

Specifications



Model			MGC-V5W/D2N1	MGC-V7W/D2N1	MGC-V10W/D2N1	MGC-V12W/D2N1
Power supply		V/Ph/Hz	220-240/1/50			
Cooling ¹	Capacity	kW	5.0	7.0	10.0	11.2
	Rated input	kW	1.55	2.25	2.95	3.50
	EER		3.23	3.11	3.39	3.20
Cooling ²	Capacity	kW	5.6	8.0	10.6	12.2
	Rated input	kW	1.15	1.85	2.50	2.65
	EER		4.87	4.32	4.24	4.60
Heating ³	Capacity	kW	6.2	8.0	11.0	12.3
	Rated input	kW	1.90	2.5	3.14	3.78
	COP		3.26	3.20	3.50	3.25
Heating ⁴	Capacity	kW	6.2	8.6	11.5	13.0
	Rated input	kW	1.35	2.10	2.65	2.92
	COP		4.59	4.10	4.34	4.45
Seasonal space heating energy efficiency class			A+	A+	A+	A+
Compressor	Type		Rotary			
Outdoor fan	Motor type		DC Motor			
Air heat exchanger	Type		Fin-coil			
Water heat exchanger	Type		Plate			
Water pump	Water flow	m ³ /h	0.86	1.20	1.72	1.93
	Pump head	m	6.2	6.2	7.0	7.0
Refrigerant	Type		R410A			
	Charged volume	kg	2.5	2.5	2.8	2.8
Throttle type			Electronic expansion valve			
Sound power level		dB	63	66	68	68
Unit net dimension (W×H×D)		mm	1,008×963×396	1,008×963×396	970×1,327×400	970×1,327×400
Packing dimension (W×H×D)		mm	1,120×1,100×435	1,120×1,100×435	1,082×1,456×435	1,082×1,456×435
Net/ Gross weight		kg	81/91	81/91	110/121	110/121
Pipe connections	Water inlet/outlet	inch	1"	1"	1-1/4"	1-1/4"
Ambient temperature range	Cooling	°C	-5-46			
	Heating	°C	-15-27			
Water outlet temperature range	Cooling	°C	4-20			
	Heating	°C	35-54			

Notes:

1. Ambient temperature 35°C. Water in/out 12/7°C
2. Ambient temperature 35°C. Water in/out 23/18°C
3. Ambient temperature 7°C °C85% R.H., Water in/out 40/45°C
4. Ambient temperature 7°C °C85% R.H., Water in/out 30/35°C
5. The above data test reference standard EN14511; EN14825; EN50564; EN12102; (EU)No811; (EU)No813; OJ 2014/C 207/02



Model			MGC-V12W/D2RN1	MGC-V14W/D2RN1	MGC-V16W/D2RN1
Power supply		V/Ph/Hz	380-415/ 3/50		
Cooling ¹	Capacity	kW	11.2	12.5	14.5
	Rated input	kW	3.38	3.90	4.70
	EER		3.31	3.20	3.10
Cooling ²	Capacity	kW	12.2	14.2	15.6
	Rated input	kW	2.60	3.10	3.60
	EER		4.69	4.58	4.33
Heating ³	Capacity	kW	12.3	13.8	16.0
	Rated input	kW	3.72	4.25	4.85
	COP		3.31	3.25	3.30
Heating ⁴	Capacity	kW	13.0	15.1	16.5
	Rated input	kW	2.85	3.35	3.92
	COP		4.56	4.51	4.21
Seasonal space heating energy efficiency class			A+	A+	A+
Compressor	Type		Rotary		
Outdoor fan	Motor type		DC motor		
Air heat exchanger	Type		Fin-coil		
Water heat exchanger	Type		Plate		
Water pump	Water flow	m ³ /h	1.92	2.15	2.49
	Pump head	m	7.0	7.0	7.0
Refrigerant	Type		R410A		
	Charged volume	kg	2.8	2.9	3.2
Throttle type			Electronic expansion valve		
Sound power level		dB	68	70	72
Unit net dimension (W×H×D)		mm	970×1,327×400		
Packing dimension (W×H×D)		mm	1,082×1,456×435		
Net/ Gross weight		kg	110/121	111/122	111/122
Pipe connections	Water inlet/outlet	inch	1-1/4"		
Ambient temperature range	Cooling	°C	-5-46		
	Heating	°C	-15-27		
Water outlet temperature range	Cooling	°C	4-20		
	Heating	°C	35-54		

