

FULL DC INVERTER

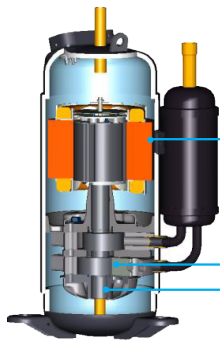
MAIN FEATURES

► 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

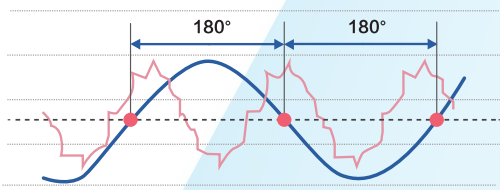
Twin rotary DC inverter compressor is used. The output of the outdoor unit can be adjusted precisely according to the energy demanded.



Compressor(Twin Rotary) structure

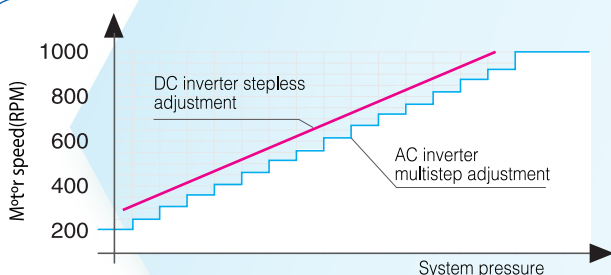
- High efficiency DC motor:
 - Creative motor core design
 - High density neodymium magnet
 - Concentrated type stator - Wider operating frequency range
- Better balance and Extremely Low Vibration:
 - Twin eccentric cams
 - 2 balance weights
- Highly Stable Moving Parts:
 - Optimal material matching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

DC inverter compressor uses 180°sine wave vector con



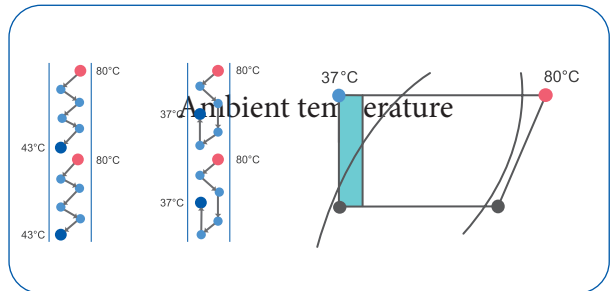
► DC fan motor

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



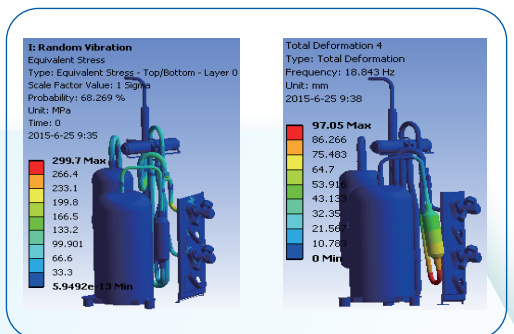
► Optimized Pipeline Design

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



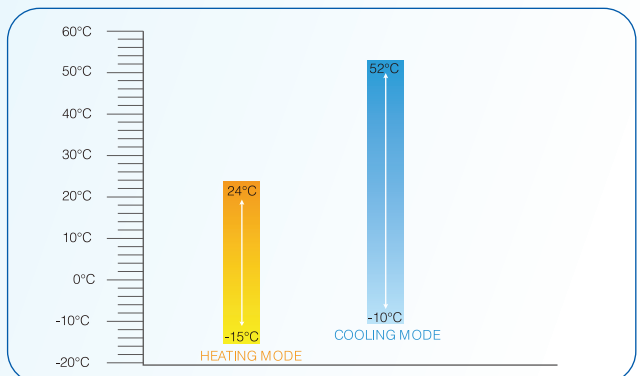
► Simulation Technology

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.



360° CASSETTE

MAIN FEATURES

► 360° Panel.

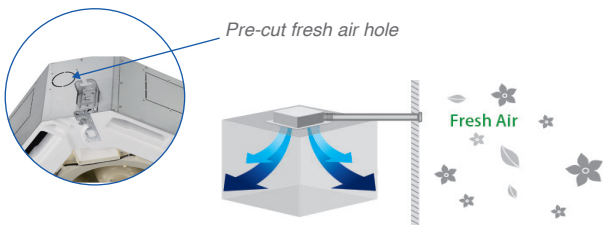
Designed with 360° air discharge, large corner air flow outlet with auto air swing function to provide smooth and high discharge air flow.

