

All-Climate Operation

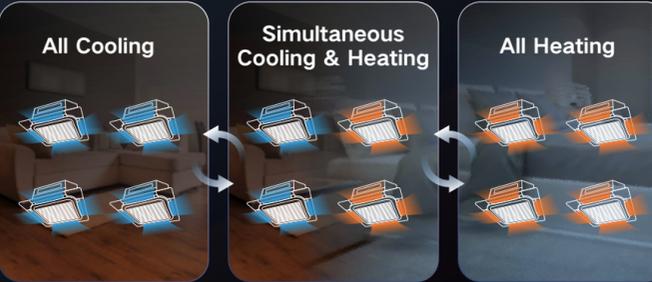
All-Weather Precision, Freedom to Operate

Ultra-Wide Operating Range

-30°C~52°C trouble-free operation



Flexible Heat Recovery Operation

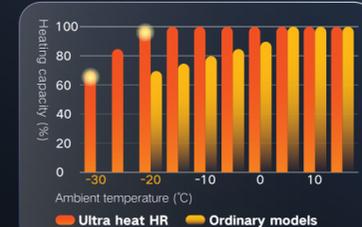


Low-Temp. Heating

Low-Temp. Operation, Rock-Solid Stability

Turbo Performance

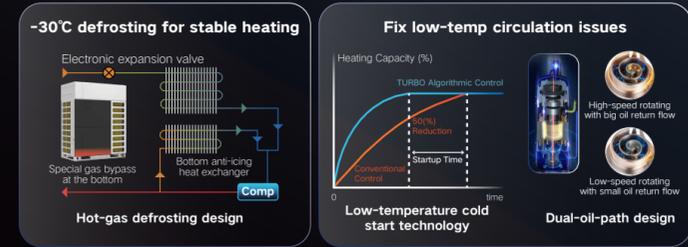
Powered by the high-efficiency low-temperature enthalpy-adding system design & low-temperature variable pressure ratio control technology



-20°C 100% heating capacity
-30°C 70% heating capacity

Reliable Operation

Stable heating operation at -30°C(-22°F)



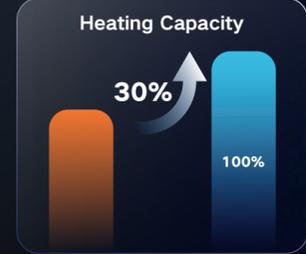
Ultra Heat EVI Scroll Compressor

With low temperature EVI control, the heating performance in low temperature environment can be improved by more than 30%

High Efficiency

EVI Low Ambient Operation

0-420Hz DC Inverter



Note: Heating capacity at -20°C(-4°F) for 8/10 tons units.

Three-Pipe Heat Recovery

Comfortable and Quieter, Engineering Convenience

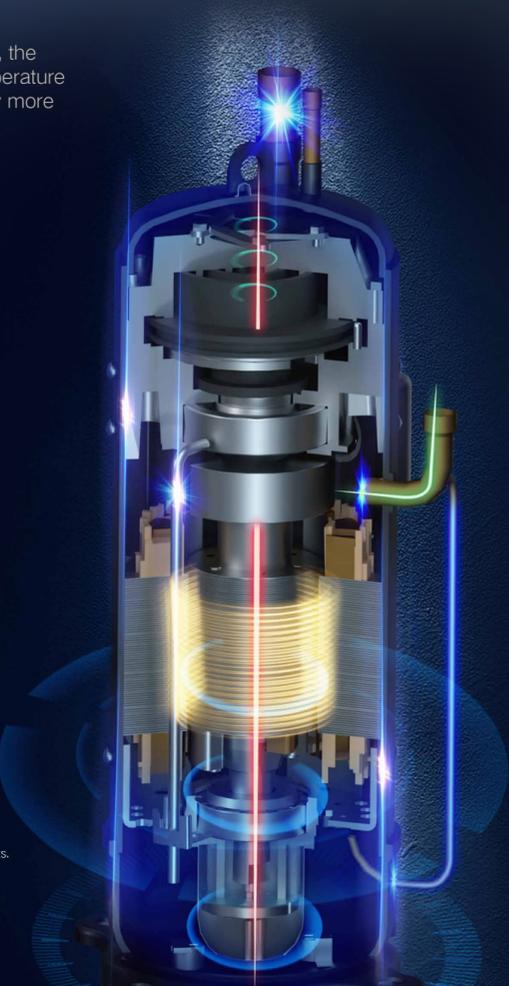
Efficient Engineering Design & Inventory Management

Three-Pipe Universal System

- Parallel indoor-outdoor heat exchangers
- Uniform liquid/gaseous refrigerant in pipes
- Universal design of mode converter
- The mode converter can be installed in series

Conventional Two-pipe System

- Series indoor-outdoor heat exchangers
- Gas-liquid mixed refrigerant
- Various types of mode converters
- The mode converter can't be installed in series



Modular Design

6~14 Tons Single Module;
 18~42 Tons Modularization with 3 Max. Units in a Single System



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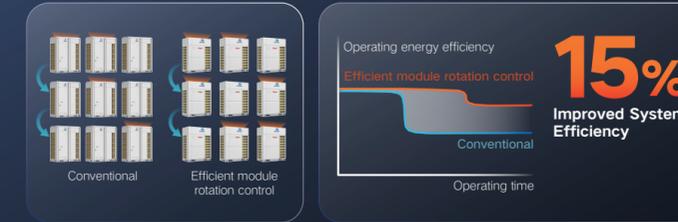
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High Efficiency

