation because fingers could get caught and injured.
- Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. To check and adjust internal parts, contact your dealer.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- · Be aware that refrigerants may not contain an odor.

- Do not use the air conditioner or heat pump for any other purposes other than comfort cooling or heating.
 Do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- Do not place items under the indoor unit as they may be damaged by condensates that may form if the humidity is above 80% or if the drain outlet gets blocked.
- Before cleaning, stop the operation of the unit by turning the power off or by pulling the supply cord out from its receptacle. Otherwise, an electric shock and injury may result.
- Do not wash the air conditioner or heat pump with excessive water. An electric shock or fire may result.
- Avoid placing the controller in a spot which may be splashed with water. Water entering the controller may cause an electric shock or damage the internal electronic parts.
- Do not operate the air conditioner or heat pump when using a room-fumigation type of insecticide.
 Failure to observe this could cause the chemicals to be deposited in the unit and can endanger the health of those who are hypersensitive to chemicals.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- The appliance is not intended for use by young children or infirm persons without supervision.
- The remote controller should be kept away from children so they cannot play with it.
- Consult with the installation contractor for cleaning.
- Incorrect cleaning of the inside of the air conditioner or heat pump could make the plastics parts break and cause water leakage or electric shock.
- Do not touch the air inlet or aluminum fin of the air conditioner or heat pump as they can cut and cause injury.
- Do not place objects in direct proximity of the outdoor unit. Do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, animals can cause the unit to malfunction, and cause smoke or fire when they make contact with electrical parts.

— 🥂 NOTE -

- Never press the button of the remote controller with a hard, pointed object. The remote controller may be damaged.
- Never pull or twist the electric wire of the remote controller. It may cause the unit to malfunction.
- Do not place appliances that produce open flames in places that are exposed to the airflow of the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.
- Do not expose the controller to direct sunlight. The LCD display can become discolored and may fail to display the data.

- Do not wipe the controller operation panel with benzine, thinner, chemical dust cloth, etc. The panel may get discolored or the coating can peel off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Then wipe it with another dry cloth.
- Dismantling of the unit, disposal of the refrigerant, oil, and additional parts, should be done in accordance with the relevant local, state, and national regulations.
- Operate the air conditioner or heat pump in a sufficiently ventilated area and not surrounded by obstacles. Do not use the air conditioner or heat pump in the following places.
- a. Places with a mist of mineral oil, such as cutting oil.
- b. Locations such as coastal areas where there is a lot of salt in the air.
- c. Locations such as hot springs where there is a lot of sulfur in the air.
- d. Locations such as factories where the power voltage varies a lot.
- e. In cars, boats, and other vehicles.
- f. Locations such as kitchens where oil may splatter or where there is steam in the air.
- g. Locations where equipment produces electromagnetic waves.
- h. Places with an acid or alkaline mist.
- i. Places where fallen leaves can accumulate or where weeds can grow.
- Take snow protection measures. Contact your dealer for the details of snow protection measures, such as the use of a snow protection hood.
- Do not attempt to do electrical work or grounding work unless you are licensed to do so. Consult with your dealer for electrical work and grounding work.
- Pay attention to operating sound. Be sure to use the following places:
 - Places that can sufficiently withstand the weight of the air conditioner or heat pump yet can suppress the operating sound and vibration.
 - b. Places where warm air from the air outlet of the outdoor unit or the operating sound of the outdoor unit does not annoy neighbors.
- Make sure that there are no obstacles close to the outdoor unit. Obstacles close to the outdoor unit may drop the performance of the outdoor unit or increase the operating sound of the outdoor unit.
- Consult your dealer if the air conditioner or heat pump in operation generates unusual noise.
- Make sure that the drainpipe is installed properly to drain water. If no water is discharged from the drainpipe while the air conditioner or heat pump is in the cooling mode, the drainpipe may be clogged with dust or dirt and water leakage from the indoor unit may occur. Stop operating the air conditioner or heat pump and contact your dealer.
- Do not spray the air conditioner unit with any deodorizers, etc. It may cause the unit to malfunction.

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Preparation Before Operation

9

Incorrect handling of batteries can result in injury from battery leakage, rupturing or heating, or lead to equipment failure. Please observe the following precautions and use safely.

- If the alkaline solution from the batteries should get in the eyes, do not rub the eyes. Instead, immediately flush the eyes with tap water and seek the attention of a medical professional.
- Keep batteries out of reach of children. In the event that batteries are swallowed, seek the immediate attention of a medical professional.
- Do not expose batteries to heat or fire. Do not disassemble or modify batteries. The insulation or gas release vent inside the battery may be damaged, resulting in battery leakage, rupturing, or heating.
- Do not damage or peel off labels on the batteries.











OMFORT AIRFLOW operation: The a	irflow direction is upward while in COOL operation, and
ccupants in the room.	function prevents cold of warm air from blowing directly on the
ITELLIGENT EYE operation: The INTE ght and left airflow direction to avoid blo an 20 minutes, the operation automatic ensor works differently depending on the	ELLIGENT EYE sensor detects human movement and adjusts the wing air directly on the person. If no one is in the room for more ally changes to energy saving operation. The INTELLIGENT EYE e situation.
INTELLIGENT EYE operation	n is useful for energy saving
■ A person is detected in area 1.	■ A person is detected in area 2.
Area 1 Area 2	Area 1 Area 2
People are detected in both areas.	■ No people are detected in the areas.
Area 1 Area 2	
Use the INTELLIGENT EYE operation in combinat with the COMFORT AIRFLOW operation.	tion The air conditioner will switch to energy saving mode after 20 minutes.
*The airflow direction may differ from the illustrated	d direction depending on the actions and movements of the people in the areas.
 Energy saving operation If no presence is detected in the room for 20 minute This operation changes the temperature by -3.6°F temperature. When the room temperature exceeds 86°F (30°C), DRY operation from the set temperature. This operation decreases the airflow rate slightly in 	es, the energy saving operation will start, and the INTELLIGENT EYE lamp goes off. (-2°C) in HEAT / +3.6°F (+2°C) in COOL / +3.6°F (+2°C) in DRY operation from the set the operation changes the temperature by +1.8°F (+1°C) in COOL / +1.8°F (+1°C) in FAN operation only.



A1)

Ŵ CAUTION

COMFORT AIRFLOW /

- Do not place large objects near the INTELLIGENT EYE sensor. Also keep heating units and humidifiers outside the sensor's detection area. This sensor can detect undesirable objects.
- Do not hit or violently push the INTELLIGENT EYE sensor. This can lead to damage and malfunction.

To start operation

Comfort / Sensor Press (@/) and select the desired mode.

- Each time (@/) is pressed, a different setting option is displayed on the LCD.
- When INTELLIGENT EYE is selected, the INTELLIGENT EYE lamp lights green.



• By selecting " 😭 🏦 " from the following icons, the air conditioner will switch to COMFORT AIRFLOW operation combined with INTELLIGENT EYE operation.

┍→ 🛣 –	→ ♣ –	→ 🛣 👫 –	blank
COMFORT AIRFLOW	INTELLIGENT EYE	Combination	No Setting

- When the flaps (horizontal blades) are swinging, selecting any of the modes above will cause the flaps (horizontal blades) to stop.
- The lamp lights when human movement is detected.

COMFORT AIRFLOW / INTELLIGENT EYE operation settings

Display	Operation mode	Explanation
	COMFORT AIRFLOW	The flaps adjust the airflow direction upward while cooling, downward while heating. Page 14
£ ³⁰	INTELLIGENT EYE	The sensor detects the movement of people in the sensing areas and the louvers adjust the airflow direction to an area where people are not present. When there are no people in the sensing areas, the air conditioner switches to the energy saving mode. Page 14
*? • # **	COMFORT AIRFLOW and INTELLIGENT EYE	The air conditioner will be in COMFORT AIRFLOW operation combined with INTELLIGENT EYE operation. Page 14
Blank	No function	-

To cancel operation

Press (m/m) until no icon is displayed.

• If the INTELLIGENT EYE operation was being used, the INTELLIGENT EYE lamp goes off.

NOTE

■ Notes on COMFORT AIRFLOW operation

- The position of the flaps will change, preventing air from blowing directly on the occupants of the room.
- POWERFUL operation and COMFORT AIRFLOW operation cannot be used at the same time.
 Priority is given to the function of whichever button is pressed last.
- The airflow rate will be set to AUTO. If the up and down airflow direction is selected, COMFORT AIRFLOW operation will be canceled.

.....

Notes on INTELLIGENT EYE operation

Application range is as follows.



• While the air conditioner is in INTELLIGENT EYE operation, the louvers adjust the airflow direction if there are people in the sensing areas of the INTELLIGENT EYE so that the leftward or rightward airflow will not be directed to the people.

If no people are detected in either area 1 or 2 for 20 minutes, the air conditioner switches to the energy saving mode with the set temperature shifted by 3.6°F (2°C).

The air conditioner may switch to the energy saving operation even if there are people in the areas.

- This may occur depending on the clothes the people are wearing, if there is no movement of the people in the areas.
- The airflow direction from the louvers will be leftward if there are people in both areas 1 and 2. The air will also flow left if there is a person right in front of the sensor as the sensor judges that there are people in both areas.
- Due to the position of the sensor, people might be exposed to the airflow of the indoor unit if they are close to the front side of the indoor unit. If there are people close to the front side of the indoor unit or in both areas, it is recommended to use the COMFORT AIRFLOW and INTELLIGENT EYE operations simultaneously. Using both modes together, the air conditioner will not direct the airflow towards the people.
- The sensor may not detect moving objects further than 23ft (7m) away. (Please see the application range.)
- Sensor detection sensitivity changes according to the indoor unit location, the speed of passers-by, temperature range, etc.
- The sensor could also mistakenly detect pets, sunlight, fluttering curtains and light reflected off of mirrors as passers-by.
- INTELLIGENT EYE operation will not switch on during POWERFUL operation.
- NIGHT SET mode Page 20 will not switch on during use of INTELLIGENT EYE operation.
- Notes on combining COMFORT AIRFLOW operation and INTELLIGENT EYE operation
 - The airflow rate will be set to AUTO. If the up and down airflow direction is selected, COMFORT AIRFLOW operation will be canceled.
 Priority is given to the function of whichever button is pressed last.
 - When the INTELLIGENT EYE sensor detects the movement of people, it adjusts the airflow direction upward (while in COOL operation) and downward (while in HEAT operation), by adjusting the flaps. When the sensor detects people, the louvers will direct the airflow in such a way that it will not be blown directly on them. If there are no people, the air conditioner will switch to energy saving operation after 20 minutes.

POWERFUL Operation



POWERFUL operation quickly maximizes the cooling (heating) effect in any operation mode. In this mode, the air conditioner operates at maximum capacity.

To start POWERFUL operation



- " 🛟 " is displayed on the LCD.
- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWERFUL operation.

To cancel POWERFUL operation



• " 🛟 " disappears from the LCD.

NOTE Notes on POWERFUL operation • Pressing 🕑 causes the settings to be canceled, and " 🛠 " disappears from the LCD. • POWERFUL operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated. - In COOL, HEAT and AUTO operation To maximize the cooling (heating) effect, the capacity of outdoor unit increases and the airflow rate becomes fixed at the maximum setting. The temperature and airflow settings cannot be changed. - In DRY operation The temperature setting is lowered by 4.5°F (2.5°C) and the airflow rate is slightly increased. - In FAN operation The airflow rate is fixed at the maximum setting. - When using priority room setting Refer to "Note for Multi System" >Page 27 Regarding the combination of POWERFUL and other operations POWERFUL + COMFORT AIRFLOW POWERFUL + ECONO Not available' POWERFUL + QUIET OUTDOOR UNIT *Priority is given to the function of whichever button is pressed last. 17



NOTE

Notes on ECONO operation

- Pressing (b) causes the settings to be canceled, and " 🏹 " disappears from the LCD.
- If the power consumption level is already low, switching to ECONO operation will not reduce the power consumption.

Notes on QUIET OUTDOOR UNIT operation

- If using a multi system, the QUIET OUTDOOR UNIT operation will work only when this function is set on all operated indoor units. However, if
- using priority room setting, refer to "Note for Multi System". Page 27
- Even if the operation is stopped by using the remote controller or the indoor unit ON/OFF switch when using QUIET OUTDOOR UNIT operation, "1 💬 " will remain displayed on the remote controller.
- QUIET OUTDOOR UNIT operation will not reduce the frequency nor fan speed if they already are operating at reduced levels.

• This operation is performed with lower power and therefore may not provide a sufficient cooling (heating) effect.

Possible combinations of ECONO / QUIET OUTDOOR UNIT operation and basic operations

	Operation mode				
	AUTO	DRY	COOL	HEAT	FAN
ECONO	✓	✓	 ✓ 	✓	-
QUIET OUTDOOR UNIT	✓	-	✓	✓	-
















Note for Multi System

A multi system has one outdoor unit connected to multiple indoor units.

Selecting the operation mode

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When more than one indoor unit is operating, priority is given to the first unit that was turned on.

In this case, set the units that are turned on later to the same operation mode as the first unit.

Otherwise, they will enter the standby state, and the multi-monitor lamp will blink; this does not indicate malfunction. Room A Room B Room B Room C Room D Room C Room C Room D Ro

NOTE

Notes on operation mode for a multi system

• COOL, DRY and FAN operation may be used at the same time.

- AUTO operation automatically selects COOL operation or HEAT operation based on the indoor temperature.
- Therefore, AUTO operation is available when selecting the same operation mode as that of the room with the first unit to be turned on.

• Normally, the operation mode in the room where the unit is first started is given priority, but the following situations are exceptions to this rule. If the operation mode of the first room is FAN operation, then using HEAT operation in any room after this will give priority to HEAT operation. In this situation, the indoor unit operating in FAN mode will switch to standby, and the multi-monitor lamp will blink.

With the priority room setting active

Refer to "Priority room setting" on the next page.

NIGHT QUIET mode (Available only for COOL operation)

NIGHT QUIET mode requires initial programming during installation. Please consult your retailer or dealer for assistance. NIGHT QUIET mode reduces the operation noise of the outdoor unit during the night-time hours to prevent annoyance to neighbors.

- NIGHT QUIET mode is activated when the temperature drops 10.8°F (6°C) or more below the highest temperature recorded that day. When the temperature difference between the current outdoor temperature and the maximum outdoor temperature becomes less than 7.2°F (4°C), this function will be canceled.
- NIGHT QUIET mode slightly reduces the cooling efficiency of the unit.

QUIET OUTDOOR UNIT operation

Refer to "QUIET OUTDOOR UNIT Operation". >Page 18

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When using the QUIET OUTDOOR UNIT operation feature with a multi system, set all indoor units to QUIET OUTDOOR UNIT operation using their remote controllers.

When canceling QUIET OUTDOOR UNIT operation, simply cancel the mode on one of the operating indoor units using their remote controller.

However QUIET OUTDOOR UNIT operation will remain displayed on the remote controllers for the other rooms. We recommend you cancel operation in all rooms using their remote controllers.

With the priority room setting active

Refer to "Priority room setting" on the next page.



COOL/HEAT mode lock

The COOL/HEAT mode lock requires initial programming during installation. Please consult your authorized dealer for assistance. The COOL/HEAT mode lock sets the unit forcibly to either COOL or HEAT operation. This function is convenient when you wish to set all indoor units connected to the multi system to the same operation mode.

NOTE

The COOL/HEAT mode lock cannot be activated together with the priority room setting.

Priority room setting (Not available on some models)

The priority room setting requires initial programming during installation. Please consult your authorized dealer for assistance. The room designated as the priority room takes priority in the following situations.

Operation mode priority

 As the operation mode of the priority room takes precedence, you can select a different operation mode from other rooms.

[Example]

• Room A is the priority room in this example.

When COOL operation is selected in room A while operating the following modes in room B, C and D:

Operation mode in room B, C and D	Status of room B, C and D when the unit in room A is in COOL operation
COOL or DRY or FAN	The current operation mode is maintained.
HEAT	The unit enters the standby mode. Operation resumes when the room A unit stops operating.
AUTO	If the unit is set to COOL operation, it continues. If the unit is set to HEAT operation, it enters the standby mode. Operation resumes when the room A unit stops operating.

Priority when POWERFUL operation is used

[Example]

• Room A is the priority room in this example.

The indoor units in rooms A, B, C and D are all operating. If the unit in room A enters POWERFUL operation, operation capacity will be concentrated in room A. In such a case, the cooling (heating) efficiency of the units in room B, C and D may be slightly reduced.

Priority when QUIET OUTDOOR UNIT operation is used

[Example]

- Room A is the priority room in this example.
- Just by setting the unit in room A to QUIET operation, the air conditioner starts QUIET OUTDOOR UNIT operation. You do not have to set all the indoor units in operation to QUIET OUTDOOR UNIT operation.









FAQ

Indoor unit

The flaps do not start swinging immediately.

• The air conditioner is adjusting the position of the flaps. The flaps will start moving soon.

The air conditioner stops generating airflow during HEAT operation.

 Once the set temperature is reached, the airflow rate is reduced and operation stopped in order to avoid generating a cool airflow. Operation will resume automatically when the indoor temperature falls.

HEAT operation stops suddenly and a flowing sound is heard.

• The outdoor unit is defrosting. HEAT operation starts after the frost on the outdoor unit has been removed. This can take about 4 to 12 minutes.

Operation does not start soon.

- When the unit is turned on again soon after being turned off.
- When the mode was reselected.
 This is to protect the air conditioner.
 - You should wait for about 3 minutes.

Different sounds are heard.

A sound like flowing water

- This sound is generated because the refrigerant in the air conditioner is flowing.
- This is a pumping sound of the water in the air conditioner and can be heard when the water is pumped out from the air conditioner during COOL or DRY operation.
- The refrigerant flows in the air conditioner even if the air conditioner is not working when the indoor units in other rooms are in operation.

Blowing sound

• This sound is generated when the flow of the refrigerant in the air conditioner is switched over.

Ticking sound

 This sound is generated when the cabinet and frame of the air conditioner slightly expand or shrink as a result of temperature changes.

Whistling sound

- This sound is generated when refrigerant flows during defrosting operation.
- Clicking sound during operation or idle time
- This sound is generated when the refrigerant control valves or the electrical parts operate.

Clopping sound

• This sound is heard from the inside of the air conditioner when the exhaust fan is activated while the room doors are closed. Open the window or turn off the exhaust fan.

Outdoor unit

Operating sound is loud.

• When frost forms on the heat exchanger of the outdoor unit, the operating sound level increases slightly.

The outdoor unit emits water or steam.

In HEAT operation

- The frost on the outdoor unit melts into water or steam when the air conditioner is in defrosting operation.
- In COOL or DRY operation
 - Moisture in the air condenses into water on the cool surface of the outdoor unit piping and drips.



Troubleshooting

Before making an inquiry or a request for repair, please check the following. If the problem persists, consult your dealer.



Not a problem This case is not a problem.



Please check again before requesting

The air conditioner does not operate

Case	Description / what to check	
Multi-monitor lamp is off.	 Has the circuit breaker been tripped or the fuse blown? Is there a power failure? Are batteries set in the remote controller? Is the timer setting correct? 	
Multi-monitor lamp is blinking.	Check the error code and consult your dealer. Page 38	

The air conditioner suddenly stops operating

Case	Description / what to check	
Multi-monitor lamp is on.	• To protect the system, the air conditioner may stop operating after sudden large voltage fluctuations. It automatically resumes operation in about 3 minutes.	
Multi-monitor lamp is blinking.	 Are the air filters dirty? Clean the air filters. Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit? Stop operation and after turning off the circuit breaker, remove the obstruction. Then restart operation with the remote controller. If the multi-monitor lamp is still blinking, check the error code and consult your dealer. Page 38 Are operation modes all the same for indoor units connected to outdoor units in the multi system? If not, set all indoor units to the same operation mode and confirm that the lamps. Moreover, when the operation mode is in AUTO, set all indoor unit operation modes to COOL or HEAT for a moment and check again that the lamps are normal. If the lamps stop blinking after the above steps, there is no malfunction. Page 27 	

The air conditioner does not stop operating

Case	Description / what to check	
	Immediately after the air conditioner is stopped	
The air conditioner continues	• The outdoor unit fan continues rotating for about another 1 minute to protect the system.	
operating even after operation is	While the air conditioner is not in operation	
stopped.	 When the outdoor temperature is high, the outdoor unit fan may start rotating to protect 	
	the system.	

The room does not cool down / warm up

Case	Description / what to check		
Air does not come out.	 In HEAT operation The air conditioner is warming up. Wait for about 1 to 4 minutes. During defrosting operation, hot air does not flow out of the indoor unit. When the air conditioner operates immediately after the circuit breaker is turned on The air conditioner is preparing to operate. Wait for about 3 to 20 minutes. 		
Air does not come out / Air comes out.	 Is the airflow rate setting appropriate? Is the airflow rate setting low, such as "Indoor unit quiet" or "Airflow rate 1"? Increase the airflow rate setting. Is the set temperature appropriate? Is the adjustment of the airflow direction appropriate? 		

Troubleshooting

The room does not cool down / warm up

Case	Description / what to check	
Air comes out.	 Is there any furniture directly under or beside the indoor unit? Is the air conditioner in ECONO operation or QUIET OUTDOOR UNIT operation? Page 18 Is the air filter dirty? Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit? Is a window or door open? Is an exhaust fan turning? 	
Mist comes out		
Case	Description / what to check	
Mist comes out of the indoor unit.	• This happens when the air in the room is cooled into mist by the cold airflow during COOL or other operation.	
Remote controller		
Case	Description / what to check	
The unit does not receive signals from the remote controller or has a limited operating range.	 The batteries may be exhausted. Replace both batteries with new dry batteries AAA.LR03 (alkaline). For details, refer to "Preparation Before Operation". Prage 9 Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type lamps) is in the room. Consult your dealer if that is the case. The remote controller may not function correctly if the transmitter is exposed to direct sunlight 	
LCD is faint, is not working, or the display is erratic.	The batteries may be exhausted. Replace both batteries with new dry batteries AAA.LR03 (alkaline). For details, refer to "Preparation Before Operation". Page 9	
Other electric devices start operating.	• If the remote controller activates other electric devices, move them away or consult your dealer.	
Air has an odor		
Case	Description / what to check	
The air conditioner gives off an odor.	• The room odor absorbed in the unit is discharged with the airflow. We recommend you to have the indoor unit cleaned. Please consult your dealer.	
Upper and lower front panel	els	
Case	Description / what to check	
Upper and lower front panels do not open. (Multi-monitor lamp is blinking.)	Is there something caught in the upper and lower front panels? Remove the object and attempt operation again using the remote controller. If the upper and lower front panels still do not open and the multi-monitor lamp is still blinking, consult your dealer where you bound the air conditioner.	
Upper front panel does not close completely.	• Are the upper front panel locks set appropriately?	
If the upper and lower front panels are closed while the air conditioner is in operation, the air conditioner will stop operating and the multi-monitor lamp will blink.	d Restart the air conditioner after stopping the operation of the air conditioner with the remote controller.	
Others		
Case	Description / what to check	
The air conditioner suddenly starts behaving strangely during operation.	The air conditioner may malfunction due to lightning or radio. If the air conditioner malfunctions, turn off the power with the circuit breaker and restart the operation with the remote controller.	
HEAT operation cannot be selected, even though the unit is heat pump model.	Check that the jumper (J8) has not been cut. If it has been cut, contact your dealer.	

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The ON/OFF TIMER does not

operate according to the settings.

 \checkmark

Check if the ON/OFF TIMER and the WEEKLY TIMER are set to the same time.

Change or deactivate the settings in the WEEKLY TIMER. Page 21

Notes on the operating conditions

 If operation continues under any conditions other than those listed in the table.

- A safety device may activate to stop the operation.
 (With a multi connection in COOL operation, the safety device may work to stop the operation of the outdoor unit only.)
- Dew may form on the indoor unit and drip from it when COOL or DRY operation is selected.
- *1 Cutting the jumper on the outdoor unit PCB will extend the cooling operation range to 14°F (-10.0°C). Installing an air direction adjustment grille (sold separately) will further extend the operation range to -4°F (-20.0°C).
- Please consult your dealer. *2 Installing a drain pan heater (sold separately) will further extend the heating operation range to -13°F (-25.0°C). Please consult your dealer.

Mode	Operating conditions			
COOL / DRY	Outdoor temperature: [MXS, MXL, MXLH models [RX models] *1 -4°F (-20°C) If an air direction adjustme installed. Indoor temperature Indoor temperature	lels]: 14 -115°F (-10 - 46°C) : 50*1-115°F (10*1 - 46°C) ment grille (sold separately) is : 64 - 90°F (18 - 32°C) : 80% max		
HEAT	Outdoor temperature: [MXS models] [MXL models] [MXLH models] [RX models] *2 -13°F (-25°C) If a drain pan heater (sold Indoor temperature	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		

Call your dealer immediately

When an abnormality (such as a burning smell) occurs, stop operation and turn off the circuit breaker.

- · Continued operation in an abnormal condition may result in problems, electric shock or fire.
- Consult the dealer where you bought the air conditioner.

Do not attempt to repair or modify the air conditioner by yourself.

- Incorrect work may result in electric shock or fire.
- · Consult the dealer where you bought the air conditioner.

If one of the following symptoms takes place, call your dealer immediately.

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The circuit breaker cuts off the operation frequently.
- A switch or a button often fails to work properly.
- There is a burning smell.
- · Water leaks from the indoor unit.



After a power failure

• The air conditioner automatically resumes operation in about 3 minutes. Please wait for a while.

Lightning

 If there is a risk lightning could strike in the neighborhood, stop operation and turn off the circuit breaker to protect the system.

Disposal requirements

• Dismantling of the unit, handling of the refrigerant, oil and other parts, should be done in accordance with the relevant local and national regulations.

Troubleshooting

The multi-monitor lamp blinks





If connecting to multiple indoor units

[Blink interval of about 2 to 3 seconds]



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Cancel

Check the operation mode of any indoor units connected in other rooms. Because this is a multi system air conditioner, it has one outdoor unit connected to multiple indoor units in different rooms. If the operation mode is different from the operation mode of the indoor unit in another room, the multi-monitor lamp may blink and operation may not be performed, or operation may stop while in progress.

COOL, DRY and HEAT operation may not be used at the same time.

[Blink interval of about 0.5 seconds]

This is a notification of an abnormality. Check the error code following the procedure below, and respond according to the instructions in the table.

Fault diagnosis by remote controller

1. When is held down for about 5 seconds, " 🖧 " blinks in the temperature display section.

2. While pointing the remote controller at the indoor unit, press cancel repeatedly.

A beep indicates a non-corresponding error code. A long beep indicates a corresponding error code.

3. When a long beep is produced, check the error code and respond according to the instructions in the table.

 To cancel the code display, hold down Cancel for about 5 seconds (the code display also clears if no button is pressed for a while).

CODE	Cause Description / what to check	
E7	The fan of the outdoor unit is stopped. • Is there any foreign matter inside the outdoor unit?	After turning off the circuit breaker, remove the foreign matter, then turn the power on again and operate.
L3, L4, L5	The temperature inside the outdoor unit has become too high, so operation has stopped. • Is there anything blocking the air outlet of the outdoor unit?	After turning off the circuit breaker, remove the obstruction, then turn the power on again and operate.
Other error codes, or if the error code cannot be checked		An abnormality has occurred.

In the case of error code U0 or F3

SYSTEM	00 UA U2 U4 A1 A5 C4 C7 C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	NORMAL INDOOR-OUTDOOR UNIT COMBINATION FAULT REFRIGERANT SHORTAGE OVER-VOLTAGE DETECTION SIGNAL TRANSMISSION ERROR (BETWEEN INDOOR AND OUTDOOR UNIT) INDOOR UNIT PCB ABNORMALITY FREEZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED OL FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
SYSTEM	UA U0 U2 U4 A1 A5 A6 C4 C7 C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	INDOOR-OUTDOOR UNIT COMBINATION FAULT REFRIGERANT SHORTAGE OVER-VOLTAGE DETECTION SIGNAL TRANSMISSION ERROR (BETWEEN INDOOR AND OUTDOOR UNIT) INDOOR UNIT PCB ABNORMALITY FREEZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
SYSTEM	U0 U2 U4 A1 A5 C4 C7 C9 EA E1 E3* E6 E6 E7 F3 F6 H0 H6	REFRIGERANT SHORTAGE OVER-VOLTAGE DETECTION SIGNAL TRANSMISSION ERROR (BETWEEN INDOOR AND OUTDOOR UNIT) INDOOR UNIT PCB ABNORMALITY FREZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	U2 U4 A1 A5 C4 C7 C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	OVER-VOLTAGE DETECTION SIGNAL TRANSMISSION ERROR (BETWEEN INDOOR AND OUTDOOR UNIT) INDOOR UNIT PCB ABNORMALITY FREZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY OL (COMPRESSOR OVERLOAD) STARTED OL (COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	U4 A1 A5 C4 C7 C7 C9 EA E1 E3* E5 E6 F7 F3 F6 H0 H6	SIGNAL TRANSMISSION ERROR (BETWEEN INDOOR AND OUTDOOR UNIT) INDOOR UNIT PCB ABNORMALITY FREEZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED OL FAN LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE SWITCH (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	A1 A5 A6 C4 C7 C9 EA E1 E3* E5 E6 E7 F3 F3 F6 H0 H6	INDOOR UNIT PCB ABNORMALITY FREEZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	A5 A6 C4 C7 C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	FREEZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	A6 C4 C7 C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	FAN MOTOR (DC MOTOR) ABNORMALITY INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	C4 C7 C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATEL COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
OUTDOOR	C7 C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	FRONT PANEL OPEN /CLOSE FAULT ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
OUTDOOR	C9 EA E1 E3* E5 E6 E7 F3 F6 H0 H6	ROOM TEMPERATURE THERMISTOR ABNORMALITY FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
OUTDOOR UNIT	EA E1 E3* E5 E6 E7 F3 F6 H0 H6	FOUR WAY VALVE ABNORMALITY OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
OUTDOOR UNIT	E1 E3* E5 E6 E7 F3 F6 H0 H6	OUTDOOR UNIT PCB ABNORMALITY HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
OUTDOOR UNIT	E3* E5 E6 E7 F3 F6 H0 H6	HIGH PRESSURE SWITCH (HPS) ACTIVATED OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
OUTDOOR UNIT	E5 E6 E7 F3 F6 H0 H6	OL (COMPRESSOR OVERLOAD) STARTED / HIGH PRESSURE SWITCH (HPS) ACTIVATED COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	E6 E7 F3 F6 H0 H6	COMPRESSOR LOCK DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	E7 F3 F6 H0 H6	DC FAN LOCK DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	F3 F6 H0 H6	DISCHARGE PIPE TEMPERATURE CONTROL HIGH PRESSURE CONTROL (IN COOLING) COMPRESSOR SYSTEM SENSOR ABNORMALITY
	F6 H0 H6	HIGH PRESSURE CONTROL (IN COOLING)
OUTDOOR UNIT	H0 H6	
	H6	
	Ho	
	H8	
	H9	
	J3	DISCHARGE PIPE THERMISTOR ABNORMALITY
	J6	OUTDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY
	L3	ELECTRICAL PARTS HEAT FAULT
	L4	RADIATION FIN TEMPERATURE RISE
	L5	OUTPUT OVERCURRENT DETECTION
_	Ē	The multi-monitor lamp is ON. If the multi-monitor lamp does not blink after operating for a while, continue to operate with no change.
	L	If the multi-monitor lamp blinks again
		Turn off the circuit breaker and call your dealer.



13.2 FDMQ

Contents

Read Before Operation	Re	ead E	Before	Ope	ration
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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

> Read the precautions in this manual carefully before operating the unit.

Read these Safety Considerations for Operations carefully before operating an air conditioner or heat pump. Make sure that the unit operates properly during the startup operation. Instruct the user on how to operate and maintain the unit. Inform users that they should store this operation manual with the installation manual for future reference. Meanings of DANGER, WARNING, CAUTION, and NOTE Symbols:

Anger	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE Indicates situations that may result in equipment or property damage accidents only.

— \land DANGER –

- Do not install the unit in an area where flammable materials are present due to risk of explosion resulting in serious injury or death.
- · Any abnormalities in the operation of the air conditioner or heat pump, such as smoke or fire, could result in severe injury or death. Turn off the power and contact your dealer immediately.
- · Refrigerant gas may produce toxic gas if it comes into contact with fire, such as from a fan heater, stove, or cooking device. Exposure to this gas could cause severe injury or death.
- For refrigerant leakage, consult your dealer. Refrigerant gas is heavier than air and replaces oxygen. A massive leak could lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- · If equipment utilizing a burner is used in the same room as the air conditioner or heat pump, there is the danger of oxygen deficiency which could lead to an asphyxiation hazard resulting in serious injury or death. Be sure to ventilate the room sufficiently to avoid this hazard.
- · Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
- · Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death by suffocation.

— \land WARNING -

- Contact your dealer for repair and maintenance. Improper repair and maintenance may result in water leakage, electric shock, and fire. Only use accessories made by Daikin that are specifically designed for use with the equipment and have them installed by a professional.
- Contact your dealer to move and reinstall the air conditioner or heat pump. Incomplete installation may result in water leakage, electric shock, and fire.
- Never let the indoor unit or the remote controller get wet. Water can cause an electric shock or a fire.
- Never use flammable spray such as hair spray, lacquer, or paint near the unit. Flammable spray may cause a fire.
- When a fuse blows out, never replace it with one of incorrect ampere ratings or different wires. Always replace any blown fuse with a fuse of the same specification.
- Never remove the fan guard of the unit. A fan rotating at high speed without the fan guard is very dangerous.
- Never inspect or service the unit by yourself. Contact a qualified service person to perform this work.
- Turn off all electrical power before doing any maintenance to avoid the risk of serious electric shock; never sprinkle or spill water or liquids on the unit.
- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- The heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins while working around them.
- Do not put a finger or other objects into the air inlet or air outlet. The fan is rotating at high speed and will cause injury.
- Check the unit foundation for damage on a continuous basis, especially if it has been in use for a long time. If left in a damaged condition the unit may fall and cause injury.
- Do not touch the air outlet or horizontal blades while the swing flap is in operation because fingers could get caught and injured.
- Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. To check and adjust internal parts, contact your dealer.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- · Be aware that refrigerants may not contain an odor.

