

DC Inverter - Central Ducted System



KIDF - Air Handler



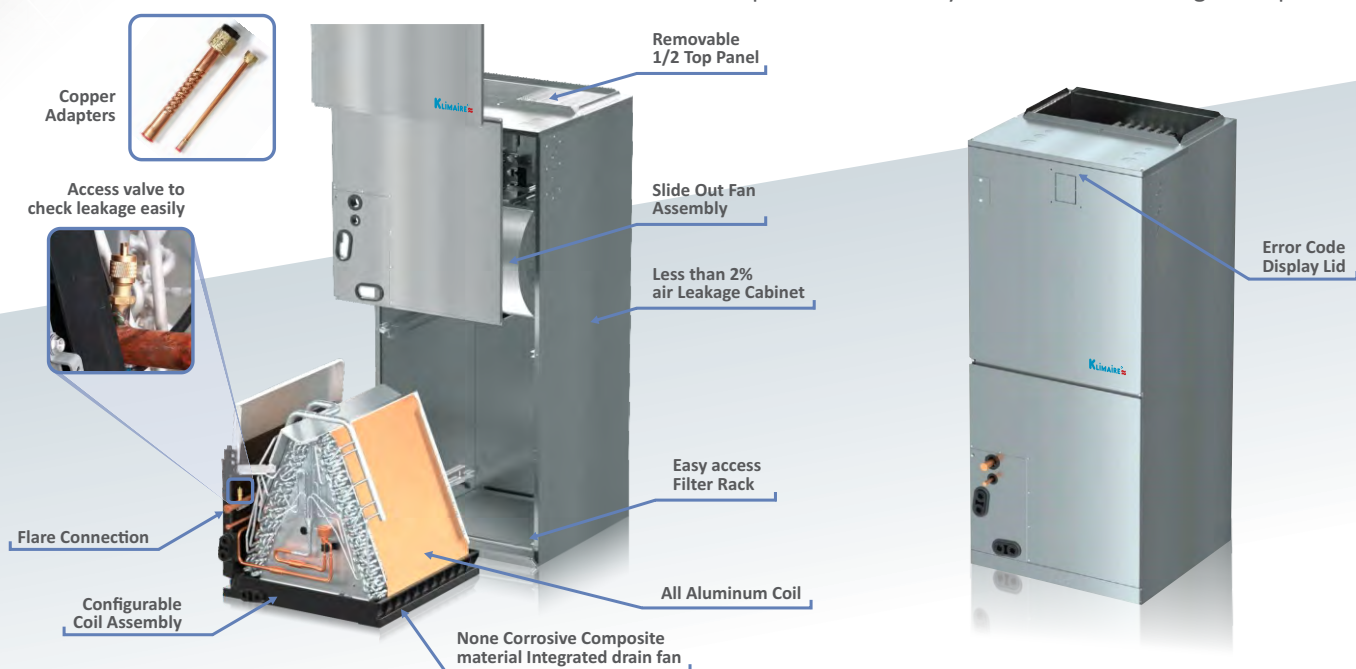
KIDF - Condensing Units

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 1.5, 2, 2.5, 3, 4, 5 tons featuring up to 18 SEER.
- FIT PRO Hyper Heat pump series offers something for everyone- an advanced yet affordable system; an 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** -Suitable for manufactured and modular homes. The microprocessor automatically measures and adjusts the output power with its ECM motor to optimize the airflow for Energy savings.
- Programable Wi-Fi thermostat included**- A wired LCD controller with Wi-Fi connectivity with variety of comfort options and features enables customized settings for the best heating and cooling comfort for the climate you live in.
- Auxiliary Heat Kts (Optional)**-available in 5Kw, 10Kw, 15Kw,20Kw can be added to the Air handler.
- Easy fault code check:** Installer or User can easily check the fault code displayed on the electric board by just opening the lid. This function greatly improves the maintenance work efficiency.
- Easy To wire:** 2 easily accessible integrated Control boards with simple wiring. Main control board and a function board for 24V heat pump thermostat with dip switches and error codes display for diagnostics.
- Aluminum Coil:** Fewer corrosion points than copper/aluminum coils
- Easy Maintenance:** Variety of panels can be easily removed to access to parts. A removable top cover after duct work is installed allows convenient access to heater and E-box. Factory installed access valve ensures to check leakage in the evaporator coil.
- Whisper Quite operation:** Inverter system running at significantly lower dba level.
- UV light & Humidifier:** Easy installation with dedicated wiring port
- Easy and Quick Installation:** Factory provided Braze to Flare Adopter kit allows easy access when soldering is not possible.



