

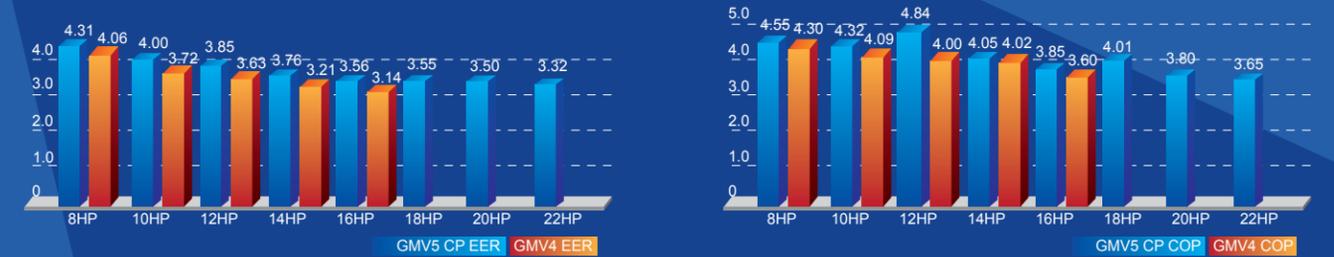
# GMV5 CP



## Key Features

### High Efficiency and More Energy Saving

Thanks to the advanced DC inverter technology, optimized system design and accurate intelligent control technology, EER of GMV5 CP is up to 4.31 while COP is up to 4.84.



### 88HP Max Capacity-The Largest Free Combination

Max capacity of single outdoor unit reaches **22HP** and max combination capacity is even up to **88HP**, in an industry leading level.

Max combination capacity is extended to 88HP



### High Corrosion Resistant

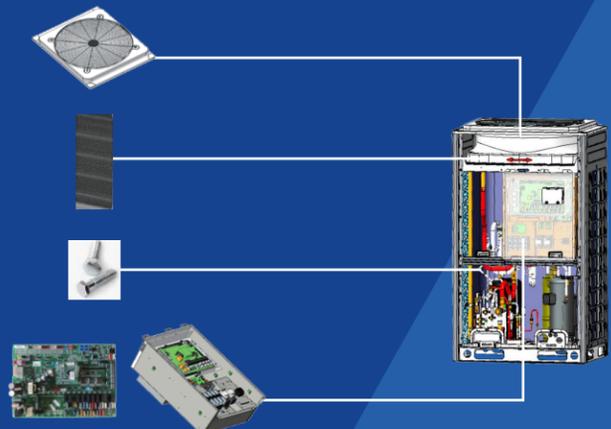
The GMV5 CP unit adopts corrosion-resistance materials on both metal and electronic parts make it can be installed near the sea.

The plastic planting grille protects against salt. All panel parts are corrosion resistant to protect against brine.

Corrosion resistant heat-exchange fins are suitable for seaside areas and exposed to acidic substances.

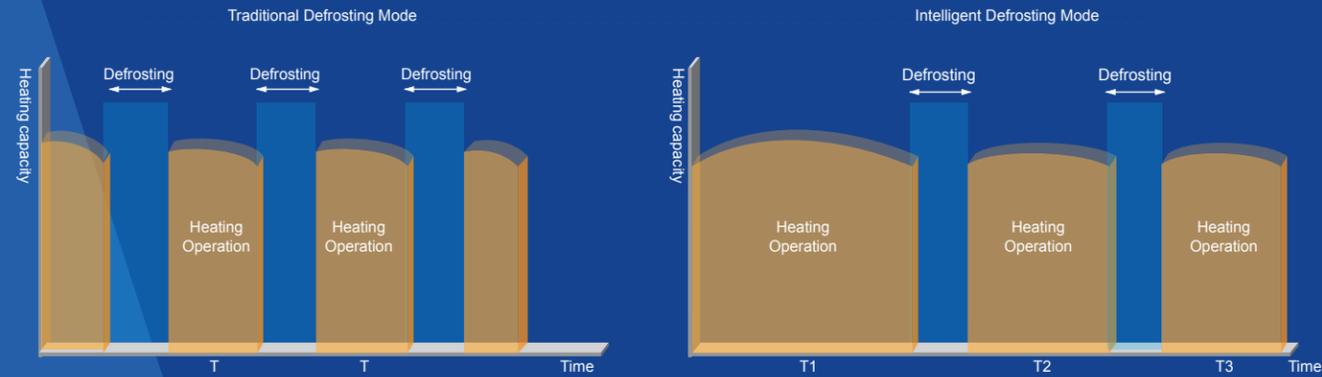
All screws are anti-rust.