- 🗥 CAUTION -

- Do not use the air conditioner or heat pump for any other purposes other than comfort cooling or heating.
 Do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- Do not place items under the indoor unit as they may be damaged by condensates that may form if the humidity is above 80% or if the drain outlet gets blocked.
- Before cleaning, stop the operation of the unit by turning the power off or by pulling the supply cord out from its receptacle. Otherwise, an electric shock and injury may result.
- Do not wash the air conditioner or heat pump with excessive water. An electric shock or fire may result.
- Avoid placing the controller in a spot which may be splashed with water. Water entering the controller may cause an electric shock or damage the internal electronic parts.
- Do not operate the air conditioner or heat pump when using a room-fumigation type of insecticide.
 Failure to observe this could cause the chemicals to be deposited in the unit and can endanger the health of those who are hypersensitive to chemicals.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- The appliance is not intended for use by young children or infirm persons without supervision.
- The remote controller should be kept away from children so they cannot play with it.
- Consult with the installation contractor for cleaning.
- Incorrect cleaning of the inside of the air conditioner or heat pump could make the plastics parts break and cause water leakage or electric shock.
- Do not touch the air inlet or aluminum fin of the air conditioner or heat pump as they can cut and cause injury.
- Do not place objects in direct proximity of the outdoor unit. Do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, animals can cause the unit to malfunction, and cause smoke or fire when they make contact with electrical parts.

Safety Considerations

— \land NOTE -

- Never press the button of the remote controller with a hard, pointed object. The remote controller may be damaged.
- Never pull or twist the electric wire of the remote controller. It may cause the unit to malfunction.
- Do not place appliances that produce open flames in places that are exposed to the airflow of the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.
- Do not expose the controller to direct sunlight. The LCD display can become discolored and may fail to display the data.
- Do not wipe the controller operation panel with benzine, thinner, chemical dust cloth, etc. The panel may get discolored or the coating can peel off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Then wipe it with another dry cloth.
- Dismantling of the unit, disposal of the refrigerant, oil, and additional parts, should be done in accordance with the relevant local, state, and national regulations.
- Operate the air conditioner or heat pump in a sufficiently ventilated area and not surrounded by obstacles. Do not use the air conditioner or heat pump in the following places.
 - a. Places with a mist of mineral oil, such as cutting oil.
 - b. Locations such as coastal areas where there is a lot of salt in the air.
 - c. Locations such as hot springs where there is a lot of sulfur in the air.
 - d. Locations such as factories where the power voltage varies a lot.
 - e. In cars, boats, and other vehicles.
 - f. Locations such as kitchens where oil may splatter or where there is steam in the air.
 - g. Locations where equipment produces electromagnetic waves.
 - h. Places with an acid or alkaline mist.
 - i. Places where fallen leaves can accumulate or where weeds can grow.
- Take snow protection measures. Contact your dealer for the details of snow protection measures, such as the use of a snow protection hood.
- Do not attempt to do electrical work or grounding work unless you are licensed to do so. Consult with your dealer for electrical work and grounding work.
- Pay attention to operating sound. Be sure to use the following places:
 - Places that can sufficiently withstand the weight of the air conditioner or heat pump yet can suppress the operating sound and vibration.
 - Places where warm air from the air outlet of the outdoor unit or the operating sound of the outdoor unit does not annoy neighbors.

- Make sure that there are no obstacles close to the outdoor unit. Obstacles close to the outdoor unit may drop the performance of the outdoor unit or increase the operating sound of the outdoor unit.
- Consult your dealer if the air conditioner or heat pump in operation generates unusual noise.
- Make sure that the drainpipe is installed properly to drain water. If no water is discharged from the drainpipe while the air conditioner or heat pump is in the cooling mode, the drainpipe may be clogged with dust or dirt and water leakage from the indoor unit may occur. Stop operating the air conditioner or heat pump and contact your dealer.
- Do not spray the air conditioner unit with any deodorizers, etc. It may cause the unit to malfunction.

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This is an appliance that is not accessible to the general public.

Names of Parts Indoor Unit а h b d g Refrigerant piping Drain discharge device (built-in) а g Drain pan inspection window Drain piping b h Model name (Model name plate) i Remote controller (Wired type) The appearance of the remote controller may differ Air filter (Sold separately) С j. between different models. k Suction filter chamber (Sold separately) Wiring between the indoor and outdoor units I. Suction duct (Field supply) d Air outlet grille (Field supply) m Suction grille (Field supply) е f Exhaust duct (Field supply) Remote controller Wired type Wireless type • For details on remote controller operation, refer to the $\overset{\textcircled{}}{\bigtriangleup}$ operation manual included with the remote controller. 0 **Outdoor Unit** • The appearance of the outdoor unit may differ between different models. **Outdoor temperature** Air inlet sensor (back) (back and side) Drain hose Inter-unit wire **Ground terminal** (inside) Air outlet Model name **Refrigerant pipes** 4

Note for Multi System

A multi system has one outdoor unit connected to multiple indoor units.

Selecting the operation mode

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When more than one indoor unit is operating, priority is given to the first unit that was turned on.

In this case, set the units that are turned on later to the same operation mode as the first unit.

Otherwise, they will enter the standby state, and when using the wired remote controller the centralized control icon "CENTRAL CONTROL" will light up; this does not indicate malfunction.

NOTE

Notes on operation mode for a multi system

- COOL, DRY and FAN operation may be used at the same time.
- AUTO operation automatically selects COOL operation or HEAT operation based on the indoor temperature.
- Therefore, AUTO operation is available when selecting the same operation mode as that of the room with the first unit to be turned on.
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• Normally, the operation mode in the room where the unit is first started is given priority, but the following situations are exceptions to this rule. If the operation mode of the first room is FAN operation, then using HEAT operation in any room after this will give priority to HEAT operation. In this situation, the indoor unit operating in FAN mode will switch to standby, and when using the wired remote controller the centralized control icon "CENTRAL CONTROL" will light up.

With the priority room setting active

Refer to "Priority room setting" on the next page.

NIGHT QUIET mode (Available only for COOL operation)

NIGHT QUIET mode requires initial programing during installation. Please consult your retailer or dealer for assistance. NIGHT QUIET mode reduces the operation noise of the outdoor unit during the night-time hours to prevent annoyance to neighbours.

- NIGHT QUIET mode is activated when the temperature drops 10.8°F (6°C) or more below the highest temperature recorded that day. When the temperature difference between the current outdoor temperature and the maximum outdoor temperature becomes less than
- 7.2°F (4°C), this function will be canceled.
- NIGHT QUIET mode slightly reduces the cooling efficiency of the unit.

QUIET OUTDOOR UNIT operation (Function unavailable in the FDMQ series)

For details on QUIET OUTDOOR UNIT operation, refer to the operation manual included with the remote controller.

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When using the QUIET OUTDOOR UNIT operation feature with a multi system, set all indoor units to QUIET OUTDOOR UNIT operation using their remote controllers.

When canceling QUIET OUTDOOR UNIT operation, simply cancel the mode on one of the operating indoor units using their remote controller. However QUIET OUTDOOR UNIT operation will remain displayed on the remote controllers for the other rooms. We recommend you cancel operation in all rooms using their remote controllers.

With the priority room setting active

Refer to "Priority room setting" on the next page.







COOL/HEAT mode lock

The COOL/HEAT mode lock requires initial programing during installation. Please consult your authorized dealer for assistance. The COOL/HEAT mode lock sets the unit forcibly to either COOL or HEAT operation. This function is convenient when you wish to set all indoor units connected to the multi system to the same operation mode.

NOTE

The COOL/HEAT mode lock cannot be activated together with the priority room setting.

Priority room setting

The priority room setting requires initial programing during installation. Please consult your authorized dealer for assistance. The room designated as the priority room takes priority in the following situations.

Operation mode priority

 As the operation mode of the priority room takes precedence, you can select a different operation mode from other rooms.

[Example]

- Room A is the priority room in this example.
- When COOL operation is selected in room A while operating the following modes in room B, C and D:

Operation mode in room B, C and D	Status of room B, C and D when the unit in room A is in COOL operation
COOL or DRY or FAN	The current operation mode is maintained.
HEAT	The unit enters the standby mode. Operation resumes when the room A unit stops operating.
AUTO	If the unit is set to COOL operation, it continues. If the unit is set to HEAT operation, it enters the standby mode. Operation resumes when the room A unit stops operating.

Priority when QUIET OUTDOOR UNIT operation is used (Function unavailable in the FDMQ series)

[Example]

- Room A is the priority room in this example.
- Just by setting the unit in room A to QUIET operation, the air conditioner starts QUIET OUTDOOR UNIT operation. You do not have to set all the indoor units in operation to QUIET OUTDOOR UNIT operation.

Priority when POWERFUL operation is used (Function unavailable in the FDMQ series)

[Example]

• Room A is the priority room in this example.

The indoor units in rooms A, B, C and D are all operating. If the unit in room A enters POWERFUL operation, operation capacity will be concentrated in room A. In such a case, the cooling (heating) efficiency of the units in room B, C and D may be slightly reduced.

Care and Cleaning

🕂 WARNING

- Only a qualified service person is allowed to perform maintenance.
- Before cleaning, be sure to stop unit operation and turn off the circuit breaker.
- Otherwise, an electric shock and injury may result.
- Contact a qualified person regarding the attachment of accessories and be sure to use only accessories specified by the manufacturer. If an accessory is attached incorrectly, water leakage, an electric shock, or fire may result.

- When cleaning, use a sturdy and stable stand and watch your step.
- Do not touch the aluminium fins of the indoor unit. If you touch those parts, this may cause an injury.

How to clean the air filter

When the remote controller indicates "Time to clean filter", clean the air filter.

• It indicates after running for a certain time.

Notes on cleaning

For cleaning, do not use any of the following:

- Water hotter than 104°F (40°C)
- Volatile liquid such as benzene, gasoline and thinner
- Polishing compounds or liquid insecticide
- · Rough materials such as a scrubbing brush
- Sprays such as deodorizers
- You may change the time of indication "Time to clean filter".
- If the indoor unit is used in a space where the air is too contaminated, ask your local dealer for solution.

Contamination	Time until indication is displayed
Normal	2500 hours (equivalent to one year)
More contaminated	1250 hours (equivalent to a half year)

- If it becomes difficult to remove contamination from the air filter, replace the air filter.
- (Air filter for replacement is a separately sold accessory.)
- Do not remove the air filter except when cleaning. Unnecessary handling may damage the filter. (This product is not provided with an air filter as a standard accessory.)
- Do not attach objects other than the genuine air filter (e.g., kitchen paper) to the air inlet.
- Otherwise, the performance of the air conditioner will be degraded, and icing or water leakage may result.
- This product is a ceiling mounted duct type air conditioner.
- Installing under roof
- If the air filter (sold separately) is used, request a special contractor for the cleaning of the air filter.
- Not installing under roof Always use the long-life filter chamber (sold separately). Be sure to request your dealer for the installation of the long-life chamber. For the methods
- of mounting, dismounting, and cleaning the air filter, refer to the manual provided with the air filter.
- Be sure to use the separately sold filter chamber.
- Request your dealer for the installation of the filter chamber.
- Be sure to clean the air filter at the beginning of the cooling or heating season.
- (A decrease in the airflow volume of the air conditioner will result and the performance of the air conditioner will be degraded if the air filter is clogged with dust or dirt.)

Increase the frequency of cleaning if the unit is installed in a room where the air is extremely contaminated.

After completing cleaning and installing an air filter, turn off the indication of "Time to clean filter" on the remote controller.

- For details, refer to the operation manual attached to the remote controller.
- The indication can be turned off while the unit is either operating or stopped.
- 7





Troubleshooting

Not a problem

This case is not a problem.

Before making an inquiry or a request for repair, please check the following. If the problem persists, consult your dealer.

 $\mathbf{\overline{\mathbf{A}}}$

	repairs.	
Case	Description / what to check	
 Operation does not start soon. When ON/OFF button was pressed soon after operation was stopped. When the mode was reselected. 	 This is to protect the air conditioner. You should wait for about 3 minutes. 	
Air does not come out.	 In HEAT operation The air conditioner is warming up. Wait for about 1 to 4 minutes. During defrosting operation, hot air does not flow out of the indoor unit. When the air conditioner operates immediately after the circuit breaker is turned on The air conditioner is preparing to operate. Wait for about 3 to 20 minutes. 	
The HEAT operation stops suddenly and a flowing sound is heard.	 The system is taking away the frost on the outdoor unit. You should wait for about 4 to 12 minutes. 	
The outdoor unit emits water or steam.	 In HEAT mode The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. In COOL or DRY mode Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips. 	
Mist comes out of the indoor unit.	• This happens when the air in the room is cooled into mist by the cold airflow during cooling operation.	
The indoor unit gives out odor.	 This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult your dealer where you bought the air conditioner.) 	
The outdoor fan rotates while the air conditioner is not in operation.	 After operation is stopped: The outdoor fan continues rotating for another 1 minute for system protection. While the air conditioner is not in operation: When the outdoor temperature is very high, the outdoor fan starts rotating for system protection. 	
The operation stopped suddenly. (OPERATION lamp* is on.)	 For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes. Are operation modes all the same for indoor units connected to outdoor units in the multi system? If not, set all indoor units to the same operation mode. 	
The air conditioner does not operate. (OPERATION lamp* is off.)	 Hasn't the circuit breaker turned OFF or a fuse blown? Isn't it a power failure? Are batteries set in the remote controller? Is the timer setting correct? 	
Cooling (Heating) effect is poor.	 Are the air filters clean? Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? Is the temperature setting appropriate? Are the windows and doors closed? Are the airflow rate set appropriately? 	
Operation stops suddenly. (OPERATION lamp* is blinking.)	 Are the air filters clean? Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the circuit breaker OFF. Then turn it ON again and try operating the air conditioner with the remote controller. If the lamp still blinks, call your dealer where you bought the air conditioner. 	

Check

Please check again before requesting

* The OPERATION lamp is on the receiver of the separately sold wireless remote controller or wired remote controller.

Case An abnormal functioning happens		De	scription / what to shock	
An abnormal functioning happens			Scription / what to check	
during operation.	• The air cond it ON again a	litioner may malf and try operating	unction with lightning or radio wat the air conditioner with the rem	aves. Turn the breaker OFF, tur ote controller.
Notes on the operating conditions		Mode	Operating	conditions
 If operation continues under any condition listed in the table, A safety device may activate to stop the (With a multi connection in COOL opera device may work to stop the operation of only.) Dew may form on the indoor unit and dr COOL or DBX operation is selected 	e operation. ation, the safety of the outdoor unit rip from it when	COOL / DRY	Outdoor temperature: [MXS, MXL, MXLH mode [RX, RXL models] *1 -4°F (-20°C) If an air direction adjustm installed. Indoor temperature Indoor humidity	els]: 14 -115°F (-10 - 46°C) : 50*1-115°F (10*1 - 46°C) ent grille (sold separately) is : 64 - 90°F (18 - 32°C) : 80% max.
 *1 Cutting the jumper on the outdoor unit cooling operation range to 14°F (-10.0 Installing an air direction adjustment gr will further extend the operation range Please consult your dealer. *2 Installing a drain pan heater (sold sepa extend the heating operation range to - Please consult your dealer. 	PCB will extend the °C). ille (sold separately) to -4°F (-20.0°C). arately) will further -13°F (-25.0°C).	HEAT	Outdoor temperature: [MXS models] [MXL models] [RXL models] [RXL models] [RXL models] *2 -13°F (-25°C) If a drain pan heater (sol Indoor temperature	:5 - 75°F (-15 - 24°C) :5' ² - 75°F (-15' ² - 24°C) :-13 - 75°F (-25 - 24°C) :5 - 75°F (-15 - 24°C) :5' ² - 75°F (-15' ² - 24°C) d separately) is installed. :50 - 86°F (10 - 30°C)
WARNING When an abnormality (such as a b • Continued operation in an abnormal cor • Consult the dealer where you bought the Do not attempt to repair or modify	urning smell) occu ndition may result in pr e air conditioner. the air conditione ck or fire.	irs, stop opera oblems, electric r by yourself.	ition and turn off the circu shock or fire.	it breaker.
Incorrect work may result in electric sho	o air aanditianar			
Incorrect work may result in electric sho Consult the dealer where you bought the			our doolor immedie	toly

Disposal requirements

• Dismantling of the unit, handling of the refrigerant, oil and other parts, should be done in accordance with the relevant local and national regulations.

13.3 FFQ

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Multi Connection

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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

Read the precautions in this manual carefully before operating the unit.

before operating an air conditioner or heat pump. Make sure that the unit operates properly during the startup operation. Instruct the user on how to operate and maintain the unit. Inform users that they should store this operation manual with the installation manual for future reference. Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

Anger	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
MARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE Indicates situations that may result in equipment or property damage accidents only.

— 🕂 DANGER -

- Do not install the unit in an area where flammable materials are present due to risk of explosion resulting in serious injury or death.
- Any abnormalities in the operation of the air conditioner or heat pump, such as smoke or fire, could result in severe injury or death. Turn off the power and contact your dealer immediately.
- Refrigerant gas may produce toxic gas if it comes into contact with fire, such as from a fan heater, stove, or cooking device. Exposure to this gas could cause severe injury or death.
- For refrigerant leakage, consult your dealer. Refrigerant gas is heavier than air and replaces oxygen. A massive leak could lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- If equipment utilizing a burner is used in the same room as the air conditioner or heat pump, there is the danger of oxygen deficiency which could lead to an asphyxiation hazard resulting in serious injury or death. Be sure to ventilate the room sufficiently to avoid this hazard.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
- Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death by suffocation.

— 🕂 WARNING -

- Contact your dealer for repair and maintenance. Improper repair and maintenance may result in water leakage, electric shock, and fire. Only use accessories made by Daikin that are specifically designed for use with the equipment and have them installed by a professional.
- Contact your dealer to move and reinstall the air conditioner or heat pump. Incomplete installation may result in water leakage, electric shock, and fire.
- Never let the indoor unit or the remote controller get wet. Water can cause an electric shock or a fire.
- Never use flammable spray such as hair spray, lacquer, or paint near the unit. Flammable spray may cause a fire.
- When a fuse blows out, never replace it with one of incorrect ampere ratings or different wires. Always replace any blown fuse with a fuse of the same specification.
- Never remove the fan guard of the unit. A fan rotating at high speed without the fan guard is very dangerous.
- Never inspect or service the unit by yourself. Contact a qualified service person to perform this work.
- Turn off all electrical power before doing any maintenance to avoid the risk of serious electric shock; never sprinkle or spill water or liquids on the unit.
- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- The heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins while working around them.
- Do not put a finger or other objects into the air inlet or air outlet. The fan is rotating at high speed and will cause injury.
- Check the unit foundation for damage on a continuous basis, especially if it has been in use for a long time. If left in a damaged condition the unit may fall and cause injury.
- Do not touch the air outlet or horizontal blades while the swing flap is in operation because fingers could get caught and injured.
- Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. To check and adjust internal parts, contact your dealer.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- · Be aware that refrigerants may not contain an odor.

- \land CAUTION -

- Do not use the air conditioner or heat pump for any other purposes other than comfort cooling or heating.
 Do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- Do not place items under the indoor unit as they may be damaged by condensates that may form if the humidity is above 80% or if the drain outlet gets blocked.
- Before cleaning, stop the operation of the unit by turning the power off or by pulling the supply cord out from its receptacle. Otherwise, an electric shock and injury may result.
- Do not wash the air conditioner or heat pump with excessive water. An electric shock or fire may result.
- Avoid placing the controller in a spot which may be splashed with water. Water entering the controller may cause an electric shock or damage the internal electronic parts.
- Do not operate the air conditioner or heat pump when using a room-fumigation type of insecticide.
 Failure to observe this could cause the chemicals to be deposited in the unit and can endanger the health of those who are hypersensitive to chemicals.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- The appliance is not intended for use by young children or infirm persons without supervision.
- The remote controller should be kept away from children so they cannot play with it.
- Consult with the installation contractor for cleaning.
- Incorrect cleaning of the inside of the air conditioner or heat pump could make the plastics parts break and cause water leakage or electric shock.
- Do not touch the air inlet or aluminum fin of the air conditioner or heat pump as they can cut and cause injury.
- Do not place objects in direct proximity of the outdoor unit. Do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, animals can cause the unit to malfunction, and cause smoke or fire when they make contact with electrical parts.

Safety Considerations

- Never press the button of the remote controller with a hard, pointed object. The remote controller may be damaged.
- Never pull or twist the electric wire of the remote controller. It may cause the unit to malfunction.
- Do not place appliances that produce open flames in places that are exposed to the airflow of the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.
- Do not expose the controller to direct sunlight. The LCD display can become discolored and may fail to display the data.
- Do not wipe the controller operation panel with benzine, thinner, chemical dust cloth, etc. The panel may get discolored or the coating can peel off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Then wipe it with another dry cloth.
- Dismantling of the unit, disposal of the refrigerant, oil, and additional parts, should be done in accordance with the relevant local, state, and national regulations.
- Operate the air conditioner or heat pump in a sufficiently ventilated area and not surrounded by obstacles. Do not use the air conditioner or heat pump in the following places.
 a. Places with a mist of mineral oil, such as cutting oil.
 - b. Locations such as coastal areas where there is a lot of salt in the air.
 - c. Locations such as hot springs where there is a lot of sulfur in the air.
 - d. Locations such as factories where the power voltage varies a lot.
 - e. In cars, boats, and other vehicles.
 - f. Locations such as kitchens where oil may splatter or where there is steam in the air.
 - g. Locations where equipment produces
 - electromagnetic waves. h. Places with an acid or alkaline mist.
 - i. Places where fallen leaves can accumulate or where weeds can grow.
- Take snow protection measures. Contact your dealer for the details of snow protection measures, such as the use of a snow protection hood.
- Do not attempt to do electrical work or grounding work unless you are licensed to do so. Consult with your dealer for electrical work and grounding work.
- Pay attention to operating sound. Be sure to use the following places:
 - Places that can sufficiently withstand the weight of the air conditioner or heat pump yet can suppress the operating sound and vibration.
 - b. Places where warm air from the air outlet of the outdoor unit or the operating sound of the outdoor unit does not annoy neighbors.

- Make sure that there are no obstacles close to the outdoor unit. Obstacles close to the outdoor unit may drop the performance of the outdoor unit or increase the operating sound of the outdoor unit.
- Consult your dealer if the air conditioner or heat pump in operation generates unusual noise.
- Make sure that the drainpipe is installed properly to drain water. If no water is discharged from the drainpipe while the air conditioner or heat pump is in the cooling mode, the drainpipe may be clogged with dust or dirt and water leakage from the indoor unit may occur. Stop operating the air conditioner or heat pump and contact your dealer.
- Do not spray the air conditioner unit with any deodorizers, etc. It may cause the unit to malfunction.

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This is an appliance that is not accessible to the general public.



Note for Multi System

A multi system has one outdoor unit connected to multiple indoor units.

Selecting the operation mode

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When more than one indoor unit is operating, priority is given to the first unit that was turned on.

In this case, set the units that are turned on later to the same operation mode as the first unit.

Otherwise, they will enter the standby state, and when using the wired remote controller the centralized control icon "CENTRAL CONTROL" will light up: this does not indicate malfunction.

Room A Room B Room B Room D RO

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NOTE

Notes on operation mode for a multi system

· COOL, DRY and FAN operation may be used at the same time.

- AUTO operation automatically selects COOL operation or HEAT operation based on the indoor temperature.
- Therefore, AUTO operation is available when selecting the same operation mode as that of the room with the first unit to be turned on.
-

• Normally, the operation mode in the room where the unit is first started is given priority, but the following situations are exceptions to this rule. If the operation mode of the first room is FAN operation, then using HEAT operation in any room after this will give priority to HEAT operation. In this situation, the indoor unit operating in FAN mode will switch to standby, and when using the wired remote controller the centralized control icon "CENTRAL CONTROL" will light up.

With the priority room setting active

Refer to "Priority room setting" on the next page.

NIGHT QUIET mode (Available only for COOL operation)

NIGHT QUIET mode requires initial programing during installation. Please consult your retailer or dealer for assistance. NIGHT QUIET mode reduces the operation noise of the outdoor unit during the night-time hours to prevent annoyance to neighbours.

- NIGHT QUIET mode is activated when the temperature drops 10.8°F (6°C) or more below the highest temperature recorded that day. When the temperature difference between the current outdoor temperature and the maximum outdoor temperature becomes less than
- 7.2°F (4°C), this function will be canceled.
- NIGHT QUIET mode slightly reduces the cooling efficiency of the unit.

QUIET OUTDOOR UNIT operation (Function unavailable in the FFQ series)

For details on QUIET OUTDOOR UNIT operation, refer to the operation manual included with the remote controller.

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When using the QUIET OUTDOOR UNIT operation feature with a multi system, set all indoor units to QUIET OUTDOOR UNIT operation using their remote controllers.

When canceling QUIET OUTDOOR UNIT operation, simply cancel the mode on one of the operating indoor units using their remote controller. However QUIET OUTDOOR UNIT operation will remain displayed on the remote controllers for the other rooms. We recommend you cancel operation in all rooms using their remote controllers.

With the priority room setting active

Refer to "Priority room setting" on the next page.


COOL/HEAT mode lock

The COOL/HEAT mode lock requires initial programing during installation. Please consult your authorized dealer for assistance. The COOL/HEAT mode lock sets the unit forcibly to either COOL or HEAT operation. This function is convenient when you wish to set all indoor units connected to the multi system to the same operation mode.

NOTE

• The COOL/HEAT mode lock cannot be activated together with the priority room setting.

Priority room setting

The priority room setting requires initial programing during installation. Please consult your authorized dealer for assistance. The room designated as the priority room takes priority in the following situations.

Operation mode priority

 As the operation mode of the priority room takes precedence, you can select a different operation mode from other rooms.

[Example]

· Room A is the priority room in this example.

When COOL operation is selected in room A while operating the following modes in room B, C and D:

Operation mode in room B, C and D	Status of room B, C and D when the unit in room A is in COOL operation
COOL or DRY or FAN	The current operation mode is maintained.
HEAT	The unit enters the standby mode. Operation resumes when the room A unit stops operating.
AUTO	If the unit is set to COOL operation, it continues. If the unit is set to HEAT operation, it enters the standby mode. Operation resumes when the room A unit stops operating.

Priority when QUIET OUTDOOR UNIT operation is used (Function unavailable in the FFQ series)

[Example]

• Room A is the priority room in this example.

Just by setting the unit in room A to QUIET operation, the air conditioner starts QUIET OUTDOOR UNIT operation. You do not have to set all the indoor units in operation to QUIET OUTDOOR UNIT operation.

Priority when POWERFUL operation is used (Function unavailable in the FFQ series)

[Example]

• Room A is the priority room in this example.

The indoor units in rooms A, B, C and D are all operating. If the unit in room A enters POWERFUL operation, operation capacity will be concentrated in room A. In such a case, the cooling (heating) efficiency of the units in room B, C and D may be slightly reduced.

Care and Cleaning

\Lambda WARNING

• Only a qualified service person is allowed to perform maintenance.

- Before cleaning, be sure to stop unit operation and turn off the circuit breaker.
- Otherwise, an electric shock and injury may result.
- Contact a qualified person regarding the attachment of accessories and be sure to use only accessories specified by the manufacturer. If an accessory is attached incorrectly, water leakage, an electric shock, or fire may result.

- When cleaning, use a sturdy and stable stand and watch your step.
- Make sure to firmly support the suction grille with your hand while performing maintenance tasks to prevent it from falling out.

Quick reference

Cleaning parts







- **5.** Reattach the air filter. ▶Page 8
- **6.** Reattach the suction grille.
- **7.** Close the suction grille.
- Cleaning the suction grille

1. Open the suction grille.

• Push the 2 catches away from you and slowly open the suction grille. (To close, perform the steps in



2. Remove the suction grille.

- Open the suction grille so that it hangs by the hinges at 90 degrees to the ceiling.
- · Pinch the wire catches inward as shown in the



3. Remove the air filter. ► Page 8



Troubleshooting

Not a problem

This case is not a problem.

Before making an inquiry or a request for repair, please check the following. If the problem persists, consult your dealer.

 $\overline{\mathbf{A}}$

repairs.
Description / what to check
• This is to protect the air conditioner. You should wait for about 3 minutes.
 In HEAT operation The air conditioner is warming up. Wait for about 1 to 4 minutes. During defrosting operation, hot air does not flow out of the indoor unit. When the air conditioner operates immediately after the circuit breaker is turned on The air conditioner is preparing to operate. Wait for about 3 to 20 minutes.
 The system is taking away the frost on the outdoor unit. You should wait for about 4 to 12 minutes.
 In HEAT mode The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. In COOL or DRY mode Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
• This happens when the air in the room is cooled into mist by the cold airflow during cooling operation.
 This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult your dealer where you bought the air conditioner.)
 After operation is stopped: The outdoor fan continues rotating for another 1 minute for system protection. While the air conditioner is not in operation: When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.
 For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes. Are operation modes all the same for indoor units connected to outdoor units in the multi system? If not, set all indoor units to the same operation mode.
 Hasn't the circuit breaker turned OFF or a fuse blown? Isn't it a power failure? Are batteries set in the remote controller? Is the timer setting correct?
 Are the air filters clean? Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? Is the temperature setting appropriate? Are the windows and doors closed? Are the airflow rate and the air direction set appropriately?
 Are the air filters clean? Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the circuit breaker OFF. Then turn it ON again and try operating the air conditioner with the remote controller. If the lamp still blinks, call your dealer where you bought the air conditioner.

Check

Please check again before requesting

* The OPERATION lamp is on the receiver of the separately sold wireless remote controller or wired remote controller.

Case An abnormal functioning happens during operation.	• The air condition	De ditioner may malfu	scription / what to check
An abnormal functioning happens during operation.	• The air cond	ditioner mav malfu	
Notes on the operating conditions	It ON again	and try operating	unction with lightning or radio waves. Turn the breaker OFF, tu the air conditioner with the remote controller.
		Mode	Operating conditions
 If operation continues under any conditional listed in the table, A safety device may activate to stop the (With a multi connection in COOL oper device may work to stop the operation only.) 	ns other than those e operation. ation, the safety of the outdoor unit	COOL / DRY	Outdoor temperature: [MXS, MXL, MXLH models]: 14 -115°F (-10 - 46°C [RX models] : 50*1-115°F (10*1 - 46°C *1 -4°F (-20°C) If an air direction adjustment grille (sold separately) is installed. Indext emperature : 64 00°E (18 - 22°C
 Dew may form on the indoor unit and c COOL or DRY operation is selected. *1 Cutting the jumper on the outdoor unit the cooling operation range to 14°F (-Installing an air direction adjustment g separately) will further extend the ope -4°F (-20.0°C). Please consult your dealer. 	rip from it when PCB will extend 10.0°C). rille (sold ration range to	HEAT	Indoor temperature:
When an abnormality (such as a b	ourning smell) occu	urs, stop opera	tion and turn off the circuit breaker.
When an abnormality (such as a k • Continued operation in an abnormal co • Consult the dealer where you bought th Do not attempt to repair or modify • Incorrect work may result in electric sho	Durning smell) occu ndition may result in pr ne air conditioner. If the air conditione ock or fire.	urs, stop opera roblems, electric : er by yourself.	Ition and turn off the circuit breaker. shock or fire.
When an abnormality (such as a b • Continued operation in an abnormal co • Consult the dealer where you bought th Do not attempt to repair or modify • Incorrect work may result in electric sho • Consult the dealer where you bought the If one of the following symp	burning smell) occu ndition may result in pr the air conditioner. If the air conditioner ock or fire. The air conditioner.	urs, stop opera roblems, electric : r by yourself.	ition and turn off the circuit breaker. shock or fire.
When an abnormality (such as a to Continued operation in an abnormal co Consult the dealer where you bought the Do not attempt to repair or modify Incorrect work may result in electric sho Consult the dealer where you bought the If one of the following symmetry The power cord is abnormally the An abnormal sound is heard du The circuit breaker cuts off the A switch or a button often fails There is a burning smell. Water leaks from the indoor unitial	ourning smell) occur ndition may result in pri- te air conditioner. If the air conditioner ock or fire. The air conditioner. In the air conditioner.	urs, stop opera roblems, electric a er by yourself. blace, call y	Notion and turn off the circuit breaker. shock or fire. Your dealer immediately. Furn off the circuit breaker and call your dealer.
When an abnormality (such as a t • Continued operation in an abnormal co • Consult the dealer where you bought th Do not attempt to repair or modify • Incorrect work may result in electric sho • Consult the dealer where you bought th If one of the following sym • The power cord is abnormally h • An abnormal sound is heard du • The circuit breaker cuts off the • A switch or a button often fails • There is a burning smell. • Water leaks from the indoor units • The air conditioner automatically	ourning smell) occu ndition may result in pr the air conditioner. The air conditioner ock or fire. The air conditioner. The air conditioner.	urs, stop opera roblems, electric : or by yourself. blace, call y thy.	ttion and turn off the circuit breaker. shock or fire. rour dealer immediately. Furn off the circuit breaker and call your dealer.

13.4 General Safety Considerations (FTXR, FFQ)



If you are NOT sure how to operate the unit, contact your installer.

This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for

Children should be supervised to ensure that they do not play with the appliance.

