

# Technical Specifications

# KDIF-KOIF



Klima System Model Number+A1:G58		KOIF18H2-1S + KDIF18H2-1S	KOIF24H2-1S + KDIF24H2-1S	KOIF30H2-1S + KDIF30H2-1S	KOIF36H2-1S + KDIF36H2-1S	KOIF48H2-1S + KDIF48H2-1S	KOIF60H2-1S + KDIF60H2-1S
Indoor Unit Model Number		KDIF18H2-1S	KDIF24H2-1S	KDIF30H2-1S	KDIF36H2-1S	KDIF48H2-1S	KDIF60H2-1S
Outdoor Unit Model Number		KOIF18H2-1S	KOIF24H2-1S	KOIF30H2-1S	KOIF36H2-1S	KOIF48H2-1S	KOIF60H2-1S
Power supply	Voltage	V- Ph-Hz	208-230V /1ph /60Hz	208-230V /1ph /60Hz	208-230V /1ph /60Hz	208-230V /1ph /60Hz	208-230V /1ph /60Hz
	Voltage range	V	187-253	187-253	187-253	187-253	187-253
Cooling	Capacity (range)	Btu/h	18000 (6880-21000)	24000 (6400-27000)	30000 (10000-33600)	36000 (13000-47400)	47000 (15000-48000)
	Input	W	1450 (260-1890)	2050 (740-2450)	3080 (370-3360)	3673 (462-5700)	5731 (815-5700)
	Current	A	6.4 (1.5-8.3)	9.1 (5.3-11)	13.2 (2.9-15)	15.97 (3.53-25)	24.95 (3.54-25.3)
Heating	EER2	Btu/h/W	12.4	11.7	10	10	8.8
	SEER2	Btu/h/W	18	17.4	16.2	16	15.6
	Capacity (range)	Btu/h	19000 (2800-21000)	24000 (10100-31000)	33000 (11500-37000)	40000 (11000-57200)	50000 (11000-55000)
	Input	W	1530 (430-1920)	2100 (660-2900)	2930 (550-3250)	3448 (593-5700)	4652 (830-5700)
	Current	A	6.8 (2.5-8.5)	9.3 (4.87-12.90)	13.3 (4.0-14.6)	15 (4.34-25)	21.20 (3.60-26)
Cooling at 5° F	COP2	W/W	3.64	3.35	3.3	3.36	3.15
	HSPF2 / HSPF4	Btu/h/W	9.3	10	8.9	9.5	9.4
	HSPF5	Btu/h/W	7.6	8	7	7.8	7.7
Cooling at 109° F	Rated capacity	Btu/h	22000	31000	30000	36000	50000
	Rated capacity	Btu/h	16600	22000	29100	37600	40000
Heating at 17° F	Rated capacity	Btu/h	21000	26400	28600	47000	48000
	COP	W/W	2.21	2.14	2.1	1.9	2.05
Heating at 5° F	Rated capacity	Btu/h	16500	22600	24000	34400	46000
	COP	W/W	2.04	1.91	1.77	1.97	1.9
Heating at -4° F	Rated capacity	Btu/h	15500	20400	20500	29500	36000
	COP	W/W	1.95	1.75	1.57	1.62	1.84
Heating at -13° F	Rated capacity	Btu/h	13000	17500	15900	25500	29000
	COP	W/W	1.77	1.57	1.28	1.55	1.57
Heating at -22° F	Rated capacity	Btu/h	10500	13400	13700	21500	24500
	COP	W/W	1.53	1.41	1.16	1.26	1.37
Moisture removal	cu-ft/h	0.06	0.07	0.12	0.12	0.18	0.2
Minimum Circuit Ampacity (Indoor)	A	2.5	4	4.5	5	7.5	9
Maximum Fuse Size (Indoor)	A	15	15	15	15	15	15
Indoor fan motor	Model		ZKFD-250-8-1	ZKFD-250-8-1	ZKFD-375-8-1-1	ZKFD-375-8-1-1	ZKFD-560-8-1-1
	RLA	A	2	3	3.5	4	6
Indoor air flow (Turbo - Hi/Mi/Lo)	cfm	618/576/529/488	824/759/694/629	1088/894/806/712	1188/1082/971/865	1471/1282/1094/906	1806/1582/1359/1135
External Static Pressure (ESP) Range	in.wg	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.8
Indoor noise level (Hi/Mi/Lo)	dB(A)	34/31/30	39/36/33	42/40.5/36.5	45/43/41	50/47/43.5	51/45.5/41.5
