

## Flexible Engineering Design

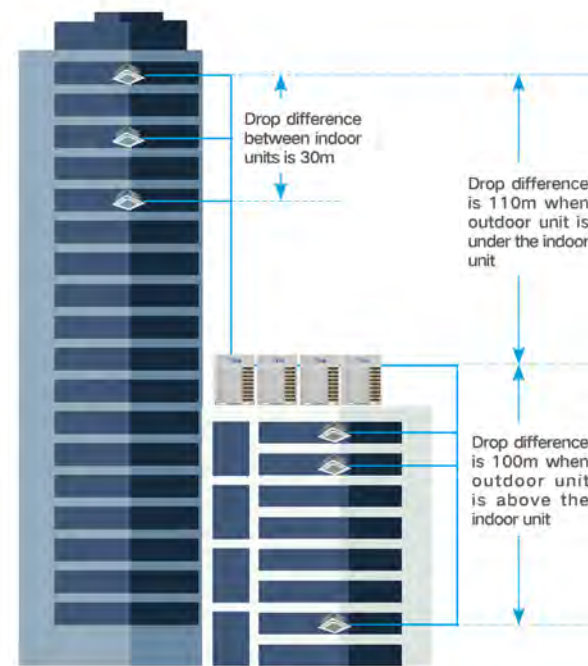
Ultra-long connection pipe, convenient maintenance and other designs are adopted. The engineering adaptability of the unit is strong, which satisfies various engineering demands.



**GREE**  
**GMV 6**

## Super Long Refrigerant Pipe Design

GMV6 combines high drop pressure control technology, indoor unit drop identification technology, intermediate pressure adjustment technology, tube length self-correction technology, and deep sub-cooling technology to increase the length of piping and improve the air conditioning effect.



- The maximum actual single pipe length is 200m, the maximum equivalent single pipe length is 240m, and the maximum piping length is 1,000m.
- The maximum length after the first branch pipe is 120m \*.
- The maximum drop of indoor and outdoor units is 110m \* (100m when the outdoor unit is in upper position) \*.
- The maximum drop between indoor units is 30m.

\*Please consult technical staff for details.

## High Static Pressure Design

New diversion cover: effectively coupled with fan blades, the flow field is more uniform.

New diversion cover; effectively coupled with fan blades to make the flow distribution more uniform.

High external static pressure design facilitates engineering application and mechanical floor design.

The air-out grille with vortex streamline distribution, less wind resistance.

High-efficiency motor, powerful output and highest static pressure up to 110Pa (ex-factory standard).



## Intelligent Commissioning

### Quick Installation

- Automatic address allocation: the system automatically allocates addresses to the indoor units, no DIP switch is required for commissioning, which is convenient.
- Five-side outlet pipes connection method: pipes can be lead out from five sides—front side, left and right sides, back and lower sides, which is suitable for various installation occasions.
- No external oil balancing pipe: advanced oil balancing control, no need to connect external oil balancing pipe, for fast and convenient installation and higher efficiency.
- Highly versatile design: GMV6 and GMV5 are universal for indoor and outdoor mounting holes, universal for supporting terminal controllers, and universal for commissioning.

### Efficient Multiple Commissioning Methods

Diversified commissioning methods to meet different needs of project for higher commissioning efficiency.



One button commissioning  
One button to enter commissioning, no other operations, simple and fast



GMV commissioning system  
Clear interface, detailed data, and more professional analysis



Multi-functional debugger  
Quick connection, no special PC required; data storage space (4GB), no external storage required

### Debugging before Installing Wired Controller

Before the completion of the project, in order to avoid damage to the wired controller during the construction process, the system can be debugged without installing the wired controller. After the entire project construction is completed, the wired controller can be installed and put in use, which can reduce unnecessary engineering loss.

## New Generation Refrigerant Automatic Charging \*

The new-generation refrigerant automatic charging function can effectively monitor and judge the status of the refrigerant in the system by detecting the high and low pressure, ambient temperature, and other parameters of the system, and strive to achieve the amount of refrigerant that matches the project and improve the efficiency of unit installation and commissioning.