Notes:

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

GD MIDEA Heating & Ventilating Equipment Co. Ltd participates in the ECP programme for LCP-HP. Check ongoing validity of certificate: www.eurovent-certification.com



INVERTER DC Inverter
Aqua Mini Chiller Series

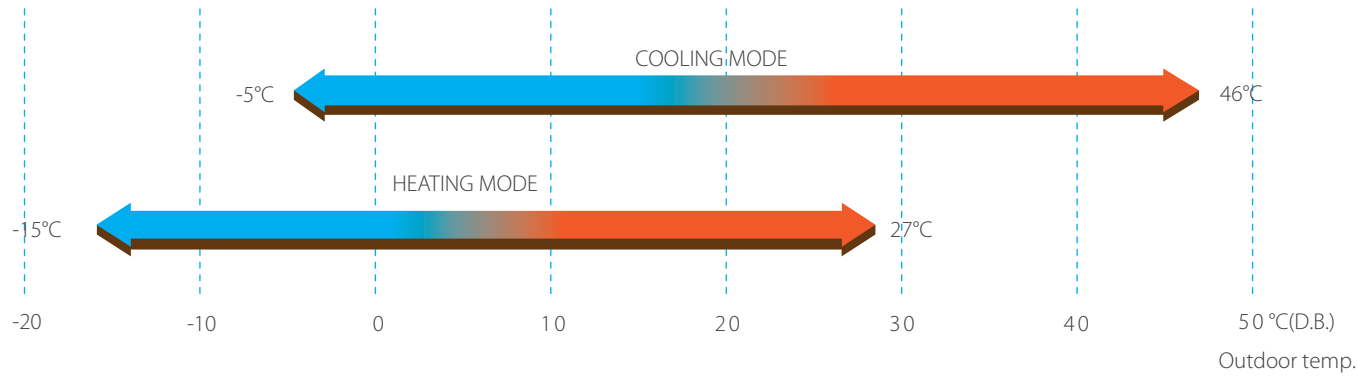
Features

Wide application range

- Seven models with wide range capacity from 5~16kW.
- Multiple power supply options.
- Freely combine with fan coil units and floor coils. Home owners may choose the best types according to their design taste (for interior) or functional needs.



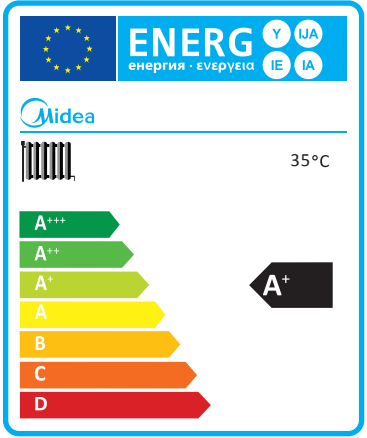
- Wide operation temperature range



- Wide range of outlet water temperature from 4~54 C .

