

# KOIT-KIDT Comfort Pro Series

DC Inverter - Central Ducted  
Heat Pump Systems



KIDT - Air Handler



KOIT - Condensing Units

24,000 BTU - 60,000 BTU

CENTRAL HEATING & COOLING DUCTED SPLIT SYSTEM

## About Klimaire

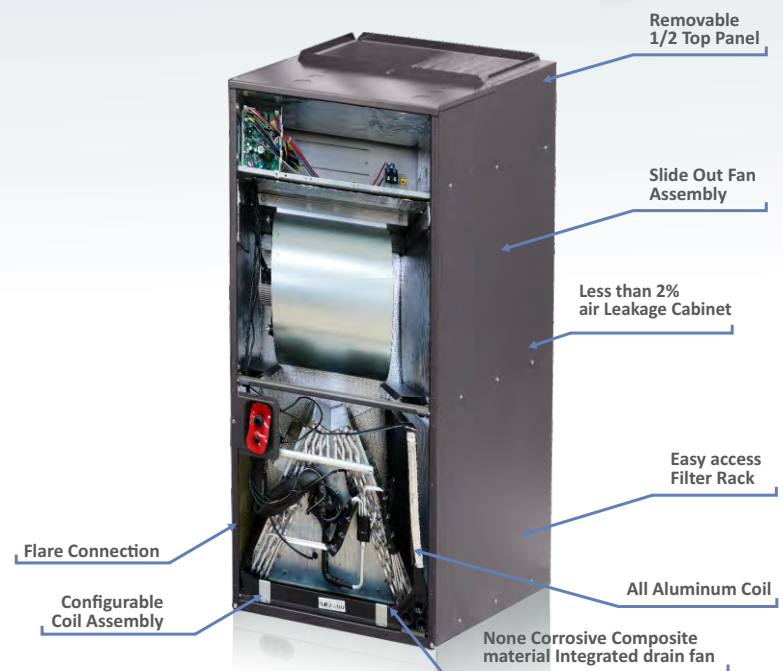
- Our Products have proven their endurance overtime, operating over 75 countries under harsh climate conditions from Canada to Sahara deserts.
- Our Goal is always exceeding industry standards for energy efficiency and employ innovative technology to achieve the highest customer satisfaction.
- The New KLIMAIRE's innovative Central Ducted system.

- We are here and ready to provide you with flexible comfort upgrade solutions like never before.
- Available in 2, 3, 4, 5 tons featuring up to 19 SEER2
- Fit core Heat Pump series offers something for everyone - an advanced yet affordable and easy-to-install system that can adapt to most of the installation conditions and changing demands; an energy-efficient system that doesn't compromise on comfort.

## STANDARD FEATURES -Indoor Unit

- Multi positional Air Handler** - Compatible with up flow, downflow and horizontal(left/right) configurations.
- High Static convenience** - Designed for manufactured and modular homes. The intelligent microprocessor continuously measures and adjusts output through the ECM motor, optimizing airflow for enhanced comfort and energy savings.
- Multi-Protection System** - Advanced safeguards including **pressure, temperature, and current protection** help protect the system and maintain stable performance in demanding weather conditions
- Smart Control** - Supports standard 24V thermostats and RS485 wired controllers, providing flexible system control and access to advanced features such as dehumidification, energy-saving modes, scheduling, and sleep settings.
- Flexible Outdoor Unit Compatibility** - Compatible with Klimaire KOIT central heat pump outdoor units and third-party outdoor systems, allowing greater installation flexibility.
- Easy Installation & Maintenance** - Designed for convenient installation and servicing, with accessible components and removable panels that simplify wiring, inspection, and routine maintenance.
- Auxiliary Heat Kits (Optional)** – Available in **5 kW, 10 kW, 15 kW, and 20 kW**, providing reliable supplemental heating to maintain comfort during colder conditions.
- All-Aluminum Evaporator Coil** - The air handler features a durable all-aluminum evaporator coil designed for flexible configuration and enhanced corrosion resistance for long-lasting performance.
- Quiet Operation** - Engineered for quiet performance with indoor sound levels as low as **57 dB(A)**.
- Easy Fault Code Check** - Fault codes are clearly displayed on the control board and can be easily checked by opening the unit lid—allowing faster diagnostics and more efficient maintenance.