\*This function needs to be customized



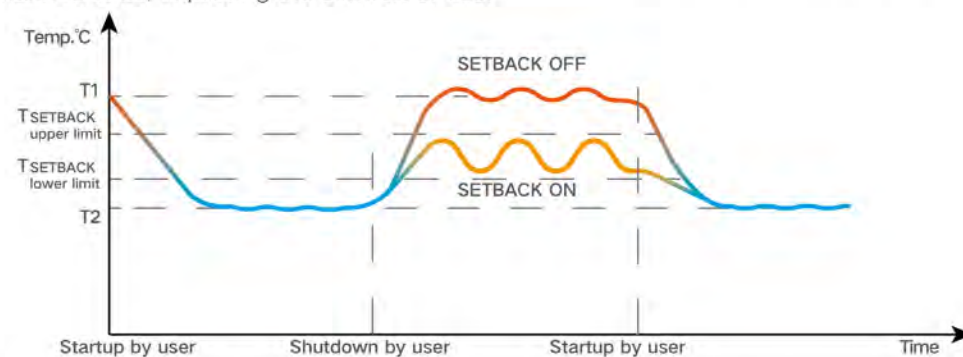
## New Generation Refrigerant Recovery Function

The new generation of indoor unit refrigerant recovery and module refrigerant recovery functions can effectively recover the refrigerant of the indoor unit or the faulted outdoor unit during after-sales maintenance, reducing refrigerant waste and saving maintenance time.



## SET BACK Function

On occasions with high comfort requirements, such as star-rated hotels, high-end office areas, etc., the unit can start the SET BACK function, even if the unit is turned off, it can also automatically determine the indoor temperature and automatically start operation to ensure the required temperature control under unmanned state, improving the comfort of use.



\*Applicable to XK79 wired controller.

## Efficiently Maintained Structural Layout

GMV6 integrated electronic control layout, with reserved maintenance space for higher maintenance efficiency.



Commissioning window, no need to remove the panel, you can conduct commissioning and troubleshooting during operation.

The electronic control components are highly integrated, the component structure is miniaturized, and there is more space for maintenance.

Front-mounted valve assembly design, fast and reliable piping installation.



Large space for convenient maintenance

## Four Seasons Operating Function

Without additional accessories, operation mode of the whole unit can be set through the outdoor unit to achieve centralized management and reduce energy waste.



Summer lock: cooling is effective

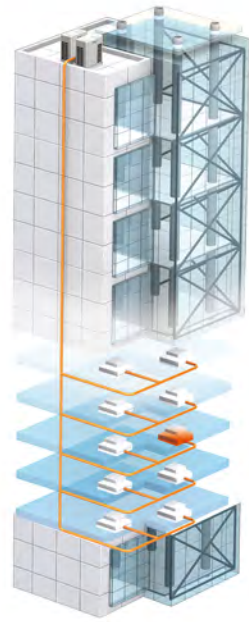


Transition season lock: air supply is effective




Winter lock: heating is effective

## Indoor Unit Automatic Positioning Function



When multiple indoor units are installed in large spaces such as exhibition halls, conference rooms, offices, etc., the indoor unit can conduct automatic positioning, the corresponding indoor unit buzzer can automatically respond, and the indoor unit can be quickly positioned by sound to achieve efficient maintenance.

 Abnormal unit alarms for positioning

## Panel Lifting Function

Ordinary panel cleaning requires the hiring of professionals to clean, and the use of auxiliary tools is required for the operation, which has high maintenance cost and low safety.

### Automatic Grille Lifting Technology

#### Convenient Cleaning Function

Air-in grille adopts two-way suspension lifting technology to realize grille lifting function. Users can clean the filter by themselves.



#### Grille Lifting Control

Through suspension self-locking technology, two modes — stepless lifting and default lifting are realized, and the maximum descending distance can reach 3.3 meters.

In order to prevent users from entering the cleaning mode by mistake, symmetric encryption technology is adopted to give users a better and comfortable experience.

Note: It needs to be customized, and it can be used with 360° air discharge cassette type indoor unit.