STANDARD FEATURES- Outdoor Unit

- **DC Inverter Hyper heat convenience**- Efficiency up to 18 SEER 2 up to 100% heating output at 5°F.
- **Low ambient operation** - This Hyper heat models are capable to produce heating effectively at -22°F ambient conditions.
- **Reduced Replacement Cost**- Existing refrigerant lines can be used when updating your system. Flexible throttle solution enables us to utilize the existing refrigerant lines.
Existing 24-volt Control wiring between indoor and outdoor units can also be used to have full inverter communication functions. The advanced microprocessor 485 enables data communication between the existing wire sets. It only requires 2 wires.
- **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.
- **Quiet operation:** Sound levels as low as 56 dba.
- **Base Pan Heater:** Factory Installed base-pan heater in outdoor unit prevents ice accumulation for Low ambient operations to improve heat transfer.
- **Crankcase Heater:** Factory installed crankcase heater enables compressor runs at low ambient operations smoothly.
- **Gold -Fin:** Gold coating on condenser copper coil helps to fight against corrosion in salty and harsh environments.
- **Side Discharge & Slim Design:** Less effected by rain or snow for longer life span. A minimal footprint and a low-profile than a regular condensing unit. Ideal option for zero lot lines or limited outdoor space as well as easy transportation.
- **Smart Dusting Function:** Self cleaning switch reverses the fan rotation to clean dust ,sand and other debris from the coil.



3 - 5 Ton

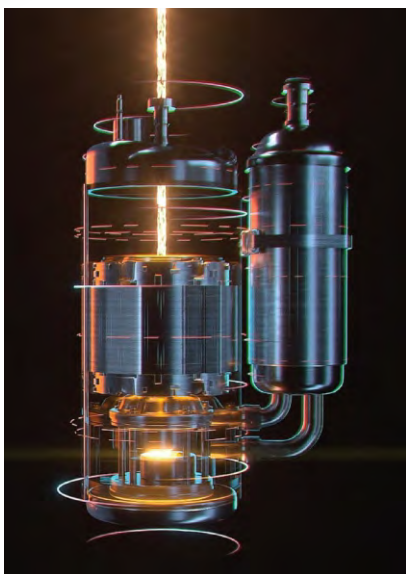


1.5 - 2.5 Ton



Comfort-Wise System

Klimaite Fit Pro Central Ducted systems are DC Inverter Side-discharge small footprint Condensing Unit and an Air Handling Unit. This product offers and takes customer and contractor concerns into account. Our quite operating compact outdoor unit can be installed on a wall bracket, under a deck or on a balcony ,or even stacked to provide comfort for larger living spaces.



Fast Response time achievement-boosted compressor speed of inverter systems allows for quicker, smoother, and more efficient heating and cooling.

Inverter Control Technology -The DC inverter Smart control enables an efficient mutual data communication between the IDU and ODU, adjusts output capacity according to indoor temperature and pressure. Helps to as well as significantly enhance the unit performance.

Temperature Control- Instead of cycle on/off, the inverter-driven system can self-adjust, avoiding indoor temperature fluctuation and maintain consistent room temperature and humidity control.

Product that offers- LCD wired Wi-Fi Smart controller included with many features, easy Installation, self-diagnostic capability and easy maintenance. Self-cleaning outdoor condenser coil feature.

Reduced Replacement Cost-Utilizing existing refrigerant lines and control wires.

Optimization of Maximum Comfort & Minimum Cost-By adjusting compressor capacity according to real-need, modular inverter systems delivering the optimal amount of hot or cool air needed to achieve the desired help to avoid unnecessary energy waste and save your money.



In the situation where your customer wants to install just the FIT PRO heat pump unit and match it to the existing equipment, (even non-communicating) the system can still function effectively as a communicating inverter combination so that they can enjoy the superior comfort and energy efficiency of inverter technology. The upgrade can conveniently be accomplished without changing the control wires or refrigerant lines.





Winter



Summer

All-Year Solution

Experience true DC inverter performance in any weather conditions both for heating and cooling for optimized comfort throughout your whole home. This highly adaptable energy efficient system can easily be retrofitted with existing connections providing an enhanced efficiency upgrade.

Computational constant air flow of indoor unit ensures fewer temperature swings and precise temperature control by delivering the right amount of air flow to reduce energy waste.