- Programmable Wi-Fi Thermostat (Optional)**  
A wired LCD controller with Wi-Fi connectivity allows convenient control and customizable comfort settings for optimal heating and cooling performance.



## STANDARD FEATURES- Outdoor Unit

- **DC Inverter Performance-** High-efficiency inverter technology delivers up to **19 SEER2** and maintains strong heating output at 5°F, ensuring reliable comfort in cold climates.
- **Low Ambient Operation**
- **Heating:** Capable of delivering reliable heating in outdoor temperatures down to **-5°F**.
- **Cooling:** Provides cooling operation in outdoor temperatures as low as **5°F**.
- **Convenience:** Can be matched with a standard Air handler or A Coil with FIT PRO Heat pump Outdoor Unit with existing refrigerant lines and control wires to upgrade your system for higher efficiency
- **Golden Fin -** A durable **gold-coated condenser copper coil** provides enhanced protection against corrosion, helping the unit withstand **salty and harsh environmental conditions** for longer-lasting performance.
- **Smart Dusting Function**  
A self-cleaning feature that briefly reverses the fan rotation to help remove dust, sand, and other debris from the condenser coil, supporting improved performance and easier maintenance.
- **Quiet Operation -** Advanced design ensures sound levels as low as **67 dB(A)** for quiet and comfortable performance.



- **Included Accessories**
- Bidirectional liquid-line filter drier for field installation, ensuring long-lasting performance and reliable operation.
- Liquid-line copper adapter (brazed-to-flare) and suction-line copper adapter (brazed-to-flare) for convenient and quick installation.

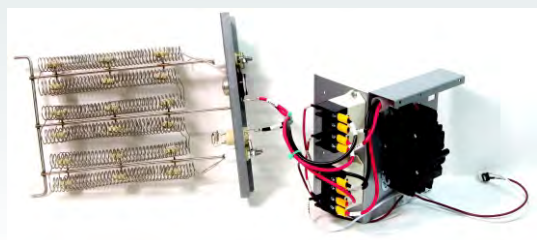


### Comfort - Wise System

KlimaPro Comfort Pro Central Ducted Systems combine advanced DC inverter technology with a compact condensing unit and a high-performance air handling unit to deliver reliable, energy-efficient comfort. Designed with both homeowners and contractors in mind, the system offers exceptional performance, quiet operation, and installation flexibility. The compact outdoor unit operates quietly and installs easily, delivering powerful, reliable comfort for larger living spaces.

# Recommended Accessories

## Auxiliary Electric Heat Kits



Optional electric heat kits are available in multiple capacities to provide supplemental heating during colder conditions. Refer to the table below for recommended heater sizes based on air handler capacity.

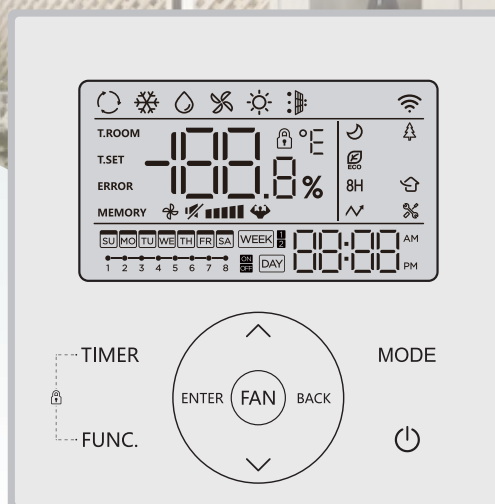
Air Handler Model Number	Capacity	KATT05KEH (5kW)	KATT10KEH (10kW)	KATT15KEH (15kW)	KATT20KEH (20kW)
KIDT24H2-41X	2 Ton (24,000 BTU/h)	✓	✓	—	—
KIDT36H2-41X	3 Ton (36,000 BTU/h)	✓	✓	✓	—
KIDT48H2-41X	4 Ton (48,000 BTU/h)	✓	✓	✓	✓
KIDT60H2-41X	5 Ton (60,000 BTU/h)	✓	✓	✓	✓