## GMV6 Outdoor Units Specifications



# ODU Specifications

# ODU Specifications



GREE participates in the ECP programme for VRF with Diploma No. 17.02.283. Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)

## GMV6 (380-415V 3N~50/60Hz)

Model			GMV-224WM/H-X	GMV-280WM/H-X	GMV-335WM/H-X	GMV-400WM/H-X
Capacity range	HP		8	10	12	14
Cooling capacity	Rated *	kW	22.4	28.0	33.5	40.0
	Max.	kW	22.4	28.0	33.5	40.0
Heating capacity	Rated *	kW	22.4	28.0	33.5	40.0
	Max.	kW	25.0	31.5	37.5	45.0
SEER	Ducted *	-	7.10	6.66	6.31	6.75
	Cassette *	-	7.80	6.33	6.58	6.74
SCOP	Ducted *	-	4.62	4.80	4.40	4.80
	Cassette *	-	4.50	4.75	4.66	4.44
Power supply	V/Ph/Hz		380-415V 3N~ 50/60Hz			
Min. circuit/Max. fuse current	A		23.0/25	23.5/25	24.1/25	37.5/40
Max. power input	kW		12.87	13.15	13.50	21.00
Maximum drive IDU NO.	unit		13	16	19	23
Refrigerant charge volume	kg		5.5	5.5	7.5	7.5
Sound pressure level (cooling)	dB(A)		56	57	59	59
Sound power level (cooling)	Ducted *	dB(A)	80	84	86	90
	Cassette *	dB(A)	82	86	86	88
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Dimension(W × D × H)	Outline	mm	930 × 775 × 1690	930 × 775 × 1690	930 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1000 × 830 × 1855	1000 × 830 × 1855	1000 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg		220/230	220/230	240/250	300/315
Loading quantity	20' GP	unit	12	12	12	10
	40' GP	unit	28	28	28	22
	40' HQ	unit	28	28	28	22

## GMV6 Anti-corrosion Series (380-415V 3N~50/60Hz)

Model			GMV-224WM/H1-X	GMV-280WM/H1-X	GMV-335WM/H1-X	GMV-400WM/H1-X
Capacity range	HP		8	10	12	14
Cooling capacity	Rated *	kW	22.4	28.0	33.5	40.0
	Max.	kW	22.4	28.0	33.5	40.0
Heating capacity	Rated *	kW	22.4	28.0	33.5	40.0
	Max.	kW	25.0	31.5	37.5	45.0
SEER	Ducted *	-	7.10	6.66	6.31	6.75
	Cassette *	-	7.80	6.33	6.58	6.74
SCOP	Ducted *	-	4.62	4.80	4.40	4.80
	Cassette *	-	4.50	4.75	4.66	4.44
Power supply	V/Ph/Hz		380-415V 3N~ 50/60Hz			
Min. circuit/Max. fuse current	A		23.0/25	23.5/25	24.1/25	37.5/40
Max. power input	kW		12.87	13.15	13.50	21.00
Maximum drive IDU NO.	unit		13	16	19	23
Refrigerant charge volume	kg		5.5	5.5	7.5	7.5
Sound pressure level (cooling)	dB(A)		56	57	59	59
Sound power level (cooling)	Ducted *	dB(A)	80	84	86	90
	Cassette *	dB(A)	82	86	86	88
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Dimension(W × D × H)	Outline	mm	930 × 775 × 1690	930 × 775 × 1690	930 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1000 × 830 × 1855	1000 × 830 × 1855	1000 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg		220/230	220/230	240/250	300/315
Loading quantity	20' GP	unit	12	12	12	10
	40' GP	unit	28	28	28	22
	40' HQ	unit	28	28	28	22