Throttle type	/	EXV	EXV	EXV	EXV	EXV	EXV
Drain pipe size O.D.	in	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Indoor unit	Dimension(W*D*H)	in	21.02x17.52x45.00	21.02x17.52x45.00	21.02x21.02x49.02	21.02x21.02x49.02	21.02x24.49x52.99
	Packing (W*D*H)	in	26.57x20.87x48.62	26.57x20.87x48.62	26.57x24.41x52.56	26.57x24.41x52.56	26.57x24.41x52.56
	Net/Gross weight	lb	105.82/129.41	105.80/127.43	129.19/155.64	129.19/155.64	130.51/156.31
Minimum Circuit Ampacity (Outdoor)	A	16	20.5	23	41	42	
Maximum Fuse Size (Outdoor)	A	20	35	35	50	50	
Compressor	Model		KTM240D57UMT	KTM240D57UMT	KTF310D43UMT	EAPQ420D1UMUA	EAPQ420D1UMUA
	Type		Twin-ROTARY	Twin-ROTARY	ROTARY	ROTARY	ROTARY
	Capacity	W	7740	7740	10010	12900	12900
	Input	W	2085	2085	2765	3565 ±3%	3565 ±3%
	Rated current (RLA)	A	10	15	16.5	32	33
Refrigerant oil/oil charge	cu. in.	ESTER OIL VG74 / 40.9	ESTER OIL VG74 / 40.9	VG74 / 61	ESTER OIL VG74 / 89.1	ESTER OIL VG74 / 89.1	
Outdoor fan motor	Model		ZKFN-80-8-3	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22-5	ZKFN-85-8-22-5
	Qty		1	1	1	2	2
	Input	W	/	150	150	126	126
	Output	W	80.0	120	120	85	85
	RLA	A	1	1.35	1.35	1.2	1.2
	Speed	rpm	800/700/580	950/700/500/400	950/900/500	850/750/650	850/750/650
Outdoor air flow	cfm	1279	3000	3000	4500	4412	
Outdoor noise level	dB(A)	57	62	60.5	64	64	
Throttle type	/	EXV	EXV	EXV	EXV	EXV	
Outdoor unit	Dimension(W*D*H)	in	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48
	Packing (W*D*H)	in	39.17x15.67x29.13	42.91x19.69x34.84	42.91x19.69x34.84	43.11x19.49x58.27	43.11x19.49x58.27
	Net/Gross weight	lb	102.95/109.79	136.69/145.50	159.83/169.75	227.07/255.73	220.24/248.90
Refrigerant type		R410A	R410A	R410A	R410A	R410A	
Refrigerant charge	oz	81.13	102.32	134.04	165.79	169.31	
Additional charge for each ft	oz/ft	0.69	0.69	0.69	0.69	0.69	
Design pressure	psig	550/340	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/ Gas side	in	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"
	Max. refrigerant pipe length	ft	98	164	164	213	213
	Max. Elevation Difference *	ft	65	82	82	98	98
Thermostat type		Wired Control	Wired Control	Wired Control	Wired Control	Wired Control	
Room temperature	Indoor(cooling)	°F	60 ~ 90	60 ~ 90	60 ~ 90	60 ~ 90	60 ~ 90
	Indoor(heating)	°F	32 ~ 86	32 ~ 86	32 ~ 86	32 ~ 86	32 ~ 86
	Outdoor(cooling)	°F	5-122	5-122	5-122	5-122	5-122
	Outdoor(heating)	°F	-22 ~ 75	-22 ~ 75	-22 ~ 75	-22 ~ 75	-22 ~ 75
Connection wiring	AWG / Type	14AWG*2 / Stranded, shielded	14AWG*2 / Stranded, shielded	14AWG*2 / Stranded, shielded	14AWG*2 / Stranded, shielded	14AWG*2 / Stranded, shielded	
Refrigerant precharge	ft	25	25	25	25	25	

\* Condensing unit above or below Indoor Unit