## Control Options

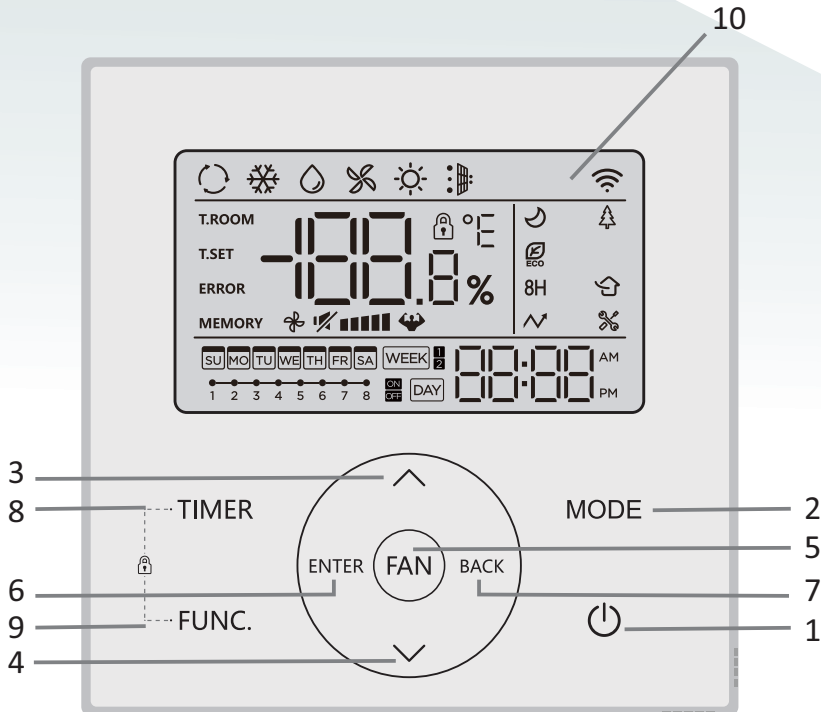
### Klimaïre – RS485 Wired Wall Controller with WiFi

The Klimaïre RS485 Wired Wall Controller with WiFi is an advanced wall-mounted controller designed for reliable system communication and convenient comfort management. Using stable RS485 communication, it allows easy control of temperature, fan speed, operating modes, and scheduling, while WiFi connectivity provides expanded control options. Advanced features such as dehumidification, energy-saving modes, sleep settings, and weekly scheduling make it ideal for both residential and light commercial applications.

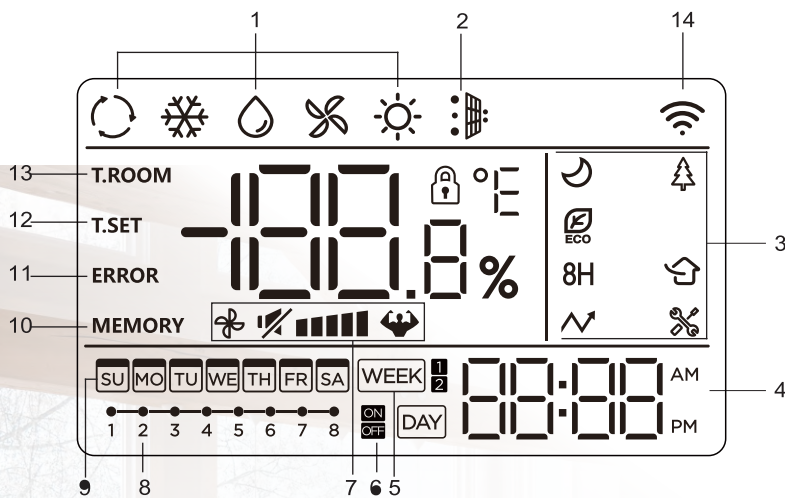
The Klimaïre Central Heat Pump System offers multiple controller options to match different installation requirements, user preferences, and budgets. Whether replacing an existing thermostat from an older system or upgrading to a more advanced control solution, several convenient control options are available.