Model			GMV-450WM/H-X	GMV-504WM/H-X	GMV-560WM/H-X	GMV-615WM/H-X
Capacity range	HP		16	18	20	22
Cooling capacity	Rated *	kW	45.0	50.4	52.0	52.0
	Max.	kW	45.0	50.4	56.0	56.0
Heating capacity	Rated *	kW	45.0	50.4	56.0	61.5
	Max.	kW	50.0	56.5	63.0	69.0
SEER	Ducted *	-	6.24	6.12	5.97	6.02
	Cassette *	-	6.41	6.44	5.67	5.75
SCOP	Ducted *	-	4.84	4.19	4.10	4.10
	Cassette *	-	4.44	3.71	3.71	3.71
Power supply	V/Ph/Hz		380-415V 3N~ 50/60Hz			
Min. circuit/Max. fuse current	A		39.3/40	47.0/50	48.0/50	49.0/50
Max. power input	kW		22.00	26.30	26.85	27.41
Maximum drive IDU NO.	unit		26	29	33	36
Refrigerant charge volume	kg		7.5	8.3	8.3	8.3
Sound pressure level (cooling)	dB(A)		60	61	62	63
Sound power level (cooling)	Ducted *	dB(A)	93	93	93	93
	Cassette *	dB(A)	93	88	94	94
Connecting pipe	Liquid	mm	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Dimension(W × D × H)	Outline	mm	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg		300/315	350/365	350/365	355/370
Loading quantity	20' GP	unit	10	10	10	10
	40' GP	unit	22	22	22	22
	40' HQ	unit	22	22	22	22

Note: The data is Eurovent certified.

Model			GMV-450WM/H1-X	GMV-504WM/H1-X	GMV-560WM/H1-X	GMV-615WM/H1-X
Capacity range	HP		16	18	20	22
Cooling capacity	Rated *	kW	45.0	50.4	52.0	52.0
	Max.	kW	45.0	50.4	56.0	61.5
Heating capacity	Rated *	kW	45.0	50.4	56.0	56.0
	Max.	kW	50.0	56.5	63.0	69.0
SEER	Ducted *	-	6.24	6.12	5.97	6.02
	Cassette *	-	6.41	6.44	5.67	5.75
SCOP	Ducted *	-	4.84	4.19	4.10	4.10
	Cassette *	-	4.44	3.71	3.71	3.71
Power supply	V/Ph/Hz		380-415V 3N~ 50/60Hz			
Min. circuit/Max. fuse current	A		39.3/40	47.0/50	48.0/50	49.0/50
Max. power input	kW		22.00	26.30	26.85	27.41
Maximum drive IDU NO.	unit		26	29	33	36
Refrigerant charge volume	kg		7.5	8.3	8.3	8.3
Sound pressure level (cooling)	dB(A)		60	61	62	63
Sound power level (cooling)	Ducted *	dB(A)	93	93	93	93
	Cassette *	dB(A)	93	88	94	94
Connecting pipe	Liquid	mm	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Dimension(W × D × H)	Outline	mm	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg		300/315	350/365	350/365	355/370
Loading quantity	20' GP	unit	10	10	10	10
	40' GP	unit	22	22	22	22
	40' HQ	unit	22	22	22	22

Note: The data is Eurovent certified.

## GMV6 ( 380-415V 3N~50/60Hz)



Model		GMV-224WM/G-X	GMV-280WM/G-X	GMV-335WM/G-X	GMV-400WM/G-X	GMV-450WM/G-X	
Capacity range	HP	8	10	12	14	16	
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0
EER	W/W	4.78	4.52	4.35	4.35	4.17	
COP	W/W	5.50	5.34	4.81	4.74	4.67	
Power supply	V/Ph/Hz	380-415V 3N~ 50/60Hz					
Min. circuit/Max. fuse current	A	23.0/25	23.5/25	24.1/25	32.5/40	33.5/40	
Max. power input	kW	12.87	13.15	13.50	18.18	18.74	
Power consumption	Cooling	kW	4.69	6.20	7.70	9.20	10.80
	Heating	kW	4.55	5.90	7.80	9.50	10.70
Maximum drive IDU NO.	unit	13	16	19	23	26	
Refrigerant charge volume	kg	5.5	5.5	5.7	7.0	7.5	
Sound pressure level	dB(A)	56	57	59	59	60	
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	
Dimension (W × D × H)	Outline	mm	930 × 775 × 1690	930 × 775 × 1690	930 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1000 × 830 × 1855	1000 × 830 × 1855	1000 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg	215/225	215/225	220/230	290/305	290/305	
Loading quantity	40' GP	unit	28	28	28	22	22
	40' HQ	unit	28	28	28	22	22