Aerodynamic turbo fan enhance strong air flow for better air circulation and air distribution.



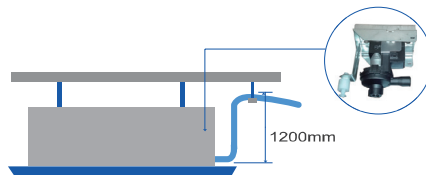
► Fresh Air Intake

Fresh air makes indoor air more healthy, fresh and comfortable.



► Built-in Drain Pump

All units come with standard built-in drain pump that can lift drain water up to 1.2m height from the drain pan.



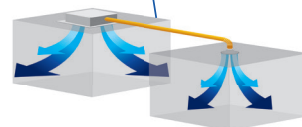
► Fire Proof Electrical Box

Fire proof electrical box enhance electrical safety and designed with maintenance friendly.



► Pre-cut Extended Duct Hole

Cool air can be duct to any corner for better and flexible air distribution.



■ optional ■ standard

| Model Number | | Indoor Outdoor | KDTX-H182MDB KDOX-H182MDA | KDTX-H242MDA KDOX-H242MDA | KDTX-H302MDA KDOX-H302MDA | KDTX-H422MDA KDOX-H422MDA | KDTX-H502MDA KDOX-H502QDA | KDTX-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) |
| | | 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 Power Input | KW | 1.62 (0.47~2.30) | 2.15 (0.67~3.56) | 2.68 (0.77~3.70) | 4.28 (0.8~5.39) | 5.15 (1.21~6.48) | 6.21 (1.38~6.85) |
| | 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) | 8.97 (2.85~10.99) |
| Heating | EER | Btu/Wh | 11.11 | 11.15 | 11.19 | 9.81 | 9.70 | 9.60 |
| | 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) |
| | | 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 (4.910~18.50) |
| | Rated Power Input | KW | 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) |
| Indoor Unit | Rated Current | A | 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) |
| | COP | W/W | 3.81 | 3.81 | 3.60 | 3.55 | 3.50 | 3.50 |
| | Controller | Type | Wireless Remote (Wired Controller - Optional) | | | | | |
| | Indoor Air Flow | CFM/CMH | 412/700 | 765/1300 | 825/1400 | 1060/1800 | 1120/1900 | 1180/2000 |
| Panel | Noise Level(Hi/Lo) | dB(A)±3 | 45.0/36.0 | 47.0/38.0 | 48.0/39.0 | 51.0/42.0 | 53.0/45.0 | 53.5/45.5 |
| | Net Dimension (WxDxH) | mm±5 | 570 x 570 x 260 | 835 x 835 x 250 | 835 x 835 x 250 | 835 x 835 x 290 | 835 x 835 x 290 | 835 x 835 x 290 |
| | Packing Dimension (WxDxH) | mm±5 | 650 x 650 x 290 | 910 x 910 x 310 | 910 x 910 x 310 | 910 x 910 x 350 | 910 x 910 x 350 | 910 x 910 x 350 |
| | Weight (Net / Gross) | Kg±0.5 | 17.0/20.0 | 24.0/27.5 | 24.0/27.5 | 26.5/31.0 | 26.5/31.0 | 26.5/31.0 |
| Outdoor Unit | Net Dimension (WxDxH) | mm±5 | 650 x 650 x 55 | 950 x 950 x 55 | 950 x 950 x 55 | 950 x 950 x 55 | 950 x 950 x 55 | 950 x 950 x 55 |
| | Packing Dimension (WxDxH) | mm±5 | 710 x 710 x 80 | 1000 x 1000 x 100 | 1000 x 1000 x 100 | 1000 x 1000 x 100 | 1000 x 1000 x 100 | 1000 x 1000 x 100 |
| | Weight (Net / Gross) | Kg±0.5 | 3.0/5.0 | 5.0/7.0 | 5.0/7.0 | 5.0/7.0 | 5.0/7.0 | 5.0/7.0 |
| | Compressor Type | Type | Rotary DC Inverter | | | | | |
| Outdoor Unit | Refrigerant Type/Flow control | Type | R410a/Outdoor EXV | | | | | |
| | Noise Power Level | dB(A)±3 | 55.0 | 56.5 | 57.0 | 58.0 | 59.0 | 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 | 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 | 1080 x 460 x 1490 |
| Pipe Size | 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 | 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" | 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" | 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.