# Model: WRS485



- 1 [ON/OFF] button
- 2 [MODE] button
- 3 [UP] button
- 4 [DOWN] button
- 5 [FAN SPEEDS] button
- 6 [ENTER] button
- 7 [BACK] button
- 8 [TIMER] button
- 9 [FUNC.] button
- 10 LCD



- 1. MODE
- 2. DUST FULL
- 3. FUNCTION
- 4. CLOCK
- 5. WEEKLY TIMER
- 6. TIMER ON/OFF
- 7. FAN SPEED
- 8. TIMER TASK
- 9. WEEK
- 10. POWER-DOWN MEMORY
- 11. ERROR
- 12. TEMPERATURE SETTING
- 13. ROOM TEMPERATURE
- 14. WIFI



Thermostat Cable with Plugs



Outdoor - Indoor RS-485 Communication Cable

## Model: WRS485



## CONTROLLER FEATURES

- LCD display for clear system status and settings
- Malfunction code display to assist with troubleshooting and service
- 4-way wire layout design with flat back for easier wiring and installation
- Room temperature display for accurate monitoring
- Weekly timer for scheduled operation
- Built-in WiFi connectivity
- WiFi Control Functions
- Operating Modes: Auto / Cool / Dry / Fan / Heat / Emergency Heat
- Fan Speeds: Mute / Low / Medium-Low / Medium / Medium-High / High / Turbo / Auto
- Temperature setting adjustment
- Timer ON/OFF
- Weekly scheduling
- 12-hour and 24-hour clock formats
- Auto-restart (available on some models)
- Child lock
- Clock display



## Nest Learning Thermostat 3rd Generation

Advanced smart thermostat that learns your schedule and automatically adjusts temperatures for enhanced comfort and energy efficiency. Wi-Fi connectivity enables convenient remote control from a smartphone, tablet, or computer.



## Pro1 T721 - 2H/1C Digital Thermostat

The T721 digital thermostat has a sleek thin design that fits in all decors. Its 4 Sq/Inch blue backlit display and large buttons make it simple and easy to use. It provides excellent temperature and humidity control for maximum comfort. Power with a battery or hardwire.

# Suggested Accessories



## Outdoor Equipment Pad

Provides a stable, level foundation for outdoor condenser units. Pad size is selected based on the unit footprint and recommended to extend approximately 1–2 inches beyond the unit base to improve stability and help reduce vibration transfer.



## PVC Decorative Line Set Cover Kit (4" - 17 ft)

Durable PVC cover system designed to conceal refrigerant lines, wiring, and drain hoses while protecting them from weather exposure for a clean, professional exterior finish.

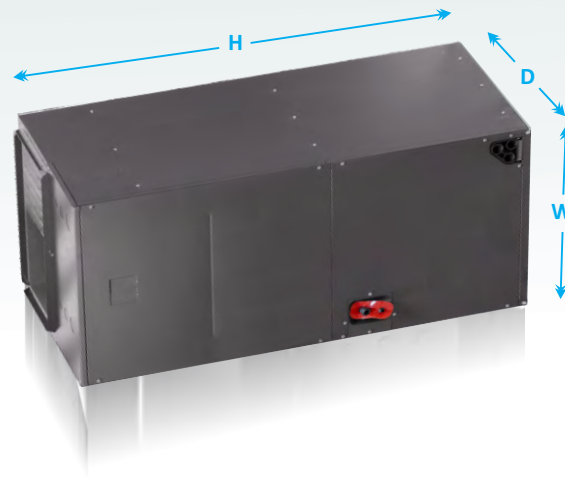


## AG3000: Surge Protector

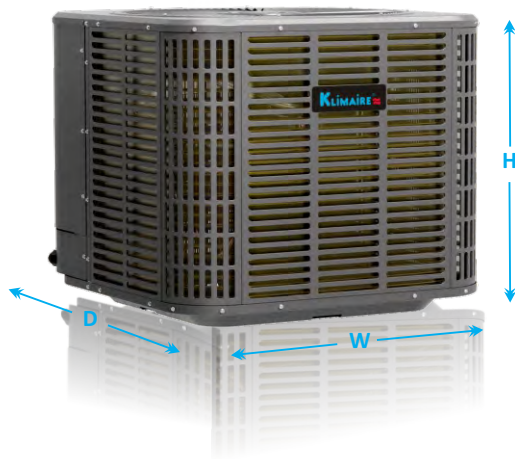
Protects HVAC equipment from damaging power surges and voltage spikes that can affect sensitive electronic components, helping safeguard outdoor condenser units and heat pump systems.