All PCB parts in the unit are coated with three proofing glue. The outer side of the control box metal cover is the spray-painted.



## Intelligent Defrosting Control

During the heating process, the frost status of the unit will be different after affecting by factors of outdoor ambient temperature, load status and operation time. Through real-time detection of operation parameters of the system, it can decide the defrosting time by intelligently estimating the thickness of frost, high pressure of system and blockage status of heat exchanger.



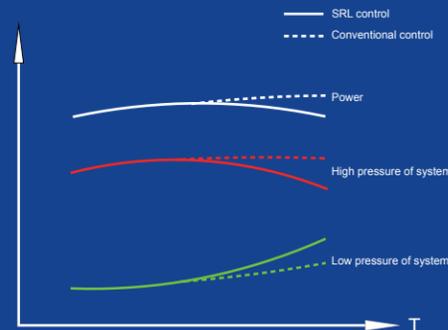
## Lower Power Consumption Operation Mode

As for the area with power consumption limited time period, the maximum power consumption can be set for the operation. Basing on the power consumption of unit and user's requirement, power consumption limitation can be set according to 100%, 90% or 80% of the capacity of complete unit. In this case, user can have more selection at the power consumption limited time period.



## SRL (Self-reaction Load) Self-adaptive Control

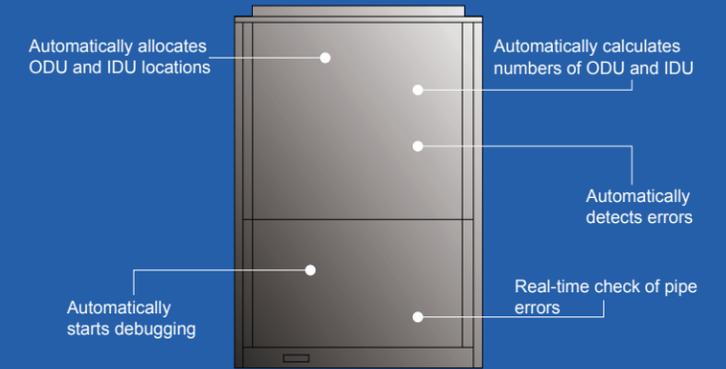
SRL (Self-reaction Load) can intelligently detect and control system parameters and automatically adapt to indoor cold/heat load requirement to reducing unit's power and improve the energy efficiency.



## Engineering Debugging for Convenient Construction

### 1) GMV5 CP has five auto debugging features:

- Automatic allocation of IDU and ODU addresses
- Automatic detection of IDU and ODU quantity
- Automatic detection of errors
- Automatic start-up of debugging
- Real-time judgment of pipe errors

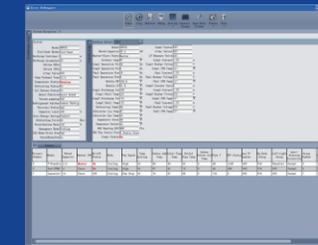


### 2) Diversified debugging methods for satisfying different requirements and improving debugging efficiency:

- ① Button debugging of outdoor unit
- ② Special GMV debugging system
- ③ CE41-24/F(C) debugger has functions of debugging of complete unit, independent debugging of indoor unit, malfunction display, data record and so on. It's no need to connect special software and PC. Moreover, it can connect external USB storage data.



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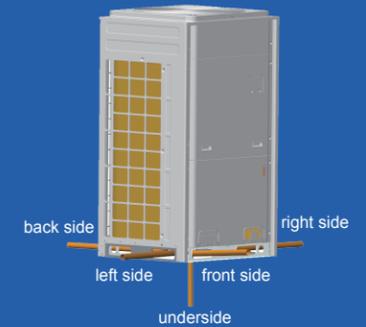


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## Five-way Piping Connection

Piping and wiring are available to the front and back, left and right, and bottom.

The five-way piping connection reduces installation difficulty and cost, improves the installation efficiency.



## No Need Wired Controller for Debugging

When the project is not completed, debugging can be conducted for the system without wired controller to prevent damage to the wired controller during construction process. After the project is finished, install the wired controller, which can prevent unnecessary loss.

