

DX-LINE mini



High Efficiency DC Inverter Compressor

> Twin-rotary DC inverter compressor (for 8-26kw model)/Hermetic scroll inverter compressor (for 28-33.5kw model)

- Use high efficiency and reliability compressor
- Has very good efficiency in part load condition

> **High Efficiency, Low Noise:**

- Optimized the efficiency and noise during operation with the latest technology.

> **Environmental Protection:**

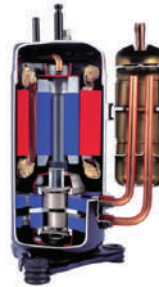
- Developed the compressor with alternative refrigerant which can protect environment.

> **Low Vibration:**

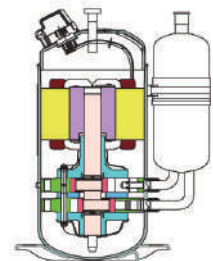
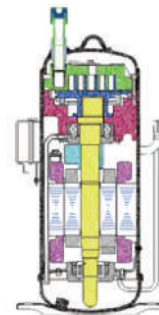
- Reduced the vibration during compressor start and operation by using 2CYL Structure, simplified the match of air-conditioning.



SCROLL INVERTER
COMPRESSOR



TWIN-ROTARY
INVERTER
COMPRESSOR



High efficiency

High reliability

Low vibration

Low noise

Long life

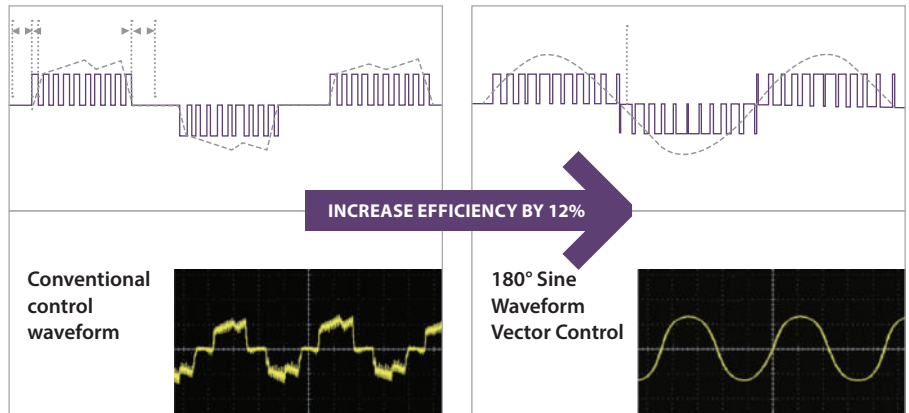
High Efficiency DC Motor

- > High efficiency DC fan motor
- > Low noise and high efficiency because of high-density wire winding engineering
- > Brushless with built-in sensor



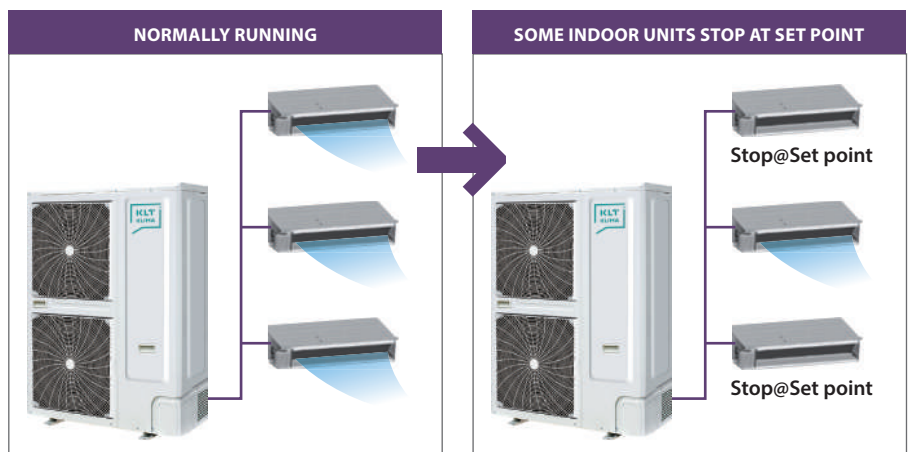
180° Sine Wave Control

The perfect combination of 180° Sine wave rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.



Fast Cooling And Heating

Every rooms meet set point most quickly and comfortably by optimized refrigerant control.