## Indoor Unit Dimensions

Model	Dimension Inches						Weight Lbs (Net / Gross)
	Height "H"	Width "W"	Dimension "D"	Air outlet "A"	Liquid Line	Suction Line	
KIDT24H2-41X KIDT36H2-41X	46-½	21	21	19-¼	⅜	¾	122 / 154
KIDT48H2-41X KIDT60H2-41X	56	24-½	21	22-¾	⅜	⅞	154 / 190



## Outdoor Unit Dimensions



Model	H (in.)	W (in.)	D (in.)	Weight (Net/Gross) (lbs)
KOIT24H2-41G	24-15/16	29-1/8	29-1/8	137 / 159
KOIT30H2-41G	24-15/16	29-1/8	29-1/8	146 / 176
KOIT36H2-41G	33-3/16	29-1/8	29-1/8	190 / 220
KOIT48H2-41G	33-3/16	29-1/8	29-1/8	190 / 220

Klimaïre System Model Number			KOIT24H2-41G + KIDT24H2-41X	KOIT36H2-41G + KIDT36H2-41X	KOIT48H2-41G + KIDT48H2-41X	KOIT60H2-41G + KIDT60H2-41X
Indoor Unit Model Number			KIDT24H2-41X	KIDT36H2-41X	KIDT48H2-41X	KIDT60H2-41X
Outdoor Unit Model Number			KOIT24H2-41G	KOIT36H2-41G	KOIT48H2-41G	KOIT60H2-41G
Power Supply	Voltage	V / ph / Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
	Voltage Range	V	187 - 253	187 - 253	187 - 253	187 - 253
Cooling	Capacity	Btu/h	24000	34000	53000	53000
	Range	Btu/h	7000-25000	8000-36000	9400-53000	9400-53000
	EER2	Btu/h.W	10	10	7.5	7.5
	SEER2	Btu/h.W	18	19	17	17
	Capacity	Btu/h	24000	36000	53000	53000
Heating	Rated heating (17° F / -8.3° C)	Btu/h	18500	25000	38000	38000
	Heating range	Btu/h	6000-25000	7000-38000	15000-56000	15000-56000
	HSPF2-4	Btu/h.W	9	9	8.2	8.2
	COP2 (47° F/8.3° C)	W/W	3.2	3.5	3.2	3.2
	Max. heating capacity (5 /-15 )	W/W	18000	26000	35000	35000
	5° F Heating	%	75%	72%	66%	66%
	COP2 (5° F / -15° C)	W/W	1.75	1.9	1.9	1.9
	Max. heating capacity (-4° F/ -20° C)	Btu/h	10000	15000	21000	21000
Dehumidification		kg/h	2.5	3.8	6.1	6.1
		oz/min	1.47	2.23	3.58	3.58
Minimum Circuit Ampacity (indoor) - MCA		A	5	5	7	7
Maximum Over Current protection (indoor) - MOC		A	15	15	15	15
Indoor noise level		dB(A)	57	58	62	62
Indoor air flow (max)		m <sup>3</sup> /h	1445	1955	2890	2890
		cfm	850	1150	1700	1700
External static pressure (max.)		Pa	0.8	0.8	0.8	0.8
		in.wc	200	200	200	200
Certifications	Energy Star		No	No	No	No
	Cold Climate		Yes	Yes	No	No
	NEEP		No	Yes	Yes	Yes
	NRCan		No	Yes	No	No
	Quebec		No	Yes	Yes	Yes
	Nova Scotia		No	Yes	Yes	Yes
Throttle type			TXV	TXV	TXV	TXV
Valve size	Liquid - Suction	in	3/8" - 3/4"	3/8" - 3/4"	3/8" - 3/4"	3/8" - 3/4"
Pipe size	Liquid - Gas	in	3/8" - 3/4"	3/8" - 3/4"	3/8" - 7/8"	3/8" - 7/8"
Lineset length	Min   Max	ft (m)	25 (7.6)   100 (30)	25 (7.6)   100 (30)	25 (7.6)   100 (30)	25 (7.6)   100 (30)
