



## DC Inverter - Central Ducted System

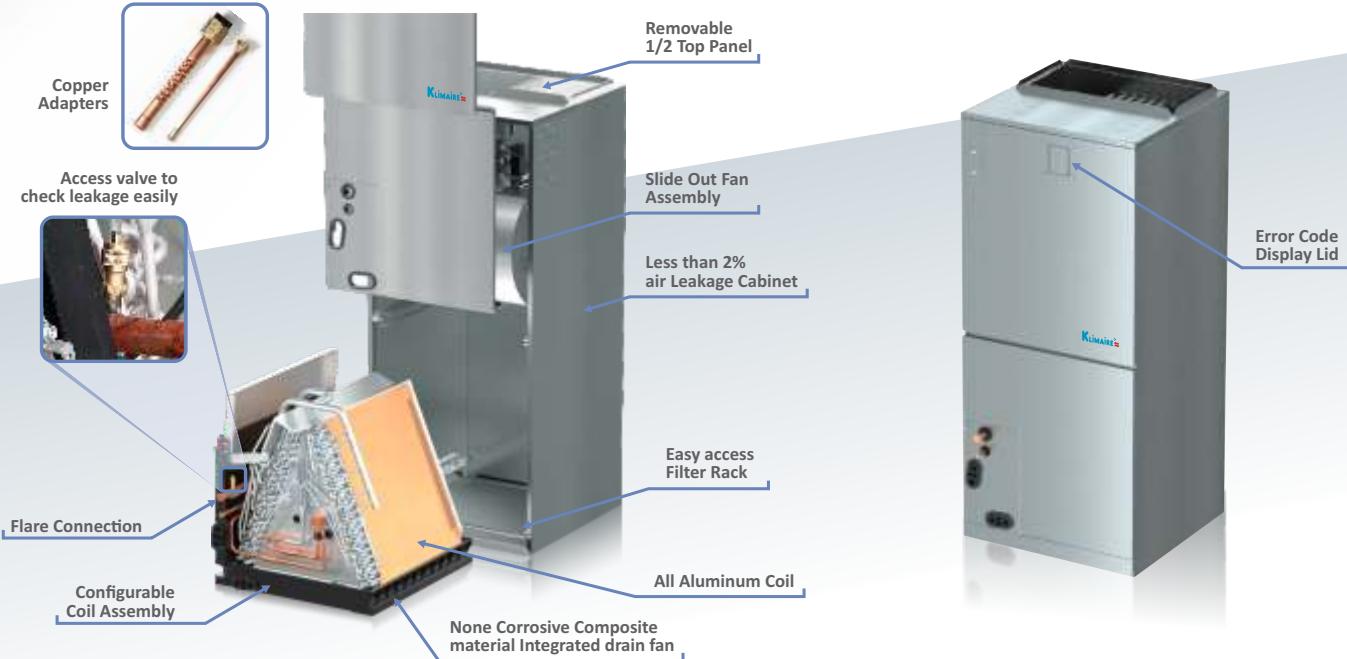


# About Klimaire

- 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 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.
- **Darin 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

Klimaire 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.



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.