Cleaning and user maintenance must not be carried out by children without

- To prevent electrical shocks or fire:
- Do NOT rinse the unit.
- Do NOT operate the unit with wet
- Do NOT place any objects containing

· Do NOT place any objects or equipment

• Do NOT sit, climb or stand on the unit.

1-3 For the installer

1-3-1 General

If you are NOT sure how to install or operate the unit, contact your dealer.

The manual contains specific information about the required qualification of the working personnel for maintenance, service and repair operations.

Every working procedure that affects safety should only be carried out by competent persons.

DANGER

- Do NOT touch the refrigerant piping, water piping or internal parts during and immediately after operation. It could be too hot or too cold. Give it time to return to normal temperature. If you must touch it, wear protective gloves.
- Do NOT touch any accidental leaking refrigerant.

WARNING

Improper installation or attachment of equipment or accessories could result in electrical shock, shortcircuit, leaks, fire or other damage to the equipment. Only use accessories, optional equipment and spare parts made or approved by Daikin.

WARNING

Make sure installation, testing and applied materials comply with applicable legislation (on top of the instructions described in the Daikin documentation).

CAUTION

Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.

WARNING

Tear apart and throw away plastic packaging bags so that nobody, especially children, can play with them. Possible risk: suffocation.

WARNING

Provide adequate measures to prevent that the unit can be used as a shelter by small animals. Small animals that make contact with electrical parts can cause malfunctions, smoke or fire.

CAUTION

Do NOT touch the air inlet or aluminum fins of the unit.

CAUTION

- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

NOTICE

Works executed on the outdoor unit are best done under dry weather conditions to avoid water ingress.

In accordance with the applicable legislation, it might be necessary to provide a logbook with the product containing at least: information on maintenance, repair work, results of tests, stand-by periods,...

Also, at least, following information MUST be provided at an accessible place at the product:

- Instructions for shutting down the system in case of an emergency
- Name and address of fire department, police and hospital
- Name, address and day and night telephone numbers for obtaining service
- ISO 5149 provides the necessary guidance for this logbook.

1-3-2 Installation site

- Provide sufficient space around the unit for servicing and air circulation as outlined in the unit installation manual.
- Make sure the installation site withstands the weight and vibration of the unit.
- · Make sure the unit is level.

Do NOT install the unit in the following places:

- In potentially explosive atmospheres.
- In places where there is machinery that emits electromagnetic waves. Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
- In places where there is a risk of fire due to the leakage of flammable gases (example: thinner or gasoline), carbon fiber, or ignitable dust.
- In places where corrosive gas (example: sulfurous acid gas) is produced. Corrosion of copper pipes or soldered parts may cause the refrigerant to leak.



If applicable. See the installation manual or installer reference guide of your application for more information.

NOTICE

Make sure refrigerant piping installation complies with applicable legislation. ISO 5149 is the applicable standard.

NOTICE

Make sure the field piping and connections are NOT subjected to stress.

WARNING

During tests, NEVER pressurize the product with a pressure higher than the maximum allowable pressure (as indicated on the nameplate of the unit)

WARNING

Take sufficient precautions in case of refrigerant leakage. If refrigerant gas leaks, ventilate the area immediately.

Possible risks:

- Excessive refrigerant concentrations in a closed room can lead to oxygen deficiency.
- In case of R410A or R32 refrigerant: Toxic gas might be produced if refrigerant gas comes into contact with fire
- In case of CO2 refrigerant: Refrigerant gas is toxic in high concentrations.



DANGER: RISK OF EXPLOSION

Pump down - Refrigerant leakage. If you want to pump down the system, and there is a leak in the refrigerant circuit:

- · Do NOT use the unit's automatic pump down function, with which you can collect all refrigerant from the system into the outdoor unit. Possible consequence: Explosion of the compressor because of air going into the operating compressor.
- Use a separate recovery system so that the unit's compressor does NOT have to operate.

WARNING

ALWAYS recover the refrigerant. Do NOT release them directly into the environment. Use a vacuum pump to evacuate the installation.



NOTICE

· After all the piping has been connected, make sure there are no gas leaks.

NOTICE

• To avoid compressor breakdown, do NOT charge more than the specified amount of refrigerant.



DANGER: RISK OF EXPLOSION

Make sure there is no oxygen in the system. Refrigerant may only be charged after performing a leak test and vacuum drying.

Possible consequence: Explosion of the compressor because of oxygen going into the operating compressor.

- In case recharge is required, see the nameplate of the unit. It states the type of refrigerant and necessary amount.
- The unit is factory charged with refrigerant, but depending on pipe sizes and pipe lengths some systems require additional charging of refrigerant.
- Only use tools exclusively for the refrigerant type used in the system. This to ensure pressure resistance and prevent foreign materials from entering into the system.

Charge the liquid refrigerant as follows:

lf	Then
A siphon tube is present	Charge with the cylinder
(i.e., the cylinder is marked with "Liquid filling siphon attached")	upright.
A siphon tube is NOT present	Charge with the cylinder upside down.

- · Open refrigerant cylinders slowly.
- Charge the refrigerant in liquid form. Adding it in gas form may prevent normal operation.



CAUTION

When the refrigerant charging procedure is done or when pausing, close the valve of the refrigerant tank immediately. If the valve is NOT closed immediately, remaining pressure might charge additional refrigerant. Possible consequence: Incorrect refrigerant amount.

1-3-4 Electrical

DANGER: RISK OF ELECTROCUTION

- Turn OFF all power supplies before removing the switch box cover, connecting electrical wiring, or touching electrical parts.
- Disconnect the power supply for more than 1 minute, and measure the voltage at the terminals of main circuit capacitors or electrical components before servicing. The voltage MUST be less than 50V DC before you can touch electrical components. For the location of the terminals, see the wiring diagram.
- Do NOT touch electrical components with wet hands.
- Do NOT leave the unit unattended when the service cover is removed.

WARNING

If NOT factory installed, a main switch or other means for disconnection, having a contact separation in all poles providing full disconnection under overvoltage category III conditions, MUST be installed in the fixed wiring.

WARNING

- ONLY use copper wires.
 - Make sure the field wiring complies with the applicable legislation.
 - All field wiring MUST be performed in accordance with the wiring diagram supplied with the product.
 - NEVER squeeze bundled cables and make sure they do NOT come in contact with the piping and sharp edges. Make sure no external pressure is applied to the terminal connections.
 - Make sure to install ground wiring. Do NOT ground the unit to a utility pipe, surge absorber, or telephone ground. Incomplete grounding may cause electrical shock.
 - Ensure that the REFRIGERATING SYSTEM is grounded prior to charging the system with refrigerant.
 - Make sure to use a dedicated power circuit. NEVER use a power supply shared by another appliance.
- Make sure to install the required fuses or circuit breakers.
- Make sure to install a ground leakage protector where required by local codes. Failure to do so may cause electrical shock or fire.
- When installing the ground leakage protector, make sure it is compatible with the inverter (resistant to high frequency electric noise) to avoid unnecessary opening of the ground leakage protector.

- When connecting the power supply: connect the ground cable first, before making the current-carrying connections.
- When disconnecting the power supply: disconnect the current-carrying cables first, before separating the ground connection.
- The length of the conductors between the power supply stress relief and the terminal block itself must be such that, in case the power supply is pulled loose from the stress relief, the current-carrying wires become taut before the ground wire becomes taut.

Precautions when laying power wiring:



- Do NOT connect wiring of different thicknesses to the power terminal block (slack in the power wiring may cause abnormal heat).
- When connecting wiring which is the same thickness, do as shown in the figure above.
- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will damage the screw heads and make proper tightening impossible.
- Over-tightening the terminal screws may break them.

Install power cables at least 3.3ft away from televisions or radios to prevent interference. Depending on the radio waves, a distance of 3.3ft may not be sufficient.



After finishing the electrical work, confirm that each electrical component and terminal inside the electrical components box is connected securely.

• Make sure all covers are closed before starting up the unit.

1-3-5 Disposal

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerant is removed safely.

- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge is available.
- Ensure that all cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i. e. special cylinders for the recovery of refrigerant).
- Cylinders should be complete with pressure-relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders should be evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment should be in good working order with a set of instructions concerning the equipment that is at hand and should be suitable for the recovery of all appropriate refrigerants including, when applicable, FLAMMABLE REFRIGERANT.
- In addition, a set of calibrated weighing scales should be available and in good working order.
- Hoses should be complete with leak-free disconnect couplings and in good condition.
- Consult the manufacturer if in doubt.
- The recovered refrigerant should be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note should be arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- The evacuation process should be carried out prior to returning the compressor to the suppliers.
- Only electric heating of the compressor body should be employed to accelerate this process.
- When oil is drained from a system, oil drainage should be carried out safely.

1-4 Glossary

Your dealer

Sales distributor for the product.

Authorized installer

Technically skilled person who is qualified to install the product.

User

Person who is owner of the product and/or operates the product.

Applicable legislation

All international, national and local directives, laws, regulations and/or codes that are relevant and applicable for a certain product or domain.

Service company

Qualified company which can perform or coordinate the required service on the product.

Installation manual

Instruction manual specified for a certain product or application, explaining how to install, configure and maintain it.

Operation manual

Instruction manual specified for a certain product or application, explaining how to operate it.

Maintenance instructions

Instruction manual specified for a certain product or application, which explains (if relevant) how to install, configure, operate and/or maintain the product or application.

Accessories

Labels, manuals, information sheets and pieces of equipment that are delivered with the product and that need to be installed according to the instructions in the accompanying documentation.

Equipment sold separately

Equipment made or approved by Daikin that can be combined with the product according to the instructions in the accompanying documentation.

Field supply

Equipment NOT made by Daikin that can be combined with the product according to the instructions in the accompanying documentation.

13.5 General Safety Considerations (FDMQ, RXL)

1. General Safety Considerations	1-2 For the user
 1-1 About the documentation The original documentation is written in English. All other languages are translations. 	MARNING If you are NOT sure how to operate the unit, contact your installer.
 The precautions described in this document cover very important topics, follow them carefully. The installation of the system, and all activities described in the installation manual and in the installer references guide MUST be performed by an authorized installer. 	WARNING This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities,
1-1-1 Meaning of warnings and symbols	 or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision.
 Indicates a situation that could result in death or serious injury. CAUTION Indicates a situation that could result in minor or moderate injury. NOTICE Indicates a situation that could result in equipment or property damage. 	 WARNING To prevent electrical shocks or fire: Do NOT rinse the unit. Do NOT operate the unit with wet hands. Do NOT place any objects containing water on the unit.
INFORMATION Indicates useful tips or additional information.	 CAUTION Do NOT place any objects or equipment on top of the unit. Do NOT sit climb or stand on the unit.
Symbol Explanation Image: Symbol image	

For more information, see the installer and user

The unit contains rotating parts. Be careful when servicing or inspecting the unit.

reference guide.

1-3 For the installer

1-3-1 General

If you are NOT sure how to install or operate the unit, contact your dealer.

The manual contains specific information about the required qualification of the working personnel for maintenance, service and repair operations.

Every working procedure that affects safety should only be carried out by competent persons.

 Do NOT touch the refrigerant piping, water piping or internal parts during and immediately after operation.
 It could be too hot or too cold. Give it time to return to normal temperature. If you must touch it, wear protective gloves.

• Do NOT touch any accidental leaking refrigerant.

WARNING

Improper installation or attachment of equipment or accessories could result in electrical shock, shortcircuit, leaks, fire or other damage to the equipment. Only use accessories, optional equipment and spare parts made or approved by Daikin.

WARNING

Make sure installation, testing and applied materials comply with applicable legislation (on top of the instructions described in the Daikin documentation).

Wear adequate personal protective equipment (protective gloves, safety glasses,...) when installing, maintaining or servicing the system.

WARNING

Tear apart and throw away plastic packaging bags so that nobody, especially children, can play with them. Possible risk: suffocation.

WARNING

Provide adequate measures to prevent that the unit can be used as a shelter by small animals. Small animals that make contact with electrical parts can cause malfunctions, smoke or fire.

Do NOT touch the air inlet or aluminum fins of the unit.

- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

NOTICE

Works executed on the outdoor unit are best done under dry weather conditions to avoid water ingress.

In accordance with the applicable legislation, it might be necessary to provide a logbook with the product containing at least: information on maintenance, repair work, results of tests, stand-by periods,...

Also, at least, following information MUST be provided at an accessible place at the product:

- Instructions for shutting down the system in case of an emergency
- Name and address of fire department, police and hospital
- Name, address and day and night telephone numbers for obtaining service
- ISO 5149 provides the necessary guidance for this logbook.

1-3-2 Installation site

- Provide sufficient space around the unit for servicing and air circulation as outlined in the unit installation manual.
- Make sure the installation site withstands the weight and vibration of the unit.
- Make sure the unit is level.

Do NOT install the unit in the following places:

- In potentially explosive atmospheres.
- In places where there is machinery that emits electromagnetic waves. Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
- In places where there is a risk of fire due to the leakage of flammable gases (example: thinner or gasoline), carbon fiber, or ignitable dust.
- In places where corrosive gas (example: sulfurous acid gas) is produced. Corrosion of copper pipes or soldered parts may cause the refrigerant to leak.



1-3-3 Refrigerant

If applicable. See the installation manual or installer reference guide of your application for more information.

NOTICE

Make sure refrigerant piping installation complies with applicable legislation. ISO 5149 is the applicable standard.

NOTICE

Make sure the field piping and connections are NOT subjected to stress.

WARNING

During tests, NEVER pressurize the product with a pressure higher than the maximum allowable pressure (as indicated on the nameplate of the unit).

WARNING

Take sufficient precautions in case of refrigerant leakage. If refrigerant gas leaks, ventilate the area immediately.

Possible risks:

- Excessive refrigerant concentrations in a closed room can lead to oxygen deficiency.
- In case of R410A or R32 refrigerant: Toxic gas might be produced if refrigerant gas comes into contact with fire.

 In case of CO₂ refrigerant: Refrigerant gas is toxic in high concentrations.

DANGER: RISK OF EXPLOSION

Pump down – Refrigerant leakage. If you want to pump down the system, and there is a leak in the refrigerant circuit:

- Do NOT use the unit's automatic pump down function, with which you can collect all refrigerant from the system into the outdoor unit. Possible consequence: Explosion of the compressor because of air going into the operating compressor.
- Use a separate recovery system so that the unit's compressor does NOT have to operate.

WARNING

 ALWAYS recover the refrigerant. Do NOT release them directly into the environment. Use a vacuum pump to evacuate the installation.

NOTICE

 After all the piping has been connected, make sure there are no gas leaks.

NOTICE

• To avoid compressor breakdown, do NOT charge more than the specified amount of refrigerant.

DANGER: RISK OF EXPLOSION

Make sure there is no oxygen in the system. Refrigerant may only be charged after performing a leak test and vacuum drying.

Possible consequence: Explosion of the compressor because of oxygen going into the operating compressor.

- In case recharge is required, see the nameplate of the unit. It states the type of refrigerant and necessary amount.
- The unit is factory charged with refrigerant, but depending on pipe sizes and pipe lengths some systems require additional charging of refrigerant.
- Only use tools exclusively for the refrigerant type used in the system. This to ensure pressure resistance and prevent foreign materials from entering into the system.
- Charge the liquid refrigerant as follows:

lf	Then
A siphon tube is present	Charge with the cylinder
(i.e., the cylinder is marked with "Liquid filling siphon attached")	upright.
A siphon tube is NOT present	Charge with the cylinder upside down.

· Open refrigerant cylinders slowly.

 Charge the refrigerant in liquid form. Adding it in gas form may prevent normal operation.



When the refrigerant charging procedure is done or when pausing, close the valve of the refrigerant tank immediately. If the valve is NOT closed immediately, remaining pressure might charge additional refrigerant. **Possible consequence:** Incorrect refrigerant amount.

1-3-4 Electrical

DANGER: RISK OF ELECTROCUTION

- Turn OFF all power supplies before removing the switch box cover, connecting electrical wiring, or touching electrical parts.
- Disconnect the power supply for more than 1 minute, and measure the voltage at the terminals of main circuit capacitors or electrical components before servicing. The voltage MUST be less than 50V DC before you can touch electrical components. For the location of the terminals, see the wiring diagram.
- Do NOT touch electrical components with wet hands.
- Do NOT leave the unit unattended when the service cover is removed.

WARNING

If NOT factory installed, a main switch or other means for disconnection, having a contact separation in all poles providing full disconnection under overvoltage category III conditions, MUST be installed in the fixed wiring.

WARNING

- ONLY use copper wires.
- Make sure the field wiring complies with the applicable legislation.
- All field wiring MUST be performed in accordance with the wiring diagram supplied with the product.
- NEVER squeeze bundled cables and make sure they do NOT come in contact with the piping and sharp edges. Make sure no external pressure is applied to the terminal connections.
- Make sure to install ground wiring. Do NOT ground the unit to a utility pipe, surge absorber, or telephone ground. Incomplete grounding may cause electrical shock.
- Ensure that the REFRIGERATING SYSTEM is grounded prior to charging the system with refrigerant.
- Make sure to use a dedicated power circuit. NEVER use a power supply shared by another appliance.
- Make sure to install the required fuses or circuit breakers.
- Make sure to install a ground leakage protector where required by local codes. Failure to do so may cause electrical shock or fire.
- When installing the ground leakage protector, make sure it is compatible with the inverter (resistant to high frequency electric noise) to avoid unnecessary opening of the ground leakage protector.

- When connecting the power supply: connect the ground cable first, before making the current-carrying connections.
- When disconnecting the power supply: disconnect the current-carrying cables first, before separating the ground connection.
- The length of the conductors between the power supply stress relief and the terminal block itself must be such that, in case the power supply is pulled loose from the stress relief, the current-carrying wires become taut before the ground wire becomes taut.







- Do NOT connect wiring of different thicknesses to the power terminal block (slack in the power wiring may cause abnormal heat).
- When connecting wiring which is the same thickness, do as shown in the figure above.
- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will damage the screw heads and make proper tightening impossible.
- Over-tightening the terminal screws may break them.

Install power cables at least 3.3ft away from televisions or radios to prevent interference. Depending on the radio waves, a distance of 3.3ft may not be sufficient.

WARNING

- After finishing the electrical work, confirm that each electrical component and terminal inside the electrical components box is connected securely.
- Make sure all covers are closed before starting up the unit.

1-3-5 Disposal

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerant is removed safely.

- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge is available.
- Ensure that all cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i. e. special cylinders for the recovery of refrigerant).
- Cylinders should be complete with pressure-relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders should be evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment should be in good working order with a set of instructions concerning the equipment that is at hand and should be suitable for the recovery of all appropriate refrigerants including, when applicable, FLAMMABLE REFRIGERANT.
- In addition, a set of calibrated weighing scales should be available and in good working order.
- Hoses should be complete with leak-free disconnect couplings and in good condition.
- · Consult the manufacturer if in doubt.
- The recovered refrigerant should be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note should be arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- The evacuation process should be carried out prior to returning the compressor to the suppliers.
- Only electric heating of the compressor body should be employed to accelerate this process.
- When oil is drained from a system, oil drainage should be carried out safely.

1-4 Glossary

Your dealer

Sales distributor for the product.

Authorized installer

Technically skilled person who is qualified to install the product.

User

Person who is owner of the product and/or operates the product.

Applicable legislation

All international, national and local directives, laws, regulations and/or codes that are relevant and applicable for a certain product or domain.

Service company

Qualified company which can perform or coordinate the required service on the product.

Installation manual

Instruction manual specified for a certain product or application, explaining how to install, configure and maintain it.

5

Operation manual

Instruction manual specified for a certain product or application, explaining how to operate it.

Maintenance instructions

Instruction manual specified for a certain product or application, which explains (if relevant) how to install, configure, operate and/or maintain the product or application.

Accessories

Labels, manuals, information sheets and pieces of equipment that are delivered with the product and that need to be installed according to the instructions in the accompanying documentation.

Equipment sold separately

Equipment made or approved by Daikin that can be combined with the product according to the instructions in the accompanying documentation.

Field supply

Equipment NOT made by Daikin that can be combined with the product according to the instructions in the accompanying documentation.

13.6 <BRC1E73> Wired Remote Controller

Safety Considerations

The original instructions are written in English. All other languages are translation of the original instructions.

Read these **SAFETY CONSIDERATIONS** carefully before operating the remote controller. Train the customer to operate and maintain the remote controller.

Inform customers that they should store this Operations Manual with the Installation Manual for future reference.

Meanings of WARNING and CAUTION Symbols:

	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
ΜΟΤΕ	Indicates situations that may result in equipment or property-damage accidents only.

• The following pictograms are used in this manual.

\bigcirc	Never do.	Always follow the instructions given.
	Keep water and moisture away.	Keep wet hands away.

\bigcirc	• Do not modify or repair the remote controller. Consult your Daikin dealer for any modification or for repairs.
\bigcirc	• Do not relocate or reinstall the remote controller by yourself. Improper installation may result in electric shocks or fire. Consult your Daikin dealer to relocate or for any reinstallation.
\oslash	• Do not use flammable materials (e.g., hairspray or insecticide) near the remote controller. Do not clean the product with organic solvents such as paint thinner. The use of organic solvents may cause cracking, damaging the product, causing electric shocks, or fire.
0	 Consult the dealer if the remote controller was submerged under water due to a natural disaster, such as a flood or hurricane. Do not operate the remote controller at this time or a malfunction, electric shock, or fire can occur.

\bigcirc	 Do not allow children to play with the remote controller to avoid causing damage to the product. 	
\bigcirc	• Never disassemble the remote controller. Touching the interior parts may result in electric shocks or fire. Consult your Daikin dealer for internal inspections and adjustments.	
	 Do not touch the remote controller buttons with wet fingers. Touching the buttons with wet fingers can cause an electric shock. 	
	• Do not wash the remote controller. Doing so may cause electric leakage and result in electric shocks or fire.	
	• Never let the remote controller to get wet. Water can cause damage to the remote controller, and may cause an electric shock or fire.	





Functions other than basic operation items (i.e., On/Off, Operation Mode, Fan Speed, and Setpoint) are set from the menu screen.

NOTE

- Do not install the remote controller in places exposed to direct sunlight, the LCD will be damaged.
- Do not pull or twist the remote controller cord, the remote controller may be damaged.
- Do not use objects with sharp ends to press the buttons on the remote controller, damage may result.

1. Operation mode selector button

 Press this button to select the operation mode of your preference. (See page 10.)
 * Available modes vary with the indoor unit model.

2. Fan speed control button

 Press this button to select the fan speed of your preference. (See page 11.)
 * Available fan speeds vary with the indoor unit model.

3. Menu/OK button

- Used to enter the main menu. (See page 20 for the menu items.)
- Used to enter the selected item.

4. Up button **▲**

- Used to raise the setpoint.
- The item above the current selection will be highlighted.
 (The highlighted items will be scrolled continuously when the button is

continuously pressed.)

• Used to change the selected item.

5. Down button ▼

- Used to lower the setpoint.
- The item below the current selection will be highlighted.
 (The highlighted items will be scrolled continuously when the button is continuously pressed.)
- Used to change the selected item.

6. Right button ►

- Used to highlight the next items on the right-hand side.
- Each screen is scrolled in the right-hand direction.

7. Left button <

- Used to highlight the next items on the left-hand side.
- Each screen is scrolled in the left-hand direction.

8. On/Off button

- Press this button and system will start.
- Press this button again to stop the system.

9. Operation lamp

- This lamp illuminates solid green during normal operation.
- This lamp flashes if an error occurs.

10.Cancel button

• Used to return to the previous screen.

11.LCD (with backlight)

- The backlight will be illuminated for approximately 30 seconds by pressing any button.
- If two remote controllers are used to control a single indoor unit, only the controller accessed first will have backlight functionality.





• Depending on the field settings, while the indoor unit is stopped, OFF may be displayed instead of the operation mode and/or the setpoint may not be displayed.

Names and Functions

1. Operation mode

- Used to display the current operation mode: Cool, Heat, Vent, Fan, Dry or Auto.
- In Auto mode, the actual operation mode (Cool or Heat) will be also displayed.
- Operation mode cannot be changed when OFF is displayed.
 Operation mode can be changed after starting operation.

2. Fan Speed

- Used to display the fan speed that is set for the indoor unit.
- The fan speed will not be displayed if the connected model does not have fan speed control functionality.

3. Setpoint

- Used to display the setpoint for the indoor unit.
- Use the Celsius/Fahrenheit item in the main menu to select the temperature unit (Celsius or Fahrenheit).

4. Stand by for Defrost/Hot start " STANDBY " (See page 12.)

- If ventilation icon is displayed in this field:
- Indicates that an energy recovery ventilator (ERV) is connected.
 For details, refer to the Operation Manual of the ERV.

5. Message

The following messages may be displayed.

"This function is not available"

- Displayed for a few seconds when an Operation button is pressed and the indoor unit does not provide the corresponding function.
- In a remote control group, the message will not appear if at least one of the indoor units provides the corresponding function.

"Error: Push Menu button" "Warning: Push Menu button"

- Displayed if an error or warning is detected (see page 50).
- "Time to clean filter"
- "Time to clean element"
- "Time to clean filter & element"
- Displayed as a reminder when it is time to clean the filter and/or element (see page 48).

6. Ventilation

- Displayed when an energy recovery ventilator is connected.
- Ventilation Mode icon." ^{AUTO} ERV BYPASS " These icons indicate the current ventilation mode (ERV only) (AUTO, ERV, BYPASS).
- Air Purify ICON " $\#_{URIFY}$ " This icon indicates that the air purifying unit (Optional) is in operation.

7. ••• Key Lock (See page 19.)

• Displayed when the key lock is set.

8. ④ Scheduled (See page 30.)

• Displayed if the Schedule or Off timer is enabled.

9. Under Centralized control " CENTRAL "

• Displayed if the system is under the management of a multi-zone controller (Optional) and the operation of the system through the remote controller is limited.

10.Changeover controlled by the master indoor unit " CONFELED " (VRV only)

• Displayed when another indoor unit on the system has the authority to change the operation mode between cool and heat.

11. Setback " [SETBACK] " (See page 14.)

• The setback icon flashes when the unit is turned on by the setback control.

12.Airflow Direction "..." "

- Displayed when the airflow direction and swing are set (see page 23).
- If the connected indoor unit model does not include oscillating louvers this item will not be displayed.

13.Current Day/Time (12/24 hour time display)

- Displayed if the clock is set (see page 42).
- If the clock is not set, "--:--" will be displayed.
- 12 hour time format is displayed by default.
- Select 12/24 hour time display option in the main menu under "Clock & Calendar".

14.Selectable Display Item

- Room temperature is selected by default.
- For other choices see page 41.

15. X Unable to schedule

- Displayed when the clock needs to be set.
- The schedule function will not work unless the clock is set.



Preparation

• For mechanical protection purposes, apply power to the outdoor units at least six hours before starting the operation of the system.

Operation







Characteristics of Heat Mode

The system automatically controls the following operating modes to prevent the reduction of heating capacity and space comfort.

Defrost operation	 The system will automatically go into defrost operation to prevent frost accumulation at the outdoor unit and subsequent loss of heating capacity. The indoor unit fan will stop, and "STANDBY " will be displayed on the remote controller. The system will finish the Defrost operation and return to normal usually within six to eight minutes. It won't last for more than ten minutes.
Hot start	• When the system starts heating operation, the indoor unit fan will operate with a delay in order to prevent a cold draft. (In that case, " [STANDBY] " will be displayed on the remote controller.)

Dry Mode

Preparation

• For equipment protection purposes, apply power to the outdoor units at least six hours before starting the operation of the system.

• The dry mode may not be selected if the remote controller is master controlled and the system is not already in the cooling mode of operation. (see page 18 for details)

Operation



 Press Mode button several times until the Dry mode is selected.



* The dry mode may not be available depending on the type of indoor unit.



 Press On/Off button.
 The Operation lamp will illuminate solid green and the system will start operating.

* In Dry mode, the system maintains automatic temperature and fan speed control. Therefore, temperature setpoint or fan speed settings are not available while the indoor unit is in the Dry mode.

3

• Adjust Airflow Direction from the main menu (see page 23).

* If the connected indoor unit does not have oscillating louvers, this function will not be available.

Basic Operation



• When **On/Off** button is pressed again, the system will stop operating and the Operation lamp will turn off.



Note

• To prevent condensation water damage or system failure, do not shut off the power supply to the indoor unit immediately after operation. Wait at least five minutes for the condensate pump to finish draining residual water from the indoor unit.

Characteristic of Dry mode

The Dry mode dehumidifies the space at reduced cooling capacity to prevent the room temperature from dropping to an uncomfortable level.



Setback

The Setback function can be used to maintain the space temperature in an assigned range for an unoccupied period.

Note

- When enabled, the Setback mode becomes active when the indoor unit is turned off by either the user, a schedule event or an off timer.
- This function is not available by default. It can be enabled by the system installer.

 1
 Image: Cool Setback Cool 84F

 Image: Cool Setback Cool 84F
 Image: Cool 84F

 Image: Cool Setback Cool 84F
 Image: Cool 84F

Ventilation Mode When the Indoor Unit is Interlocked with Energy Recovery Ventilator

Preparation

• For equipment protection purposes, apply power to the outdoor units at least six hours before starting the operation of the system.

Operation





 Setto 74_F 74_F Cool setto 74_F The remote controller for the master. The remote controller for the master indoor unit is estable Cool setto 74_F Cool setto 74_F Cool setto Cool setto The remote controller for the master. The remote controller for the master. Cool setto Cool seto<th>which is to ngeover he changeover ished and the blayed. the system same outdoor by the same bw display the</th>	which is to ngeover he changeover ished and the blayed. the system same outdoor by the same bw display the
 Press Mode button on the controller of the indoor unit as the cool/heat changeov remote controller not displation. The displation of the indoor unit as the cool/heat changeov remote controller not displation. The displation of the indoor unit as the cool/heat changeov remote controller not displation. The displation of the indoor unit as the cool of the indoor unit as the changeover master in the system will follow suit a modes to reflect the new mat the changeover master in controller. 	remote t designated er master (the aying the il the desired blay will , Cool, Heat essed. ndoor units on nd change ode selected emote

Basic Operation

Cool / Heat Mode Selection Availability

• "Cool", "Heat", and "Auto" are all only available for selection on the cool/heat changeover master indoor unit. The following table indicates the available operating modes of the other indoor units on the system based upon the selected mode of the master indoor unit.

When the master indoor unit is set to	The oth	er indoor units in	the system can	be set to
	Cool	Dry	Heat	Fan
Cool mode	✓	1		1
Dry mode	1	1		1
Heat mode			✓	1
Fan mode				1
Auto mode (Cooling operation)	✓	1		1
Auto mode (Heating operation)			1	1

Precautions for Selecting the Cool / Heat Changeover Master Indoor Unit

• The cool/heat changeover master must be set for a single indoor unit in the following applications



(3-Pipe Heat Recovery System)





Quick Reference

The main menu has the following items.

Menu item Description		Description	Reference page
Airflow Direction		 Used to configure airflow direction settings. The airflow direction louver is automatically operated up and down (left and right). The fixed airflow directions are configurable for five positions. * This function is not available on all indoor unit models. 	23
	Louver Setting	Set the airflow direction individually for each of the 4 louvers. • Maximum 16 units (unit 0 till 15).	25
Airflow Direction (depends on indoor unit model)	Louver Setting List	Setting table for louver.	26
	Reset All Louvers Position	Reset all louvers to factory default setting.	27
Ventilation Ventilation	Ventilation Rate	Used to set "Low" or "High"	28
for energy recovery ventilator	Ventilation Mode	Used to set Auto, ERV, or Bypass.	29
Schedule	Daily Patterns	 Day settings are selected from four patterns, i.e., "7Days", "Weekday/Sat/Sun", "Weekday/Weekend", and "Everyday". 	31
	Settings	 Set the startup time and operation stop time. ON: Startup time, cooling and heating temperature setpoints can be configured. OFF: Operation stop time, cooling and heating setback temperature setpoints can be configured. (: Indicates that the setback function is disabled for this time period.) Indicates that the temperature setpoint and setback temperature setpoint for this time period is not specified. The last active setpoint will be utilized. Up to five actions can be set for each day. 	32
Off Timer Used to set the run-time for the indoor u using this controller. • Possible to set in 10 minute increments fr		Used to set the run-time for the indoor unit using this controller. • Possible to set in 10 minute increments from	35
Celsius / Fahrenheit		 30 to 180 minutes. Used to select whether temperature values will be displayed in Celsius or Fahrenheit. 	
Menu item		Description	Reference page
---------------------------------	---	---	----------------
Filter Auto Clean		Set the time when the filter needs to be automatically cleaned. For the detailed operation refer to the Operation Manual of the self cleaning decoration panel.	_
Maintenance	nformation	Used to display the maintenance information.	37
Configuration	Draft Prevention (Only available with Occ. sensor installed indoor unit model)	The draft prevention function can be enabled or disabled . When enabled, the Occ. sensor will adjust the louver's position to prevent air blowing directly on occupant.	38
Contrast Adjustment		Used to make LCD contrast adjustment.	39
	Display	 Used to set the display mode. Display mode Standard, Detailed, or Simple display Detailed and Simple displays provide the selectable display item among Room Temp, System, None or Outside Air Temp. 	40
Current Settings		• Used to display a list of current settings for available items.	42
Clock & Date & Time Calendar		 Used to configure date and time settings and corrections. The default time display is 12H. The clock will maintain accuracy to within ±30 seconds per month. If there is a power failure for a period not exceeding 48 hours, the clock will continue working with the built-in backup power supply. 	42
	12H/24H Clock	The time can be displayed in either a 12 hour or a 24 hour time format.	45
Daylight Savir	ng Time	Used to adjust the clock in observance of daylight saving time.	45
Language		The display language can be selected between English , Francais , or Espanol .	48

Note: Available setting items vary with the indoor unit model.