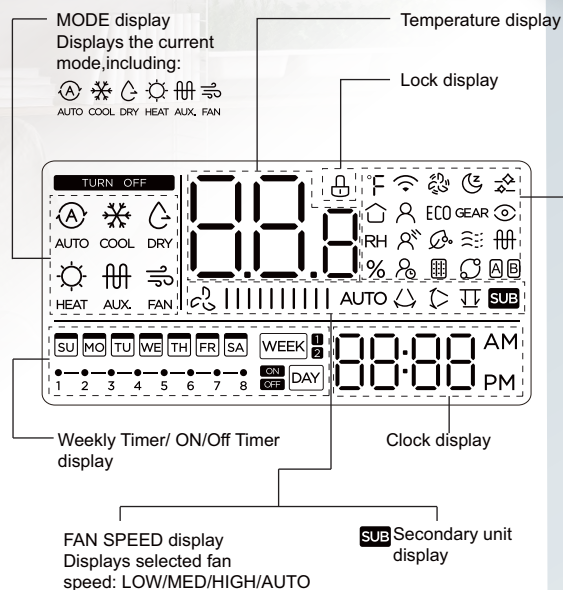
Nomenclature

| K | I | D | F | 18 | H | 2 | - | 1 | S |
|------------|-------------------------|----------------------------------|--------|----------------------------------|-----------------|---|---|------------|----------------------|
| Brand | Component | Unit Type | Family | Capacity (kBtu/h) | System | Voltage | | Generation | Minor Design Feature |
| K: Klimate | I: Indoor O: Outdoor | D: Ducted I: Outdoor Inverter | | 18 24 30 36 48 60 | H: Heat Pump | 1: 115V / 1ph / 60Hz 2: 208-230 / 1ph / 60Hz | | | |

Wired Remote Control

Model Number : KJR-120N(X6)/BGEF
KJR-120N(X6W)/BGEF

- 1 FAN SPEED button
- 2 MODE button
- 3 FUNC. button
- 4 SWING button
- 5 ADJUST button
- 6 TIMER button
- 7 COPY button
- 8 POWER button
- 9 CONFIRM button
- 10 BACK button
- 11 DAY OFF/DELAY button
- 12 CHILD LOCK button



- °F °C / °F display
- Room temperature display
- RH Relative humidity display
- Wireless control feature display
- Follow me feature display
- Breeze away display
- Delay off display
- Turbo feature display
- ECO ECO feature display
- Purify feature display
- Filter reminder display
- SLEEP feature display
- GEAR GEAR feature display
- Breezeless display
- Rotation display
- Active clean display
- Intelligent eye display
- Electric heating display
- Main unit and secondary unit display

Features:

- WiFi Connectivity for remote controller.
- LCD display.
- Malfunction code display
- Auto restart
- Weekly Timer (12hr / 24hr System)
- Follow me
- Room temperature display
- Relative Humidity Display
- Dual and Group Control

Function:

- Mode: Choose Auto-Cool-Dry- Heat -Fan
- Fan speed: Auto/Low/Med/High speed
- Auto-restart
- Rotation&Back-up
- Dual Control
- Group Control
- Child Lock
- LCD display
- Clock



Wireless Remote Control

Model Number : RG10A9(D2S)/BGEFU1

ON/OFF
Turns the unit on or off.

TEMP ^
Increases temperature in 1°C (1°F) increments. Max. temperature is 30°C (86°F).
NOTE: Press together ∨ & ^ buttons at the same time for 3 seconds will alternate the temperature display between the °C & °F.

SET
Scrolls through operation functions as follows:
Fresh(🍃) → Sleep(🌙) → Follow Me(👤) → AP mode(📶) → Fresh...
The selected symbol will flash on the display area, press the OK button to confirm.

TEMP ∨
Decreases temperature in 1°C(1°F) increments. Min. temperature is 16°C(60°F).

FAN SPEED
Selects fan speeds in the following order: AU → 20% → 40% → 60% → 80% → 100%.
Press the TEMP ^ or ∨ button to increase/decrease the fan speed in 1% increments.

SWING
Starts and stops the horizontal louver movement. Hold down for 2 seconds to initiate vertical louver auto swing feature.

MODE
Scrolls through operation modes as follows: **AUTO** → **COOL** → **DRY** → **HEAT** → **FAN**

NOTE: HEAT mode is not supported by the cooling only appliance.

