

# FULL DC INVERTER

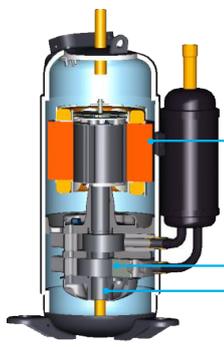
## MAIN FEATURES

### ► Full DC Control

Equipped with high efficiency DC Inverter compressor, DC fan motor and with advanced 180° sine wave vector driver and DC expansion valve.

### ► DC inverter compressor

Twin rotary DC inverter compressor is used. The output of the outdoor unit can be adjusted precisely according to the energy demanded.



- High efficiency DC motor:
  - Creative motor core design
  - High density neodymium magnet
  - Concentrated type stator - Wider operating frequency range
- Better balance and Extremely Low Vibration:
  - Twin eccentric cams
  - 2 balance weights
- Highly Stable Moving Parts:
  - Optimal material matching rollers and vanes
  - Optimize compressor drive technology
  - Highly robust bearings
  - Compact structure

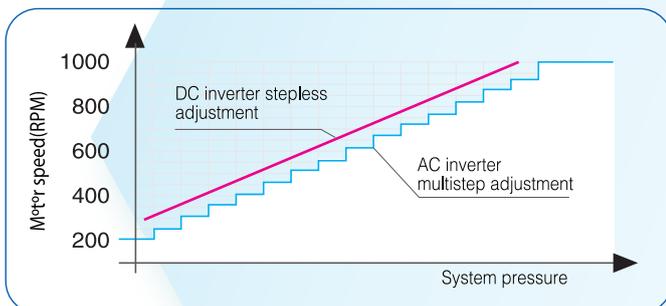
Compressor(Twin Rotary) structure

DC inverter compressor uses 180° sine wave vector con



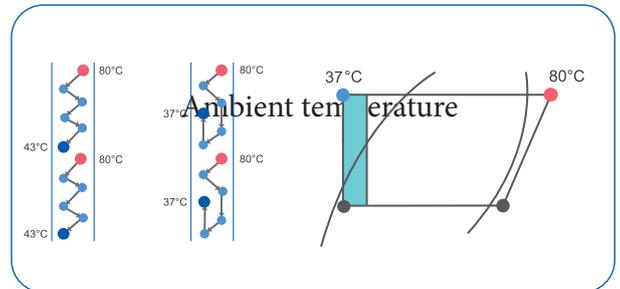
### ► DC fan motor

High efficiency stepless DC fan motor saved power up to 50%.



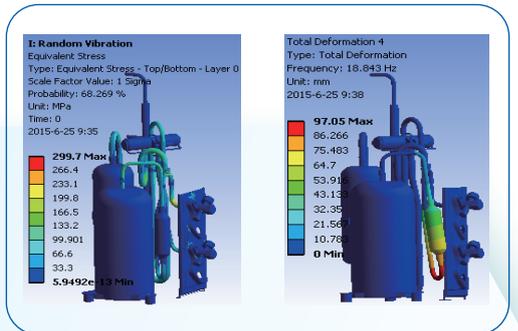
### ► Optimized Pipeline Design

The design ensures the sub-cooling and enhances the cooling capacity by separating the refrigerant inlet and outlet.



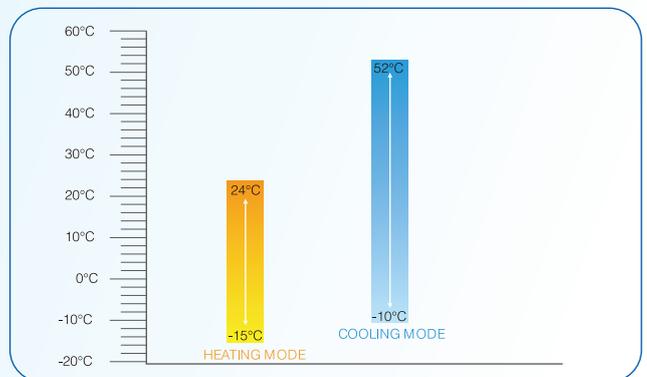
### ► Simulation Technology

Via analysing piping stress distribution, piping amplitude and displacement in transportation and operation, the reliability has been improved greatly.



### ► Reliability

Stable cooling under -5°C and heating under -15°C outdoor environment temperature.



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## MAIN FEATURES

### ► 4D Air Swing

Vertical and horizontal control swing make air distributes air to every corner.



### ► Flexible Installation

Can be vertically installed against the wall or horizontally installed under the ceiling.



### ► Ultra Slim Design

Body thickness only 205mm, minimize the installation space.



### ► Innovative Centrifugal Fan Design

By applying 3 speed fan motor and combining with innovative centrifugal fan to produce large air flow volume with lower operation noise.