	Setting et t 0 t 0 tmark Setting (\$	 Press ◄ button to select the airflow direction. Use ▼▲ buttons to change the airflow direction to the following: No Ind Set , Position 0 , Position 1 , Position 2 , Position 3 , Position 4 , Swing or Blocked . No Ind Set : No Individual Louver Setting. Blocked : Individual airflow is blocked. 	
5	ol Fri 11:03A Room Set to 74_F 74_F Basic screen	 If individual airflow direction is set, then the individual airflow direction icon is displayed in the basic screen. 	
Deration Operation 1 Individu Louver S Reset Al	er Setting	 Display the individual airflow direction screen. (See page 25.) Press V▲ buttons to select Louver Setting List and press Manu/OK button 	
	Satting List	A table shows the current settings.	



Operating condition	 Room temperature is higher than the remote controller's heating operation). When defrosting (in heating operation). (The airflow discharges horizontally to avoid creating a di occupants.) Under continuous operation with the airflow discharging heating heating	setpoint (in raft for the room horizontally.
Ventilation Ventilation Operation Main Menu Aiflow Direction Individual Aifflow Direction Ventilation Schedule Off Timer Celsius / Fahrenheit Setting Ventilation Ventilation Rate Ventilation Mode	 Display the main menu screen. (See page 22.) Press VA buttons to select Ventilation on the main menu screen. (For models with no ventilation function, Ventilation will not be displayed on the main menu screen.) Press Menu/OK button to display the ventilation screen. 	
Setting Changing Decration Ventilation Ventilation Rate Ventilation Mode	The ventilation rate • Navigate to the ventilation screen (see above). • Press ▼▲ buttons to select	

screen. Press **Menu/OK** button to display the ventilation rate screen.



Menu Options



• Selecting and confirming the desired ventilation mode will take you back to the basic screen. (Pressing **Cancel** button takes you back to the previous screen without changing the ventilation mode.)

Ventilation Mode

Auto mode	Using information from the indoor unit (cool, heat, fan, and setpoint) and the energy recovery ventilator unit (indoor and outdoor temperatures), the ventilation mode is automatically changed between ERV and Bypass.
ERV mode	Outside air is passed through the ERV core and is supplied to the conditioned space.
Bypass mode	Outside air is supplied to the conditioned space without passing through the ERV core.

Schedule

Setting the schedule

Operation The schedule will disappear when a multizone controller is connected, but can be re-enabled by the system installer.



- Display the main menu screen. (See page 22.)
- Press ▼▲ buttons to select Schedule Press Menu/OK button to display the schedule screen.







3	Save the settings?	 Press <> buttons to select Yes on the confirmation screen. Pressing Menu/OK button enters the daily patterns in the schedule and takes you back to the main menu screen. 	
∎S Ope	ettings		
1	Schedule Enable/Disable Daily Patterns Settings	 The schedule screen will appear. Press ▼▲ buttons to select Settings on the schedule screen. The settings screen will appear when Menu/OK button is pressed. 	
2	Schedule Time Act Cool Heat : : : : : : : Setting + +	 Press VA buttons to select the day to be set. * It cannot be selected in the case of EVDY. 	
3	Schedule Time Act Cool Heat Mon •••••••••••••••••••••••••	 Input the time for the selected day. Press ◀▶ buttons to move the highlighted item and press ▼▲ buttons to input the desired operation start time. Each press of ▼▲ buttons moves the numbers by 1 hour or 1 minute. 	



6	 Press <> buttons to select Yes on the confirmation screen. Pressing Menu/OK button confirms the settings for each day and takes you back to the basic screen. 	
Enabling or o	disabling the schedule	
Schedule Enable/Disable Daily Patterns Settings Setting	 Display the schedule screen. (See page 30.) Press ▼▲ buttons to select Enable / Disable on the schedule screen. Press Menu/OK button to display the enable/disable screen. 	
2 Enable/Disable Disable Setting	 Press VA buttons to select Enable or Disable on the enable/disable screen. Press Menu/OK button after selecting the item. The confirmation screen is displayed. 	
3 Save the settings? YES No Setting	 Press <> buttons to select Yes on the confirmation screen. Pressing Menu/OK button confirms the enable/disable setting for the schedule and takes you back to the basic screen. 	







Configur	ation	
■Draft Pre	evention	
Operation Main Menu Filter Auto Clean Maintenance Inform Corriguation Current Settings Clock & Calendar Daylight Saving Tim Settin	• Display the main menu screen. (See page 22.) • Press ▼▲ buttons to select Configuration and press Menu button.	u/OK
2 <u>Configuration</u> <u>Contrast Adjustm</u> Display <u>Settin</u>	• Press ▼▲ buttons to select Draft Prevention and press Menu/OK button.	
3 Draft Prevention Enable/Disable Disat	 Press ▼▲ buttons to select Enable or Disable . The confirmation screen will ap when Menu/OK button is press 	opear v
Draft Prevention Save the settings?	 Press ◄► buttons to select Ye Press Menu/OK button to confisettings and to return to the basis screen. 	irm the sic















Operation







When Daylight Saving Time is enabled

When the time in the remote controller reaches 2:00 a.m. on the specified start date, the clock is automatically set forward by one hour. When the time in the remote controller reaches 2:00 a.m. on the end date, the clock is automatically set back by one hour.

La	anguage		
∎S	electable La	nguages	
Ореі	ration		
1	Main Menu 3/3	 Display the main menu screen. (See page 22.) Press ▼▲ buttons to select Language on the main menu screen and press Menu/OK button. 	
2	English Setting	 Press ▼▲ buttons to select the preferred language on the language screen. English/Français/Español are available. Press Menu/OK button to confirm the settings and return to the basic screen. 	

Maintenance

eration	
Cool Set to 74 F	 When it is time to clean or replace the filter, one of the following messages will be displayed on the bottom of the basic screen. Time to clean filter Time to clean filter & element Time to clean element * This is not displayed when Simple display is set.
	 Wash, clean, or replace the filter or element. For details, refer to the operation manual supplied with the indoor unit.



Maintaining the Unit and LCD Display

- Wipe the LCD and surface of the remote controller with a dry cloth when they become dirty.
- If the dirt on the surface cannot be removed, soak the cloth in neutral detergent diluted with water, squeeze the cloth tightly, and clean the surface. Wipe the surface with a dry cloth.

Note

• Do not use any paint thinner, organic solvent, or strong acid.



After-sale Service

1 Warning

• Do not relocate or reinstall the remote controller by yourself. Improper installation may result in electric shocks or fire. Consult your Daikin dealer.

■Advise your Daikin Dealer of the following items

- Model name
- Date of installation
- Failure conditions: As precise as possible.
- Your address, name, and telephone number

■ Repairs after Warranty Period

Consult your Daikin dealer.

■Inquiry about After-sale Service

Contact your Daikin dealer.

13.7 <BRC082A43> Wireless Remote Controller for FDMQ



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1. SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this operation manual along with the installation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

Meaning of warning, caution and note symbols.

- WARNING Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION Indication a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices.
- NOTE.....Indication situation that may result in equipment or property-damage-only accidents.

Keep these warning sheets handy so that you can refer to them if needed.

Also, if this equipment is transferred to a new user, make sure to hand over this operation manual to the new user.

- A warning

- It is not good for your health to expose your body to the air flow for a long time.
- In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off power and call your dealer for instructions.
- Ask your dealer for installation of the air conditioner. Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.
- Ask your dealer for improvement, repair, and maintenance. Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.
- Do not put a finger, a rod or other objects into the air inlet or outlet. As the fan is rotating at high speed, it will cause injury.
- Ask your dealer to move and reinstall the air conditioner. Incomplete installation may result in a water leakage, electric shock, and fire.

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not operate the air conditioner with a wet hand. Otherwise, you could receive an electric shock.

- Do not use the air conditioner for other purposes. In order to avoid any quality deterioration, do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the air conditioner.
- Do not allow a child to mount on the unit or avoid placing any object on it.

Falling or tumbling may result in injury.

- Do not let children play on and around the unit. If they touch the unit carelessly, it may result in injury.
- Do not place a flower vase and anything containing water. Water may enter the unit, causing an electric shock or fire.
- Do not operate the air conditioner when using a room fumigation - type insecticide.
 Failure to observe could cause the chemicals to become denosited in the unit which could endanger the health of
- deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.
- Never use flammable spray such as hair spray, lacquer or paint near the unit.
 It may cause a fire.

. NAMES AND FUNCTIONS OF THE OPERATING SECTION (Fig. 1-1~3, 2)

1	DISPLAY "▲""I" (SIGNAL TRANSMISSION)
•	This lights up when a signal is being transmitted.
	DISPLAY " 🗞 " " 👔 " " 🖽 " " 🌞 " " 🔅 "
2	(OPERATION MODE)
-	This display shows the current OPERATION MODE. For
	VRV system, " (A) " is not installed.
3	DISPLAY " பிரிற " (SET TEMPERATURE)
	This display shows the set temperature.
4	DISPLAY " hr. e. i " (PROGRAMMED TIME)
	This display shows PROGRAMMED TIME of the sys-
	tem start or stop.
5	DISPLAY " 🖓 " " 🖓 " " ని" (FAN SPEED)
	This display shows the set fan speed.
	DISPLAY "WTEST" (INSPECTION/ TEST OPERA-
6	TION)
	When the INSPECTION/TEST OPERATION BUTTON
	is pressed, the display shows the system mode is in.
	ON/OFF BUTTON
7	Press the button and the system will start. Press the
	button again and the system will stop.

	FAN SPEED CONTROL BUTTON	
8	Press this button to select the fan speed, HIGH,	For the
	MEDIUM or LOW, of your choice.	display
	TEMPERATURE SETTING BUTTON	• Fig. 1-2
٩	Use this button for SETTING TEMPERATURE.	opened
3	(Operates with the front cover of the remote controller	• Fig. 2 s
	closed.)	tion with
	PROGRAMMING TIMER BUTTON	 If the ai
10	Use this button for programming "START and/or STOP"	the air f
	time. (Operates with the front cover of the remote con-	with the
	troller opened.)	Alter Ci
11	TIMER MODE START/STOP BUTTON	cleanin
	Refer to page 7.	The DE
12	TIMER RESERVE/CANCEL BUTTON	This is
12	Refer to page 7.	
12	OPERATION MODE SELECTOR BUTTON	
13	Press this button to select OPERATION MODE.	
	FILTER SIGN RESET BUTTON	3. HA
14	Refer to the section of MAINTENANCE in the operation	CC
	manual attached to the indoor unit.	Precaut
	INSPECTION/TEST OPERATION BUTTON	• Direct t
15	This button is pressed for inspection or test operation.	the rece
	Do not use for normal operation.	If somet
	EMERGENCY OPERATION SWITCH	indoor u
16	This switch is readily used if the remote controller does	operate
	not work.	
17	RECEIVER	
17	This receives the signals from the remote controller.	
	OPERATING INDICATOR LAMP (Red)	$ $ \times
18	This lamp stays lit while the air conditioner runs.	
	It flashes when the unit is in trouble.	
4.0	TIMER INDICATOR LAMP (Green)	
19	This lamp stays lit while the timer is set.	
	AIR FILTER CLEANING TIME INDICATOR LAMP (Red)	
20	Lights up when it is time to clean the air filter.	• Transm
	DEFROST LAMP (Orange)	Do not
21	Lights up when the defrosting operation has started.	lt may b
	(For cooling only type this lamp does not turn on.)	Never n
	FAN/AIR CONDITIONING SELECTOR SWITCH	hard, po
22	Set the switch to " 🎝 " (FΔN) for FΔN and " 🕀 " (Δ/C)	The rem
	for HEAT or COOI	Installat
	COOL/HEAT CHANGEOVER SWITCH	It is pos
22		have ele
23	Set the switch to " 💥 " (COOL) for COOL and " 🄅 "	salesma
	(HEAI) for HEAI.	

- e of explanation, all indications are shown on the Fig. 1-1 contrary to actual running situations.
- ows the remote controller with the front cover
- vs this remote controller can be used in conjunce one provided with the VRV system.
- ter cleaning time indicator lamp lights up, clean r as explained in the operation manual provided door unit.
- ing and reinstalling the air filter, press the filter button on the remote controller. The air filter me indicator lamp on the receiver will go out.
- OST lamp will flash when the power is turned on. a malfunction.

DLING FOR WIRELESS REMOTE ROLLER

- is in handling remote controller
- transmitting part of the remote controller to ng part of the air conditioner. g blocks the transmitting and receiving path of the and the remote controller as curtains, it will not

Receiver 2 short beeps from the receiver indicates that the transmission is properly done.

- ng distance is approximately 23 ft..
- p or get it wet. amaged
- s the button of the remote controller with a ed object.

controller may be damaged.

site

e that signals will not be received in rooms that onic fluorescent lighting. Please consult with the before buying new fluorescent lights. e controller operated some other electrical appathat machine away or consult your dealer.

Placing the remote controller in the remote controller holder

Install the remote controller holder to a wall or a pillar with the attached screw. (Make sure it transmits.)





Press ON/OFF button.

OPERATING INDICATOR lamp lights up or goes off and the system starts or stops OPERATION.

/!\ NOTE

Do not turn off power immediately after the unit stops. Then, wait no less than 5 minutes.

Water is leaking or there is something else wrong with the unit.

[EXPLANATION OF HEATING OPERATION] **DEFROST OPERATION**

- · As the frost on the coil of an outdoor unit increase, heating effect decreases and the system goes into DEFROST OPERATION.
- The fan operation stops and the DEFROST lamp of the indoor unit goes on.
- · After 6 to 8 minutes (maximum 10 minutes) of DEFROST OPERATION, the system returns to HEATING OPERATION.

Heating capacity & Outdoor air temperature

- · Heating capacity drops as outdoor air temperature lowers. If feeling cold, use another heater at the same time as this air conditioner.
- Hot air is circulated to warm the room. It will take some time from when the air conditioner is first started until the entire room becomes warm. The internal fan automatically turns at low speed until the air conditioner reaches a certain temperature on the inside. In this situation, all you can do is wait.
- If hot air accumulates on the ceiling and feet are left feeling cold, it is recommended to use a circulator. For details, contact the place of purchase.

ADJUSTMENT

For programming TEMPERATURE and FAN SPEED, follow the procedure shown below.



TEMPERATURE SETTING

Press TEMPERATURE SETTING button and program the setting temperature.



Each time this button is pressed, setting temperature rises 1°F.

Each time this button is pressed, setting temperature lowers 1°F.

In case of automatic operation



Each time this button is pressed, setting temperature shifts to "H" side.

Each time this button is pressed, setting temperature shifts to "L" side.

					[°F]
	Н	•	М	•	L
Setting temperature	77	73	71	70	66

· The setting is impossible for fan operation.

NOTE

The setting temperature range of the remote controller is 60°F to 90°F.



Press FAN SPEED CONTROL button.

High, Medium or Low fan speed can be selected. The microchip may sometimes control the fan speed in order to protect the unit.

PROGRAM TIMER OPERATION

Operate in the following order.

- The timer is operated in the following 2 ways. Programming the stop time (\oplus, \bigcirc) The system stops operating after the set time has elapsed.
- Programming the start time $(\oplus \cdot \mid)$ The system starts operating after the set time has elapsed.
- The timer can be programmed a maximum of 72 hours.
- The start and the stop time can be simultaneously programmed.



TIMER MODE START/STOP

Press the TIMER MODE START/STOP button several times and select the mode on the display.

The display flashes. For setting the timer stop \dots " \oplus - \bigcirc " For setting the timer start ". I"



PROGRAMMING TIMER

Press the PROGRAMMING TIMER button and set the time for stopping or starting the system.



3

4

 \cap

When this button is pressed, the time advances by 1 hour.



When this button is pressed, the time goes backward by 1 hour.

RESERVE TIMER RESERVE \square

Press the TIMER RESERVE button.

The timer setting procedure ends.

The display changes from flashing light to a constant light.

TIMER CANCEL

Press the TIMER CANCEL button to cancel programming. The display vanishes.
For example.



When the timer is programmed to stop the system after 3 hours and start the system after 4 hours, the system will stop after 3 hours and then 1 hour later the system will start.

After the timer is programmed, the display shows the remaining time.

HOW TO SET MASTER REMOTE CONTROLLER (For VRV system)

• When the system is installed as shown below, it is necessary to designate the master remote controller.

For Heat pump system

When 1 outdoor unit is connected with several indoor units.



designated as the master remote controller.

For Heat recovery system

When 1 BS unit is connected with several indoor units.



• Only the master remote controller can select HEATING, COOLING or AUTOMATIC OPERATION.

When the indoor unit with master remote controller is set to "COOL", you can switch over operation mode between "FAN", "DRY" and "COOL".

When the indoor unit with master remote controller is set to "HEAT", you can switch over operation mode between "FAN" and "HEAT".

When the indoor unit with master remote controller is set to "FAN", you cannot switch operation mode.

1 long beepWhen attempting settings than that consented above. Only with Heat recovery system, you can

set the indoor unit to AUTOMATIC. Attempting to do so.

How to designate the master remote controller Operate in the following order.



Continuously press the OPERATION MODE SELEC-TOR button for 4 seconds.

The displays showing " ④ " of all slave indoor unit connected to the same outdoor unit or BS unit flash.



Press the OPERATION MODE SELECTOR button to the indoor unit that you wish to designate as the master remote controller. Then designation is completed. This indoor unit is designated as the master remote controller and the display showing " \oplus " vanishes.

• To change settings, repeat steps (1) and (2).

EMERGENCY OPERATION

When the remote controller does not work due to battery failure or the absence there of, use this switch which is located beside the discharge grille on the indoor unit. When the remote controller does not work, but the battery low indicator on it is not lit, contact your dealer.



[START]



Press the EMERGENCY OPERATION switch.

The machine runs in the previous mode.

[STOP]



Press the EMERGENCY OPERATION switch again.

PRECAUTIONS FOR GROUP CONTROL SYSTEM OR 2 REMOTE CONTROLLERS CONTROL SYSTEM

This system provides 2 other control systems beside individual control (1 remote controller controls 1 indoor unit) system. Confirm the following if your unit is of the following control system type.

8

Group control system 1 remote controller controls up to 16 indoor units. All indoor units are equally set.

2 remote controllers control system
 2 remote controllers control 1 indoor unit.
 (In case of group control system, 1 group of indoor units)
 The unit follows individual operation.

- Cannot have 2 remote controllers control system with only wireless remote controllers. (It will be a 2 remote controllers control system having 1 wired and 1 wireless remote controllers.)
- Under 2 remote controllers control system, wireless remote controller cannot control timer operation.
- Only the operating indicator lamp out of 3 other lamps on the indoor unit display functions.
- Contact your dealer in case of changing the combination or setting of group control and 2 remote controllers control systems.

5. NOT MALFUNCTION OF THE AIR CONDITIONER

The following symptoms do not indicate air conditioner malfunction.

- THE SYSTEM DOES NOT OPERATE
- The system does not restart immediately after the ON/ OFF button is pressed.

If the OPERATING INDICATOR lamp lights, the system is in normal condition. It does not restart immediately because a safety device operates to prevent overload of the system. After 3 minutes, the system will turn on again automatically.

• The system does not restart immediately when TEM-PERATURE SETTING button is returned to the former position after pushing the button.

It does not restart immediately because a safety device operates to prevent overload of the system. After 3 minutes, the system will turn on again automatically.

- If the reception beep is rapidly repeated 3 times. (It sounds only 2 times when operating normally.) Control is set to the optional controller for centralized control.
- If the DEFROST lamp on the indoor unit's display is lit when heating is started.

This indication is to warn against cold air being blown from the unit. There is nothing wrong with the equipment.

- The unit stops operation from time to time.
- With "U4" "U5" displayed on the remote controller, the unit stops, but it resumes operation in a few minutes. Since electric noises produced from other equipment than the air conditioner interrupt communication between the units, the unit stops operation.

If these electric noises subside, operation is restarted automatically.

- COOLING / HEATING changeover is impossible.
- If the indoor unit emits a receiving sound "1 long beep". It is because the indoor unit under the control of operation changeover is set to the mode that cannot be selected.

- Display Indicates only a part.
- Even if the unit is in operation, the display shows only operational indication. Even if the indication is shown, the indication other than operation disappears after a while. It is because the remote controller is set to multi-system.
- Display disappears or shows all indication.
- It happens when the button of the remote controller is pressed.
- It is because the battery is dead.
- No favorable cooling is achieved.
- The unit is in DRY OPERATION.
 DRY OPERATION is carried out to perform operation such that the room temperature is not decreased as much as possible.

6. HOW TO DIAGNOSE TROUBLE SPOTS

EMERGENCY STOP

When the air conditioner stops in emergency, the run lamp on the indoor unit starts blinking. Take the following steps yourself to read the malfunction code that appears on the display. Contact your dealer with this code. It will help pinpoint the cause of the trouble, speeding up the repair.





Press the INSPECTION/TEST OPERATION button to select the inspection mode " 🖓 ".

" 🞵 " appears on display and blinks. "UNIT No." lights up.



Press PROGRAMMING TIMER button and change the unit number.

Press to change the unit number until the indoor unit beeps and perform the following operation according to the number of beeps.

Number of beeps

- 3 short beeps Perform all steps from 3 to 6.
- 1 short beep..... Perform $\textcircled{\textbf{3}}$ and $\textcircled{\textbf{6}}$ steps.
- 1 long beep Normal state



- The system operates but it does not sufficiently cool or heat.
 - If the set temperature is not proper. (See page 7)
 - If the FAN SPEED is set to LOW SPEED. (See page 7)

Contact the place of purchase in the following case.

13.8 <BRC082A41W, BRC082A42W(S)> Wireless Remote Controller for FFQ



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Thank you for purchasing this Daikin remote controller. Carefully read this operation manual before using the air conditioner. It will tell you how to use the unit properly and help you if any trouble occurs. After reading the manual, file it away for future reference.

The English text is the original instruction. Other languages are translations of the original instructions.

Safety considerations

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, we recommend that you read this instruction manual carefully before use. The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

WARNING

Failure to follow these instructions properly may result in personal injury or loss of life. **CAUTION**

Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances. Information classified as **NOTE** contains instructions to ensure proper use of the equipment.

After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.

- Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.
- When the air conditioner is malfunctioning (giving off a burning odor, etc.) turn off power to the unit and contact your local dealer. Continued operation under such circumstances may result in a failure, electric shock or fire hazards.
- Do not attempt to install or repair the air conditioner yourself. Improper workmanship may result in water leakage, electric shock or fire hazards. Please contact your local dealer or qualified personnel for installation and maintenance work.
- Ask your dealer to perform servicing or repairs whenever necessary.

Improper servicing or repairs may result in water leaks, electric shock or fire.

- Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Injury may result due to contact with the air conditioner's highspeed fan blades.
- Consult your local dealer regarding relocation and reinstallation of the air conditioner. Improper installation work may result in leakage, electric shock or fire hazards.

- Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.
- Do not expose plants or animals directly to air flow from the unit as this may cause adverse effects.
- To avoid electric shock, do not operate with wet hands.
- Do not place burners or heaters in places exposed to the air flow from the unit as this may impair combustion of the burner or heater.
- Do not place flammable sprays or operate spray containers near the unit as this may result in fire.

Names and functions of the operating section

See figure 1, (figure 1B shows the remote controller with front cover opened)

- 1 DISPLAY " 🛦 " (SIGNAL TRANSMISSION) This lights up when a signal is being transmitted.
- 2 DISPLAY " **论** " " **记** " " **记** " " **长** " " **张** " " **梁** " (OPERATION MODE) This display shows the current OPERATION MODE.
- 3 DISPLAY "^H·M·b", " **B**Ω[®]_F" (SET TEMPERATURE) This display shows the set temperature.
- 4 DISPLAY "hr. ⊕ O hr. ⊕ I " (PROGRAMMED TIME) This display shows PROGRAMMED TIME of the system start or stop.
- 5 DISPLAY " ⊷\⊂" (SWING FLAP) Refer to "AIR FLOW DIRECTION ADJUST" on page 5.
- 6 DISPLAY " & " " & " " , " (FAN SPEED) The display shows the set fan speed.
- 7 DISPLAY "爸TEST" (INSPECTION/TEST OPERATION) When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.
- 8 ON/OFF BUTTON Press the button and the system will start. Press the button again and the system will stop.
- 9 FAN SPEED CONTROL BUTTON Press this button to select the fan speed, LOW, MEDIUM or HIGH, of your choice.
- 10 TEMPERATURE SETTING BUTTON Use this button for SETTING TEMPERATURE.
- 11 TIMER MODE START/STOP BUTTON Refer to "TIMER MODE START/STOP" on page 6.
- 12 TIMER RESERVE/CANCEL BUTTON Refer to "PROGRAMMING TIME" on page 6.
- 13 AIR FLOW DIRECTION ADJUST BUTTON
- Refer to "AIR FLOW DIRECTION ADJUST" on page 5. 14 OPERATION MODE SELECTOR BUTTON
- Press this button to select OPERATION MODE.
- 15 FILTER SIGN RESET BUTTON Refer to the section of MAINTENANCE in the operation manual attached to the indoor unit.
- 16 INSPECTION/TEST OPERATION BUTTON This button is used only by qualified service persons for maintenance purposes.

- See figure 3, (receiver on decoration panel)
- 17 EMERGENCY OPERATION SWITCH This switch is readily used if the remote controller does not work.
- 18 RECEIVER This receives the signals from the remote controller.
- 19 OPERATION LAMP (Red) This lamp stays lit while the air conditioner runs. It blinks when the unit is in trouble.
- 20 TIMER LAMP (Green) This lamp stays lit while the timer is set.
- 21 AIR FILTER CLEANING TIME INDICATOR LAMP (Red) Lights up when it is time to clean the air filter.
- 22 DEFROST LAMP (Orange)
 - Lights up when the defrosting operation has started.
- For the sake of explanation, all indications are shown on the display in figure 1 contrary to actual running situations.
 If the AIR FILTER CLEANING TIME INDICATOR lamp lights up, clean the air filter as explained in the operation manual provided with the indoor unit. After cleaning and reattaching the air filter, press the FILTER SIGN RESET button on the remote controller. The AIR FILTER CLEANING TIME INDICATOR lamp on the receiver will go out.
 - The DEFROST lamp will blink when the power is turned on. This is not a malfunction.

Handling for wireless remote controller

Precautions in handling remote controller

- Direct the transmitting part of the remote controller to the receiving part of the air conditioner.
- If something blocks the transmitting and receiving path of the indoor unit and the remote controller such as curtains, it will not operate.



- Transmitting distance is approximately 23ft (7m).
- 2 short beeps from the receiver indicates that the transmission is properly done.
- Do not drop or get it wet. It may get damaged.
- Never press the button of the remote controller with a hard, pointed object.

The remote controller may get damaged.

Installation site

- It is possible that signals will not be received in rooms that have electronic fluorescent lighting. Please consult with the salesman before buying new fluorescent lights.
- If the remote controller operated some other electrical apparatus, move that machine away or consult your dealer.

Placing the remote controller in the remote controller holder

Choose a place where the signals reach the unit. Install the remote controller holder to a wall or a pillar with the attached screw.



How to put the batteries

- 1 Slide the back cover to take it off.
- 2 Insert 2 dry batteries AAA. LR03 (alkaline).



3 Replace the back cover.

When to change batteries

Under normal use, batteries last about a year. However, if the remote controller display begins to fade and the possible transmission range becomes shorter within a year, replace both batteries as specified above.

NOTE

Replace the two batteries at the same time, do not use new and old batteries intermixed. In case the remote controller is not used for a long time, take out all batteries in order to prevent liquid leak of the battery.

In case of a centralized control system

If the indoor unit is under centralized control, it is necessary to switch the remote controller's setting. In this case, contact your dealer.

Operation range

- Refer to the operation manual provided with the indoor unit or with the outdoor unit.
- If the indoor temperature or humidity is beyond operating conditions as listed in the indoor unit or outdoor unit manuals, it may happen
 - that safety devices work
 - that the air conditioner does not operate,
 - that water drips from the indoor unit.
- The setting temperature range of the remote controller is 60°F (16°C) to 90°F (32°C).

Operation procedure

 If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.

COOLING, HEATING, AUTOMATIC, FAN and **DRY** operation

Operate in the following order:

AUTOMATIC operation can be selected only by heat pump system.

For systems without a cool/heat changeover remote control switch



OPERATION MODE SELECTOR

MODE See figure 1

Press the OPERATION MODE SELECTOR button several times and select the OPERATION MODE of your choice as follows: чŤа ...

- COOLING operation	÷Ť
- HEATING operation	۵
- AUTOMATIC operation f - In this operation mode, COOL/HEAT changeover is automatically conducted.	Ā
- FAN operation	Z.

- DRY operation - This operation is to decrease the humidity in your room with the minimum temperature decrease

- The set point is the air temperature when starting operation by DRY operation.
- Micro computer automatically determines TEMPERATURE and FAN SPEED.
- DRY operation will not activate when room temperature is 57°F (14°C) or less.



Press ON/OFF button.

The OPERATION lamp lights up or goes off and the system starts or stops operation.

ON/OFF



2

Do not turn OFF power immediately after the unit stops. Wait at least 5 minutes. Failure to do so may result in water leakage etc.

Explanation of HEATING operation **DEFROST** operation

- As the frost on the coil of an outdoor unit increase, heating effect decreases and the system goes into DEFROST operation.
- The FAN operation stops and the DEFROST lamp of the indoor unit goes on.

After about 4 to 12 minutes of DEFROST operation, the system returns to HEATING operation.

Heating capacity and outdoor air temperature

- Heating capacity drops as outdoor air temperature lowers. If feeling cold, use another heater at the same time with this air conditioner.
- Hot air is circulated to warm the room. It will take some time from when the air conditioner is first started until the entire room becomes warm. The internal fan automatically turns at low speed until the air conditioner reaches a certain temperature on the inside.
- If hot air accumulates on the ceiling and feet are left feeling cold, it is recommended to use a circulator. For details, contact the place of purchase.

Adjustment

For programming TEMPERATURE, FAN SPEED and AIR FLOW DIRECTION, follow the procedure shown below.

Press TEMPERATURE SETTING button and program the setting temperature.



Each time this button is pressed, setting temperature rises 1°F (0.56°C).

Each time this button is pressed, setting temperature lowers 1°F (0.56°C).

DOWN

In case of AUTOMATIC operation



Each time this button is pressed, setting temperature shifts to "H" side.

Each time this button is pressed, setting temperature shifts to "L" side.

DOWN

					°F(°C)
	Н	•	М	•	L
Setting temperature	77 (25)	73 (23)	71.5 (22)	70 (21)	66 (19)

The setting is impossible for FAN operation

- The setting temperature range of the remote controller is 60°F (16°C) to 90°F (32°C).



FAN SPEED CONTROL

- Press FAN SPEED CONTROL button.
- LOW, MEDIUM or HIGH fan speed can be selected.
- The micro computer may sometimes control the fan speed in order to protect the unit.



The movable limit of the flap is changeable. Contact your dealer for details.

Up and down adjustment



Press the AIR FLOW DIRECTION ADJUST button to select the air direction as shown below.



Display appears and the air flow direction continuously varies.

(Automatic swing setting.) Press AIR FLOW DIRECTION ADJUST button to select the air direction of your choice. Display vanishes and the air flow direction is

fixed. (Fixed air flow direction setting.)

Movement of the swing flap For the following conditions, the micro computer controls the air flow direction so it may be different from the display.

Operation When starting operation. When room temperature is higher than the set temperature. In DEFROST operation. (The flaps turn to the horizontal position to avoid blowing cold air directly on the occupants of the room.) 	Operation mode	HEATING
	Operation conditions	 When starting operation. When room temperature is higher than the set temperature. In DEFROST operation. (The flaps turn to the horizontal position to avoid blowing cold air directly on the occupants of the room.)

Operation mode includes AUTOMATIC

NOTE

operation.



Troubleshooting

Emergency stop

(See figure 2)

When the air conditioner stops unexpectedly, the OPERATION lamp on the indoor unit starts blinking. Take the following steps yourself to read the malfunction code that appears on the display. Contact your dealer with this code. It will help pinpoint the cause of the trouble and speeding up the repair.

1 ***** TEST

Press the INSPECTION/TEST button to select the inspection mode.

"UNIT No." lights up and the unit number " 🛙 " blinks.

2

Press the TEMPERATURE SETTING button and change the unit number.

Hold down the TEMPERATURE SETTING button until the indoor unit emits one of the following beep tones.

Number of beeps

- 3 short beeps perform all steps from 3 to 6
- 1 short beep perform steps 3 and 6
- 1 long beep.....No trouble

3 (MODE

Press the OPERATION MODE SELECTOR button. " **G** " on the left-hand of the malfunction code blinks.

Press the TEMPERATURE SETTING button and change the malfunction code.

Press until the indoor unit makes 2 short beeps.

5 (MODE

Press the OPERATION MODE SELECTOR button. " []" on the right-hand of the malfunction code blinks.

7

Press the TEMPERATURE SETTING button and change the malfunction code.

Press until the indoor unit makes a long beep. The malfunction code is fixed when the indoor unit makes a long beep.

MODE Reset of the display.

Press OPERATION MODE SELECTOR button to get the display back to its normal state.

In case besides emergency stop

- 1 The unit does not operate at all.
 - Check if the receiver is exposed of sunlight or strong light. Keep receiver away from light.
 - Check if there are batteries in the remote controller. Place the batteries.
 - Check if the indoor unit number and wireless remote controller number are equal. See figure 4.
 Operate the indoor unit with the remote controller of the same number.
 Signals transmitted from a remote controller of a different number cannot be accepted. (If the number is not mentioned, it is considered as "1".)
- The system operates but it does not sufficiently cool or warm.
 - Check if the set temperature is proper.
 - Check if the FAN SPEED is not set to LOW SPEED.
 - Check if the air flow angle is proper.
 - Contact the place of purchase in the following case.