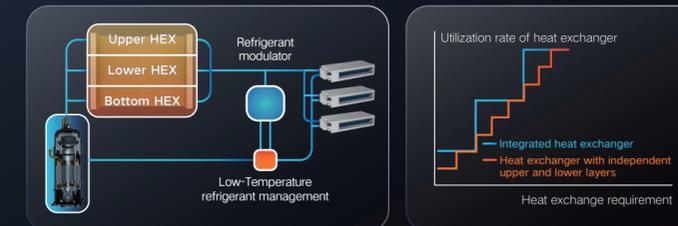
IAC(Intelligent Automatic Control) Technology

Optimize outdoor unit efficiency after module rotation



Heat Exchanger Independent Zone Control

Layered heat exchanger with independent electronic expansion valves for higher efficiency

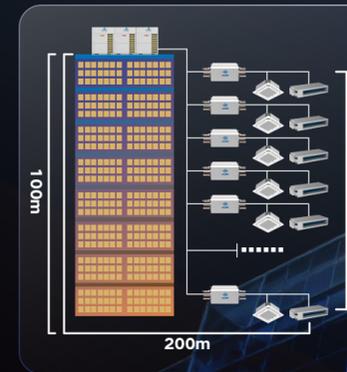
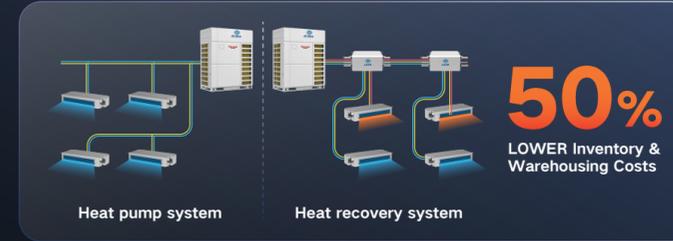


IEER UP TO
23.8

Note: Exceed that of industrial regular standard (based on the latest AHRI-1230 2023 standard).

Convenient Installation

Integrated Heat Pump & Heat Recovery Design



Long Piping Design

- 1000m (3280 1/4ft) max. total pipe length per system
- 200m (656 1/4ft) max. indoor-outdoor distance

Max. Vertical Drop of Piping

- ODU (at lower) and IDU 110m (360 1/4ft)
- ODU (at upper) and IDU 100m (328 1/4ft)
- IDU and IDU 30m (98 1/2ft)

Perfect Match



Duct IDUs



Cassette IDUs



Other IDUs



Note: The product logo is subject to the actual shipped products.

Product Parameter

Model		GMV-VQ72WM/C-W	GMV-VQ96WM/C-W	GMV-VQ120WM/C-W	GMV-VQ144WM/C-W*	GMV-VQ168WM/C-W*
Capacity range	Ton	6	8	10	12	14
Nominal Capacity	Cooling	72000	96000	120000	144000	168000
	Heating	81000	108000	135000	162000	189000
Rated Capacity	Cooling	69000	92000	114000	138000	160000
	Heating	77000	103000	129000	154000	176000
Air flow volume	CFM	5740	6180	6530	7945	9415
	m ³ /h	9750	10500	11100	13500	16000
Power supply	V/Ph/Hz	575V 3~60	575V 3~60	575V 3~60	575V 3~60	575V 3~60
MOP (Maximum Overcurrent Protection)	A	25	25	25	25	25
MCA (Minimum Circuit Ampacity)	A	19.2	19.2	19.4	22	23
Maximum drive IDU NO.	unit	13	16	23	23	26
Refrigerant charge volume	LBS	25.57	25.57	25.79	25.79	25.79
	kg	11.6	11.6	11.7	11.7	11.7
Sound pressure level	dB(A)	58	59	61	61	62
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ1/2	Φ5/8
	Gas(High pressure)	In.	Φ5/8	Φ3/4	Φ7/8	Φ7/8
	Gas(Low pressure)	In.	Φ3/4	Φ7/8	Φ1-1/8	Φ1-1/8
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas(High pressure)	mm	Φ15.9	Φ19.05	Φ22.2	Φ22.2
Connecting pipe	Gas(Low pressure)	mm	Φ19.05	Φ22.2	Φ28.6	Φ28.6
	Gas(Low pressure)	mm	Φ19.05	Φ22.2	Φ28.6	Φ28.6
Dimension (W×H×D)	Outline	In.	52-3/4×30-1/2×66-1/2	52-3/4×30-1/2×66-1/2	52-3/4×30-1/2×66-1/2	52-3/4×30-1/2×66-1/2
	Package	In.	56-1/4×33-3/8×73	56-1/4×33-3/8×73	56-1/4×33-3/8×73	56-1/4×33-3/8×73
Dimension (W×H×D)	Outline	mm	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
	Package	mm	1428×848×1855	1428×848×1855	1428×848×1855	1428×848×1855
Net weight/Gross weight	LBS	750/794	750/794	750/794	882/935	882/935
Net weight/Gross weight	kg	340/360	340/360	340/360	400/424	400/424
Loading quantity	20' GP	set	10	10	10	10
	40' GP	set	22	22	22	22
	40' HQ	set	22	22	22	22

* Note: This model is under development.

Applicable Scenarios



Ultra Heat GMV6 HR

Power Supply – 575V 3~60Hz