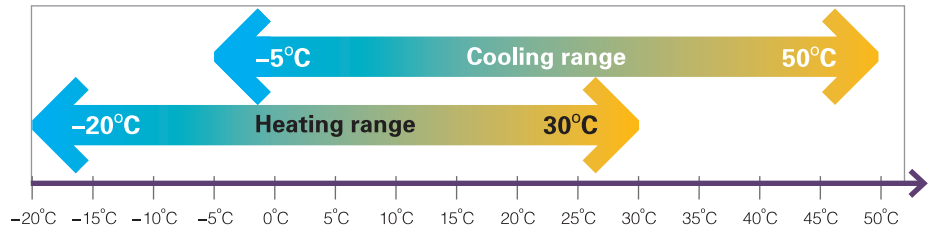
Silent Technology

- BRUSHLESS DC MOTOR**
Adopting permanent magnet rotor, low vibration and low noise.
- FORWARD-CURVE FAN BLADE**
Unique design to increase air flow, reducing the return air resistance, reducing vibration.
- PIPELINE SILENCER**
To reduce the refrigerant flow noise.
- OPTIMIZED DESIGN BY CFD**
To reduce refrigerant flow resistance and vibration.

Wide Outdoor Operation Range

> Because global warming is getting worse, Max. cooling operating temperature is increased to 50°C.

> Heating operating temperature is down to -20°C. In the cold winter, system can heat the room continuously.



Outdoor unit running at temperature above 50°C need customized in factory, please consult to sales engineer.

Intelligent Defrosting Program

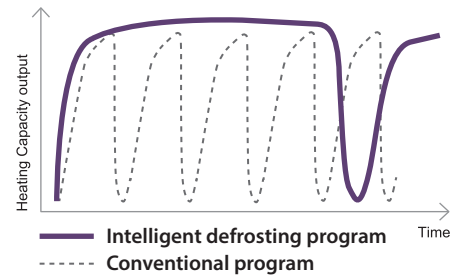
Program starts only when unit needs to.

Whereas conventional unit's defrosting timing & duration is fixed, causing fluctuations in temperature and personal comfort.

> Conventional unit's defrosting timing & duration is fixed

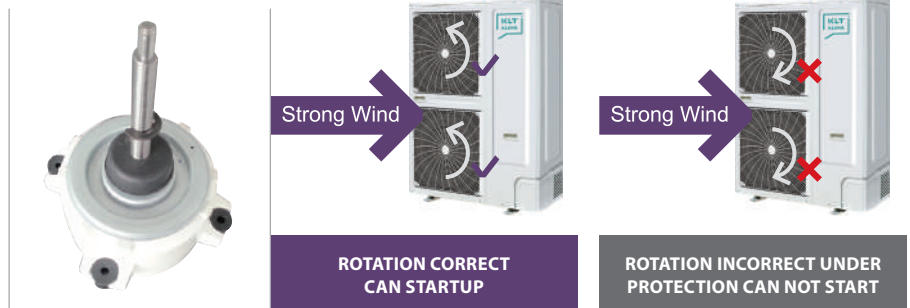
> Intelligent defrosting program starts according to heat exchanging efficiency & capacity change due to the frost. Less temperature fluctuations, people feel more comfortable

Defrost Curve



Fan Reversal Protection

In standby, if the outdoor fan motor is rotating in opposite direction at a high speed by the wind or other natural factors, the unit can't start so as to keep the fan motor from broken down. It will start when the fan motor speed slow down.