When you detect a burning odor, shut OFF power immediately and contact the place of purchase. Using the equipment in anything but proper working condition can result in equipment damage, electric shock and/or fire.

Trouble

The OPERATION lamp of the indoor unit is blinking and the unit does not work at all. See figure 5.

- 1 Malfunction code
- 2 Unit No. which sensed trouble
- 3 INSPECTION display

Remedial action

Check the malfunction code (8 + 5) on the remote controller. Notify and inform the model name and what the malfunction code indicates to your dealer.

When you think there is something wrong

The following symptoms do not indicate air conditioner malfunction:

Symptom 1: The system does not operate

Example	Reason
The system does not restart immediately after the ON/ OFF button is pressed.	If the OPERATION lamp lights, the system is in normal condition. It does not restart immediately because a safety device operates to prevent overload of the system. After 3 minutes, the system will turn on again automatically.
If operation stops as a result of changing the temperature setting, there will be a delay before operation restarts if the setting is lowered (in COOLING) or raised (in HEATING) again.	It does not restart immediately because a safety device operates to prevent overload of the system. After 3 minutes, the system will turn on again automatically.
If the reception beep is rapidly repeated 3 times (It sounds only twice when operating normally.)	Control is set to the optional controller for centralized control.
If the DEFROST lamp on the indoor unit's display is lit when heating is started.	This indication is to warn against cold air being blown from the unit. There is nothing wrong with the equipment.
The outdoor unit stops.	Because the room temperature reaches to the set temperature. The indoor unit goes into FAN operation.

Symptom 2: The unit stops once in a while

Example	Reason
The remote controller indicates "மு" and "ம5", the unit stops. Within several minutes the unit restarts.	Due to electrical noise other than that from the air conditioner, the communication between the units is cut off and the unit stops. When the noise is gone, the unit automatically restarts.

Symptom 3: No changeover is available between HEATING and COOLING modes

Example	Reason
The indoor unit makes a	When operation changeover
long beep sound.	is under control, the control
	is set to the mode that
	cannot be carried out.

Symptom 4: Air flow rate cannot be obtained as set

Example	Reason
During HEATING operation, even if the FAN SPEED CONTROL button is pressed, the air flow rate does not change.	When the room temperature reaches the indoor unit set temperature, the outdoor unit stops and the air flow rate of indoor unit drops to the minimum. This is to avoid the cold air from getting in contact with the people in the room.

Symptom 5: Air discharge direction is not as set

Example	Reason
The remote controller indication and the air discharge direction is not the same. Air discharge direction swing is impossible.	Because it is controlled by microcomputer. Refer to "AIR FLOW DIRECTION ADJUST" on page 5.

Symptom 6: Only a part of indication shows

Example	Reason
Even if the unit is operated, only the operation indication shows, or even if the indication shows, soon after, the indication other than that for operation disappears.	The corresponding indoor unit is that for multi-system and the remote controller is set to the multi-system.

Symptom 7: No indication shows or all indication show

Example	Reason
When the remote controller button is pressed.	The battery is dead.

Symptom 8: Insufficient cooling

Example	Reason
It is in DRY operation.	The DRY operation is an operation mode trying to keep the room temperature constant as much as possible. Refer to "COOLING, HEATING, AUTOMATIC, FAN and DRY operation" on page 4.

14. Options 14.1 Option List 14.1.1 Indoor Unit

FTXR Series

	Optior	n Name	Model Name
1	Wired remote controller +1		BRC944B2
2	Wired remote controller cord	Length 9.8 ft (3 m)	BRCW901A03
	(shielded wire)	Length 26.3 ft (8 m)	BRCW901A08
3	Wireless LAN connection adaptor		AZAI6WSCDKB
4	Wiring adaptor for timer clock / remote controller (normal open pulse contact / normal open contact) ★2		KRP413BB1S
5	Central remote controller +3		DCS302C71
6	Unified ON/OFF controller ★3		DCS301C71
7	Schedule timer controller $\star 3$		DST301BA61
8	Interface adaptor for DIII-NET (res	sidential air conditioner)	KRP928BB2S
9	Titanium apatite deodorizing filter	(without frame) ★4	KAF970A46
10	Remote controller loss prevention	with chain	KKF910A4

★1 3 m (BRCW901A03) or 8 m (BRCW901A08) length wired remote controller cord is necessary.
★2 Timer clock and other devices; obtained locally.
★3 An interface adaptor (KRP928BB2S) is also required for each indoor unit.
★4 Standard accessory. Notes:

FDMQ Series

	Option	Name	Model Name		
1	1 Remote controller (required)	Wired type ★1	BRC1E73		
		Wireless type	BRC082A43		
2	Wireless LAN connection adaptor		AZAI6WSCDKA		
3	3 Central remote controller		DCS302C71		
4	Unified ON/OFF controller		DCS301C71		
5	Schedule timer controller		DST301BA61		
6	Remote sensor		KRCS01-4B		
7	Wiring adaptor ★2		KRP1C74		
8	Installation box for adaptor PCB		KRP4A98		
9	Remote controller loss prevention v	vith chain	KKF910A4		

★1 Wiring for wired remote controller should be obtained locally.
★2 Installation box for adaptor PCB (KRP4A98) is necessary. Notes:

FFQ Series

	Opti	on Name	Model Name		
		Wired type ★1	BRC1E73		
1	Romoto controllor (required)		BRC082A42W (for BYFQ60C2W1W)		
'	Remote controller (required)	Wireless type ★2	BRC082A42S (for BYFQ60C2W1S)		
			BRC082A41W (for BYFQ60B3W1)		
			BYFQ60C2W1W		
2	2 Decoration panel (required)		BYFQ60C2W1S		
			BYFQ60B3W1		
3	Wireless LAN connection adapted	pr	AZAI6WSCDKA		
4	Central remote controller		DCS302C71		
5	Unified ON/OFF controller		DCS301C71		
6	Schedule timer controller		DST301BA61		
7	Remote sensor		KRCS01-4B		
8	Adaptor for wiring ★3		KRP1C75		
9	Wiring adaptor for electrical appendices ★3		KRP4A74		
10	Installation box for adaptor PCB		KRP1BB101		
11	Sonsor kit		BRYQ60A2W (for BYFQ60C2W1W)		
			BRYQ60A2S (for BYFQ60C2W1S)		
12	Panel spacer		KDBQ44BA60A (for BYFQ60B3W1)		
13	Sealing member of air discharge	outlet	BDBHQ44C60		
14	Fresh air intake kit (direct installa	ation type)	KDDQ44XA60		
15	Longlife filter		KAFQ441BA60		

Notes:

^{★1} Wiring for wired remote controller should be obtained locally.
★2 Sensing function and individual flap control function are not available.
★3 Installation box for adaptor PCB (KRP1BB101) is necessary.

14.1.2 Outdoor Unit

	Option Name	09/12 Class	15/18/24 Class
1	Air direction adjustment grille	KPW937F4	KPW063B4
2	Back protection wire net	KKG067A41	KKG063A42
3	Drain plug ★	KKP9	37A4
		FTDBHMS	FTDBHML
4	Drain pan heater	KEH067A41E KEH067A41EA	KEH063A4E KEH063A4EA
5	Snow hood (intake side plate)	KPS067A41	KPS063A41
6	Snow hood (intake rear plate)	KPS067A42	KPS063A44
7	Snow hood (outlet)	KPS067A44	KPS063A47

Notes: ★ Standard accessory

14.2 <BRC944B2> Wired Remote Controller Installation Manual





14.3 <BRC944B2> Wired Remote Controller Operation Manual









Automatic operation

 In Automatic, the temperature setting and operation mode (DRY, Cooling or Heating) are automatically selected according to the room temperature and outdoor temperature at the time of starting operation.

DRY operation

- In this mode, humidity is removed from the air.
- While running in the DRY mode, you may feel cool or warm air from the air outlet. In this case, readjust the airflow direction with the vertical airflow direction louvers. (except Duct Connected type)

■ To adjust the temperature and airflow rate:

Operation Setting mode to be adjusted	Automatic	DRY				
<pre></pre>	Temperat Reco Cooling Heating	Temperature cannot be adjusted.				
<pre></pre>	Airflow rate cannot be adjusted.					

• When the unit runs in the cooling or heating mode at a low airflow rate, the cooling or heating effect may be insufficient.

To adjust the airflow direction:

(🖙 page 9)

Heating operation)

- Since the heating operation is performed by taking the heat from outdoor into the room, the heating capacity decreases as the outdoor temperature lowers. If the room is not heated sufficiently, it is recommended to use other heating appliance at the same time.
- Since the air conditioner heats the whole room by circulating hot air, it takes some time to heat the entire room completely.
- If the outdoor unit gets frosted during heating operation, the heating capacity is decreased. In this case, the unit starts defrosting operation.
- No hot air comes out of the indoor unit during defrosting operation.















14.4 <BRCW901A03/08> Wired Remote Controller Cord

Safety Precautions

- Turn OFF the controlled equipment when connecting the equipment.
- Hold the plug of the connector when connecting or disconnecting the connector.

Precautions for Use

- This remote controller cable is of thin-profile BRC944-series remote controller units.
- Be sure to ground both ends of the shield wire.
- Install the controlled equipment after reading through the installation manual of the equipment.



14.5 <KRP413BB1S> Wiring Adaptor for Timer Clock/Remote Controller

Safety P	recautions
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- Read these safety precautions carefully before installing the unit, and be sure to install the unit properly.
- This manual classifies precautions to the user into the following two categories. These warnings and cautions are for your safety. Follow them.

Faulty installation can result in death or serious injury.
Faulty installation can result in serious injury, damage to property, or other serious consequences.

 After installation is complete, test the unit to confirm that it is working properly, and instruct the owner its proper use.

/!\ WARNING

- Installation should be left to the dealer from whom you purchased the unit, or another qualified professionals.
- Install the unit securely according to the installation manual. Faulty installation may lead to electric shock or fire.
- Be sure to use the supplied or specified parts. Using other parts may lead to electric shock or fire.
- Install the unit securely in a location that will support its weight. If installed in a poor location or improperly installed, the unit may not work as intended.
- For electrical work, follow local electric standards and the installation manual. Faulty installation may lead to fire or electric shock.
- Do not bundle the power cord, or attempt to extend it by splicing it with another cord or by using an extension cord. Do not place any other load on the power circuit used for the unit. Improper wiring may lead to electric shock, heat generation or fire.
- Use dedicated wiring for all electrical connections, and be sure to arrange the wiring so that force applied to the wiring will not damage the terminals. Poor wiring or installation may cause electric shock, heat generation or fire.

- Before installation, unplug the air conditioner to ensure safety. Failure to do so may cause electric shock.
- Static electricity may damage electric components. Before connecting cables and communication lines, and operating the switches, be sure to discharge any electrical charge from your body (by, for example, touching the earth line)
- Do not install the unit in a location where it may be exposed to flammable gases. If gas leaks and build up around the unit, it may catch fire.
- Do not place the wiring close to the power cord, inter-unit cable, or pipes which generate noise. Treat the wiring with care.

1. Functions and Features

- On/Off setting
- Switching between Instantaneous Contact/Normal Contact
- Connection with fan coil remote controller
- Automatic reset after power failure
- Output of normal operation signals/malfunction signals

2. Field Wiring

For interconnecting wiring, use Daikin KDC100A12 cable (not supplied) or other similar cable. Use a vinyl-covered wire or cable with four conductors each with a thickness of 0.2 to 1.25 mm².

Optional cable KDC100A12 (without connectors)

Specifications:	$0.2 \text{ mm}^2 \times 4 \text{ core (sheathed)}$
Outer diameter:	φ 5 .3
Length:	100 m
Colour:	Grev

Note : Keep any wiring for the control unit away from the power cord to prevent electrical noise.

i Installation	diagram					
(A sold separately remote control PC-board set with an S21 terminal is required for some models.)	S21 A sold separa for some mod	HA casing HA casing Local wiring or power cord, etc.				
2 Components 1 HA casing ASSY (Remote Control PCB is attack	ed in the HA casing.)	②Wiring (approx. 0.8 m) (Cannot be made longer.)				
③Accessories Binding band (6 pcs.) • Screws for attaching to the wall (3 pcs.) ④Installation manual						







Japanese unit / Overseas unit

Setting switch (SW3-3)

Service monitor (LED1: green)

When the CPU is working properly, the LED flashes.

14.6 <KRP928BB2S> Interface Adaptor for DIII-NET

Safety Precautions 1. Overview. Features and Compatible Models This kit is the interface required when connecting the central controller · Read these Safety Precautions carefully to ensure correct installation. and a Room Air Conditioner. Use of the central controller makes it This manual classifies precautions into WARNING and CAUTION. possible to perform the following monitoring and operations. It is compatible with room air conditioners which have an HA connector S21. WARNING : Failure to follow WARNING is very likely to result in such grave consequences as death or serious injury. 1.Run / stop for the central controller and wired remote controller, operating mode selection, and temperature can be set. CAUTION : Failure to follow CAUTION may result in serious injury or 2. The operating status, any errors, and the content of those errors can be monitored property damage, and in certain circumstances, may result in from the central controller and wired remote controller. a grave consequence. 3.Run / stop for the central controller and wireless remote controller, operating mode selection, and the temperature setting can be limited by the central controller. Be sure to follow all the precautions below ; they are all important for 4.Zone control can be performed from the central controller. 5. The unit can remember the operating status of the air conditioner before a power ensuring safety. outage and then start operating in the same status when the power comes back on. 6.Card keys, operating control panels, and other constant / instantaneous connection-compatible equipment can be connected. 7. The Operating / error signals can be read Installation should be left to the dealer or another gualified professional. 8. The indoor temperature can be monitored from the iTM / iTC. Improper installation by yourself may cause malfunction, electrical shock, or fire. Precaution Install the set according to the instructions given in this manual. When reading the Operating / error signals, a separate external power source 1. Incomplete or improper installation may cause malfunction, electrical shock, or fire. (12 V DC) is needed. 2. A separate timer power source (16 V DC) is needed when using the schedule Be sure to use the standard attachments or the genuine parts. timer independently, and not in conjunction with other central controllers. Use of other parts may cause malfunction, electrical shock, or fire. The range of temperatures that can be set from the central controller is 18°C to Disconnect power to the connected equipment before starting installation. 32°C in cooling and 14°C to 28°C in heating. Failure to do so may cause malfunction, electrical shock, or fire Fan operation cannot be selected from the central controller or wired remote controller. Group control (i.e., control of multiple indoor units with a single remote controller) is A ground fault circuit interrupter / an earth leakage circuit breaker should 5. not available be installed. 6 Monitoring is not available of the thermo status, compressor operating status, If the breaker is not installed, electrical shock may occur. indoor fan operating status, electric heater, or humidifier operating status. Forced thermo off, filter sign display and reset, fan direction and speed settings, air conditioning fee management, energy savings instructions, low-noise 7 instructions, and demand instructions cannot be made. 8. Since a stop due to a momentary power failure cannot be detected, automatic · Do not install the set in a location where there is danger of exposure to operating start may not be possible inflammable gas. Gas accumulated around the unit at the worst may cause fire. 2.Component Parts To prevent damage due to electrostatic discharge, touch your hand to a This kit includes the following components. Check to ensure that none of nearby metal object (doorknob, aluminum sash, etc.) to discharge static these are missing. electricity from your body before touching this kit. Static electricity can damage this kit. Q'tv Q'tv Parts Parts Lay this cable separately from other power cables to avoid external Kit assv Connection harness (about 1.6m) 1 electrical noises. PCB is in the housing. Mounting screws 3 1 6 Binding band After installation is complete, test the operation of the PCB set to check Installation manual 2 for problems, and explain how to use the set to the end-user. **3.Names of Parts and Electric Wiring** <Wiring procedure> Connecting a Momentary / constant Connecting a Wired Reading the In case that a central Remote Controller* Contact Input Equipment Operating / error Display controller is connected Operating monitoring Card key mote controlle entral controller equipment (field supply) (field supply) **BBC944** Series DCS302 Series Operating control panel BRC073 Series DCS301 Series (field supply) DCS401 Series DST301 Series DCM601 Series The adapter included with the DCL401 Series remote controller is not used. KDC100A10, and KDC101B Series cannot be connected ٢ì A cable field supply Separately sold remote control code (quadplex) KRCW101A Series Cable available field supply (See the installation manual of Non polarity the central controller) $\overline{\mathcal{V}}$ Supplied connection harness (Cannot be made longer.) $\otimes \otimes \otimes \otimes \otimes \otimes \otimes \otimes$ Room air conditioner indoor uni Remote control all prohibition/permission setting switch (SW3-1) Momentary contact ems ² 1031 constant contact Selection switch (SW3-2) Power supply terminal (S8)

A sold separately connector

adapter is required for some

models

Lower group number switch (SW1)

B765 4321

Upper group number switch (SW2-5 to 7)

SW2

Operation when recovering from a power outage mode switch (SW2-R)

Connect an external 12 V

only when reading the

Operating / error display

DC power supply

To HA connector (S21) (A sold separately rem

Sold separately remote control C-board set with an S21 terminal required for some models.)

*For wired remote controller compatible models

see the list of products which are sold separately

	Turn Setti	the p	ower o	on aft /hile 1	er all the switches ha	ve been set. valid.	When using operation fr	a cer om wi v whe
Onen the K	it's case	and s	et the	swite	thes on the circuit ho	ard	continuousi	ed; ×
(1) For Ove Room a automat	rseas / J ir conditi ic mode,	lapane oners so th	ese un , differ is swit	it set ent m ch ne	ting (SW3-3) nethods are used for seeds to be set.	setting the temperature	e in S1	
Destination	SW3-3	3 settir	ng		What Ha	appens	mode	
Japan	O (Factory	PFF y setti	ng)	"Auto Whe contr (heat	matic" operation is not ava n using "automatic" operatio oller, the central controller ing) and 25°C. Even if the	ilable from the central contro on using the wireless remote displays automatic cooling temperature is changed, it wi	ller.	0
Overseas	(N		"Auto	n to 25°C atter a while.	ble from the central contro	ller	0
2) Group n Set thes than on Use SW	umber s se when e unit to /2-R for	etting using the sa (3) Se	s (SW the ce ame nu ettings	1 and entral umbe wher	I SW2-5 to SW2-7) controller. (Set to the r. recovering from a po	side.) Do not set mo	Instantaneo ore contact mo	us C de La
However, th	nese sett	ings d	lo not	need	to be made when us	ing the schedule timer		is re
The setting central coni this case, group numbe	ntly. gs are ne troller.) the sched ers are au	eded ule tim tomatio	when her perfically se	used orms t. Sett	in conjunction with a an auto address after th ings made using the sw	nother DCS Series e power is turned on, so r itches will be overwritten.	Constant Iew contact mo	de
Group NO. Se	ettings table	e (Enla	rged se	ction S	W1 and SW2 in "3. Names	of Parts and Electrical Wiri	ng") All remote	+
Group NO. U	pper settin	ngs SW	2	-	Group NO. Lower	settings SW1	controller activ	ons
1-8	5-		00		04	3 12	The remete	*On
2—	5 6— R	765	01	4 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 3 2 1 4 3 2 1 9 13 4 3 2 1 4 3 2 1 4 3 2 1 4 3 2 1	○ : permitte	ed; ×
3— 876 4— 8	7— 5 8—	765	02	4 3		$\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	S1 pin operating mod	le
Use with	5 R	7 6 5 ure reco	overy se	ttings	2 1 4 3 2 1 Set to the ■ side ↓	:ON () :OFF	Instantaneous contact mode Constant	6 ON coi rej
NOTE also	that a s	epara	ate tim	er po	wer source is needed	when using the	Instantaneous	5
schedule t	imer inde	epend	lently.	+10%	-15% 200mA	3	contact mode	
(3) Settinas	when re	cover	ina fra	mai	ower outage (SW2-F	3)	Constant contact mode	ac
This sele	ects whet	ther to	restar	t ope	ration when the powe	r comes back on after a	Instantaneous	5
where th of wheth fan direc	e indoor er switch tion and	unit h SW2 speed	as an -R is o d settin	auto n or o lgs, a	start ON / OFF jumpe off, the operating mod nd remote control pro	r. Note also that regardl e (NOTE), set temperat hibitio n status are store	ess contact mode cure, constant contact mode	E Last prio
					What Hap		ΔII remote	-
SW2-I	R setting				ина пар	pens	All remote controller actio are prohibite	ns d
SW2-I OFF (Fac	R setting tory sett	ing)	Stop	s afte	er recovering from a p	power outage	All remote controller actio are prohibite	ns d
OFF (Fac	R setting tory setti ON	ing)	Stop Stops	s afte if the ur	er recovering from a p	pens power outage er outage and runs if it was runn	All remote controller actio are prohibite	ns d 6.F
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SW2-I OFF (Fac NOTE) The Room air c Models v dehu	R setting tory setti ON e followin condition with hum midifying	ing) ng set Mode pov er id hea g func	Stops Stops tings a before wer out ating a tions.	if the un apply the the tage	COOLING	pens power outage er outage and runs if it was runn HEATING HUMID HEATING	All remote controller action are prohibite M1: Turn M2: Turn G MR 2	6.F 6.F 6.F 6.F 1 1 1 1 1 1 1 1 1 1 1 1 1
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SW2-I OFF (Fac NOTE) The Room air c Models v dehu dehu 4) Contact	R setting tory setti ON e followir condition vith hum midifying Models unidifying input fur	ing) ng set Mode pov er id hea g func with g func	Stops Stops before wer out atting at tions.	is after if the ur upply e the itage nd	COOLING DRY COOLING W3-1 to SW3-2)	Dens Dower outage er outage and runs if it was runn HEATING HUMID HEATING HEATING	All remote controller action are prohibite M1: Turn M2: Turn M2: Turn M2: Turn M2: Turn M2: Turn M2: Turn M2: Turn M2: Turn M2: Turn Science (M1: Controller) M1: Turn M2: Tur	6.F ing / o cs MR 1 MR 2 he air is no 225
SW2-I OFF (Fac NOTE) The Room air of Models v dehu dehu 4) Contact When us	R setting tory setti ON e followin condition with hum midifying Models umidifying input fur sing cont	ing) ng sett Mode pov er id hea g func with g func nction tact in	Stops Stops tings a before wer ou ating a tions. stion. setting put (S	s afte if the upply e the itage nd gs (S 1), ch	What Hap er recovering from a p it was stopped before the pow to the models below. COOLING DRY COOLING W3-1 to SW3-2) poose one of the follo	Dens Dower outage ower outage outage and runs if it was runn HEATING HUMID HEATING HEATING wing functions.	All remote controller action are prohibite M1: Turn M2: T	6.F
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SW2-I OFF (Fac NOTE) The Room air c Models v dehu dehu dehu 4) Contact When us S1 operating I Instantaneous input (factory s	R setting tory setti ON e followin condition with hum midifying input fur sing cont wide se contact etting	ing) mg set Mode pov er id heæ g func with g func tinn with N3-1 { W3-1 { S titting H S S S S S S S S S S S S S	Stop Stops before wer ou tting a tions. ttion. setting put (S SW3-2 setting OFF	s after if the un ppply e the tage nd gs (S 1), ch The opinis rever 100 ms	What Hap er recovering from a p it was stopped before the pow to the models below. COOLING DRY COOLING W3-1 to SW3-2) toose one of the follo What Happens what Happens stating status of the air conditioner sed by an instantaneous input of ec or more.	Dens Dower outage er outage and runs if it was runn HEATING HUMID HEATING Wing functions. Control mode Last command priority	All remote controller action are prohibite M1: Turn M2: T	6.F ns d 6.F Ccs MR 1 MR 2 he air 22S (+) (-) (-) (-)
SW2-I OFF (Fac (NOTE) Thr Models v dehu dehu (4) Contact When us S1 operating I Instantaneous input (factory s Constant contac	A setting tory setti ON e followir condition with hum midifying models umidifying input fur sing cont sontact etting C tinput	ing) ng set Mode poi er with g func id heag g func id heag g func with g func N3-1 { S ttting i DFF -	Stopp Stops tings a before wer out ting a tions. ttion. setting put (S SW3-2 Setting OFF ON	s after if the un apply e the trage nd gs (S 1), ct The opp is rever 100 ms Contact Close to (NOTE	What Hap er recovering from a p it was stopped before the pow to the models below. COOLING DRY COOLING W3-1 to SW3-2) toose one of the folloo What Happens rating status of the air conditioner sed by an instaneous input of ecor more.	ens ower outage er outage and runs if it was runn HEATING HUMID HEATING Wing functions. Control mode Last command priority ON / OFF control is rejected (operate / sto / timer prohib) (NOTE 2).	All remote controller action are prohibite M1: Turn M2: Turn G KRP928BE S8 \oplus S5 M1 tion)	6.F ns d 6.F CS MR 1 MR 2 he air l is nc 2S (+) (-) (-)
SW2-I OFF (Fac (NOTE) Thr Room air c Models v dehu dehu (4) Contact When us S1 operating r Instantaneous input (factory s Constant conta	A setting tory setti ON e followir condition with hum midifying input fur sing cont Models midifying input fur sing cont tur sing cont tur tur sing cont tur tur sing cont tur tur sing cont tur tur tur sing cont tur tur tur tur tur tur tur tur tur tu	Ing set Mode pover id heæ g funct nection naact in VV3-1 { VV3-1 { VV3	Stopp Stops itings a befor wer ou iting a tions.	s after if the un upply e the ttage nd gs (S 1), ch The opping is rever 100 ms Contact Close the Contact Close the Contact Con	What Hap er recovering from a p it was stopped before the pow to the models below. COOLING DRY COOLING W3-1 to SW3-2) toose one of the follo What Happens what Happens arating status of the air conditioner sed by an instantaneous input of e or more. - Open to close: air conditioner us stopped 1). ct - Open to close: air conditioner is stopped 1).	Dens Dower outage er outage and runs if it was runn er outage and runs if it was runn HEATING HUMID HEATING Wing functions. Control mode Last command priority ON / OFF control is rejected (operate / stop / timer prohib NOTE 2). All remote controller actic are prohibited when the contact is closed. (NOTE	All remote controller action are prohibite ing. The Operat Output spe M1: Turn M2: Turn M2: Turn M2: Turn M2: Turn M2: Turn M2: Turn sand t KRP928BE S8 \ominus S8 \ominus S5 M1 M2 S5 M1 M2 S5 M1 M2	6. F ns d 6. F CS MR 1 MR 2 he ai 2S (+) (-) (-) (-) (-)
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SW2-I OFF (Fac NOTE) The Models v dehu dehu dehu dehu dehu dehu dehu dehu	A setting tory setti DN e followir condition with hum midifying input fur sing cont turning contact etting contact tinput insision ct input insision ct input insision ct input ingli (C ct input ingli (C ct input ingli (C ct input ingli (C ct input ingli (C ct input ingli (C ct input) ct input) ct input ingli (C ct input) ct input) ct input ingli (C ct input) ct input) ct input ingli (C ct input) ct	DFF	Stop Stops 2 befor wer ou- titing a tions. tition. setting put (S SW3-2 setting OFF ON Invalid Invalid Invalid Invalid Invalid Coperatin operatin conta be u conne conta conta to be to be conta conta conta be to be to be conta conta conta conta conta conta conta conta conta conta conta conta conta conta conta co	s afted if the un upply by the trage ond gs (S (NOTE Contact Close the from no chi- si rever from no chi- si crever from no chi- si crever from from from chi- si crever from from from from from from from fro	What Hap re recovering from a p it was stopped before the pow to the models below. COOLING DRY COOLING W3-1 to SW3-2) toose one of the follo What Happens wating status of the air conditioner what Happens wating status of the air conditioner is stopped open to close: open to close to open: ingein operating status. s last command priori onditioner might not n the central controller whil the contact will be open action and speed setti the ON timer is set, o operation starts at t of the power ON timer to PC-board set is re to an air conditioner r osed, the power ON timer in conditioner r osed, the power ON timer in on with the celt and is opplicable le to n to speed setti Contact specs No-voltage minute ele (Minimum applicable le total wire length math	Peens	All remote controller action are prohibite ing. The Operat Output spe M1: Turn M2: T	6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1

5.Control Codes

tral remote controller, the operating codes can be used to limit eless remote controllers. Three beeps for signal reception will be heard the wireless remote controller is operated while in central control. prohibited

			C	perat	ions fr	om th	e rem	ote co	ontroll	er	E I
			"Run	" contr	ol from	the	"Stop	" conti	ol from	n the	t ing
S1			centr	al con	troller		central controller				ntac
operating mode	Control mode	Control code	Run / timer	Stop	erating mode perature	n direction d fan speed	Run / timer	Stop	erating mode peraturet	n direction I fan speed	erations from troller and co
			-		Ope	Far and			tem tem	Far and	op Con
	ON / OFF control	0,1,3	×	×	0		×	×	0		
	is rejected	10,11	×	×	×		×	×	×		
	Only OFF control is accepted	2 12–19	×	0	×		×	0	×	<	
Instantaneous	Control priority	4	0	0	0		X	0	X		
contact mode	Central priority	5	0	0	0		×	×	0		
	Last command priority	6,7	0	0	0		0	0	0		
	Timer operation	8	O*	0*	O*	0	×	0	×	0	
	remote controller	9	O*	O*	O*	1 [×	×	0	1	0
		2,10-19			×				×		
Constant		0,1,3,5-7			0				0		
contact mode		4	×	×	0		×	×	×		
contact mode		8			O*				×		
		9			O*				0		
All remote controller actions are prohibited			×	×	×	×	×	×	×	×	
*	Only during timer one	eration									

y uuring timer operation oller permission / prohibition settings using the iTM / iTC are as follows. prohibited

S1 pin	iTM / iTC settings				Operations from the remote controller				
	Start / stop	Change operating mode	Change set temperature	Run / timer	Stop	Operating mode temperature	Fan direction and fan speed	Operation	
Instantaneous contact mode	ON / OFF	permitted	permitted/prohibited	×	×	0			
Constant contact mode	rejected	prohibited	permitted/prohibited	×	×	×			
Instantanaoua	Only OFF	m o um itt o d	permitted	X	X	0	0		
instantatieous		permitted	prohibited	×	0	×			
contact mode		prohibited	permitted/prohibited						
Constant	accented	permitted	permitted	Х	Х	0		ed O	
contact mode		prohibited	prohibited permitted/prohibited	×	×	×			
Instantaneous		permitted	permitted/prohibited	0	0	0	1	O O Operations from contrast	
contact mode	Last command priority	prohibited	permitted/prohibited	X	0	×	1		
Constant		permitted	permitted/prohibited	X	X	0	1		
contact mode		prohibited	permitted/prohibited	Х	X	×			
All remote controller actions are prohibited	ote ctions Does not affect settings bited			×	×	×	×		

ead Operating / Error Display Signal

rror signals can be read from the contact output (S5).

ON when the air conditioner is running. when a communication error has occurred between the KRP928BB2S conditioner, or MR 1 is ON and the unit has stopped after an error. t turned ON during a warning.