Model		GMV-504WM/G-X	GMV-560WM/G-X	GMV-615WM/G-X	GMV-680WM/G-X	
Capacity range	HP	18	20	22	24	
Capacity	Cooling	kW	50.4	56.0	61.5	68.0
	Heating	kW	56.5	63.0	69.0	76.5
EER	W/W	4.10	4.06	3.80	3.32	
COP	W/W	4.38	4.34	4.08	3.81	
Power supply	V/Ph/Hz	380-415V 3N~ 50/60Hz				
Min. circuit/Max. fuse current	A	47.0/50	48.0/50	49.0/50	49.0/50	
Max. power input	kW	26.30	26.85	27.41	27.41	
Power consumption	Cooling	kW	12.30	13.80	16.20	20.50
	Heating	kW	12.90	14.52	16.90	20.10
Maximum drive IDU NO.	unit	29	33	36	39	
Refrigerant charge volume	kg	8.0	8.0	8.3	8.3	
Sound pressure level	dB(A)	61	62	63	64	
Connecting pipe	Liquid	mm	Φ15.9	Φ15.9	Φ15.9	
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	
Dimension (W × D × H)	Outline	mm	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg	295/310	350/365	350/365	355/370	
Loading quantity	40' GP	unit	22	22	22	22
	40' HQ	unit	22	22	22	22

## GMV6 ( 208/230V 3~60Hz)



Model		GMV-224WM/G-F	GMV-280WM/G-F	GMV-335WM/G-F	GMV-400WM/G-F	
Capacity range	HP	8	10	12	14	
Capacity	Cooling	kW	22.4	28.0	33.5	40.0
	Heating	kW	25.0	31.5	37.5	45.0
EER	kW/kW	5.25	5.11	4.70	4.65	
COP	kW/kW	5.68	5.25	4.87	4.81	
Power supply	V/Ph/Hz	208/230V 3~ 60Hz				
Min. circuit/Max. fuse current	A	29.9/35	38.8/40	43.6/50	50.3/60	
Max. power input	kW	13.34	14.39	14.84	17.30	
Power consumption	Cooling	kW	4.27	5.48	7.13	8.60
	Heating	kW	4.40	6.00	7.70	9.36
Maximum drive IDU NO.	unit	13	16	19	23	
Refrigerant charge volume	kg	5.5	5.5	5.7	7.0	
Sound pressure level	dB(A)	58	59	61	61	
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	
Dimension (W × D × H)	Outline	mm	930 × 775 × 1690	930 × 775 × 1690	930 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1000 × 830 × 1855	1000 × 830 × 1855	1000 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg	219/229	219/229	224/234	307/320	
Loading quantity	40' GP	set	28	28	28	22
	40' HQ	set	28	28	28	22

Model		GMV-450WM/G-F	GMV-504WM/G-F	GMV-560WM/G-F	GMV-615WM/G-F	GMV-680WM/G-F	
Capacity range	HP	16	18	20	22	24	
Capacity	Cooling	kW	45.0	50.4	56.0	61.5	68.0
	Heating	kW	50.0	56.5	63.0	69.0	76.5
EER	kW/kW	4.46	4.24	4.15	3.89	3.51	
COP	kW/kW	4.46	4.15	4.10	4.08	3.92	
Power supply	V/Ph/Hz	208/230V 3~ 60Hz					
Min. circuit/Max. fuse current	A	51.2/60	53.9/60	89.4/100	90.0/100	91.3/100	
Max. power input	kW	18.90	19.40	23.80	25.50	28.50	
Power consumption	Cooling	kW	10.10	11.90	13.50	15.80	19.40
	Heating	kW	11.20	13.60	15.35	16.90	19.50
Maximum drive IDU NO.	unit	26	29	33	36	39	
Refrigerant charge volume	kg	7.5	8.0	8.0	8.3	8.3	
Sound pressure level	dB(A)	62	63	64	65	66	
Connecting pipe	Liquid	mm	Φ12.7	Φ15.9	Φ15.9	Φ15.9	
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	
Dimension (W × D × H)	Outline	mm	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	
	Package	mm	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	
Net weight/Gross weight	kg	307/320	312/325	355/368	355/368	360/373	
Loading quantity	40' GP	set	22	22	22	22	
	40' HQ	set	22	22	22	22	