ECO/GEAR
Press this button to enter the energy efficient mode in a sequence of following:
ECO → GEAR(75%) → GEAR(50%) → Previous setting mode → ECO

OK
Used to confirm the selected functions

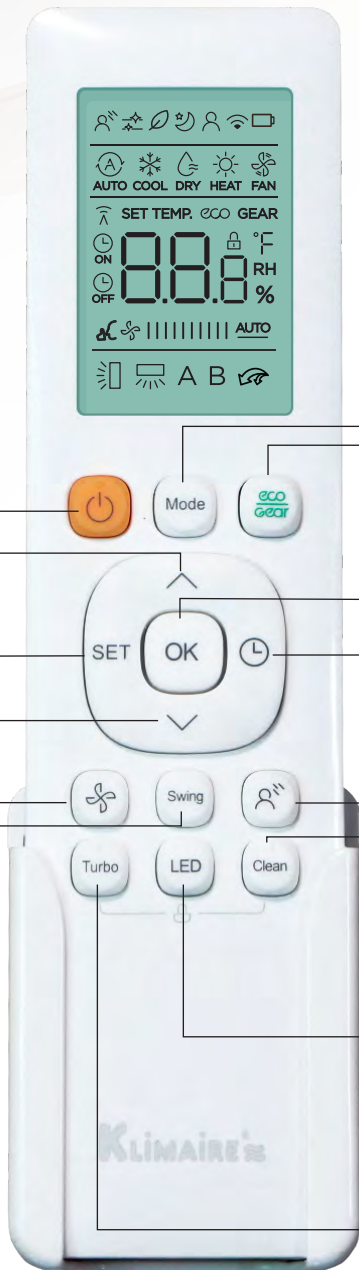
TIMER
Set timer to turn unit on or off

BREEZE AWAY
This feature avoids direct air flow blowing on the body and makes you feel indulging in silky coolness.
NOTE: This feature is available under cool, Fan and Dry mode only

CLEAN
Used to start/stop the Self Clean or Active Clean function. (Model dependent, please refer to the USER'S OPERATION & INSTALLATION MANUAL).

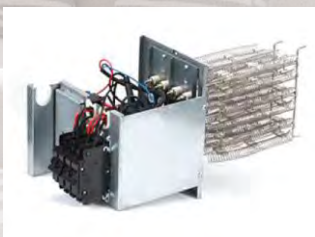
LED
Turns indoor unit's LED display and air conditioner buzzer on and off (model dependent), which create a comfortable and quiet environment.

Turbo
Enables unit to reach preset temperature in shortest possible time



Remote Control Holder

Optional Accessories



Recommended Heater Sizes

| Model Number | Capacity - BTUH | 5kW | 8kW | 10kW | 15kW | 20kW | 25kW |
|--------------|-----------------|-----|-----|------|------|------|------|
| KIDF18H2-1S | 18.000 | Y | Y | Y | — | — | — |
| KIDF24H2-1S | 24.000 | Y | Y | Y | Y | — | — |
| KIDF30H2-1S | 30.000 | Y | Y | Y | Y | — | — |
| KIDF36H2-1S | 36.000 | Y | Y | Y | Y | Y | — |
| KIDF48H2-1S | 48.000 | — | — | Y | Y | Y | Y |
| KIDF60H2-1S | 60.000 | — | — | Y | Y | Y | Y |

Maxwell Universal Wall Mount Bracket for Ductless Air Conditioner Outdoor Unit



Heavy-duty wall mount bracket set includes all anchoring accessories to mount an outdoor air conditioner unit to an exterior wall. Universal design fits all brand split system air conditioner outdoor condensing units and split system air conditioner heat pump outdoor units. Maximum capacity of 330 pounds/ 150 kilograms. Armor plate construction.



Pro1 T721 2-Stage Heat and 1 Stage Cool Digital LCD 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.



Nest Learning Thermostat 3rd Generation

- Programs itself to your schedule within a week.
- Connects to WI-Fi and controlled from any smart phone, tablet or laptop.



AG3000: Surge Protector

A single power spike can cause a homeowner tens of thousands of dollars on damages within a split second. The easy-to-install AG3000 surge protective device provides protection for your air handler, furnace, central air conditioner, mini-split, hydronic heating, and heat pump.



Indoor Unit Dimensions Vertical configuration

| MODEL NUMBER | CAPACITY | W (in) | D (in) | H (in) |
|--------------|-------------|--------|--------|--------|
| KIDF18H2-1S | 1.5ton /18K | 21 | 17.5 | 45 |
| KIDF24H2-1S | 2ton/24K | 21 | 17.5 | 45 |
| KIDF30H2-1S | 2.5ton/30K | 21 | 21 | 49 |
| KIDF36H2-1S | 3ton/36K | 21 | 21 | 49 |
| KIDF48H2-1S | 4ton/48K | 21 | 21 | 49 |
| KIDF60H2-1S | 5ton/60K | 21 | 24 | 53 |