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

**I**nverter 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.

**T**emperature 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.

**P**roduct 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.

**R**educed Replacement Cost-Utilizing existing refrigerant lines and control wires.

**O**ptimization 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.





## 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.

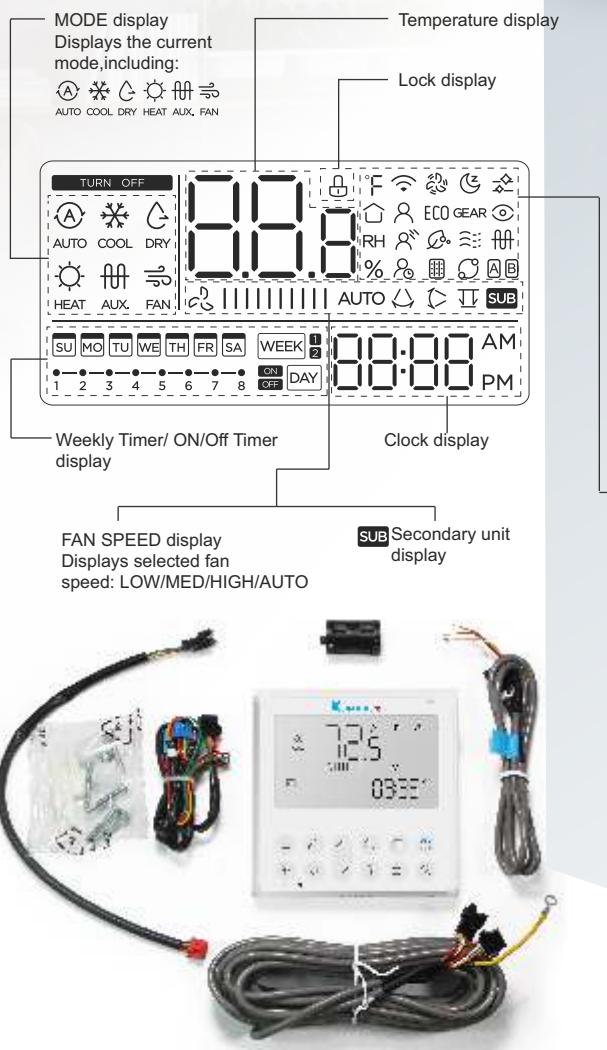
### Nomenclature

K	I	D	F	18	H	2	-	1	S
Brand	Component	Unit Type	Family	Capacity (kBtu/h)	System	Voltage		Generation	Minor Design Feature
K: Klimaire	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
- ffff 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  $\swarrow$  &  $\nwarrow$  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(ParallelGroup) →  
AP mode( WiFi) → 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  $\wedge$  or  $\vee$  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.

**NTOE:** 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 T701 1-Stage Heat and Cool Digital LCD Thermostat

The T701 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.



### 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)
KODF18H2-1S	1.5ton /18K	35	13.5	26.5
KODF24H2-1S	2ton/24K	37	16	32
KODF30H2-1S	2.5ton/30K	37	16	32
KODF36H2-1S	3ton/36K	37	16.5	52.5
KODF48H2-1S	4ton/48K	37	16.5	52.5
KODF60H2-1S	5ton/60K	37	15.5	52.5



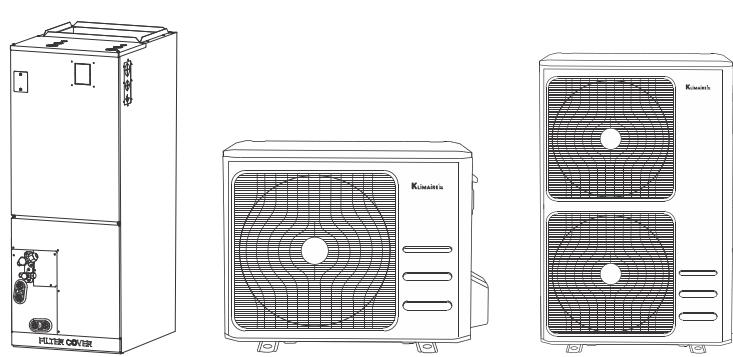
# Technical Specifications

## KDIF-KOIF



Klimaire 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				
	Voltage range	V	187-253	187-253	187-253	187-253	187-253
	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)	3060 (370-3360)	3673 (462-5700)	5731 (815-5700)
Cooling	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)
	EER2	Btu/h/W	12.4	11.7	10	10	8.2
	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)
Heating	Input	W	1530 (430-1920)	2100 (660-2900)	2930 (550-3260)	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)
	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	7.6
Cooling at 5° F	Rated capacity	Btu/h	22000	31000	30000	36000	50000
Cooling at 10° F	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	ZKFD-750-8-1-1
	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	42/40/35/36	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	21.02x21.02x49.02
	Packing (W*D*H)	in	26.57x20.87x48.62	26.57x20.87x48.62	26.57x24.41x52.56	26.57x24.41x52.56	27.95x26.77x56.50
	Net/Gross weight	lb	105.82/129.41	105.60/127.43	129.19/155.64	130.51/156.31	162.70/192.90
Minimum Circuit Ampacity (Outdoor)	A	16	20.5	23	41	42	42
Maximum Fuse Size (Outdoor)	A	20	35	35	50	50	60
Compressor	Model	KTM240D57UMT	KTM240D57UMT	KTF310D43UMT	EAP0420D1UMUA	EAP0420D1UMUA	EAP0440D1UMUA
	Type	Twin-ROTARY	Twin-ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Capacity	W	7740	7740	10010	12900	13580
	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-80-3	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22-5	ZKFN-85-8-22-5	ZKFN-85-8-22-5
	Qty	1	1	1	2	2	2
	Input	W	/	150	150	126	126
	Output	W	80.0	120	85	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	4500
Outdoor noise level	dB(A)	57	62	60.5	64	64	63.5
Throttle type	/	EXV	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	R410A
Refrigerant charge	oz	81.13	102.32	134.04	165.79	169.31	169.31
Additional charge for each ft	oz/ft	0.69	0.69	0.69	0.69	0.69	0.69
Design pressure	psig	550/340	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" / 7/8"
	Max. refrigerant pipe length	ft	98	164	164	213	213
	Max. Elevation Difference *	ft	65	82	82	98	98
Thermostat type			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				
Refrigerant precharge	ft	25	25	25	25	25	25

\* Condensing unit above or below Indoor Unit



Mark of Superior Quality

Klimaire®



# KDIF-KOIF

**FITPRO**  
SERIES



  
Eco Friendly



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