# ODU Combination Lineup



## GMV6 (440-460V 3~60Hz)

Model			GMV-224WM/G-U	GMV-280WM/G-U	GMV-335WM/G-U	GMV-400WM/G-U
Capacity range	HP		8	10	12	14
Capacity	Cooling	kW	22.4	28.0	33.5	40.0
	Heating	kW	25.0	31.5	37.5	45.0
EER	kW/kW		5.25	5.11	4.70	4.65
COP	kW/kW		5.68	5.25	4.87	4.81
Power supply	V/Ph/Hz		440-460V 3~ 60Hz			
Min. circuit/Max. fuse current	A		19.6/25	20.0/25	21.0/30	23.9/30
Max. power input	kW		13.34	14.39	14.84	17.30
Power consumption	Cooling	kW	4.27	5.48	7.13	8.60
	Heating	kW	4.40	6.00	7.70	9.36
Maximum drive IDU NO.	unit		13	16	19	23
Refrigerant charge volume	kg		5.5	5.5	5.7	7.0
Sound pressure level	dB(A)		58	59	61	61
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Dimension (W × D × H)	Outline	mm	930 × 775 × 1690	930 × 775 × 1690	930 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1000 × 830 × 1855	1000 × 830 × 1855	1000 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg		230/240	230/240	235/245	295/310
Loading quantity	40' GP	set	28	28	28	22
	40' HQ	set	28	28	28	22

Model			GMV-450WM/G-U	GMV-504WM/G-U	GMV-560WM/G-U	GMV-615WM/G-U	GMV-680WM/G-U
Capacity range	HP		16	18	20	22	24
Capacity	Cooling	kW	45.0	50.4	56.0	61.5	68.0
	Heating	kW	50.0	56.5	63.0	69.0	76.5
EER	kW/kW		4.46	4.24	4.15	3.89	3.51
COP	kW/kW		4.46	4.15	4.10	4.08	3.92
Power supply	V/Ph/Hz		440-460V 3~ 60Hz				
Min. circuit/Max. fuse current	A		24.2/30	25.0/30	36.2/40	38.0/40	40.9/45
Max. power input	kW		18.90	19.40	23.80	25.50	28.50
Power consumption	Cooling	kW	10.10	11.90	13.50	15.80	19.40
	Heating	kW	11.20	13.60	15.35	16.90	19.50
Maximum drive IDU NO.	unit		26	29	33	36	39
Refrigerant charge volume	kg		7.5	8.0	8.0	8.3	8.3
Sound pressure level	dB(A)		62	63	64	65	66
Connecting pipe	Liquid	mm	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Dimension (W × D × H)	Outline	mm	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg		295/310	300/315	355/370	355/370	360/375
Loading quantity	40' GP	set	22	22	22	22	22
	40' HQ	set	22	22	22	22	22