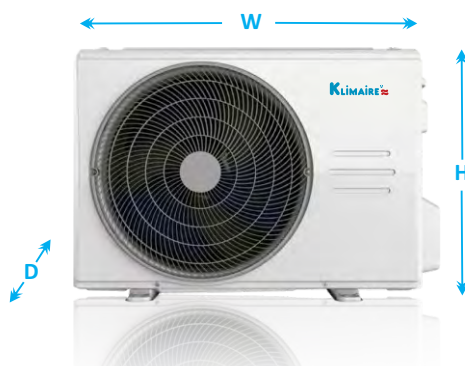
Indoor Unit Dimensions Horizontal configuration

| MODEL NUMBER | CAPACITY | W (in) | H (in) | L (in) |
|--------------|-------------|--------|--------|--------|
| KIDF18H2-1S | 1.5ton /18K | 17.5 | 21 | 45 |
| KIDF24H2-1S | 2ton/24K | 17.5 | 21 | 45 |
| KIDF30H2-1S | 2.5ton/30K | 21 | 21 | 49 |
| KIDF36H2-1S | 3ton/36K | 21 | 21 | 49 |
| KIDF48H2-1S | 4ton/48K | 21 | 21 | 49 |
| KIDF60H2-1S | 5ton/60K | 21 | 24 | 53 |



Outdoor Unit Dimensions

| MODEL NUMBER | CAPACITY | W (in) | D (in) | H (in) |
|--------------|-------------|--------|--------|--------|
| KOIF18H2-1S | 1.5ton /18K | 35 | 13.5 | 26.5 |
| KOIF24H2-1S | 2ton/24K | 37 | 16 | 32 |
| KOIF30H2-1S | 2.5ton/30K | 37 | 16 | 32 |
| KOIF36H2-1S | 3ton/36K | 37 | 16.5 | 52.5 |
| KOIF48H2-1S | 4ton/48K | 37 | 16.5 | 52.5 |
| KOIF60H2-1S | 5ton/60K | 37 | 15.5 | 52.5 |



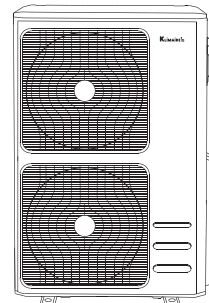
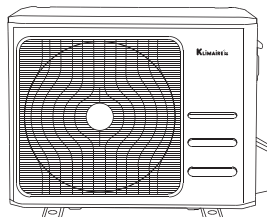
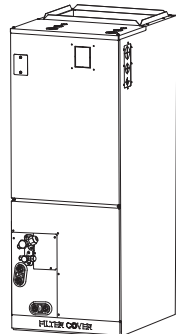
Technical Specifications

KIDF-KOIF



| Klima System Model Number+A1:G58 | | KOIF18H2-1S + KIDF18H2-1S | KOIF24H2-1S + KIDF24H2-1S | KOIF30H2-1S + KIDF30H2-1S | KOIF36H2-1S + KIDF36H2-1S | KOIF48H2-1S + KIDF48H2-1S | KOIF60H2-1S + KIDF60H2-1S |
|--------------------------------------|------------------------------|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------------------|
| Indoor Unit Model Number | | KIDF18H2-1S | KIDF24H2-1S | KIDF30H2-1S | KIDF36H2-1S | KIDF48H2-1S | KIDF60H2-1S |
| 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 | 15.3 |
| | 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 |
| | Rated capacity | Btu/h | 22000 | 31000 | 30000 | 36000 | 50000 |
| | Rated capacity | Btu/h | 16600 | 22000 | 29100 | 37600 | 40000 |
| Cooling at 109° 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 17° 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 5° 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 -4° 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 -13° F | Rated capacity | Btu/h | 10500 | 13400 | 13700 | 21500 | 24500 |
| | COP | W/W | 1.53 | 1.41 | 1.16 | 1.26 | 1.37 |
| 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 | 0.2 |
| 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 |
| External Static Pressure (ESP) Range | in.wg | | 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 |
| Throttle type | / | | EXV | EXV | EXV | EXV | EXV |
| Drain pipe size O.D. | in | | 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 | |
| Outdoor air flow | cfm | | 1279 | 3000 | 3000 | 4500 | |
| Outdoor noise level | dB(A) | | 57 | 62 | 60.5 | 64 | |
| Throttle type | / | | 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 | |
| Refrigerant charge | oz | | 81.13 | 102.32 | 134.04 | 165.79 | |
| Additional charge for each ft | oz/ft | | 0.69 | 0.69 | 0.69 | 0.69 | |
| Design pressure | psig | | 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 | |
| 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 | |
| Refrigerant precharge | ft | | 25 | 25 | 25 | 25 | |

* Condensing unit above or below Indoor Unit





Eco Friendly



Note: The data in this brochure may be changed without notice for further improvement on quality and performance

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