# ODU Combination Lineup

Model	GMV-224WMB1-X	GMV-280WMB1-X	GMV-335WMB1-X	GMV-400WMB1-X	GMV-450WMB1-X	GMV-504WMB1-X	GMV-560WMB1-X	GMV-615WMB1-X
GMV-224WMB1-X	●							
GMV-280WMB1-X		●						
GMV-335WMB1-X			●					
GMV-400WMB1-X				●				
GMV-450WMB1-X					●			
GMV-504WMB1-X						●		
GMV-560WMB1-X							●	
GMV-615WMB1-X								●
GMV-680WMB1-X		●		●				
GMV-730WMB1-X		●			●			
GMV-785WMB1-X		●				●		
GMV-850WMB1-X		●					●	
GMV-900WMB1-X		●						●
GMV-960WMB1-X			●					●
GMV-1010WMB1-X				●				●
GMV-1065WMB1-X					●			●
GMV-1130WMB1-X						●		●
GMV-1180WMB1-X							●	●
GMV-1235WMB1-X								●●
GMV-1300WMB1-X		●			●		●	●
GMV-1350WMB1-X		●			●			●
GMV-1410WMB1-X			●		●			●
GMV-1460WMB1-X		●					●	●
GMV-1515WMB1-X		●						●●
GMV-1580WMB1-X			●					●●
GMV-1630WMB1-X				●				●●
GMV-1685WMB1-X					●			●●
GMV-1750WMB1-X						●		●●
GMV-1800WMB1-X							●	●●
GMV-1854WMB1-X								●●●
GMV-1908WMB1-X		●			●		●	●
GMV-1962WMB1-X		●				●	●	●
GMV-2016WMB1-X		●					●●	●
GMV-2072WMB1-X		●					●	●●
GMV-2128WMB1-X		●						●●●
GMV-2184WMB1-X			●					●●●
GMV-2240WMB1-X				●				●●●
GMV-2295WMB1-X					●			●●●
GMV-2350WMB1-X						●		●●●
GMV-2405WMB1-X							●	●●●
GMV-2460WMB1-X								●●●●

HP	Model	Product
8HP	GMV-224WMB1-X	
10HP	GMV-280WMB1-X	
12HP	GMV-335WMB1-X	
14HP	GMV-400WMB1-X	
16HP	GMV-450WMB1-X	
18HP	GMV-504WMB1-X	
20HP	GMV-560WMB1-X	
22HP	GMV-615WMB1-X	

## Specifications and Parameters

Model		GMV-224WMB1-X	GMV-280WMB1-X	GMV-335WMB1-X	GMV-400WMB1-X
Capacity range	HP	8	10	12	14
Capacity	Cooling	kW	22.4	28	33.5
	Heating	kW	25	31.5	37.5
EER	W/W	4.31	4.00	3.85	3.76
COP	W/W	4.55	4.32	4.84	4.05
Power supply	V/Ph/Hz	380-415V-3Ph-50Hz/60Hz			
Max. Circuit/Fuse Current	A	15.7/20	20.9/25	22.5/32	28.8/40
Power consumption	Cooling	kW	5.2	7	8.7
	Heating	kW	5.5	7.3	7.75
Maximum drive IDU NO.	unit	13	16	19	23
Refrigerant Charge volume	kg	5.9	6.7	9	9.8
Sound pressure level	dB(A)	60	61	61	63
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4
	Oil balance	mm	Φ9.52	Φ9.52	Φ9.52
Dimension (W*D*H)	Outline	mm	930×765×1605	930×765×1605	930×765×1605
	Package	mm	1010×840×1775	1010×840×1775	1010×840×1775
Net weight/Gross weight	kg	225/235	225/235	235/250	360/375
Loading quantity	40' GP	set	24	24	16
	40' HQ	set	24	24	16

Model		GMV-450WM/B1-X	GMV-504WM/B1-X	GMV-560WM/B1-X	GMV-615WM/B1-X	
Capacity range		HP	16	18	20	22
Capacity	Cooling	kW	45	50.4	56	61.5
	Heating	kW	50	56.5	63	69
EER		W/W	3.56	3.55	3.50	3.32
COP		W/W	3.85	4.01	3.80	3.65
Power supply		V/Ph/Hz	380-415V/3Ph/50/60Hz			
Max. Circuit/Fuse Current		A	33.2/40	45.4/50	51.1/63	59.2/63
Power consumption	Cooling	kW	12.65	14.2	16	18.5
	Heating	kW	13	14.1	16.6	18.9
Maximum drive IDU NO.		unit	26	29	33	36
Refrigerant Charge volume		kg	10.3	11.3	14.3	14.3
Sound pressure level		dB(A)	63	63	63	64
Connecting pipe	Liquid	mm	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	Oil balance	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Dimension (W*D*H)	Outline	mm	1340×765×1605	1340×765×1740	1340×765×1740	1340×765×1740
	Package	mm	1420×840×1775	1420×840×1910	1420×840×1910	1420×840×1910
Net weight/Gross weight		kg	360/375	360/375	385/400	385/400
Loading quantity	40' GP	set	16	16	16	16
	40' HQ	set	16	16	16	16