# ODU Combination Lineup

## GMV6 (380-415V 3N~50/60Hz)

HP	Model	GMV-224WM/H-X	GMV-280WM/H-X	GMV-335WM/H-X	GMV-400WM/H-X	GMV-450WM/H-X	GMV-504WM/H-X	GMV-560WM/H-X	GMV-615WM/H-X
8	GMV-224WM/H-X	●							
10	GMV-280WM/H-X		●						
12	GMV-335WM/H-X			●					
14	GMV-400WM/H-X				●				
16	GMV-450WM/H-X					●			
18	GMV-504WM/H-X						●		
20	GMV-560WM/H-X							●	
22	GMV-615WM/H-X								●
24	GMV-680WM/H-X		●		●				
26	GMV-730WM/H-X		●			●			
28	GMV-784WM/H-X		●				●		
30	GMV-840WM/H-X		●					●	
32	GMV-895WM/H-X		●						●
34	GMV-950WM/H-X			●					●
36	GMV-1015WM/H-X				●				●
38	GMV-1065WM/H-X					●			●
40	GMV-1119WM/H-X						●		●
42	GMV-1175WM/H-X							●	●
44	GMV-1230WM/H-X								●●
46	GMV-1290WM/H-X		●			●		●	
48	GMV-1345WM/H-X		●			●			●
50	GMV-1400WM/H-X			●		●			●
52	GMV-1455WM/H-X		●					●	●
54	GMV-1510WM/H-X		●						●●
56	GMV-1565WM/H-X			●					●●
58	GMV-1630WM/H-X				●				●●
60	GMV-1680WM/H-X					●			●●
62	GMV-1734WM/H-X						●		●●
64	GMV-1790WM/H-X							●	●●
66	GMV-1845WM/H-X								●●●
68	GMV-1905WM/H-X		●			●		●	●
70	GMV-1959WM/H-X		●				●	●	●
72	GMV-2015WM/H-X		●					●●	●
74	GMV-2070WM/H-X		●					●	●●
76	GMV-2125WM/H-X		●						●●●
78	GMV-2180WM/H-X			●					●●●
80	GMV-2245WM/H-X				●				●●●
82	GMV-2295WM/H-X					●			●●●
84	GMV-2349WM/H-X						●		●●●
86	GMV-2405WM/H-X							●	●●●
88	GMV-2460WM/H-X								●●●●

Note: The combinations of anticorrosion models GMV-\*\*\*WM/H1-X are the same as above.

# ODU Combination Lineup

# ODU Combination Lineup

## GMV6 ( 380-415V 3N~50/60Hz )

HP	Model	GMV-224WM/ G-X	GMV-280WM/ G-X	GMV-335WM/ G-X	GMV-400WM/ G-X	GMV-450WM/ G-X	GMV-504WM/ G-X	GMV-560WM/ G-X	GMV-615WM/ G-X	GMV-680WM/ G-X
8	GMV-224WM/G-X	●								
10	GMV-280WM/G-X		●							
12	GMV-335WM/G-X			●						
14	GMV-400WM/G-X				●					
16	GMV-450WM/G-X					●				
18	GMV-504WM/G-X						●			
20	GMV-560WM/G-X							●		
22	GMV-615WM/G-X								●	
24	GMV-680WM/G-X									●
26	GMV-735WM/G-X			●	●					
28	GMV-785WM/G-X			●		●				
30	GMV-839WM/G-X			●			●			
32	GMV-895WM/G-X		●						●	
34	GMV-950WM/G-X			●					●	
36	GMV-1015WM/G-X				●				●	
38	GMV-1064WM/G-X						●	●		
40	GMV-1119WM/G-X						●		●	
42	GMV-1175WM/G-X							●	●	
44	GMV-1230WM/G-X							●●		
46	GMV-1295WM/G-X							●		●
48	GMV-1360WM/G-X									●●
50	GMV-1399WM/G-X			●			●	●		
52	GMV-1455WM/G-X		●					●	●	
54	GMV-1510WM/G-X		●						●●	
56	GMV-1565WM/G-X			●					●●	
58	GMV-1623WM/G-X						●●		●	
60	GMV-1679WM/G-X						●	●	●	
62	GMV-1734WM/G-X						●		●●	
64	GMV-1790WM/G-X							●	●●	
66	GMV-1845WM/G-X								●●●	
68	GMV-1910WM/G-X								●●	●
70	GMV-1975WM/G-X								●	●●
72	GMV-2040WM/G-X									●●●
74	GMV-2069WM/G-X			●			●		●●	
76	GMV-2129WM/G-X					●	●	●	●	
78	GMV-2190WM/G-X				●			●	●●	
80	GMV-2245WM/G-X				●				●●●	
82	GMV-2295WM/G-X						●●●		●	
84	GMV-2350WM/G-X						●●		●●	
86	GMV-2414WM/G-X						●		●●	●
88	GMV-2470WM/G-X							●	●●	●
90	GMV-2525WM/G-X								●●●	●
92	GMV-2590WM/G-X								●●	●●
94	GMV-2655WM/G-X								●	●●●
96	GMV-2720WM/G-X									●●●●