-	111 32	00002	20							
S8	58	\oplus	-	Power supply for relay (Supply 12	Power supply for relay (Supply 12 V DC externally.) (Output current 500mA or more)					
	00	θ		y (Output current 500mA or more)						
Operating control panel (Field supply)										
		мс	(+)	MR1 Power	Relay specs (MR1 and MR2) Coil voltage: 12 V DC					
S5	S5	M1 (-	(-)	MR1 • O Operating Display source for MR2 O Abnormality display	Coil resistance: 160Ω 10% Wiring length					
l		IVIZ			Max. TOOTT					
	7.Combining Equipment									

The central controller can be combined with the following devices.								
	Central Remote Controller	ON / OFF controller	Schedule timer	D-BIPS	Contact input	Wired Remote Controller	Wireless Remote Controller	
Central Remote Controller	0	0	0	0	0	0	0	
ON / OFF controller	0	0	0	0	0	0	0	
Schedule timer	0	0	×	×	0	0	0	
D-BIPS	0	0	×	×	0	0	0	
Contact input	0	0	0	0	×	0	0	
Wired Remote Controller	0	0	0	0	0	×	×	
Wireless Remote Controller	0	0	0	0	0	×	0	


14.7 <DCS302C71> Central Remote Controller Installation Manual

This air c	conditioner comes under the term "appliances not accessible to the general public".
Meaning (of warning, caution and note symbols.
	RNING Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury, TION
	EIndication situation that may result in equipment or property-damage-only accidents.
Ask you	r dealer or gualified personnel to carry out installation work. Do not try to install the machine by yoursel
Improper Perform	installation may result in water leakage, electric shocks or fire.
Improper	installation may result in water leakage, electric shocks or fire.
Failure to	to use the specified parts may result in water leakage, electric shocks, fire or the unit falling.
Improper	It the specified installation work after taking into account strong winds, typhoons or earthquakes, installation work may result in the equipment falling and causing accidents.
Make su by qualit An insuf	re that a separate power supply circuit is provided for this unit and that all electrical work is carried out fied personnel according to local laws and regulations and this installation manual. ficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
Make sure Improper	e that all wiring is secured, the specified wires and used, and no external forces act on the terminal connections or wires, connections or installation may result in fire.
When w wires so Improper	iring the power supply and connecting the remote controller wiring and transmission wiring, position the that the electric parts box lid can be securely fastened. positioning of the electric parts box lid may result in electric shocks, fire or the terminals overheating.
Before t	ouching electrical parts, turn off the unit.
Incomple	the air conditioner. Do not connect the ground wire to gas or water pipes, lighthing rod or a telephone ground wire, ate grounding may result in electric shocks.
When in the spe	istalling or relocating the system, be sure to keep the refrigerant circuit free from substances other than cified refrigerant (R410A), such as air.
Do not i If the pre specified	reconstruct or change the settings of the protection devices, ssure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than thos by Daikin are used, fire or explosion may result,
Do not t Touchin	touch the switch with wet fingers. g a switch with wet fingers can cause electric shock.
Install a If an leal	n leak circuit breaker, as required. < circuit breaker is not installed, electric shock may result.
Do not i (a) wh Pla (b) wh Co (c) ne: Ele (d) wh Vo	nstall the air conditioner or the remote controller in the following locations: ere a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen istic parts may deteriorate and fall off or result in water leakage, ere corrosive gas, such as sulfurous acid gas, is produced rroding copper pipes or soldered parts may result in refrigerant leakage, ar machinery emitting electromagnetic waves cotromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment ere flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where latile flammables such as thinner or gasoline are handled, perating the unit in such conditions may result in fire.
Da	
Safely d Packing Tear apa	ispose of the packing materials. materials, such as nails and other metal or wooden parts, may cause stabs or other injuries. In and throw away plastic packaging bags so that children will not play with them, If children play with a plastic
Do not · Always v	th was not torn apart, they face the risk of suffocation. turn off the power immediately after stopping operation, wait at least five minutes before turning off the power, Otherwise, water leakage and trouble may occur,
Install th televisio (Depend	ne indoor and outdoor units, power supply wiring and connecting wires at least 3.5ft, away from ns or radios in order to prevent image interference or noise. Jing on the radio waves, a distance of 3.5ft, may not be sufficient enough to eliminate the noise.)
Remote fluoresc Install th	controller (wireless kit) transmitting distance can result shorter than expected in rooms with electronic ent lamps.(inverter or rapid start types) e indoor unit as far away from fluorescent lamps as possible.
This uni In a dome	t is a class A product. Instic environment this product may cause radio interference in which case the user may be required to take adequate measure:



 When u the unit When u optional 	for setting master sing only 1 central with the connecto sing multiple centra I controllers for cen	er controller (X1A) (Provided with connector at factory set) remote controller, do not disconnect the connector for setting master controller. (Use r in the state in which it was delivered.) al remote controllers, or using the central remote controller in conjunction with the ntralized control, makes settings as indicated in the below table.
Pattern of con Central remote c	nection of optional controlle ontroller Unified ON/OFF o	ers for centralized control Connector for setting master controller (X1A) Setting, Removed controller Schedule timer Central remote controller Unified ON/OFF controller Schedule timer
1 to 4	1 to 16	Set one to "Used" and all the rest to "Not used" Set all to "Not used" "Not used"
(Remove all using the un unit, or the p (2) Address Two cent	the connectors for it together with the parallel interface sta setting ral remote controllers c	the central remote controller, the on/off controller, and the schedule timer when Ve-UP controller, the master station II, the DMS interface, the payment management (tion.)
128 grou	os of indoor units, In th	his case, group address must be set. This is done with the switch for setting each address (SS3).
<u>SETTING EA</u> 5-00 ~ 8-15	CH ADDRESS To control from group through 4	Sector setting Induction of the address Indoor units SETTING EACH ADDRESS p Nos. 1-00 5-00 -15 ~ 8-15
(4) Setting of The con units on sequenti	er (1) e two central remot of the sequential op tral remote controlle in 2-second interva al operation ON or	Twax. 64 groups Controller (2) e controllers (1) · (2) is set to "MAIN" while the other is set to "SUB". Peration function er is equipped with a sequential operation function that sequentially turns indoor als during unified operation. (Sequential operation is factory set to "ON.") To switch OFF, set as follows. While holding down the unified stop button,
	Sequential operati "ON"	on Sequential operation "OFF"
	(Factory set)	While holding down the unified operation button, perform forced reset.
NOTE: The not a	sequential operatio guarantee that com acity reduction effec	on function is designed to reduce the load on the power supply equipment, but does appressors will not be started simultaneously. You cannot therefore count on a be power supply equipment breaker selection.
(5) Forced re When cha for settin, reset simp once and	eset switch anging the setting of g master controller, oly by setting it to the returning to the nor urning the power OF nal operation, set th nal side.)	if the connector e reset side rmal side, FF. he switch to Normal side (Factory set) Reset side Factory set) Connector for setting master controller Switch for setting each address MAIN/SUB changeover switch Forced reset switch Fig. 1
without t (For norm the norm		
without t (For norm the norm		

WIRING OUTLINE	
Power supply AC100V-240 (50/60Hz)	$V \bigcirc f_{1}, F_{2} \\ Manual \\ witch \\ K \\ $
	OUNT AND COTOCON ONIT Outcor unit In Out pur Out In Out pur Out IF1.F2[F1.F2] F1.F2[F1.F2] F1.F2[F1.F2] F1.F2[F1.F2] Indoor unit
	Power terminal block
Batch remote control adapt Separately sold batch remot Used for DCS302A72 conr See the instruction manual i control adapter for details.	er Connector (X2A) e control adapter. rections. ncluded with the batch remote
Wiring specifications	0
Transmission wiring for control	2mm ² 0.75 – 1.25 mm ² sheathed vinyl cord or cable (balanced type) – maximum length 1000 m (total overall wiring length 2000 m)
Manual switch Wire the indoor units to	10A or 15A the outdoor units and between all power, indoor units, and remote controllers. See the
*1 For connecting Index *1 For connecting Index *2 Forced OFF input (None of the indoor contact with minima Use only contactors $T1 - \frac{1}{72} \int DC16V$ *3 For schedule timer Power can be supp	STRIP por unit (F1, F2) T1, T2) units connected to the forced OFF input contact (non-voltage al current) willoperate when it is shut off. s which guarantee the minimum applicable load DC 16V, 10mA. NOTE) Use instantanecous contactor of over 200m sec. energizing time, when necessary. (D1, D2) Jied to the schedule timer (DST301B61) separately sold For
details, refer to the Wire *2 and *3 only wh	installationmanual of the schedule timer. Then necessary.
(NOTE) Do not connect the power damage or burn electrical danger, Be sure to check v	supply wiring (100 to 240V) to the control terminal strip. If connected by mistake, it may parts of optional controllers for centralized control and indoor unit. It may result in serious virings before turning the power ON.



14.8 <DCS302C71> Central Remote Controller Operation Manual

BEFORE USE

■ GENERAL DESCRIPTION OF SYSTEM

This central remote controller can monitor and control up to 64 indoor unit groups. Using two central remote controllers allows monitoring and controlling of up to 128 indoor unit groups.

Main Functions

- 1. Batch starting and stopping of indoor units connected to the central remote controller.
- 2. Handling of operation settings such as start/stop, timer operation, remote controller prohibition/permission, etc., and operation status settings such as temperature.
- 3. Operation status monitoring of operation mode, set temperature, etc.
- **4.** Can be connected to an external central monitor panel and key system using the forced stop input (non-voltage a connector).
- · When using 1 central remote controller



(The central remote controller and the separately sold remote control adapter circuit board or group remote control adapter cannot be used together.)

* GROUP OF INDOOR UNIT refers to the below.

1. A single indoor unit without remote controller

1. A single indoor unit without remote controller



2. A single indoor unit controlled by one or two remote controllers





3. Maximum of 16 indoor units, group-controlled by one or two remote controllers



* Zone control from the central remote controller Zone control is available from the central remote controller. With it, it is possible to make unified settings for multiple groups, so setting operations are greatly simplified.



- Any setting you make within a given zone will apply to all groups in the said zone.
- A maximum of 64 zones can be set from a single central remote controller.
- (Each zone contains a maximum of 64 groups.)
- Zones can be set randomly from the central remote controller.

SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly.

After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

Meaning of danger, warning, caution and note symbols.

DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNINGIndicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

 CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE..... Indicates situation that may result in equipment or property-damageonly accidents.

Keep these warning sheets handy so that you can refer to them if needed.

Also, if this equipment is transferred to a new user, make sure to hand over this operation manual to the new user.

- Any abnormalities in the operation of the air conditioner such as smoke or fire could result in severe injury or death. Turn off the power and contact your dealer immediately for instructions.
- Do not install the unit in an area where flammable materials are present due to risk of explosion resulting in serious injury or death.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries. Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death due to suffocation.

- Ask your dealer for installation of the air conditioner. Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.
- Ask your dealer for improvement, repair, and maintenance. Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.
- Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin which are specifically designed for use with the equipment and have them installed by a professional.
- Ask your dealer to move and reinstall the air conditioner or the remote controller.
 Incomplete installation may result in a water leakage, electric shock, and fire.
- Never let the indoor unit or the remote controller get wet. It may cause an electric shock or a fire.





- Never use flammable spray such as hair spray, lacquer or paint near the unit. It may cause a fire.
- Do not allow children to play on or around the unit as they could be injured.
- Never replace a fuse with that of wrong ampere ratings or other wires when a fuse blows out. Use of wire or copper wire may cause the unit to break down or cause a fire.
- Never inspect or service the unit by yourself. Ask a qualified service person to perform this work.
 Cut off all electric waves before maintenance.
- Out off all electric waves before maintenance.
 Do not wash the air conditioner or the remote controller with excessive water.
- Electric shock or fire may result. • Do not touch the switch with wet fingers.
- Touching a switch with wet fingers can cause electric shock.
 Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. In addition, some parts may be damaged by touching. For checking and adjusting internal parts, contact your dealer.
- Check the unit stand for damage on a continuous basis, especially if it had been in use for a long time. If left in a damaged condition the unit may fall and cause injury.
- Placing a flower vase or other containers with water or other liquids on the unit could result in a shock hazard or fire if a spill occurs.

- CAUTION -

 Avoid placing the controller in a spot splashed with water.

Water coming inside the machine may cause an electric leak or may damage the internal electronic parts.

- Do not operate the air conditioner when using a room fumigation - type insecticide.
 Failure to observe could cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.
- Do not turn off the power immediately after stopping operation.
- Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur.
- The appliance is not intended for use by young children or infirm persons without supervision.
- The remote controller should be installed in such a way that children cannot play with it.

- Never press the button of the remote controller with a hard, pointed object.
 - The remote controller may be damaged.
- Never pull or twist the electric wire of the remote controller.
- It may cause the unit to malfunction.
- Do not place the controller exposed to direct sunlight. The LCD display may get discolored, failing to display the data.
- Do not wipe the controller operation panel with benzine, thinner, chemical dustcloth, etc.
 The panel may get discolored or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. And wipe it with another dry cloth.
- Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

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	UNIFIED OPERATION BUTTON		" 『上" DISPLAY (COOLING/HEATING				
•	Press to operate all indoor units.		SELECTION PRIVILÈGE NOT SHOWN)				
, UN	UNIFIED STOP BUTTON	13	For zones or individual units (groups) for which				
	Press to stop all indoor units.		this is displayed, cooling and heating cannot be				
	OPERATION LAMP (RED)		selected.				
\$	Lit white any of the indoor units under control is in operation.		" HOST 》" DISPLAY (UNDER HOST COMPUTER INTEGRATED CON-				
1	" CIRCUIT " DISPLAY (REFRIGERANT SYSTEM DISPLAY)	14	While this display is lit up, no settings can be made. It lights up when the upper central				
	This indication in the square is lit while the refrigerant system is being displayed.		conditioning network.				
5	" ZONE SET " DISPLAY (ZONE SETTING)	15	" క్రౌరెర్ [™] " DISPLAY (PRESET TEMPERATURE)				
	The lamp is lit while setting zones.		Displays the preset temperature.				
6	" MONITOR " DISPLAY (OPERATION MONITOR)		" / " DISPLAY (MALFUNCTION				
	The lamp is lit while operation is being monitored.	16	This displays (flashes) the content of every				
	" ALL " " ZONE " " INDIVIDUALLY " DISPLAY		when an error failure has occurred.				
7	The status displays indicates either batch		content.				
	(or group) are being used.		"NOT AVAILABLE" DISPLAY				
	OPERATION MONITOR	47	(NO FUNCTION DISPLAY)				
8	Each square displays the state corresponding to each group.	17	If a function is not available in the indoor unit even if the button is pressed, "NOT AVAILABLE" is may be displayed for a few seconds.				
9	" (∄" "ℯ&" " (ऒ" " 為" " ★" " ⊛" " " DISPLAY (OPERATION MODE)		" 👾 " DISPLAY (FAN DIRECTION SWING DISPLAY)				
	Displays operating state.	18					
	"ఊ" "ﷺ" " [™] ‴" "< [™] " DISPLAY		This displays whether the fan direction is fixed or set to swing.				
10	This is displayed when a Ventiair total enthalpy heat exchanger unit or other such unit is connected.	19	"∉" " ² " " ² FRESH UP HI " ☆" " FRESH UP DISPLAY (VENTILATION STRENGTH/SET FAN STRENGTH				
	" ॐ™EST" DISPLAY (INSPECTION/TEST)		DISPLAY)				
1	Pressing the maintenance/test run button (for service) displays this. This button should not normally be used.		This displays the set fan strength.				
	" ⊮ ∕ ∰ " DISPLAY (TIME TO CLEAN)	20	Displays the operation timer No. when used in conjunction with the schedule timer.				
2	It lights up when any individual unit (group) has reached the time for the filter or element to be cleaned.						

		22	SET BUTTON					
		33	Sets control mode and time No.					
~4	PLAY)	24	FAN STRENGTH ADJUSTMENT BUTTON					
21	prohibited, central operation priority after-press operation priority, etc.) is displayed by the	34	Pressing this button scrolls through "weak", "strong", and "fast".					
	corresponding code. This displays the numbers of any indoor units		ZONE SETTING BUTTON					
	which have stopped due to an error.	35	Zone registration mode can be turned on and off by pressing the start and stop buttons simulta- neously for at least four seconds.					
22	CLEAN AIR CLEANER ÈLEMENT/ TIME TO CLEAN AIR FILTER)		INSPECTION/TEST RUN BUTTON (FOR SERVICE)					
	Displayed to notify the user it is time to clean the air filter or air cleaner element of the group displayed.	36	Pressing this button scrolls through "inspection", "test run", and "system display". This button is not normally used.					
	VENTILATION MODE BUTTON		VENTILATION STRENGTH					
23	This is pressed to switch the ventilation mode of the total enthalpy heat exchanger.	37	ADJUSTMENT BUTTON					
_	ALL/INDIVIDUAL BUTTON		strength ("fresh up") of the total enthalpy heat					
24	Pressing this button scrolls through the "all screen", "zone screen", and "individual screen".	exchanger. (Notes)						
	ARROW KEY BUTTON	 Please note that all the displays in the figure appear for explanation purposes or when the cover is open. If the unit is used in conjunction with other optional 						
25	This button is pressed when calling an individual indoor unit or a zone.							
	ON/OFF BUTTON		central controllers, the OPERATION LAMP of the					
26	Starts and stops ALL, ZONE, and INDIVIDUAL units.		up and go out a few minutes behind schedule. This shows that the signal is being exchanged					
	TEMPERATURE ADJUSTMENT BUTTON (ZONE NUMBER BUTTON)		and does not indicate any failure.					
27	This button is pressed when setting the temperature. Select the zone number if any zones have been registered							
	FAN DIRECTION ADJUSTMENT	∎∎ Z This	zone screen (Fig. 3)					
28	This button is pressed when setting the fan direction to "fixed" or "swing".	scre • Ir	screen, all screen, or zone screen.Individual screen The individual screen is used					
20	OPERATION MODE SELECTOR BUTTON	• A	Il screen The all screen is used when per-					
/ 7	This sets the operation mode. The dry setting	-	forming operations for all units at once. The zone screen is used when					
	cannot be done.	• /						
	cannot be done. TIME NO. BUTTON	• ∠	performing zone operations.					
30	cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the schedule timer only).	• ∠ 1.	performing zone operations. Select the screen by pressing the "ALL/INDIVIDUAL" button.					
30	cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the schedule timer only). CONTROL MODE BUTTON	• ∠ 1.	performing zone operations. Select the screen by pressing the "ALL/INDIVIDUAL" button. Description: Descri					
30 31	cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the schedule timer only). CONTROL MODE BUTTON Selects control mode.	• 2 1.	performing zone operations. ⁽¹⁾ Select the screen by pressing the "ALL/INDIVIDUAL" button. ⁽²⁾ Every time the "ALL/INDIVIDUAL" button is pressed, the selection scrolls through INDIVIDUAL \rightarrow ALL \rightarrow ZONE.					
30 31 32	cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the schedule timer only). CONTROL MODE BUTTON Selects control mode. FILTER SIGN RESET BUTTON This button is pressed to erase the "clean filter"	• 2 1.	performing zone operations. ⁽¹⁾ Select the screen by pressing the "ALL/INDIVIDUAL" button. ⁽²⁾ Every time the "ALL/INDIVIDUAL" button is pressed, the selection scrolls through INDIVIDUAL \rightarrow ALL \rightarrow ZONE. If nothing is done in the all or zone screens for one minute, it automatically goes to the individual					

If the zone number in the zone screen is displayed as "---," this indicates that no units are registered in a zone.
 Please perform zone registration before proceeding in the zone screen. (See page 9)

Batch operation and stop method (Fig. 4)

This is for operating or stopping all connected units at once.

A. What to do when operating or stopping all connected units at once.

1. Press either () " ALL |" or

- ☞ "ALL O".
 - Operation can be performed from the individual screen, the all screen, or the zone screen.
 - The "TEMPERATURE ADJUSTMENT" and "OPERATION MODE SELECTOR" buttons cannot be used.

To set the temperature and operation mode, use B. batch operation.

B. Batch Operation

1. ⁽³⁾ Press the "ALL/INDIVIDUAL button" to enter the all screen.

The " 📃 " display lights up on all registered units.

2. ⁽⁴⁾ Press the "SELECT" button.

The " I display lights up on all connected units.

⁽⁵⁾ Press the "RESET" button.

The " **I** " display goes off on all connected units. Operation and stop in the batch screen are done the same as with the batch operation and batch stop buttons.

Image: Second state of the second

The temperature rises $1^\circ\mbox{ every time}$

the (\blacktriangle) button is pressed.

The temperature drops 1° every time

the ($\mathbf{\nabla}$) button is pressed.

Set to "--" when you do not wish to use batch setting for the temperature setting. Setting to 1° above or below the temperature setting range displays "--".

4. ^(T) Call up the desired mode by pressing the "OPERATION MODE SELECTOR" button.

Set to "--" when you do not wish to use batch setting for the operation setting.

Group operation and stop method (Fig. 5)

This is for operating or stopping connected units in groups.

[Group operation]

1. Press the Transformation "ALL/INDIVIDUAL button"

to enter the 2 individual screen. The unit will enter the individual screen automatically if nothing is done for one minute.

2. In Using the arrow keys, I move the

" To select the units to operate or stop. Keeping the button pressed down will move it rapidly.

The " The " This screen has selected unit 1-04.

3. ⁽⁵⁾ Press the "SELECT" button.

The " I display lights up in the group.

⁽⁶⁾ Press the "RESET" button.

The " I display goes off in the group.

 In the "TEMPERATURE ADJUST-MENT" button.

The temperature rises 1° every time the

() button is pressed.

The temperature drops 1° every time the

(▼) button is pressed.

Temperature adjustment cannot be done if the selected group's air conditioners are in fan mode.

5. ^(a) Call up the desired mode by pressing the "OPERATION MODE SELECTOR" button.

Registering zones (Fig. 6)

It is possible to set multiple groups as one zone and control each zone separately.

No zones are registered when the unit is shipped from the factory.

Zone registration can be done in the individual screen, all screen, or zone screen.

[Registration]

1. TPressing the "ALL/INDIVIDUAL" button for four seconds. Displays ZONE SET.

Zone Number 1 will be displayed, and if there are any groups already registered in the displayed

zone, a " 🔳 " will light up on the operation monitor.

- 2. ⁽³⁾ Select the Zone Number to be registered using the "ZONE NUMBER" button. Keeping the button pressed down will move it rapidly.

Keeping the button pressed down will move it rapidly.

4. ^(C) Press the "SELECT" button to register that group to the zone.

The " I display lights up on all the selected units.

" 🔳 " goes off.

Repeat steps 3 and 4 until all the units you wish to register to the zone have been added.

ZONE SET						ZONE										
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1-																
2-																
3-																
4-																

In this example, a screen is shown with units 1-00, 1-02, 1-03, and 2-00 registered to Zone Number 1.

- 5. Repeat steps 2 to 4 to register to the next zone.
- Once zone registration is complete,
 press the "ALL/INDIVIDUAL" button to turn off "ZONE SET" display and return to the individual screen.

The display returns to the normal screen if nothing is done for one minute when in zone registration mode.

(NOTE)

• It is impossible to register one group to several different zones.

If this is done, the last zone registered to will be valid.

[Batch deletion of zone registration]

1. [⊕]Pressing the "ALL ○" for at least four seconds while [⊕] pressing the "FIL-TER SIGN RESET" button when

(2) "ZONE SET" is displayed will delete all zone registrations.

The zone registrations for all units will be lost.

■ Zone operation and stop method (Fig. 7)

This is for operating or stopping connected units in zones.

[Zone operation]

- 1. IP Press the "ALL/INDIVIDUAL button" to enter the zone screen.
- 2. In Using the arrow keys, select the zone number to operate or stop.

Pressing - and + reduces the zone number

while \rightarrow and \uparrow raise the number.

Keeping the button pressed down will move it rapidly.

 If the zone number is displayed as "---," this indicates that no units are registered in a zone. Please perform zone registration before using a zone. (See page 9)

3. ^(J)Press the "SELECT" button.

The " I display lights up in the group.

⁽⁵⁾ Press the "RESET" button.

The " I display goes off in the group.

4. IP Press the "TEMPERATURE ADJUST-MENT" button.

The temperature rises 1° every time the (\blacktriangle) button is pressed.

The temperature drops 1° every time the ($\mathbf{\nabla}$) button is pressed.

Set to " -- " when you do not wish to use zone setting for the temperature setting.

Setting to 1° above or below the temperature setting range displays " -- ".

5. CP Call up the desired mode by pressing the "OPERATION MODE SELECTOR" button.

Set to " -- " when you do not wish to use zone setting for the operation mode.

Changing the fan direction and fan strength (Fig. 8)

This changes the fan direction and strength settings in the air conditioner.

Changing the fan direction and strength is done in the individual screen.

[Registration]

1. (IP Press the "ALL/INDIVIDUAL button"

to enter the IP individual screen. The unit will enter the individual screen automatically if nothing is done for one minute.

- 2. In Using the arrow keys, I move the
 - " " to select the units to fan direction adjustment or fan strength adjustment. Keeping the button pressed down will move it rapidly.
- GPPress the "FAN DIRECTION ADJUST-MENT" button.

This sets "fixed" or "swing" for the fan direction.

^(©) Press the "FAN STRENGTH ADJUST-MENT" button.

Pressing this button scrolls through " ${}^{*}_{L}$ ", " ${}^{*}_{H}$ ", and " ${}^{*}_{L}$ ".

Depending on the indoor unit, only " ${}^{*}_{L}$ " and " ${}^{*}_{H}$ "

may be available.

The functions included in the indoor units may vary. Pressing a button for a function which is not available will cause "NOT AVAILABLE" to be displayed.

Changing the ventilation mode and ventilation strength (Fig. 9)

This changes the ventilation mode and strength settings in the total enthalpy heat exchanger. Changing the ventilation mode and strength is done in the individual screen.

[Registration]

1. IP Press the "ALL/INDIVIDUAL button" to

enter the (i) individual screen. The unit will enter the individual screen automatically if nothing is done for one minute.

2. In Using the arrow keys, I move the

3. (FPress the "VENTILATION MODE" button.

It will scroll through " $(\underline{\mathbb{A}})$ " \rightarrow " $\underbrace{\mathbb{A}}$ " \rightarrow " $\underbrace{\mathbb{A}}$ " \rightarrow "

CPress the "VENTILATION STRENGTH ADJUSTMENT" button.

It will scroll through " $\stackrel{\circ}{L}$ " \rightarrow " $\stackrel{\circ}{H}$ " \rightarrow " $\stackrel{\circ}{L}$ FRESH UP" \rightarrow

 $\begin{array}{c} \overset{\bullet}{\mathsf{H}} & \overset{\bullet}{\mathsf{H}} & \overset{\bullet}{\mathsf{H}} & \overset{\bullet}{\mathsf{H}} & \overset{\bullet}{\mathsf{L}} & \overset{\bullet}{\mathsf{L}} \\ \\ \mathsf{FRESH UP} & \overset{\bullet}{\mathsf{I}} & \overset{\bullet}{\mathsf{L}} & \overset{\bullet}{\mathsf{L}} & \overset{\bullet}{\mathsf{L}} \end{array}$

The fresh up function may not be available depending on the connected unit model. The functions included in the indoor units may vary. Pressing a button for a function which is not available will cause "NOT AVAILABLE" to be displayed.

Ventilation Mode and Amount

If these are changed using the remote controller depending on the unit model, they cannot be displayed on the central remote controller. To monitor the ventilation mode and amount, check the values on the remote controller.

■ Timer Number Setting (Fig. 10)

(Only when used with the schedule timer) Using this together with the schedule timer makes it possible to set on and off times four times a day.

[Registration]

1. IP Pressing the "TIMER NO." button causes the number set for timer number 1 to blink.

If no timer setting has been made "-" will be displayed. Select the desired timer number by pressing the TIMER NO." button.



2. ⁽²⁾ Once the desired timer number is displayed, press the "SET" button.

Press the $(27)^{-1}$ "SET" button within 10 seconds after the timer number is displayed. The display will return to how it was after 10 seconds.



The display for timer number 1

will stop blinking and then timer number 2 will start blinking.

[&]quot; " to select the units to ventilation mode or ventilation strength adjustment. Keeping the button pressed down will move it rapidly.

3. The Select the desired timer number by pressing the "TIMER NO." button. Once the desired timer number is ______

displayed, (2) press the "SET" button. The display for timer number 2 will stop blinking.



The " $\stackrel{\bigcirc}{No.}$ " display will disappear after 3 seconds.

Select " – " in the timer number when you do not wish to set a timer number.

It is possible to set only one timer number. (The times for turning the unit(s) on and off twice a day can be set with a single timer number.)

Timer Number Setting

Group control: select the unit in the individual screen and set the timer number.

- Batch control: set the timer numbers for all connected units.
- Zone control: set the timer numbers for all zone-registered units. Call up the zones which you wish to set in the zone screen and set the timer numbers.
- Since the timer number will be set to afterpress priority, the timer number in the last screen set will be valid for the connected units.

Example 1

Setting timer number 1 for unit 1-00 to "1" and timer number 2 to "2" in the individual screen and then setting timer number 1 to "3" and timer number 2 to "4" in the batch screen causes the timer numbers for all units to be set, so timer number 1 for unit 1-00 will be "3" and timer number 2 will be "4".

Example 2

To prevent leaving units on, timer number 1 is set to "5" in the batch screen.

Setting timer number 1 in zone number 1 to " – " in the zone screen after that will change the timer number for zone number 1, so the setting to prevent leaving the units on will be lost for zone number 1 only.

If a timer number is set incorrectly by accident, redo the setting in the desired screen.

• What happens when the timer number on time and off time are set to the same time

When the on time and off time are set to the same time for the same timer number, operation does not change.

When the on time and off time are set to the same time for different timer numbers, the off time is given priority.

When using timer operation, make sure the times do not overlap when setting the program of the schedule timer.

■ Setting the Operation Code (Fig. 11)

[Registration]

1. The Pressing the "CONTROL MODE" button causes the currently set operation code to blink. Call up the desired code number by pressing the

CONTROL MODE" button.
Scroll through the code numbers.

 I Donce the code number is displayed, press the "SET" button.
 The display will stop blinking.
 The operation code display will disappear after 3 seconds.

[The Operation Code Setting]

- Group control: select the unit in the individual screen and set the operation code.
- Batch control: set the operation code for all connected units.
- Zone control: set the operation code for all zone-registered units. Call up the zones which you wish to set in the zone screen and set the operation code.

Since the operation code will be set for after-press priority, setting the operation code in the zone and individual screens after setting the operation code in the batch screen, will cause the operation codes set afterwards to be valid.

OPERATION MODE

The following five operation control modes can be selected along with the temperature setting and operation mode by remote controller, for a total of twenty different modes. These twenty modes are set and displayed with control modes of 0 to 19. (For further details, see **EXAMPLE OF OPERATION SCHEDULE** on the next page.)

ON/OFF control impossible by remote controller	. Use this mode when operating and stopping from the central remote controller only. (ON/OFF control by the remote controller is disabled.)
Only OFF control possible by remote controller	. Use this mode when executing the operation only by the central remote controller, and executing only the stop by remote controller.
Centralized	. Use this mode when executing the operation only by the central remote controller, and executing start/stop freely by remote controller during the preset hours.
Individual	Use this mode when executing start/stop both by central remote controller and remote controller.
Timer operation possible by remote controller	Use this mode when executing start/stop by remote con- troller during the preset hours, and not starting operation by the central remote controller at the programmed time of system start.

[HOW TO SELECT THE CONTROL MODE]

• Select whether to accept or to reject the operation from the remote controller regarding the operation, stop, temperature setting and operation mode setting, respectively, and determine the particular control mode from the rightmost column of the table below.

Example



	Control by remote controller								
	Operat	ion				Control mode			
Operation mode	Unified operation, individ- ual operation by central remote controller, or opera- tion controlled by timer	Unified stop, individual stop by central remote controller, or timer stop	Stop	Tempera- ture control	Operation mode setting				
				Dejection	Acceptance	0			
ON/OFF control			Pejection	Rejection	Rejection	10			
impossible by remote controller			(Example)	Acceptance	Acceptance (Example)	1 (Example)			
	Rejection			(Example)	Rejection	11			
	(Example)			Dejection	Acceptance	2			
Only OFF control		(Example)		Rejection	Rejection	12			
remote controller				Acceptance	Acceptance	3			
					Rejection	13			
				Rejection	Acceptance	4			
Controlized					Rejection	14			
Centralized				Accontanco	Acceptance	5			
	Accontance		Accontanco	Acceptance	Rejection	15			
	Acceptance		Acceptance	Dejection	Acceptance	6			
Individual		Accentance		Rejection	Rejection	16			
Individual		Acceptance		Accentance	Acceptance	7			
				Acceptance	Rejection	17			
				Rejection	Acceptance	8			
Timer operation	Acceptance	Rejection		Rejection	Rejection	18			
remote controller	ON position only)	position)		Accentanco	Acceptance	9			
				Acceptance	Rejection	19			

Note) Do not select the timer operation possible without the remote controller. In this case, timer operation is disabled.



When the operation, stop, temperature setting and operation mode setting by remote controller are rejected, "HOSTA," is displayed on the remote controller.

EXAMPLE OF OPERATION SCHEDULE

Operation schedule is possible only in conjunction with the schedule timer (optional accessory). Liquid crystal display of schedule timer

ON/OFF control impossible by remote controller





■ Setting operation mode (Fig. 12)

[Registration]

- 1. TPress the OPERATION MODE SELEC-TOR BUTTON. Each time you press this button, the display rotates as shown on the below list.

	A: Zones and groups with no " [] ★] " display.				
Display	Setting	Contents of setting			
	×				
÷ ~2	0	Can be set in individual zones or groups			
	0 * 1	Can be set in individual zones or groups			
*	0	Can be set in individual zones or groups			
	0	Can be set in individual zones or groups			
en ar ≫ cor ≫ cor ≫ c	0 * 1	Can be set in individual zones or groups * 3			
	0 * 1	Can be set in individual zones or groups			
	0	Select this display if you don't wish to set by zone.			

	B : Zone " []] 太	es and groups with a " display.
Display	Setting	Contents of setting
	0	To be set by zone * 2
*	0	Can be set in individual zones or groups
	×	
*	×	The displays are shown by group * 4
*	×	The displays are shown by group * 4
etan or ≫ ⊄ or ≫⊄	0 * 1	Can be set in individual zones or groups * 3
	0 * 1	Can be set in individual zones or groups
	0	Select this display if you don't wish to set by zone.

- *1: Setting may not be acceptable depending on the type of indoor unit with which this unit is connected.
- *2: In zone control, the units run in temperature adjustment mode (heating or cooling) for the outdoor system for the groups registered to those zones. Heating or cooling selection is not available.
- *3: (A) or 20 or 2
- *4: In group control, the units run in temperature adjustment mode (heating or cooling) for the group outdoor system. Heating or cooling selection is not available.
- The Zone consists of the following two cases.

A. Zone without display"

The group with master remote controller setting exists in this zone.

Setting the master remote controller enables cool/ heat selection.

Operations other than cool/heat operations can also be set for some operations. For further details, see the list on the left.

B. Zone with display"

No group with master remote controller setting exists in this zone.

The cool/heat selection is not available because the master remote controller has not been set. Some operations other than cool/heat operations can be set. For further details, see the list in the left.

See page 20 if the display" See page 20 if the display " is flashing.

- Fan operation can be performed for each zone using the central remote controller even if there is no cooling/heating selection right during cooling or heating. Also, if a Ventiair is connected in the zone, ventilation and ventilation cleaning operation is possible. See the included operating manuals for details.
- When the indoor unit is in heat operation, change the setting to FAN operation through the central remote controller; then, you can switch the fan speed to the extremely low fan speed. Warm air may blow if any other indoor unit belonging to the same system is in heat operation.
- The indoor fan stops during defrost/hot start.
- DRY cannot be set from the central remote controller.

Group monitoring (Fig. 13)

Utilize the group monitor function in each of the following cases:

- 1. Check the malfunction code.
- (See the next page.)
- 2. Check the group that requires cleaning of the air filter and air cleaner element. (See page 21.)
- 3. Change the setting of the master remote controller. (See page 20.)
- Check the group(s) sharing the same outdoor unit. Or, check the particular group(s) with the master remote controller setting. (See page 20.)
- 5. Check the conditions of other individual groups.