Remote Control	3D Air Flow	Auto Restart Function	Long-term Filter	Hydrophilic Aluminum Fin	Intelligent Defrosting	Fast Cooling/Heating
Low Ambient Cooling	Full Process By DC Drive	Wired Control	Central Control	WiFi Control		

■ optional ■ standard

Model Number	Indoor Outdoor	KDCX-H182MDB KDOX-H182MDA	KDCX-H242MDA KDOX-H242MDA	KDCX-H302MDA KDOX-H302MDA	KDTX-H422MDA KDOX-H422MDA	KDCX-H502MDA KDOX-H502QDA	KDCX-H602MDA KDOX-H602QDA
Power Supply	V~,Hz,Ph	220~240/50/1				380~415/50/3	
Cooling	Capacity	Btu/h 18,000 (5,220~19,100)	24,000 (7,400~25,000)	30,000 (8,500~31,400)	42,000 (10,900~45,000)	50,000 (14,000~52,000)	60,000 (16,400~62,000)
	Rated Power Input	KW 5.28 (1.53~5.60)	7.03 (2.16~7.33)	8.79 (2.49~9.20)	12.10 (3.2~13.2)	14.65 (4.10~15.24)	17.58 (4.80~18.30)
	Rated Current	A 7.11 (2.25~10.10)	9.57 (3.21~12.63)	11.76 (3.68~16.25)	18.97 (4.35~23.66)	7.76 (2.50~10.39)	9.10 (2.85~10.99)
	EER	Btu/Wh 11.11	11.15	11.19	9.81	9.70	9.60
Heating	Capacity	Btu/h 19,100 (4,800~21,200)	25,300 (6,800~26,800)	31,800 (9,800~32,800)	46,000 (10,200~50,150)	53,000 (15,700~54,700)	61,000 (16,700~63,100)
	Rated Power Input	KW 5.60 (1.40~6.20)	7.42 (1.98~7.85)	9.32 (2.86~9.60)	13.50 (3.0~14.7)	15.53 (4.60~16.03)	17.89 (4.90~18.50)
	Rated Current	A 1.47 (0.46~2.25)	1.95 (0.65~3.62)	2.59 (0.78~3.70)	3.80 (0.58~4.90)	4.44 (0.92~5.66)	5.11 (0.98~6.00)
	COP	W/W 6.46 (2.20~9.88)	8.38 (3.11~12.90)	11.52 (3.77~16.25)	18.19 (3.14~21.74)	7.17 (1.90~9.08)	7.78 (2.02~9.62)
Controller	Type	Wireless Remote (Wired Controller - Optional)					
Indoor Unit	Indoor Air Flow	CFM/CMH	530/900	765/1300	825/1400	1120/1900	1180/2000
	Noise Level(Hi/Lo)	dB(A)±3	45.0/37.0	47.0/43.0	48.0/43.0	53.0/45.0	54.0/46.0
	Net Dimension (WxHxD)	mm±5	930 x 660 x 205	1280 x 660 x 205	1280 x 660 x 205	1630 x 660 x 205	1630 x 660 x 205
	Packing Dimension (WxHxD)	mm±5	1010 x 720 x 290	1360 x 720 x 290	1360 x 720 x 290	1710 x 720 x 290	1710 x 720 x 290
	Weight (Net / Gross)	Kg±0.5	25.0/28.0	32.0/38	32.5/38.5	44.0/50.0	44.0/50.0
Outdoor Unit	Compressor Type	Type	Rotary DC Inverter		Twin Rotary DC Inverter		
	Refrigerant Type/Flow control	Type	R410a/Outdoor EXV				
	Noise Power Level	dB(A)±3	55.0	56.5	57.0	58.0	59.0
	Net Dimension (WxDxH)	mm±5	800 x 315 x 545	900 x 350 x 700	900 x 350 x 700	940 x 401 x 1366	940 x 401 x 1366
	Packing Dimension (WxDxH)	mm±5	920 x 400 x 620	1020 x 430 x 770	1020 x 430 x 770	1080 x 460 x 1490	1080 x 460 x 1490
	Weight (Net / Gross)	Kg±0.5	40.0/44.0	53.0/58.0	54.0/59.0	93.0/103.0	108.0/116.0
	Connection	Liquid Side mm, Inch	6.35, 1/4"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"
Pipe Size	Gas Side mm, Inch	12.7, 1/2"	15.88, 5/8"	15.88, 5/8"	15.88, 5/8"	19.05, 3/4"	

Notes:

- The above design and specification are subject to change prior notice for product improvement.
- Cooling conditions: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB/24°C WB
- Heating conditions: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB
- Noise is tested in a full-anechoic test room.