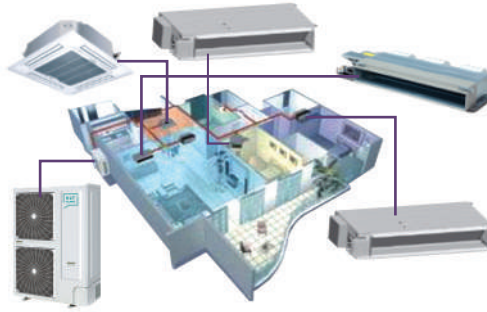


DX-LINE Mini Specification

MODEL NAME	POWER TYPE	COOLING					HEATING				
		Capacity		Power input	Current	EER	Capacity		Power input	Current	COP
		kW	Btu/h	kW	A	kW	Btu/h	kW	A		
KK-OH-080B-1	220-240V-1ph-50Hz	8	27300	2.15	5.70	3.72	9	30700	2.28	6.04	3.95
KK-OH-100B-1	220-240V-1ph-50Hz	10	34000	2.68	7.10	3.70	11.5	39000	2.90	7.69	3.93
KK-OH-125B-1	220-240V-1ph-50Hz	12.5	42000	3.38	8.96	3.69	14	47000	3.65	9.68	3.83
KK-OH-140B-1	220-240V-1ph-50Hz	14	47000	3.96	10.5	3.52	16	54000	4.3	11.4	3.72
KK-OH-160B-1	220-240V-1ph-50Hz	16	54000	4.57	12.11	3.50	18	61000	5.13	13.60	3.61
KK-OH-180B-3	380-415V-3ph-50Hz	18	61000	5.19	8.05	3.47	20	63000	5.62	8.71	3.56
KK-OH-224B-3	380-415V-3ph-50Hz	22.4	76500	6.74	10.5	3.32	25	85300	5.85	9.9	4.27
KK-OH-260B-3	380-415V-3ph-50Hz	26	88700	7.54	12.1	3.45	28.5	97300	6.77	11.1	4.21
KK-OH-280B-3	380-415V-3ph-50Hz	28	95500	8.32	13.6	3.37	30.5	104000	7.93	12.9	3.85
KK-OH-335B-3	380-415V-3ph-50Hz	33.5	114200	9.45	14.9	3.54	37.5	127900	9	14.2	4.17

Space Saving Installation

> Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible. Compare to one-drive-one type, the outdoor unit can be installed in various places to realize the **space-saving installation**.



Active PFC Module

- > PFC: Power Factor Corrector
- > There will be a power loss because of the different phases between the voltage and current.
- > With the PFC module, the power utilization rate is higher, power factor can be up to 98%. System will be more efficiency.

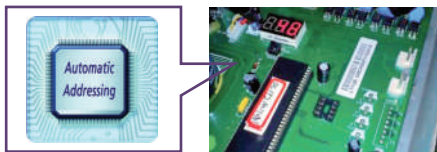
- > Power factor refers to the relationship between effective power and total power consumption, power factor is effective power divided by total power consumption.
- > Power factor can measure power utilization rate, the power factor bigger, the higher power utilization rate



Active pfs module board

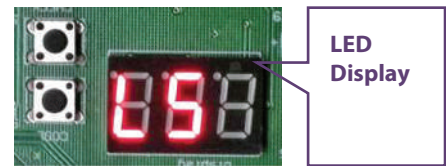
Automatically Addressing

- > Automatically addressing: system will distribute address to indoor unit automatically
- > Automatic addressing will reduce artificial faults and manual works.



LED Display On PCB

- > LED display on the PCB, it can show system's operation status and error codes.



COMPRESSOR		MOTOR		REFRIGERANT		Sound Pressure Level	Sound power Level	DIMENSION(WXHXD)		WEIGHT		CONNECTING		Max. Connected indoor units quantity					
Type	Quantity	Type	Quantity	Type	Volume			Packing	Body	Net	Gross	Gas	Liquid						
					kg	dB(A)	dB(A)	mm	mm	kg	kg	mm	mm						
DC/ Twinrotary	1	DC/fan motor	2	R410a	3	45~56	52~63	1145x1120x475	1054x994x399	80	92			4					
					3					80	92				5				
					3.1	45~58	52~65	964x1445x402	900x1328x400	89	100	ø15.9	ø9.53	6					
					3.45					89	100			7					
					4.2					96	107			8					
					DC/Scroll					4.2	45~58	52~65			100	111	ø19.1	ø9.53	9
										6.1					145	165			10
6.1	46~60	55~66	1278x1696x560	1120x1549x400						145	165	ø22.2	ø9.53	12					
8	47~60	56~66								176	196			15					
					8	48~62	57~68			176	196	ø25.4	ø12.7	18					

Notes:

- The cooling conditions: indoor temp.: 27°C DB (80.6°F), 19°C WB (60°F) outdoor temp.: 35°C DB (95°F) equivalent pipe length: 5m drop length: 0m.
- The heating conditions: indoor temp.: 20°C DB (68T), 15°C WB (44.6T) outdoor temp.: 7°C DB (42.8T) equivalent pipe length: 5m drop length: 0m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.