A+ rated energy efficiency at part load

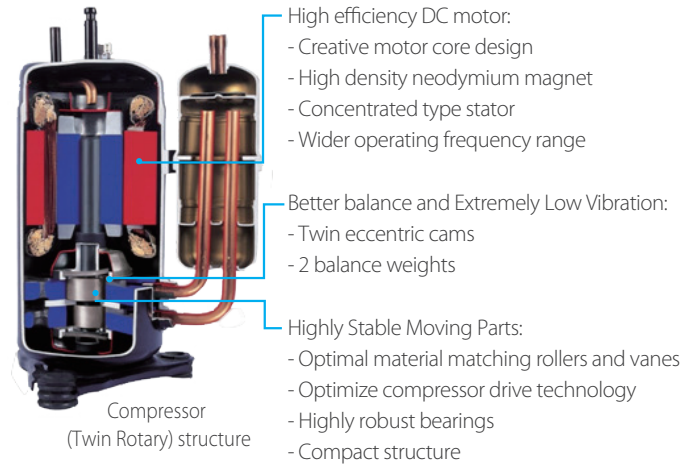
The DC inverter chiller integrates the latest technological innovations and ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.



DC Inverter Technology

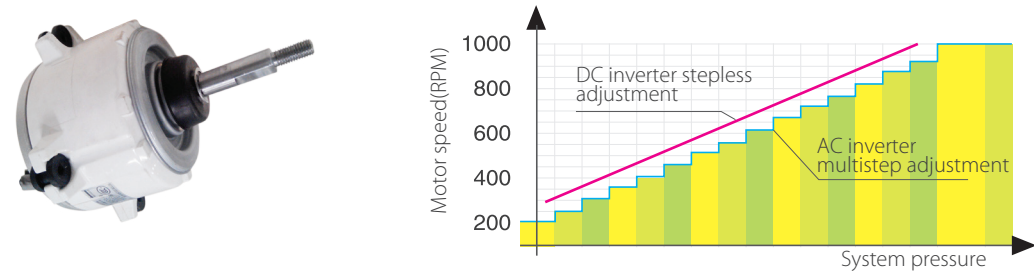
- DC inverter compressor

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

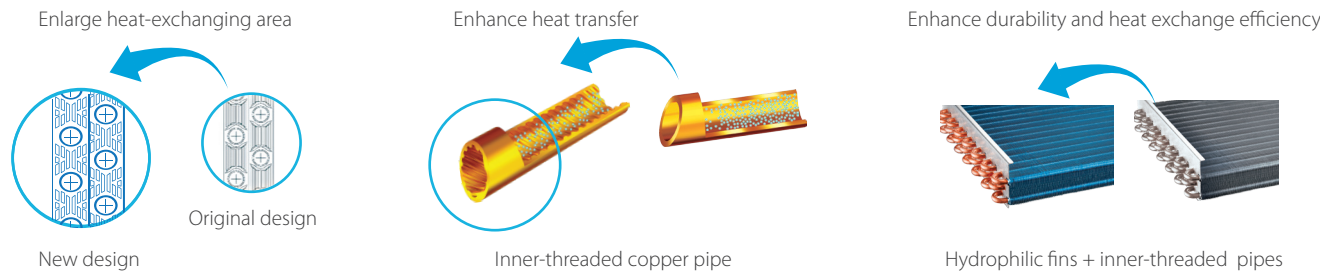


- DC fan motor

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



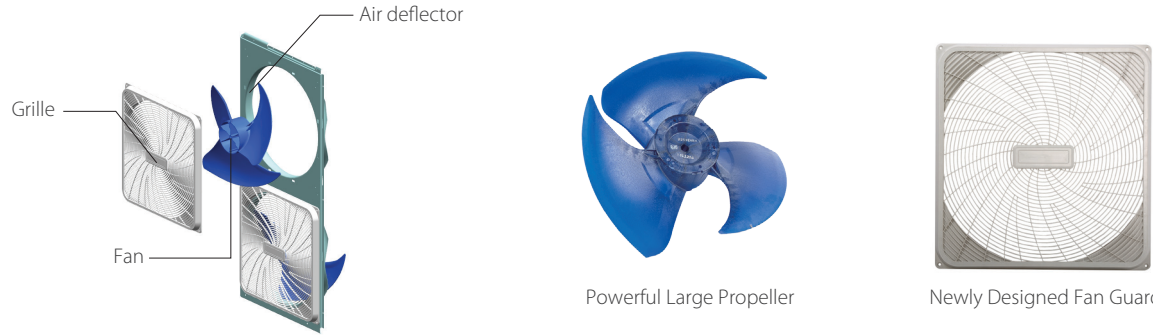
High performance heat exchanger



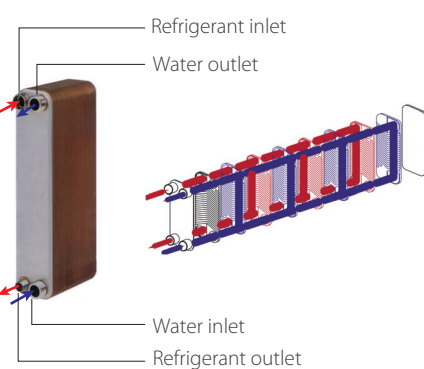
The new designed window fins enlarge the heat-exchanging area, and enhance heat exchange performance. Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency. The specially coated blue fins enhance durability and protect against corrosion from air, water and other corrosive agents, assures a longer coil service life.

Advanced technology

- DC inverter technology, optimally designed fan shape and air discharge grille ensure low sound values.

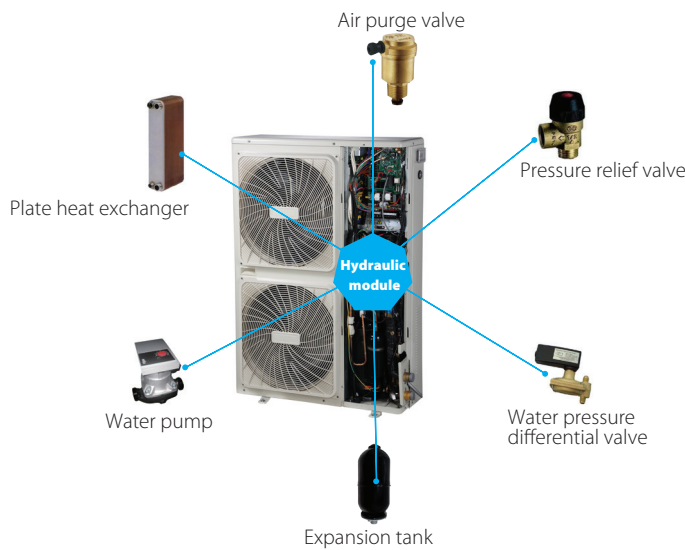


- EXV is used for stable and accurate gas flow control.
- High efficiency plate heat exchanger
Plate heat exchanger uses metal plates to transfer heat between refrigerant and water. The fluids are exposed to a much larger surface area because the fluids spread out over the plates, so both heat transfer efficiency and heat exchanger speed are greatly improved.
- Multi protections including voltage protection, current protection, anti-freezing protection and water flow protection ensure system safety running.
- High efficiency water pump
The water pump used is compliance with Erp directive, which is A degrade efficiency standard.



Easy installation

- Compact structure design and leak-tight refrigerant circuit save you much installation labor.
- The chillers are equipped with a hydronic module integrated into the unit chassis, limiting the installation to straight-forward operations like connection of the power supply, the water supply and the air distribution FCUs.
- The units are equipped with axial fans so they can be installed directly outdoors.



Easy control

- Remote ON/OFF and remote cool/heat functions.



- Controller built-in in unit panel used to perform all related operations as the user interface as well as fast diagnosis of possible incidents and their history.

- ON/OFF & Mode selection
- Temperature adjust
- Timer setting
- Fast diagnosis



- Optional wired controller for easy operation.
 - Touch key operation
 - LCD displays operation parameters
 - Multiple timers
 - Real-time clock



Note: When the wired controller is connected, the built-in controller is only for display, check and diagnosis functions.