	Max. pipe elevation	ft (m)	50 (15)	50 (15)	50 (15)	50 (15)
Indoor unit	Dimensions (W x H x D)	in	21" x 46"-1/2 x 21"	21" x 46"-1/2 x 21"	24"-1/2 x 56" x 21"	24"-1/2 x 56" x 21"
		mm	533 x 1180 x 533	533 x 1180 x 533	622 x 1422 x 533	622 x 1422 x 533
	Packing (W x H x D)	in	24-1/2" x 52 x 23"	24-1/2" x 52 x 23"	28" x 62" x 24-1/2"	28" x 62" x 24-1/2"
Weight	Net / Gross	lb	122 / 154	122 / 154	154 / 190	154 / 190
		kg	55.5 / 70	55.5 / 70	70 / 86	70 / 86
Condenser fan motor		A	1.1	1.1	1.1	1.1
		hp	1/4	1/4	1/4	1/4
Compressor	RLA	A	11.6	15.8	27	27
Minimum Circuit Ampacity (outdoor) - MCA		A	16	22	35	35
Maximum Over Current protection (outdoor) - MOC		A	25	35	60	60
Max allowed pressure		psi	624	624	624	624
		MPa	4.3	4.3	4.3	4.3
Outdoor noise level		dB(A)	67	68	70	70
Refrigerant R454B	Pre-charge	oz	75.84	100.53	141.09	141.09
		g	2150	2850	4000	4000
Throttle type		Type	EEV	EEV	EEV	EEV
Valve size	Liquid - Suction	in	3/8" - 3/4"	3/8" - 3/4"	3/8" - 3/4"	3/8" - 3/4"
Pipe size	Liquid - Gas	in	3/8" - 3/4"	3/8" - 3/4"	3/8" - 7/8"	3/8" - 7/8"
Pre-Charged Standard line length		m / ft	7.5 / 25	7.5 / 25	7.5 / 25	7.5 / 25
Additional Charge		oz/ft	0.54	0.54	0.54	0.54
Lineset length	Min   Max	ft (m)	25 (7.5)   100 (30)	25 (7.5)   100 (30)	25 (7.5)   100 (30)	25 (7.5)   100 (30)
	Max. pipe elevation	ft (m)	50 (15)	50 (15)	50 (15)	50 (15)
Ambient temperature	Cooling	°F	5 - 125	5 - 125	5 - 125	5 - 125
		°C	-15 - 52	-15 - 52	-15 - 52	-15 - 52
	Heating	°F	-5 - 80	-5 - 80	-5 - 80	-5 - 80
		°C	-20 - 27	-20 - 27	-20 - 27	-20 - 27
Outdoor unit	Dimensions (W x H x D)	in	29"-1/8 x 24"-15/16 x 29"-1/8	29"-1/8 x 24"-15/16 x 29"-1/8	29"-1/8 x 33"-3/16 x 29"-1/8	29"-1/8 x 33"-3/16 x 29"-1/8
		mm	767 x 794 x 767	767 x 794 x 767	767 x 1003 x 767	767 x 1003 x 767
	Packing (W x H x D)	in	30"-1/4 x 31"-1/4 x 30"-1/4	30"-1/4 x 31"-1/4 x 30"-1/4	30"-1/4 x 39"-1/2 x 30"-1/4	30"-1/4 x 39"-1/2 x 30"-1/4
		mm	767 x 794 x 767	767 x 794 x 767	767 x 1003 x 767	767 x 1003 x 767



Scan the QR code to visit our Help Center for installation guides, manuals, videos and more.



Eco Friendly

24,000 BTU - 60,000 BTU



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Klimaair Products Inc.  
7999NW 81 Place - Miami, FL 33166 - USA  
Tel: (305)593-8358 - Fax (305) 675-2212  
[www.klimaair.com](http://www.klimaair.com) - [sales@klimaair.com](mailto:sales@klimaair.com)