### Specification of ODU Combination of GMV5 CP

Model	Power Supply	Capacity		Power Input		Dimension(W×D×H)	Airflow Volume	ESP	Sound Pressure Level	Operation sound pressure level at night	Connecting pipe diameter			Min.circuit current	Max. fuse current	Weight
		Cooling	Heating	Cooling	Heating						Liquid	Gas	Oil			
		kW	kW	kW	kW	mm	m <sup>3</sup> /h	Pa	dB(A)	dB(A)	mm	mm	mm	A	A	kg
GMV-680WM/B1-X	380 - 415V /3Ph /50 /60Hz	68.0	76.5	17.7	18.4	(930×765×1605) +(1340×765×1605)	11400+ 14000	82	65	43	Φ15.9	Φ28.6	Φ9.52	20.9+28.8	25 + 40	225+360
GMV-730WM/B1-X		73.0	81.5	19.7	20.3	(930×765×1605) +(1340×765×1605)	11400+ 14000	82	65	43	Φ19.05	Φ31.8	Φ9.52	20.9+33.2	25 + 40	225+360
GMV-785WM/B1-X		78.4	88.0	21.2	21.4	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	66	43	Φ19.05	Φ31.8	Φ9.52	20.9+45.4	25 + 50	225+360
GMV-850WM/B1-X		84.0	94.5	23.0	23.9	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	67	43	Φ19.05	Φ31.8	Φ9.52	20.9+51.1	25 + 63	225+385
GMV-900WM/B1-X		89.5	100.5	25.5	26.2	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	67	43	Φ19.05	Φ31.8	Φ9.52	20.9+59.2	25 + 63	225+385
GMV-960WM/B1-X		95.0	106.5	27.2	26.7	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	68	43	Φ19.05	Φ31.8	Φ9.52	22.5+59.2	32 + 63	235+385
GMV-1010WM/B1-X		101.5	114.0	29.2	30.0	(1340×765×1605) +(1340×765×1740)	14000+ 16000	82	68	43	Φ19.05	Φ38.1	Φ9.52	28.8+59.2	40 + 63	360+385
GMV-1065WM/B1-X		106.5	119.0	31.2	31.9	(1340×765×1605) +(1340×765×1740)	14000+ 16000	82	68	43	Φ19.05	Φ38.1	Φ9.52	33.2+59.2	40 + 63	360+385
GMV-1130WM/B1-X		111.9	125.5	32.7	33.0	(1340×765×1740) ×2	16000×2	82	68	43	Φ19.05	Φ38.1	Φ9.52	45.4+59.2	50 + 63	360+385
GMV-1180WM/B1-X		117.5	132.0	34.5	35.5	(1340×765×1740) ×2	16000×2	82	69	43	Φ19.05	Φ38.1	Φ9.52	51.1+59.2	63 + 63	385×2
GMV-1235WM/B1-X		123.0	138.0	37.0	37.8	(1340×765×1740) ×2	16000×2	82	69	43	Φ19.05	Φ38.1	Φ9.52	59.2+59.2	63 + 63	385×2
GMV-1300WM/B1-X		129.0	144.5	35.7	36.9	(930×765×1605)+(1340×765×1605)+(1340×765×1740)	11400+14000 +16000	82	69	45	Φ19.05	Φ38.1	Φ9.52	20.9+33.2+51.1	25 + 40 + 63	225+360 +385
GMV-1350WM/B1-X		134.5	150.5	38.2	39.2	(930×765×1605)+(1340×765×1605)+(1340×765×1740)	11400+14000 +16000	82	69	45	Φ19.05	Φ38.1	Φ9.52	20.9+33.2+59.2	25 + 40 + 63	225+360 +385
GMV-1410WM/B1-X		140.0	156.5	39.9	39.7	(930×765×1605)+(1340×765×1605)+(1340×765×1740)	11400+14000 +16000	82	69	45	Φ19.05	Φ41.3	Φ9.52	22.5+33.2+59.2	32 + 40 + 63	235+360 +385
GMV-1460WM/B1-X		145.5	163.5	41.5	42.8	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	69	45	Φ19.05	Φ41.3	Φ9.52	20.9+51.1+59.2	25 + 63 + 63	225+385×2