When in zone screen

The zone screen will revert to the individual screen automatically if nothing is done in it for one minute.

[Registration]

- 1. TPress the "ALL/INDIVIDUAL" button to switch to the T "INDIVIDUAL" screen.
- 2. In Using the arrow key, I move the

" " to select the unit to be monitored. Keeping the button pressed down will move it rapidly.

The " \square " lights up and the status of that unit is displayed in the LCD. The cursor in the screen Fig. 13 has selected unit 2-06.

Error diagnosing function (Fig. 14)

This central remote controller is provided with a diagnosing function, for when an indoor unit stops due to malfunction. In case of actuation of a safety device, disconnection in transmission wiring for control or failure of some parts, the operation lamp, inspection display and unit No. start to flash; then, the malfunction code is displayed. Check the contents of the display, and contact your DAIKIN dealer because the above signs can give you the idea on the trouble area.



The display " — " flashes under the group No. where the indoor unit that has stopped due to malfunction.

[Registration]

1. IP Press the ARROW KEY BUTTON to call up the group that has stopped due to malfunction.

(2) The unit No. (3) the malfunction code is flashing because of an error failure.



Operation lamp	Maintenance display	Unit No.	Malfunction code	Error content
¢	•	⋪	64	Indoor air thermistor error
¢	•	⋪	65	Outdoor air thermistor error
¢	•	¢	68	HVU error (Ventiair dust-collecting unit)
¢	•	¢	6A	Dumper system error
÷Þ	÷\$	¢	6A	Dumper system error + Thermistor error
¢	•	\$	6F	Simple remote controller error
¢.	•	\$	6H	Door switch (Ventiair dust-collecting unit), relay harness fault (Ventiair dust-collecting/humidifier unit)
÷\$	-\$	\$	94	Ventiair internal transmission error (between total enthalpy – fan unit)
⇒	¢	\$	A0	Indoor unit · external safety device error
÷Þ	\$	⇒	A1	Indoor unit · BEV unit (Sky-Air connection unit) PC board assembly fault
\. ↓ ↓	•	⇒	A1	Indoor unit · PC board assembly fault
÷	\$	⋪	A3	Indoor unit · Drain level error (33H)
÷	÷\$	¢	A6	Indoor unit · Fan motor (51F) lock, overload
¢	•	\$	A7	Indoor unit · Fan direction adjustment motor (MA) error
¢.	÷\$	\$	A9	Indoor unit · BEV unit, electric expansion valve motor (20E) error
¢	•	\$	AF	Indoor unit · Malfunctioning drain
¢	•	⇒	АН	Indoor unit · Dust-collector error
Þ	⇒	⇒	AJ	Indoor unit · Insufficient capacity setting, address setting fault

-≯	¢.	Þ	C4	Indoor unit · Liquid piping thermistor (Th2) Error (faulty connection, cut wire, short circuit, fault)
৵	÷\$	\$	C5	Indoor unit · BEV unit, gas piping thermistor (Th3) Error (faulty connection, cut wire, short circuit, fault)
\$	-≯		C9	Indoor unit · Intake air thermistor (Th1) Error (faulty connection, cut wire, short circuit, fault)
	.≯	÷ þ	CA	Indoor unit · Outlet air thermistor (Th4) Error (faulty connection, cut wire, short circuit, fault)
÷	•	÷.	CJ	Indoor unit · remote controller sensor error
⇒	÷)	\$	E0	Outdoor unit · Safety device operation
⇒	⇒	\$	E1	Outdoor unit · PC board assembly fault
¢.	•		E1	Outdoor unit · PC board assembly fault
⇒	⇒	\$	E3	Outdoor unit · High-pressure switch fault
⇒	⇒		E4	Outdoor unit · Low-pressure switch fault
⇒	⇒	⇒	E9	Outdoor unit · Electric expansion valve motor (20E) error
\	•		EC	Heat source unit · Intake water temperature inter-lock operation (fan operation)
⇒	⇒	.	EF	Outdoor unit · Ice thermal storage unit error
÷,	-≯	\$	F3	Outdoor unit · Discharge piping temperature error
¢	•	.	H3	Outdoor unit · High-pressure switch operation
⇒	⇒	\$	H4	Outdoor unit · Low-pressure switch operation
¢		\$	H9	Outdoor unit · Outdoor air thermistor (Th1) Error (faulty connection, cut wire, short circuit, fault)
÷	•		Н9	Outdoor unit · Outdoor air thermistor (Th1) Error (faulty connection, cut wire, short circuit, fault)
\$÷	•		нс	Outdoor unit · Water temperature sensor system error
¢	•	-\$	HF	Ice thermal storage unit error, ice thermal storage controller error error in outdoor unit during ice thermal storage operation
÷	⇒	\$	HJ	Outdoor unit · water system fault
÷ þ	⇒	÷\$	J1	Outdoor unit · pressure sensor error
⇒	÷Þ	-\$	J3	Outdoor unit · Discharge piping thermistor (Th3) Error (faulty connection, cut wire, short circuit, fault)
¢	•	\$	J3	Outdoor unit · Discharge piping thermistor (Th3) Error (faulty connection, cut wire, short circuit, fault)
⇒	- >	-\$	J5	Outdoor unit · Intake piping thermistor (Th4) Error (faulty connection, cut wire, short circuit, fault)
⇒	->Þ		J6	Outdoor unit Heat exchange thermistor (Th2) error
☆	•	-\$	J6	Outdoor unit · Heat exchange thermistor (Th2) error Error (faulty connection, cut wire, short circuit, fault)
÷	-> b	÷\$	J7	Outdoor unit · Header thermistor (Th6) error
⇒	⇒	÷\$	JA	Outdoor unit · Discharge piping pressure sensor error
⇒	-> þ	÷\$	JC	Outdoor unit · Intake piping pressure sensor error
⇒	-> þ	÷\$	JF	Outdoor unit · Oil temperature sensor (Th5) system error
¢	•	\$	JH	Outdoor unit \cdot Oil temperature sensor (Th5) system error
⇒	-> þ	\$	LO	Outdoor unit · Inverter system fault
⇒	-> þ	\$	L4	Outdoor unit · Inverter cooler fault
⇒	-> þ	- Þ	L5	Outdoor unit · Ground circuit for compressor motor, short circuit, or power unit short circuit
	1	L	L	· · ·

		1	1	T
÷Þ	÷Þ	- Þ	L6	Outdoor unit \cdot Ground circuit for compressor motor, short circuit
¢	⇒	\$	L8	Outdoor unit · Compressor overload, compressor motor wire disconnection
\$	⇒	\$	L9	Outdoor unit · Compressor lock
- þ	÷\$	÷\$	LA	Outdoor unit · Power unit error
÷Þ	- Þ	-\$	LC	Outdoor unit · Transmission error between inverter and outdoor control unit
☆ or ●	÷	÷\$	M1	Central controller: PC board fault
⇔ or ♦	÷Þ	-\$	M8	Transmission error between central controllers
⇔ or ♦	÷Þ	÷\$	MA	Central controller: Incorrect combination
⇔ or ♦	- þ	-¢-	MC	Central controller: Address setting fault
- Þ	٠	-¢-	P0	Insufficient gas (thermal storage)
÷Þ	- Þ	÷\$	P1	Outdoor unit · Power voltage imbalance, phase loss
- Þ	- Þ	-¢-	P4	Outdoor unit · Power unit temperature sensor error
¢	•	¢-	UO	Pressure drop due to insufficient refrigerant, electric expansion valve fault, etc.
÷Þ	÷\$		U1	Reversed or lost phase
¢.	÷	÷\$	U2	Power voltage error, momentary electrical stoppage
÷Þ	÷ þ	-Þ	U4	Transmission error between indoor unit/BEV unit and outdoor/BS unit, Transmission error between outdoor unit and BS unit
⇒		\$	U5	Transmission error between remote controller and indoor control unit
•	¢	•	U5	Remote controller board fault or remote controller setting fault
÷\$	÷\$	÷\$	U6	Transmission error between indoor units
⇒	⇒	-Þ	U7	Transmission error between outdoor units Transmission error between outdoor unit and ice thermal storage unit
¢	٠		U7	Transmission error between outdoor units (cooling/beating batch_low-poise operation)
÷\$	¢	•	U8	Transmission error between master remote controller and slave remote controller (slave remote controller error) Incorrect combination of indoor unit and remote controller within a single system (model)
-) •	⇒	-\$	U9	Transmission error between indoor unit/BEV unit and outdoor unit within a single system Transmission error between BS unit and indoor unit/BEV unit and outdoor unit within a single system
-¢	⇒	-¢	UA	Incorrect combination of indoor, BS, and outdoor units within a single system (model, number of units, etc.) Incorrect combination of indoor unit and remote controller (remote controller in question) BS unit connection position fault
\	٠	÷.	UC	Central control group numbers overlap
- ` Þ	->	- >	UE	Transmission error between indoor unit and central controller
÷Þ	- Þ	-\$	UF	Unset system, incorrect settings between BEV unit and indoor unit
.⊅	-)	÷	UH	System fault

- error codes (in outline font) do not display "maintenance" and the system will run, but please check the content of the display and contact your dealer.

Setting master remote controller (Fig. 15)

You must set the master remote controller of the operation mode for one of the indoor units, if two or more such indoor units with the remote controller are connected with the outdoor unit where the operation modes such as cool/heat operation and FAN operation can be set by remote controller and central remote controller.

1. Preparations

When you want to fix settings

- Check the particular group with the master remote controller setting for the refrigerant system you wish to reset. (See the below.)
- Call up the group without the display
 - " **下** ," (See page 16.)

 \bigcirc Hold the OPERATION MODE SELECTOR BUTTON down for about four seconds while the above group is being called up.

When you turn on the power switch for the first

time, the display" [], " flashes.



2. Setting selection right

Pall up the desired group to set the master remote controller, and repress the OPERA-TION MODE SELECTOR BUTTON. The master remote controller is set for this group, and the

display " [] 났 " goes out. The display

" The second sec

When switching operation

In case of operation switch
 Call up the zone including the group with the setting of master remote controller.

(Zone without the display " [] ; ")

 \bigcirc Press the OPERATION MODE SELECTOR BUTTON several times, and switch to the desired operation mode.

Each time you press it, the display is switched

to " 🗞 " " 🗰 " " 🥘 " and " 💶 " in sequence.

NOTE

 However, the displays " (A) " " (B) " and "VENTI-LATION MODE" may apper in some zones, depending on the type on indoor unit with which they are connected. (VENTILATION MODE)

📇 or 💥 or 😼

[System Display]

- 1. Test run mode is necessary to display the system display.
- 2. In order to turn on test run mode, select the appropriate air conditioner on the individual screen with the cursor and then set its operation mode to either cooling or heating. (It makes no difference if the air conditioner is running or not running while this operator is being performed.)
- 3. Press the "inspection/test run" button twice to put it into test run mode.
- 4. Pressing the "inspection/test run" button for four or more seconds in test run mode will display IP the "REF CIRCUIT."

RECIR	EF CUI	<u>1</u>	<u>کر</u>	04	05	06	07	08	na	10	11	12	-	[] 14	3
1- 2					Ĭ							12	10	14	
2- 3-															_
4-															

Call the unit whose system you wish to look up using the arrow keys.

The " **m**" on all groups in the same system as the displayed group will light up.

Of those, the " I display in all groups which have cooling/heating selection privilege will blink.



In this example, individual units 1-00, 1-03, 1-05, 1-06, 1-07, 2-02, and 2-03 are in the same system, and 1-05 has the cooling/heating selection privilege.

To look up other systems, call up all the units you wish to look up using the arrow keys.

Pressing the inspection/test run button one more time gets rid of the system display and ends it.

The unit will enter the individual screen automatically if nothing is done for one minute in the system display screen.

This function may not be available for all connected outdoor units, in which case "REF CIRCUIT" will blink. It will also not be correctly displayed if DIII-NET extension ADP is used.

■ Display of time to clean (Fig. 16)

cleaner element of some group.

If a cleaning sign is displayed

A filter or element in some group is ready to be cleaned.

1. ⊕ Press the ARROW KEY BUTTON, and search the groups displaying " → " or

" ≝ື " (The group may be plural.)

Clean or change the air filter or air cleaner element.

For further details, see the operation manual attached to each indoor unit. (Clean or change the air filter or air cleaner element of all the groups dis-

playing " 🖓 " or " 🖉 ".)

2. ② Press the FILTER SIGN RESET BUT-TON, and the display " → " disappears. (Including all the groups where the air filter has been cleaned.)

NOTE

Be sure to check the display (3) " " a " has disappeared at this point. The appearance of the above display is a sign that the air filter or air cleaner element of some group still needs cleaning.

INSTALLATION TABLE

When installing the equipment, mark the zone No. of each group and installation location in the below table.

Setting group No.

(Setting is not possible unless power is activated to both the central remote controller and indoor unit.)

Operated by remote controller

- 1. Activate power to both the central remote controller and indoor unit.
- While in the normal mode, hold down the "臺" button for a minimum of 4 seconds. The unified ON/ OFF controller will enter the FIELD SET MODE.
- 3. Select the MODE No. " [] " with the "] " button.
- Use the " button to select the group No. for each group. (Group No. increases in the order of 1-00, 1-01 ... 1-15, 2-00, ... 8-15.)
- 5. Press " $\overset{\square \land \bowtie}{\frown}$ " to set the selected group No.
- 6. Press "" to return to the NORMAL MODE.

GROUP NO.

Operated by simplified remote controller

- 1. Activate power to both the central remote controller and indoor unit.
- 2. Remove the upper part of the remote controller.
- 3. Press the BS6 BUTTON (field set) on the PC board. The controller will enter the FIELD SET MODE.
- 4. Select the MODE No. " 🖧 " with the BS2 BUT-TON and BS3 BUTTON (temperature setting).
- 5. Use the BS9 BUTTON (set A) and BS10 BUTTON (set B) to select the group No. for each group. (Group No. increases in the order of 1-00, 1-01 ... 1-15, 2-00, ... 8-15.)
- 6. Press BS7 BUTTON (set/cancel) to set the selected group No.
- 7. Press BS6 BUTTON (field set) to return to the NORMAL MODE.



Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																
Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																

Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																
Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																

OPTIONAL ACCESSORIES



You can perform the normal operation, take off the malfunction contact point and unified start/stop by contact point, all by connecting this unit with the unification adaptor for computerized control. For further details, ask your DAIKIN dealer.

(a) Unification adaptor for computerized control (b) Central remote controller

DOUBLE CENTRAL REMOTE CONTROLLERS



With two central remote controllers, centralized control (indoor units) is possible from different locations.

(a) Central remote controller (b) Group No. 1 – 00 (c) Group No. 1 – 15 (d) Group No. 2 – 00 (e) Group No. 4 – 15 (f) A maximum of 64 groups

Note)

• For control alignment and settings for double central remote controllers, contact your dealer.

SPECIFICATIONS

Specifications

Power supply	1 ~ 50/60Hz, 100V – 240V
Power consumption	Max. 8W
Forced ON/OFF input	Continuous "a" contact Contact current: approximately 10mA
Size	180 (W) × 120 (H) × 64.5 (D)
Weight	420g

■ Outline drawings



When using this unit an electric parts box of KJB311A is required. For installation, a steel electric parts box to be embedded is mandatory.





14.9 <DCS301C71> Unified ON/OFF Controller Installation Manual

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bio inform academic that has my additions the instabiliation mutual along with the operation mutual bio future informers. The incredingent exercision of the instabiliation mutual bio future informers and instability of the instability of th	nstallation, make sure that the Please instruct the customer	e unit operates property during the start-up operation. on how to operate the unit and keep it maintained.
A warehund wareng caution and note symbols. A warehund	Also, inform customers that I This air conditioner comes u	hey should store this installation manual along with the operation manual for future reference. nder the term "appliances not accessible to the general public".
Advance of a control of the source of the s		
A MARNE _ indications prevents by careful as which, if not activities, may read in minitor or moderate highly thing who be used to eleft agents the second as the second as which, if not activities, may read in minitor or moderate highly. If may also be used to eleft agents the second as allowed in that we read in requirement or preperty-damages or thy careful as the second as	Meaning of warning, caution	and note symbols.
A CAUTON	MARNING Indicat	on a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Constraints and the second se	CAUTION Indicat	on a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against practices.
Consistent of the second and the second of		on situation that may result in equipment or property-damage-only accidents.
Constraints Constrain		
https://www.initial.i		▲ WARNING
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Be sure to use only the specified accessories and parts for installation work: A mainter to use he specified parts may exist in water instage, addice actual go accessor. A mainter that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to a mainter that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to a mainter that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to a mainter that a separate power supply accessor is provided for this unit and that all electrical work is carried out by qualified personnel according to a mainter that a separate power supply accessor is provided for this unit and that all electrical work is carried out by qualified personnel according to a mainter that a separate power supply accessor is provided for this unit and, and no external forces act on the ferminal connections or wires. The provide go and the sectic parts hos is in my result in decise that checks, life or the terminal connections or wires. The provide go and the sectic parts hos is any result in decise that check, life or the terminal ownerheating. Section to accessing the system. Be are to keep the refrigerant circuit the from subtances other than the specified refrigerant (R410A), and as a accessing the system. Be are to keep the refrigerant discust discust accessing the provided is carried to accessing the system. A result is a section with well fingers a section of the section parts are supply and the section and the section and the specified terrigerant (R410A), and as a accessing the section of the deck duck shock may result in the fingers and toporated by comments are specified terrigerant (R410A), and as a accessing the section and the section and the section and the section and the sectin and the section and the section and the section and the se	Perform installation work in Improper installation may res	n accordance with this installation manual. ult in water leakage, electric shocks or fire.
Tarry with the specified installation work first tables into account strong winds, hyboras or earthquakes. The second of the specified installation may use of accounts acco	Be sure to use only the sp Failure to use the specified p	cified accessories and parts for installation work. arts may result in water leakage, electric shocks, fire or the unit falling.
Lake a use that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to one laws and regulations and this inclusions names. An insufficiant power supply capacity is preperfied using and used, and no external forces act on the terminal connections or wires. The wring the power supply and connecting the remote controller wring and transmission wiring, position the wires or that the electric parts box lid mapper positions of the dectric parts box lid mapper positions or reliable on marking the power supply and connecting the remote controller wiring and transmission wiring, position the wires or that the electric parts box lid mapper positions of the dectric parts box lid mapped positions of the dectric parts box lid mapped positions of the dectric parts box lid mapped position of the dectric parts box	Carry out the specified ins Improper installation work m	tallation work after taking into account strong winds, typhoons or earthquakes. ay result in the equipment falling and causing accidents.
the insufficient or any ensemple capacity or improper electrical construction may lead to electric shocks or time. table sure that all writing is secured, the specified writes and used, and no external forces at on the terminal connections or wires. The writing the power supply and connecting the remote controller writing and transmission writing, position the writes so that the electric parts box lid and be secured fracted. The writing the power supply and connecting the remote controller writing and transmission writing, position the writes so that the electric parts box lid and be secured fracted. The writing the power supply and connecting the remote controller writing and transmission writing, position the writes so that the electric parts box lid and be secured fracted. The writing the power supply and connecting the remote controller writing and transmission writing. The writing the power supply and connecting the remote controller writing and transmission writing. The writing the power supply and connecting the remote controller writing and transmission writing. The writing the provession writing the section protection device is abort to gas or water pipes. Hightning red or a telephone ground write. The origination and writing the secting and the protection device is abort to and operated forcibly, or parts other than the specified refrigerant (R110A). The origination and writing the secting and the protection device is abort to and operated forcibly, or parts other than the secting and the protection device is abort to and operated forcibly, or parts other than the sectified refrigerant (R110A). The origination and the device is refrigerant (R110A). The origination and the device is refrigerant the refrigerant device is abort to and operated forcibly, or parts other than those specified by Dakin are used, fire or the one of the motel section abort. The origination and the devi	Make sure that a separate	oover supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to and this installation manual
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	When wiring the power su	ply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid
Performance and the product of the	Improper positioning of the e	ectric parts box lid may result in electric shocks, fire or the terminals overheating.
Transmitter air conditioner. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. In pressure which, thermal law decits shock. The pressure which, thermal awich, or other protection device is shorted and operated forbity, or parts other than the specified by Daikin are used, fire or protection device is shorted and operated forbity, or parts other than those specified by Daikin are used, fire or protection device is shorted and operated forbity, or parts other than those specified by Daikin are used, fire or protection device is shorted and operated forbity, or parts other than those specified by Daikin are used, fire or protection to change the setting of the protection device is shorted and operated forbity, or parts other than those specified by Daikin are used, fire or provincing or the with the off ingers. Do not couch the switch with we fingers can cause electric shock. The pressure which, thermal or hard is on allowery or operating produced (to rownipp in a kitchen Patie parts may decirations and leaf of or result in refigerant laskage. Do where convergence wates are and leaf of or result in refigerant laskage. De or the operation and leaf of or result in refigerant laskage. De or the active produced the operation of the corticl system and result in a maifunction of the equipment. De or the operation are and elever each on the or or ignitable dust suppensions in the air, or where volatils flammables such as thinner or agas and the other or ganitable dust suppensions in the air, or where volatils flammables such as thinner or agas and here on the stackage base or other tipicties. The pressure which are and all or other present. Demontation groups water are active on the or control system and result in a maifunction of the equipment. Demontation groups water are active on the or ignitable dust suppensions in the air, or where volatils flammables such as thinner or agas and here of the present and the other or agas and the origin are aubore or the pres	Before touching electrical	parts, turn off the unit.
When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as it. Do not reconstruct or change the settings of the protection device is shorted and operated forcibly, or parts other than those specified by Dakin are used, fire or specified with with fingers. Do not note the switch with we fingers can cause detert shock. Install an leak circuit breaker, as required. The index of the index of the protection device is shorted and operated forcibly, or parts other than those specified by Dakin are used, fire or specified are used. The ordinations or the remote controller in the following locations: (a) where a minored of mits or an oil spray or vapor is produced, for example in a kitchen Pastic part and indired result in water leakage. (c) near machinery entiting electromagnetic waves as diature to part packing and the control system and result in a malfunction of the equipment. (c) where frammable gasemay leak, where there are cation theor of pathabe cust suspensions in the air, or where volatile flammables such as thinner or gas. (c) near machinery entiting electromagnetic waves as diature to device the area cation theor or ignitable cust suspensions in the air, or where volatile flammables such as thinner or gas. (c) meet frammable gasemay leak, where there are cation theor or ignitable cust suspensions in the air, or where volatile flammables such as thinner or gas. (c) meet frammable gases may leak, where there are cation theor or pathabe cust suspensions in the air, or where volatile flammables such as thinner or gas. (c) meet frammable gases may leak, where there are cation theor or pathabe cust suspensions in the air, or where volatile flammables such as thinner or gas. (c) meet frammable gases on that chiefer will not play with them. If chiefer play with a plastic bag which was not torm apart, they lace the rest of sufficient. (c) there are not down any distore can easy of stores, water flakage and trouble may oc	Ground the air conditioner ncomplete grounding may re	Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. sult in electric shocks.
Do not construct or change the settings of the protection devices. If here results work the thermal switch, or other protection device is shorted and operated foreibly, or parts other than those specified by Daikin are used, fire or typication may result. Do not use the switch with west fingers and cause electric shock. Install neak circuit breaker, as required. If an leak circuit breakers is not installed, electric shock may result. Do not install the air conditioner or the remote controller in the following locations: (a) where a mirrental of mist or an all parts or y vapor is produced, for example in a kitchen Pastic parts may deterionic and list of or result in water leakage. (b) Controlling a witch west may deterionic and list of or result in water leakage. (c) near machinery emitting electromagnetic waves Electromagnetic waves may disturb the operation of the control system and result in a mafunction of the equipment. (c) where finamize laws, where there are carbon fiber or rightable dust supensions in the air, or where volatile flarmables such as thinner or agaeline are handled. Operating the unit in such conditions may result in fire. Bately dispose of the packing materials. Marking materials, such as natis and other metal or wooden parts, may cause stabs or other injuries. Marking materials, such as natis and other multi or such with them. If children play with a plastic beg which was not torn apart, they lace text of subcision. Do not unt of the power immediately after stopping operation. Ways wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur. Marking materials.	When installing or relocati such as air.	ng the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A),
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fan laak circuit breaker is not installed, electric shock may result. Op out Install the air conditioner on the remote controller in the following locations: (a) where a mineral ol mist or an oil spray or vapor is produced, for example in a kitchen Pissic parts may deteriorate and fail off or result in retrigerant leakage. (b) where corresive gas, such as solid celecomagnetic waves Electromagnetic waves may disturb the operation of the control system and result in a maifunction of the equipment. (c) where corresive gas, such waves may disturb the operation of the control system and result in a maifunction of the equipment. (c) where corresive gas, such waves may disturb the operation of the control system and result in a maifunction of the equipment. (c) where corresive gas, such waves may disturb the operation of the control system and result in a maifunction of the equipment. (c) where formable gases may leak. Where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions may result in fire. Be very careful about product transportation. Barter part and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they tace he risk of sufficients. Note: <p< td=""><td>Install an leak circuit break</td><td>er, as required.</td></p<>	Install an leak circuit break	er, as required.
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	Dismontling of the unit tre	atment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national



Patter	n of connection	of optional controllers for	centralized control		Connector for setting mast	er controller (X1A) Setting	gs Sobodulo timo
Unified ON/O		1 to 4		Set one to "Used" ar Set all	d all the rest to "Not used".	(Note)	Schedule lime
1 to	16	1 to 4	1	Set one to "Used" an Set all	d all the rest to "Not used". o "Not used".	(Note)	"Not used" "Not used"
3 MAIN/SL With two u locations. One of the 4 Setting of The unifie sequentie indoor un operation	B changeove nified ON/OFF con the sector of the sector of the sector down of the sector of the sector of the sector of the sector of the sector of the secto	ttach the number seal a h display sticker, as she (Example) In the case of 1-00 to result of the sector of the sec	Image: Sequential operation Image: Sequential operation CN."	control range of the w. rom different witch. her is set to "SUB".	Connector for Switch	(To hold reset) r setting master controll Forced reset switt for setting each addre Control mode select MAIN/SUB chang Toop No. 1-00 Max. of 16 groups n, perform forced reset.	Ler the the ss tor eover switch Unified ON/O controller (2 Sequential operat "OFF"
NOTE: The	oquential one	ration function is design	ed to reduce the load o	n the nower supply	equipment, but does not	t quarantee that compr	essors will not be
NOTE: The s starte 5 Control r The follo	equential ope d simultaneou node selector ving four patte	ration function is design isly. You cannot therefor (DS2) erns of control mode ca	ed to reduce the load o e count on a capacity re n be set.	n the power supply duction effect by p	equipment, but does no ower supply equipment b	t guarantee that compropreaker selection.	essors will not be
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NOTE: The s starte 5 Control r The follor Control mode Content	equential ope d simultaneou node selector wing four patte Operation/sto unified ON/O remote contro	Individual Individual FF controlled by both FF controller and biler.	ed to reduce the load o e count on a capacity re h be set. Centralized After operated by unified Ol controller, operation/stop is controlled by remote contro stopped by unified Ol/VOFF	n the power supply eduction effect by p	equipment, but does no swer supply equipment b Timer operation possible by remote controller used in conjunction with schedule ion/stop is controlled freely by rem ler during the set time but operation lable when schedule timer is ON	t guarantee that compro- preaker selection.	essors will not be introl impossible te controller controlled by unified only. be operated/stopped b
NOTE: The s starte 5 Control r The follor Control mode Content DS2 setting	equential ope d simultaneou node selector ving four patte Operation/sto unified ON/O remote contro (Factory se	Individual	ed to reduce the load o e count on a capacity re n be set. Centralized After operated by unified OI controller, operation/stop is controlled by remote contro stopped by unified ON/OFF	N/OFF When control of the control of	equipment, but does no over supply equipment b Timer operation possible by remote controller used in conjunction with schedule ion/stop is controlled freely by ren ler during the set time but operatia allable when schedule timer is ON	t guarantee that comprovement of the comprovem	essors will not be antrol impossible te controller controlled by unified only. be operated/stopped b





Before starting test operation, supply power to the indoor units, outdoor units, and unified ON/OFF controller and press the ON/OFF BUTTON. If the operation lamp flashes, it indicates a malfunction in the indoor unit of the applicable group.

- If the display of "_____" flashes, it indicates a malfunction in the optional controllers for centralized control. Check for such malfunctions.
 - For test operation of macor and output of the instantiation manual attended with the databol and.
 After turning the power supply ON, if the unit does not accept operation for two minutes or more with the display of "______" flashing, check the following points.
 Check that setting of the connector for setting master controller is correct.
 - Check that the group No. for centralized control has been set.
14.10 <DCS301C71> Unified ON/OFF Controller Operation Manual

lease instruct the customer	star-up operation. on how to operate the unit and keep it maintained.
lso, inform customers that th his air conditioner comes ur	ney should store this installation manual along with the operation manual for future reference. Ider the term "appliances not accessible to the general public"
leaning of warning, caution	and note symbols.
MARNING India	cation a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION Indic	cation a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices.
NOTE Indic	cation situation that may result in equipment or property-damage-only accidents.
Keep these warning sheets	handy so that you can refer to them if needed. sforred to a new user, make sure to hand over this operation manual to the new user.
n order to avoid electric sh	nock, fire or injury, or if you detect any abnormality such as smell of fire, turn off power and call your dealer for instructions.
ncomplete installation perfor	uon or une air continioner. med by yourself may result in a water leakage, electric shock, and fire.
Ask your dealer for improve	ement, repair, and maintenance.
mproper installation or atta	an, and maintenance may result in a water leakage, electric shock, and the.
Be sure only to use access	ories made by Daikin which are specifically designed for use with the equipment and have them installed by a professional.
Ask your dealer to move an Incomplete installation may r	nd reinstall the air conditioner or the remote controller. esult in a water leakage, electric shock, and fire.
Never let the indoor unit or It may cause an electric shoo	r the remote controller get wet. ck or a fire.
Never use flammable spray	y such as hair spray, lacquer or paint near the unit.
Never replace a fuse with t	hat of wrong ampere ratings or other wires when a fuse blows out.
Use of wire or copper wire m Never inspect or service th	ay cause the unit to break down or cause a fire. e unit by yourself.
Ask a qualified service perso	n to perform this work.
Do not wash the air conditi	oner or the remote controller with excessive water.
Electric shock or fire may res	ult.
If the gas leaks out and stays	around the air conditioner, a fire may break out.
Touching a switch with wet fi	ngers can cause electric shock.
Touching a switch with wet fi	Ingers can cause electric shock.
After a long use, check the lif they are left in a damaged of Do not allow a child to mou	Ingers can cause electric shock.
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14.11 <DST301BA61> Schedule Timer Controller

Enables you to connect and control weekly schedule for up to 128 indoor units all together.



- Simultaneous control of up to 128 indoor units is managed by a week schedule.
- The start and stop time for twice a day can be set for the week in increments of 1 minute.
- By combining with a central remote controller and schedule timer, you can construct a system that matches the size and use of the building.
- If used together with a central remote controller, you can set up to 8 schedule patterns which can be distributed among zones as desired using the central remote controller.
- Is equipped with a compensation function for power failure up to 48 hours.
- Features thin design of a mere 16 mm in thickness. (Uses JIS recessed box for 2.)
- Wiring can be up to 1 km in length. Applicable wiring methods include bus and star in addition to crossover type.
- Can be used in combination with other D-BACS equipment.

Specifications / Dimensions

SPECIFICATIONS

Specifications

Display of time	12-hour digital display		
Clock cycle type	Quartz clock type		
Clock accuracy	Within ±30 sec./month (environmental temperature from 15°C to 35°C)		
Timer programming	Two pairs of programmed time for both system start and system off can be set in units of minute for each day of the week		
Power failure compensation time	Approximately 48 hours for a single occurrence of power failure (clock with No. of programmed time)		
Size	120 (W) \times 120 (H) \times 53 (D) mm (Width/Height/Depth)		
Weight	Approximately 210g		

Outline drawings



Specifications and appearance subject to change without notice.

14.12 <DST301BA61> Schedule Timer Controller Installation Manual

Please read these "SAFETY CO install it correctly. After completin Please instruct the customer on Also, inform customers that they	NSIDERATIONS" carefully before installing air conditioning equipment and be sure to ig the installation, make sure that the unit operates properly during the start-up operation. how to operate the unit and keep it maintained. should store this installation manual along with the operation manual for future reference.
This air conditioner comes under	r the term "appliances not accessible to the general public".
Meaning of warning, caution and n	ote symbols.
▲ WARNING Indication a poi ▲ CAUTION Indication a poi also be used to ▲ NOTE Indication situa	tentially hazardous situation which, if not avoided, could result in death or serious injury. tentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may b alert against unsafe practices. ation that may result in equipment or property-damage-only accidents.
Ask your dealer or qualified pers Improper installation may result in	sonnel to carry out installation work. Do not try to install the machine by yourself. water leakage, electric shocks or fire.
Perform installation work in acco	ordance with this installation manual.
Be sure to use only the specified	d accessories and parts for installation work.
Failure to use the specified parts in Carry out the specified installation	nay result in water leakage, electric shocks, fire or the unit falling. on work after taking into account strong winds. typhoons or earthquakes.
Improper installation work may res	ult in the equipment falling and causing accidents.
Make sure that a separate power qualified personnel according to An insufficient power supply capac	^r supply circuit is provided for this unit and that all electrical work is carried out by local laws and regulations and this installation manual. Sity or improper electrical construction may lead to electric shocks or fire.
Make sure that all wiring is secured Improper connections or installation	d, the specified wires and used, and no external forces act on the terminal connections or wires. n may result in fire.
When wiring the power supply a so that the electric parts box lid Improper positioning of the electric	nd connecting the remote controller wiring and transmission wiring, position the wires can be securely fastened. parts box lid may result in electric shocks, fire or the terminals overheating.
Before touching electrical parts,	turn off the unit.
Ground the air conditioner. Do no Incomplete grounding may result in	ot connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. n electric shocks.
When installing or relocating the specified refrigerant (R410A), su	e system, be sure to keep the refrigerant circuit free from substances other than the uch as air.
Do not reconstruct or change th If the pressure switch, thermal swit specified by Daikin are used, fire o	e settings of the protection devices. tch, or other protection device is shorted and operated forcibly, or parts other than those or explosion may result.
Do not touch the switch with we Touching a switch with wet fingers	t fingers. can cause electric shock.
Install an earth leak circuit break	ker, as required.
 Do not install the air conditioner (a) where a mineral oil mist or ar Plastic parts may deteriorate (b) where corrosive gas, such a: Corroding copper pipes or so (c) near machinery emitting elec Electromagnetic waves may (d) where flammable gase may 	* or the remote controller in the following locations: n oil spray or vapor is produced, for example in a kitchen a and fall off or result in water leakage. s sulfurous acid gas, is produced oldered parts may result in refrigerant leakage. ctromagnetic waves disturb the operation of the control system and result in a malfunction of the equipment. (leak where there are carbon fiber or ignitable dust suspensions in the air or where volatile
city where naminable gases hay flammables such as thinner Operating the unit in such co CISPR 22 Class A Warning.	or gasoline are handled. onditions may result in fire.
I his is a class A product. In a dom required to take adequate measure	lestic environment this product may cause radio interference in which case the user may be es.









Refer to the installation manual attached to the outdoor unit.

In case the schedule timer is used individually and the wiring is changed after the system has been operated, reset the power after energizing for more than five minutes. It may not be possible to control the unit from the schedule timer.



14.13 <DST301BA61> Schedule Timer Controller Operation Manual



SAFETY CONSIDER-ATIONS

Please read these "SAFETY CONSIDER-ATIONS " carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation.

Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference.

This air conditioner comes under the term " appliances not accessible to the general public ".

Meaning of warning, caution and note symbols.

N WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
	Indicates situation

that may result in equipment or property-damage-only accidents.

Keep these warning sheets handy so that you can refer to them if needed.

Also, if this equipment is transferred to a new user, make sure to hand over this operation manual to the new user.

– <u>À</u> WARNING ·

In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off power and call your dealer for instructions.

Ask your dealer for installation of the air conditioner.

Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire. Ask your dealer for improvement, repair, and maintenance.

Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin which are specifically designed for use with the equipment and have them installed by a professional.

Ask your dealer to move and reinstall the air conditioner or the remote controller. Incomplete installation may result in a water leakage, electric shock, and fire.

Never let the indoor unit or the remote controller get wet.

It may cause an electric shock or a fire.

Never use flammable spray such as hair spray, lacquer or paint near the unit. It may cause a fire.

Never replace a fuse with that of wrong ampere ratings or other wires when a fuse blows out.

Use of wire or copper wire may cause the unit to break down or cause a fire.

Never inspect or service the unit by your-self.

Ask a qualified service person to perform this work.

Cut off all electric waves before maintenance.

Do not wash the air conditioner or the remote controller with excessive water. Electric shock or fire may result.

Do not install the air conditioner or the remote controller at any place where flammable gas may leak out.

If the gas leaks out and stays around the air conditioner, a fire may break out.

Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.

CISPR 22 Class A Warning:

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

After a long use, check the unit stand and fitting for damage.

If they are left in a damaged condition, the unit may fall and result in injury.

Do not allow a child to mount on the unit or avoid placing any object on it.

Falling or tumbling may result in injury.

Do not let children play on and around the unit.

If they touch the unit carelessly, it may result in injury.

Do not place a flower vase and anything containing water.

Water may enter the unit, causing an electric shock or fire.

Never touch the internal parts of the controller.

Do not remove the front panel. Some parts inside are dangerous to touch, and a machine trouble may happen. For checking and adjusting the internal

parts, contact your dealer.

Avoid placing the controller in a spot splashed with water.

Water coming inside the machine may cause an electric leak or may damage the internal electronic parts.

Do not operate the air conditioner when using a room fumigation - type insecticide. Failure to observe could cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.

Safely dispose of the packing materials.

Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.

Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.

Do not turn off the power immediately after stopping operation.

Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur.

The appliance is not intended for use by young children or infirm persons without supervision.

The remote controller should be installed in such away that children cannot play with it.

Never press the button of the remote controller with a hard, pointed object. The remote controller may be damaged.

Never pull or twist the electric wire of the remote controller.

It may cause the unit to malfunction.

Do not place the controller exposed to direct sunlight.

The LCD display may get discolored, failing to display the data.

Do not wipe the controller operation panel with benzine, thinner, chemical dustcloth, etc.

The panel may get discolored or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. And wipe it with another dry cloth.

Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

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FEATURES AND FUNCTIONS



 When used in conjunction with central remote controller (Optional Accessory) The operation controlled by programmed time can be set for up to eight different patterns (timer No. 1 – 8). Each schedule pattern can be also selected.

۱A Fi	MES AND FUNCTIONS g. 1, 2)	OF	0	PERATING SECTION
	UNIFIED OPERATION BUT-			
4	TON " <u>ALL </u> "		9	(PRESENT TIME)
1	Press this button to perform the unified operation regardless of the No. of pro- grammed time.	_		Displays the present day of the week and time.
	UNIFIED STOP BUTTON			DISPLAY " 僧语 " (PRO-
~	" <u>ALL ()</u> "		10	START)
2	Press this button to perform the unified			Displays the time programmed to start
	grammed time.			DISPLAY " O OFF " (PRO-
2	OPERATION LAMP (RED)		11	GRAMMED TIME OF SYSTEM
5	The light turns on during the operation of the indoor unit.			Displays the time programmed to stop.
	DISPLAY " [⊕] _№ <i>∃</i> " (TIME NO.)			
4	Displays the time No. only when used		12	
	in conjunction with the central remote controller.	-		See page 5–9.
	DISPLAY			
5	"PROGRAM JSTART."		13	BUTTON " CLOCK "
5	(PROGRAWWING START)			Press this button to set the present
	programmed.	F		PROGRAMMING START
	DISPLAY " OFF " (HOLIDAY SETTING)			BUTTON "
6	Lights above the day of the week set as holiday. The operation controlled by		14	Press this button to set or check the No. of programmed time. Press it
	timer is not available on that day.			again after you are through with the program.
7	DISPLAY " — " (SETTING OF DAYS OF A WEEK)			BUTTON FOR SELECTING
1	Flashes below the day of the week pro- grammed.		15	DAYS OF A WEEK " DAY (1~7) "
	DISPLAY " 🐔 " (MALFUNC-			Press this button to select the day of the week.
}	TION CODE)			HOUR/MINUTE BUTTON
	Displays the contents of malfunction during the stop due to malfunction.		16	" [HR. (1~12) [MIN. (1~60) "
				Press this button to adjust the present time and the programmed time.

17	
.,	Press this button to set the present time and the programmed time.
	HOLIDAY SETTING
18	BUTTON "
	Press this button to set holidays.
	BUTTON FOR COPYING PROGRAM OF PREVIOUS
19	DAY " DAY COPY "
	Use this button to set the No. of pro- grammed time same as that of the pre- vious day.
	PROGRAM CANCELING
20	BUTTON "
20	Use this button to set the programmed time to cancel. The display shows " $-;$ ".
(Note 1. F	e) lease note that all the displays in the fig- re appear for explanation purpose or then the cover is open

OPERATION

■ Setting present time (Fig. 3)

(Example) In case of setting Friday, 5:30 p.m.

 Image: Press the CLOCK ADJUSTING BUTTON. The present time display flashes.

(NOTE)

• The present time needs adjusting in case of turning power supply on for the first time or the occurrence of power failure over the period of 48 hours or more.



- 2. Press the BUTTON FOR SELECTING DAYS OF A WEEK. Each time the button is pressed, the day display shifts to the right. (NOTE)
 - The display " MON " follows the display " SUN. "



Set the day to Friday.

3. ⁽³⁾ Set the time with the HOUR/ MINUTE BUTTON. Each time the HOUR/MINUTE BUTTON is pressed, the display is put forward minute by minute and hour by hour. When the button is kept pressed, the display is put forward continuously.

(NOTES)

- After becoming " AM 11:00 ", when the button is pressed, the display becomes " PM 0:00 ".
- After becoming "59" (minute), when the button is pressed, the display becomes "00" (minute).

CLOCK	

Set the time to 5:30 p.m.

4. ⁽⁴⁾ Press the TIMER ON BUTTON the moment the time signal of TV, radio, telephone, etc. is heard. The mark ": " flashes, and the clock starts.

	FRI .
CLOCK	_{РМ} 5301

Press the TIMER ON BUTTON in tune with the time signal at 5:30 p.m.

(NOTES)

- The clóck used is of 12-hour type.
- When you turn power supply on, the system may display " 🗄 " for about one minute and not start to operate after all the liquid crystal displays appear at a time.
- If the CLOCK ADJUSTING BUTTON is pressed by mistake, press it again to return to the original state. As the clock does not stop, the time indicated by the clock is kept correct. In case of power failure within 48 hours, the clock keeps operating by utilizing the built-in battery.

Setting no. of programmed time (Fig. 4)

(Example) Time No. 5 (to be programmed only when used in conjunction with the central remote controller)

Monday to Friday:

Operating from 8:45 a.m. till 5:00 p.m. Operating from 5:15 p.m. till

11:00 p.m.

Saturday and Sunday: Setting the whole day stop operation (application for holidays) controlled by programmed time.

PROGRAM MON TUE WED THU FRI SAT SUN

2. Press the TIME No. BUTTON, and select the desired number. (NOTE)

 Unless used in conjunction with the central remote controller, The TIME No. is not displayed and can not be selected.

Select the TIME No. 5.



3. ⁽³⁾ Press the BUTTON FOR SELECTING DAYS OF A WEEK, and set the proper day of the week. Each time you press it, the flashing display of days of a week shifts to the right.



Set to Monday.

- (1) Setting programmed time
- 4. Generation Set the programmed time of system start 1 by using the HOUR/ MINUTE BUTTON. Each time the HOUR/MINUTE BUTTON is pressed, the display is put forward minute by minute and hour by hour. When the button is kept pressed, the display is put forward continuously.



Set the "PROGRAMMED TIME OF SYSTEM START 1" at 8:45 a.m.

 5 Press the TIMER ON BUTTON, and set the programmed time of system start 1. Each time you press it, the next area to be set flashes.

(NOTE)

• Set the other programmed time in the same procedure.



- (2) Set the next day of the week. Set the day of the week to Tuesday, and copy the program of the previous day (Monday). In the same procedure, set the day of the week to Wednesday through Friday in sequence.
- 6. ^(E) Press the BUTTON FOR SELECTING DAYS OF A WEEK and set the following day. Press the BUTTON FOR COPYING PRO-GRAM OF PREVIOUS DAY. The same program as that of the immediately preceding day of the week is set.

(NOTE)

 Repeat each procedure 3 – 5 in the above when not copying the contents of the previous day.

- (3) Holiday setting
- 7. TPress the BUTTON FOR SELECTING DAYS OF A WEEK and set one or more days of the week as holiday. Press the HOLI-DAY SETTING BUTTON, and the display "OFF " is displayed at the top of the day of the week. If you press it again, the display returns to the original state.



Set Saturday and Sunday as holidays.

8. ^(*) Press the PROGRAMMING START BUTTON, and finish the program setting.

(NOTES)

- Unless the button is pressed within 20 minutes, the display will automatically revert back to the original state. In this case, setting contents up to the point where the TIMER ON BUTTON (or HOL-IDAY SETTING BUTTON or BUTTON FOR COPYING PROGRAM OF PREVI-OUS DAY) is pressed will only take effect.
- The display " PROGRAM , J START " and the display of days of a week " — " disappears.

- The flashing display goes off, and the No. of programmed time of the present day is displayed. Then the operation controlled by timer starts.
- The operation controlled by timer is executed even while the program is being set.



This is the end of the setting example.

Change and cancellation of no. of programmed time (Fig. 5)

(Example) Time No. 3 (to be set only when used in conjunction with the central remote controller)



- I: IP Press the PROGRAMMING START BUTTON. The program setting is ready. The display "PROGRAM JSTART " appears, and the display of days of a week flashes.
- 2. ⁽²⁾ Press the TIME No. BUTTON, and select the desired No.

() NO,		OFF OFF THU FRI SAT SUN	SET1 ^{ON} ## 2::45 ►	O OFF SULL
	CLOCK		SET2 ON 5: /5 ►	O off / /:[][]

Select the time No. 3.

3. ⁽³⁾ Press the BUTTON FOR SELECTING DAYS OF A WEEK, and set the day of the week to be changed. The set No. of programmed time of the day of the week is displayed.



Set the day to Wednesday.

- A. Change/cancel partially
- 4. ⁽⁴⁾ Press the TIMER ON BUTTON and change, and the display of programmed time flashes. Each time you press it, the next area to be set flashes.

() NO.	9 9FF 5:00

Shift to the display "PROGRAMMED TIME OF SYSTEM OFF 1".

5. ⁽⁵⁾ Press the HOUR/MINUTE BUTTON and change the programmed time. Press the TIMER ON BUTTON, and finalize the setting of change.



Change the "PROGRAMMED TIME OF SYSTEM OFF 1" to 7:00 p.m.

6. ⁽⁶⁾ Press the PROGRAM CAN-CELING BUTTON, and cancel the programmed time. If you press it again, display returns to the original state. Press the TIMER ON BUTTON to finalize the cancellation.



Shift to the "PROGRAMMED TIME OF SYSTEM START 2".



Set the "PROGRAMMED TIME OF SYSTEM START 2" to program cancellation.

In the same procedure, cancel the programmed time of system off 2.

- B. Cancel the whole
- 7. TPress the BUTTON FOR SELECTING DAYS OF A WEEK, and shift to the day of the week to be canceled. Then, press the HOL-IDAY SETTING BUTTON, the display " OFF " appears at the top of the particular day of the week. The programmed time is canceled. If you press the button again, the display returns to the original state.

() NO.		
	CLOCK	⁵ FRI Γ.ΙΤΙΤΙ PM <u>Γ.ΙΤΙΤΙ</u> ON OFF ►

Shift the day of the week to Thursday to set as a holiday.

8. ^(I) Press the PROGRAMMING START BUTTON. The program setting is now finished.

- (NOTES)
- Unless the button is pressed within 20 minutes, the display will automatically revert back to the original state. In this case, setting contents to the point where the TIMER ON BUTTON (or HOLIDAY SETTING BUTTON or BUTTON FOR COPYING PROGRAM OF PREVIOUS DAY) is pressed will only take effect.
- To continue the change/cancellation, do not press the PROGRAMMING START BUTTON until all change/cancellation are completed.
- The operation controlled by timer is executed even while the program is being set.

Manual operation (Fig. 6)

This schedule timer enables the operation/stop by pressing the UNIFIED OPERATION/STOP BUTTON in addition to the operation controlled by timer (operation/stop according to the programmed time) at any time.

- 1. UP Press the UNIFIED OPERA-TION BUTTON, and the OPERA-TION LAMP turns on.
- 2. Press the UNIFIED STOP BUT-TON, and the OPERATION LAMP is turned off.

(NOTES)

- The operation automatically stops according to the programmed time of system off even during the manual operation. In the meantime, the operation starts automatically according to the programmed time of system start even during the stop of operation.
- If the unit is used in conjunction with other optional controllers for centralized control, the OPERATION LAMP of the unit that is not under operation control may be turned on or off a few minutes behind schedule. This shows that the signal is being exchanged, and does not indicate any failure.



Operation control code

Two different types of operation control codes can be selected when this kit is used independently (when not used in conjunction with the central remote controller, unified ON/OFF controller, etc.).

Individual

In case where the operation/stop is controlled by both schedule timer and remote controller.

Centralized

The operation is controlled by the schedule timer alone, and the operation/stop is controlled freely with the remote controller during the programmed time.

(NOTES)

- For current settings, contact your DAIKIN dealer.
- To change settings, contact your DAIKIN dealer.

Do not change settings yourself.

Error diagnosing function (Fig. 7)

This schedule timer is provided with the malfunction diagnosing function. The malfunction code flashes if there occurs any malfunction in communication, etc. between and among the optional controllers for centralized control. In addition, the operation lamp also flashes if there occurs any malfunction in communication with the indoor unit. Check the contents of the display and contact your DAIKIN dealer because the signals give you the idea of the trouble area.

Opera- tion lamp	Malfunc- tion code	Contents of mal- function			Address failure of schedule timer.
Turn off	M1	Failure of PC board of schedule timer. Fixes The following causes are possi- ble. Check each one. 1. PC board prob- lems	Turn on or off	МС	 Fixes The following causes are possible. Check each one. 1. Do the control range addresses in the central remote control- ler overlap? 2. Do the control
Turn on		Malfunction of transmission between each optional controllers for centralized con- trol.			 ange addresses in the on/off con- troller overlap? 3. Are there 2 or more schedule timers con- nected?
or off	M8	Fixes Check all central devices which are connected (e.g., power supply, transmission wiring, etc.).	Flash	UE	Malfunction of transmission between indoor unit and optional controllers for cen- tralized control.
		Improper combina- tion of optional controllers for cen- tralized control. Fixes			Inspect all indoor units which are dis- playing an error (e.g., power supply, transmission wiring, etc.).
Turn on or off	MA	 I he following causes are possi- ble. Check each one. 1. Are all central devices com- bined correctly? 2. Is the master central connec- tor attached to 	Flash	_	Malfunction in indoor unit (Refer to the malfunction codes of the indoor remote controller, while also read the " CAUTION FOR SERVICING " attached to the indoor unit.)
		two or more cen- tral devices? 3. Are there 128 or more indoor	QUEST		ND ANSWER
		units con-	Questi	on	Answer
	1	neclea?			

Question	Answer
t is possible to make settings wice a day, but is t possible to make only the ' off " setting? (To avoid forget- ing to turn the unit off.)	Yes. Press the PRO- GRAM CANCELING BUTTON in the "

Is it possible to set times which straddle days?	Yes, it is possible. Example: Start operation at 5:00 a.m. on Sunday Stop operation at 6:00 p.m. on Monday	The TIME NO. is not displayed.	 The following causes are possible. 1. The TIME NO. is not displayed when using the schedule timer alone. (It can be set if using the central remote controller at the same time.)
The unit does not turn on even though the set " on " time has come. (When using the schedule timer alone)	The following causes are possible. 1. Are the " on " time and the " off" time set to the same time?	The display remains " " " " " " " " " " " " " " " " " " "	The following causes are possible. 1. Is the day set to a holiday?
The unit does not turn on even though the set " on " time has come. (When using the unit with a central remote controller)	 I ne following causes are possible. Check each one. Was the timer num- ber set with the cen- tral remote controller? Was an incorrect timer number set? Is another timer no. set with the central remote controller set for " off " at the same time? Is the operation code set to "remote control permission timer " using the central remote controller or the on/off controller? 	I cannot set " central manage- ment priority " or " after-push prior- ity " with the schedule timer.	 The following causes are possible. 1. Is a central remote controller or on/off controller also installed? * The priority order of the operation codes depends on the central devices which are installed. The below operation codes are set. Schedule timer Central remote controller is used as well Operation code of the central remote controller Schedule timer
The unit oper- ates even though that day is set as a holiday. (When using the unit with a central remote controller)	The following causes are possible. 1. Is another timer num- ber set with the cen- tral remote controller set for " on " at the same time? (If two timer numbers are set, make sure that the settings for holidays and working days do not overlap between the different		 On/off controller is used as well Operation code of the on/off control- ler Schedule timer Central remote controller On/off controller is used as well Operation code of the central remote controller

14.14 <KRCS01-4B> Remote Sensor

Notes

- Please check applicable kit model name by catalog etc.
- When installed on SkyAir Round-flow type models, the dehumidification by detection of humidity does not operate.

Accessories

Check the following accessories.

Name	Remote sensor (sensor box)	Extension cable (2-core, 12m)	Clamp	Installation manual (this drawing)	Mounting screw (M4x16)
Shape			3		6
Quantity	x 1	x 1	x 2	x 1	x 2

Mounting

1) Selection of mounting location.

The thermistor for temperature detection is incorporated into the remote sensor. Select the mounting location taking the following cautions into account.

① Where the average temperature of an air conditioned room can be detected.

- 2 Where it is not exposed to the direct sunlight.
- 3 Where it is not influenced by other heat sources.
- (4) Where it is not exposed to the direct discharge air from the air conditioner.
- (5) Where it is not exposed to the outdoor air infiltrated into the room by opening the door.

2) Mounting

• Remove the cover of the sensor box.

A

about 6mm width flat blade screw driver

(1) Insert a flat blade screw driver into the sensor box concave part (2 locations). (2) Remove the cover pushing up the nail to the cover of the sensor box.

<Cautions>

Do not push the nail powerfully with a narrow flat blade screw driver, because you may break off the nail.





14.15 <KRP1C74/75> Wiring Adaptor



14.16 <KRP4A74> Wiring Adaptor for Electrical Appendices



mode	g the control mode selecto as described below,	r swit	ch (RS1), select the cont	rol		RS1 Control mode Selector switch		
					(Fac 0 P	tory set) asition		
① For s	pecifying individual displa	ay						
Po	osition O Individua	Fun L disp	ction lav (Input innored)					
() What i	operating the unit with cou	netant	input at input A					
Position	Function	no cun c	When input A is	s (IN		When input A is OFF		
1	QN/QFF control impossibl	le Op	eration (Normally ON/OFF	control impossi	ible			
2	Contralized	0 p	Operation + ON/OFF control possible by					
	CCILIAI12CU	re No	mote controller eration + OFF control pos	Il possible by remote impossible by remote controller				
3	QFF control possible by remote controller	C0 C0	ntroller (ON control impo ntroller)					
4	QN/QFF control possible by remote controller	0N (0	/OFF control possible by peration impossible by op	remote controll tional controll	ler ler)			
6	Individual	aut D	Turns OFF system with ON T Turns OFF system with ON T Turns ON system with ON i (Normally ON/OFF control by remote controller)	nput nput put possible	(when possi by re sible,	ON, OFF control is ole but ON/OFF control note controller is impos- and input A is ignored)		
★ FOR E	hermostat control using in When in	put B nout A	is (IN	w	hen i	nout B is ON		
С	QN/QFF control imposs	aible b	y remote controller	Forced therm	ed thermostat OFF command			
D	(Same a	ts posi	tion 5)	Energy savin	9 C O	mmand (*)		
F	Individual (S	Same a	s position 6)	Energy savin	g co	ut OFF command		
indoo	r unit fan only operates. y saving command (*) ndoor unit operates at 4°	F hỉgh	er (cooling)/lower (heati	ng) the set tem	iperat Luni	ture.		
 Energ The T Note> In su stop. (Use T) 	ch case, even if input A i operating the unit using in an instantaneous_input of ;	s ON, nstanta 200 msi	thermostat control is tur ancous input at input A ar ec or longer QN time),	ned OFF, and al nd B		its in the same group will		
 Energ The i Note > In su stop, When i (Use i Position 	ch case, even if input A i operating the unit using in an instantaneous input of ; Evention	s ON, nstanta 200 mst	thermostat control is tur aneous input at input A ar ec or longer ON time). When input A i	ned OFF, and al nd B s ON		its in the same group will When input A is DFF		
 Energ The i Note > In su stop, When i (Use i Position 7 	ch case, even if imput A i operating the unit using i an instantaneous imput of ; Entry of the second ON/OFF control impossibl by remote controller	s ON, nstanta 200 msr le Di b:	thermostat control is tur aneous input at input A ar ec or longer ON time). When input A i peration (Normally DN/QFF y remote controller)	ned OFF, and al nd B s ON control imposs	ible	its in the same group will When input A is OFF		
Energ The i Note > In su stop. When i (Use i Position 7 8	ch case, even if input A i operating the unit using i an instantaneous input of j Function QN/OFF control impossibl by remote controller Centralized	s ON, nstanta 200 msi le Oi bi 0	thermostat control is tur aneous input at input A ar ec or longer ON time). When input A i peration (Normally DM/OFF y remote controller) peration + ON/OFF control mote controller mote controller	ned OFF, and al nd B s ON control imposs possible by	ible	its in the same group will When input A is OFF		
Energ The i Note > In su stop, When i (Use i Position 7 8 9	ch case, even if imput A i operating the unit using in an instantaneous imput of j Function ON/OFF control impossibl by remote controller OFF control possible by remote controller	s ON, nstanta 200 msr le Oi b! Di ci ci	thermostat control is tur aneous input at input A ar ec or longer ON time). When input A i peration (Normally ON/OFF y remote controller) peration + ON/OFF control mote controller peration + OFF control po ontroller (ON control imp ontroller)	ned OFF, and al nd B s ON control imposs possible by ssible by remot pssible by remot	ible e ite	its in the same group will When input A is OFF OFF + ON/OFF control impossible by remote controller		
Energ The T In su stop. Use : Position 7 8 9 A	ch case, even if input A i operating the unit using in an instantaneous input of ; Function OW/OFF control impossible by remote controller OFF control possible by remote controller ON/OFF control possible by remote controller	s DN, nstanta 200 msi 10 0 0 0 0 0 0 0 0 0 0 0 0 0	thermostat control is tur aneous input at input A ar ec or longer GN time). When input A i peration (Normally DN/OFF y remote controller) peration + GNF control mote controller peration + GN control impu ontroller (ON control impu ontroller) W/OFF (Dentrol possible by er)	ned OFF, and al nd B s ON control imposs possible by possible by remot remote control by optional con	ible e te trol-	its in the same group will When input A is OFF OFF + ON/OFF control impossible by remote controller		



14.17 <KRP1BB101> Installation Box for Adaptor PCB



C: 1P567551-1



14.18 <KRP4A98> Installation Box for Adaptor PCB





14.19 <BRYQ60A2W(S)> Sensor Kit





14.20 <KDBQ44BA60A> Panel Spacer




14.21 <KDDQ44XA60> Fresh Air Intake Kit

Remarks :

- 1. This kit can be installed to the Ceiling mounted cassette type (Multi-flow).
- 2. When installing this kit, duct (Nominal dia. : ϕ 100) is required on site.

In case that metal duct is penetrated through wooden walls, make sure the duct and the wall electrically insulated.

• Install the duct inclined downwardly to outdoor so that the rain may not get into the duct. (Inclination 1/100 to 1/50)

 \cdot To avoid birds, small animals or insects getting inside the duct, make sure to install net where it contacts the outside air.

Contents

1

Prior to installation, make sure you have the complete kit of parts.

Name	① Duct flange	② Screws	③ Insulation for duct flange	④ Insulation for opening of unit	5 Installation manual
Q'ty	1 piece	4 pieces	1 piece	1 piece	1 piece
Shape		∭ M4×12	Ø	e e e	Ĥ
Neces	sary tools				

Philips head screw driver, nipper, cutter etc.

Installation procedures of duct flange

1. Cut off the knockout hole on the side plate. (Fig.1) The knockout hole is opposite to ref. pipe.

 Knockout hole
 Ref. pipe

 Side plate
 Fig.1

 Cut it off
 with nipper.

 Side plate
 Sit

 Side plate
 Sit

 Side plate
 Sit



14.22 <KPW937F4> Air Direction Adjustment Grille

Name	①Air direction adjustment grille	②M4×30 Screw	③Installation manual	④Seal	(5)Spacer
Shape		0			0
Qty.	1 pc.	4 pcs.	3 sheets.	L=385:1pc, L=355:2pcs.	4 pcs.
Selecti	ion of installation :	site)			
 Use fol 1. W 2. W g Caution Be dir 1. B 2. A 3. W D o 4. B i 5. D 	the air direction a lowing conditions. hen installing the o hen changing the air arden plants. s for usage sure to perform the ection adjustment gr e sure to stop the o void short-circuits hen using the unit i o not install the gr f the outdoor unit a e careful of foreign nstalling the grille o not use screws oth	djustment grille for utdoor unit near the flow direction to pr following as install ille. peration before inst during installation. n areas with snow, in ille to create an up s this may damage th substances such as to create an upward er than those provid	Installation at a loca eneighbouring house. event exhaust blowing d ation precautions to en allation. ustall the grille to cre ward airflow to prevent ward airflow to prevent le unit. dead leaves, which may a l airflow. led. Tighten the screws	lirectly onto passersby or nsure correct and safe use eate a left-right or downw s snow accumulating in the accumulate on the air outl securely without any loos	of the air ard airflow air outlet et after eness.
Inetal	lation of air direct	ion adjustment gril	٩		
 Pit and Ins Tem ang 	ch of the installati horizontal directio tallation can be per porarily secure the le,and then tighten	on screws for the ai ns. formed in 4 directic air direction adjust the screws.	r direction adjustment ons:top,bottom,left and ment grille(①) using 4	grille(①)is 434mm in the right. Fscrews(②),check the ins	vertical tallation
Stee	l wire outlet	grille			
-Seal	(\widehat{A}) and snacers (\widehat{B}) are not necessary			
1 Re	move the 4 outlet gr	ille fixing screws.	Front panel Outlet grille Outlet grille fixing screw		



14.23 <KPW063B4> Air Direction Adjustment Grille

Hamo	① Air direction adjustment grille	2 Screw	(3) Spacer	④ Installation Manual
Illustration		<u>Jane 1</u>		
Quantity	1 pcs.	4 pcs.	4 pcs.	1 sheet(this sheet)
 Where you w has been in its exhaust When changin Cautions Be sure to safe use of Install Tighten 	sh to change the exhaust airflow directist stalled facing a road, so that passing perair ing the airflow direction to prevent exhaut for usage perform the following as installation pre- he air direction adjustment grille. the product so that it is situated high intenance purposes. stalling the product in a location in wh a rollover prevention bracket (sold sepu- screws securely. Failure to do so may ro	ion because t cople are not ust blowing d ecautions to enough to al ich it may be arately) at f esult in vibu	the outdooruni c exposed to lirectly onto ensure correct llow access to e exposed to so the same time. ration.	t passersby or garden plants. ct and o the outdoor unit strong winds,
		▲ Caution Leave at leas The outdoor u) t 3-15/16 inc nit and any c	ch between the rear of obstructions(walls, etc.).



14.24 <KKG067A41> Back Protection Wire Net



14.25 <KKG063A42> Back Protection Wire Net



14.26 <KEH067A41EA, KEH063A4E, KEH063A4EA, FTDBHMS, FTDBHML> Drain Pan Heater

ead these Safety Co	onsiderations carefully before installing the drain pan hea	ter. After completing	g the installation, check if the unit
erates properly duri	Ing the start-up operation.		
Banning of DANGER,			
	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.		Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.		
nform users that the After completing the All phases of the fie nanufacturer's instr This product is a he	ey should store this installation manual for future reference installation, make sure that the unit operates properly du Id-installation, including, but not limited to, electrical, piping uctions and must comply with national, state, provincial, a ater designed to melt snow that is blown into the product f	e. ring the startup ope g, and safety, must nd local codes. rom the outside to p	ration. be done in accordance with prevent the drain pan of the outdoor
unit from freezing.	with a anow brook bood on a high stand if this product is us	ad in hoovy onow o	
	nur a snow-break nood on a nigh stand it this product is us	eu in neavy snow a	11003.
\land DANG	iER		
Do not touch th	e heater unit without wearing gloves.		
The temperature of the	he heater unit will become high when the heater is turned on.		
Touching the heater u	unit with bare hands will result in burns or injury.		
A WAR	JING		
		• •	
Request the dea	aler or an authorized technician to install the pro	duct.	
Improper installation	of the product could result in water leakage, an electric shock, or	tire.	
The product mu	ist be installed according to the instructions give	en in this manual	
The Incomplete Insta	Illation of the product could result in water leakage, an electric sho	ock, or fire.	
Use the supplie	d or specified installation parts.	lastria shask ar fire	
	und result in the drift becoming loose and failing, water leakage, e	lectric shock, of file.	
Touching any electric	al parts may with the power supply turned on could result in elect	tric shock	
	res. Connect and fix the wires so that the wires will	not put improper	force on the terminal junctions
Wires connected or fi	ixed improperly could result in terminal overheating, an electric sh	nock, or fire.	force on the terminal junctions.
When wiring an	d connecting the indoor and outdoor units, caref	fully arrange the	wiring so that they will not
put improper fo	rce on the structures.	any arrange ine	
Install covers over the	e wires. Incomplete cover installation could result in terminal over	heating, an electric sh	ock, or fire.
•			
\land CAUT	ION		
Wear protective	gloves at the time of installation.		
Touching the suction	mouth or aluminum fin of the outdoor unit may result in injury.		
Do not install th	e product in places where there is danger of exp	osure to inflam	nable gas leakage.
If the gas leaks and b	builds up around the unit, it may catch fire.		
Do not grab the	top plate of the outdoor unit carelessly when re-	moving the top p	olate.
The sharp edge of th	e top plate may cause injury.		
Do not install the If small animals intrue Advise the user to ke	ne outdoor unit in places where small animals made and touch the internal parts of the outdoor unit, the outdoor unit pep the place clean.	ay nest in the out it may malfunction, ge	tdoor unit. enerate smoke, or ignite.
Do not touch th	e heater unit with bare hands.		
Do not touch th			
The temperature of the	he heater unit will become high when the heater is turned on.		











14.27 <KPS067A41> Snow Hood (Intake Side Plate)





14.28 <KPS067A42> Snow Hood (Intake Rear Plate)





14.29 <KPS067A44> Snow Hood (Outlet)



Installing the snow hood (outlet)





14.30 <KPS063A41> Snow Hood (Intake Side Plate)





14.31 <KPS063A44> Snow Hood (Intake Rear Plate)





14.32 <KPS063A47> Snow Hood (Outlet)







- Warning Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any inquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced. 2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.