GMV-1515WM/B1-X		151.0	169.5	44.0	45.1	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	20.9+59.2+59.2	25 + 63 + 63	225+385×2
GMV-1580WM/B1-X		156.5	175.5	45.7	45.6	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	22.5+59.2+59.2	32 + 63 + 63	235+385×2
GMV-1630WM/B1-X		163.0	183.0	47.7	48.9	(1340×765×1605) +(1340×765×1740) ×2	14000+ 16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	28.8+59.2+59.2	40 + 63 + 63	360+385×2
GMV-1685WM/B1-X		168.0	188.0	49.7	50.8	(1340×765×1605) +(1340×765×1740) ×2	14000+ 16000×2	82	70	45	Φ19.05	Φ41.3	Φ9.52	33.2+59.2+59.2	40 + 63 + 63	360+385×2
GMV-1750WM/B1-X		173.4	194.5	51.2	51.9	(1340×765×1740) ×3	16000×3	82	70	45	Φ19.05	Φ41.3	Φ9.52	45.4+59.2+59.2	50 + 63 + 63	360+385×2
GMV-1800WM/B1-X		179.0	201.0	53.0	54.4	(1340×765×1740) ×3	16000×3	82	71	45	Φ19.05	Φ41.3	Φ9.52	51.1+59.2+59.2	63 + 63 + 63	385×3
GMV-1854WM/B1-X		184.5	207.0	55.5	56.7	(1340×765×1740) ×3	16000×3	82	71	45	Φ19.05	Φ41.3	Φ9.52	59.2+59.2+59.2	63+63+63	385×3
GMV-1908WM/B1-X		190.5	213.5	54.2	55.8	(930×765×1605)+(1340×765×1605)+(1340×765×1740) ×2	11400+14000 +16000×2	82	72	47	Φ22.2	Φ44.5	Φ9.52	20.9+33.2+51.1+59.2	25+40+63+63	225+360 +385×2
GMV-1962WM/B1-X		195.9	220.0	55.7	56.9	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	20.9+45.4+51.1+59.2	25+50+63+63	225+360 +385×2
GMV-2016WM/B1-X		201.5	226.5	57.5	59.4	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	20.9+51.1+51.1+59.2	25+63+63+63	225+385×3
GMV-2072WM/B1-X		207.0	232.5	60.0	61.7	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	20.9+51.1+59.2+59.2	25+63+63+63	225+385×3
GMV-2128WM/B1-X		212.5	238.5	62.5	64.0	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	73	47	Φ22.2	Φ44.5	Φ9.52	20.9+59.2+59.2+59.2	25+63+63+63	225+385×3
GMV-2184WM/B1-X		218.0	244.5	64.2	64.5	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	74	47	Φ22.2	Φ44.5	Φ9.52	22.5+59.2+59.2+59.2	32+63+63+63	235+385×3
GMV-2240WM/B1-X		224.5	252.0	66.2	67.8	(1340×765×1605) +(1340×765×1740) ×3	14000+ 16000×3	82	74	47	Φ22.2	Φ44.5	Φ9.52	28.8+59.2+59.2+59.2	40+63+63+63	360+385×3
GMV-2295WM/B1-X		229.5	257.0	68.2	69.7	(1340×765×1605) +(1340×765×1740) ×3	14000+ 16000×3	82	74	47	Φ22.2	Φ44.5	Φ9.52	33.2+59.2+59.2+59.2	40+63+63+63	360+385×3
GMV-2350WM/B1-X	234.9	263.5	69.7	70.8	(1340×765×1740) ×4	16000×4	82	75	47	Φ22.2	Φ44.5	Φ9.52	45.4+59.2+59.2+59.2	50+63+63+63	360+385×3	
GMV-2405WM/B1-X	240.5	270.0	71.5	73.3	(1340×765×1740) ×4	16000×4	82	75	47	Φ22.2	Φ44.5	Φ9.52	51.1+59.2+59.2+59.2	63+63+63+63	385×4	
GMV-2460WM/B1-X	246.0	276.0	74.0	75.6	(1340×765×1740) ×4	16000×4	82	75	47	Φ22.2	Φ44.5	Φ9.52	59.2+59.2+59.2+59.2	63+63+63+63	385×4	