## GMV6 ( 208/230V 3~60Hz )

HP	Model	GMV-224WM/ G-F	GMV-280WM/ G-F	GMV-335WM/ G-F	GMV-400WM/ G-F	GMV-450WM/ G-F	GMV-504WM/ G-F	GMV-560WM/ G-F	GMV-615WM/ G-F	GMV-680WM/ G-F
8	GMV-224WM/G-F	●								
10	GMV-280WM/G-F		●							
12	GMV-335WM/G-F			●						
14	GMV-400WM/G-F				●					
16	GMV-450WM/G-F					●				
18	GMV-504WM/G-F						●			
20	GMV-560WM/G-F							●		
22	GMV-615WM/G-F								●	
24	GMV-680WM/G-F									●
26	GMV-735WM/G-F			●	●					
28	GMV-785WM/G-F			●		●				
30	GMV-839WM/G-F			●			●			
32	GMV-895WM/G-F		●						●	
34	GMV-950WM/G-F			●					●	
36	GMV-1015WM/G-F				●				●	
38	GMV-1064WM/G-F						●	●		
40	GMV-1119WM/G-F						●		●	
42	GMV-1175WM/G-F							●	●	
44	GMV-1230WM/G-F								●●	
46	GMV-1295WM/G-F								●	●
48	GMV-1360WM/G-F									●●
50	GMV-1399WM/G-F			●			●	●		
52	GMV-1455WM/G-F		●					●	●	
54	GMV-1510WM/G-F		●						●●	
56	GMV-1565WM/G-F			●					●●	
58	GMV-1623WM/G-F						●●		●	
60	GMV-1679WM/G-F						●	●	●	
62	GMV-1734WM/G-F						●		●●	
64	GMV-1790WM/G-F							●	●●	
66	GMV-1845WM/G-F								●●●	
68	GMV-1910WM/G-F								●●	●
70	GMV-1975WM/G-F								●	●●
72	GMV-2040WM/G-F									●●●
74	GMV-2069WM/G-F			●			●		●●	
76	GMV-2129WM/G-F					●	●	●	●	
78	GMV-2190WM/G-F				●			●	●●	
80	GMV-2245WM/G-F				●				●●●	
82	GMV-2295WM/G-F						●●●		●	
84	GMV-2350WM/G-F						●●		●●	
86	GMV-2414WM/G-F						●		●●	●
88	GMV-2470WM/G-F							●	●●	●
90	GMV-2525WM/G-F								●●●	●
92	GMV-2590WM/G-F								●●	●●
94	GMV-2655WM/G-F								●	●●●
96	GMV-2720WM/G-F									●●●●



# ODU Combination Specifications

# ODU Combination Specifications

## GMV6 (440-460V 3~60Hz)

HP	Model	GMV-224WM/G-U	GMV-280WM/G-U	GMV-335WM/G-U	GMV-400WM/G-U	GMV-450WM/G-U	GMV-504WM/G-U	GMV-560WM/G-U	GMV-615WM/G-U	GMV-680WM/G-U
8	GMV-224WM/G-U	●								
10	GMV-280WM/G-U		●							
12	GMV-335WM/G-U			●						
14	GMV-400WM/G-U				●					
16	GMV-450WM/G-U					●				
18	GMV-504WM/G-U						●			
20	GMV-560WM/G-U							●		
22	GMV-615WM/G-U								●	
24	GMV-680WM/G-U									●
26	GMV-735WM/G-U			●	●					
28	GMV-785WM/G-U			●		●				
30	GMV-839WM/G-U			●			●			
32	GMV-895WM/G-U		●					●		
34	GMV-950WM/G-U			●				●		
36	GMV-1015WM/G-U				●			●		
38	GMV-1064WM/G-U						●	●		
40	GMV-1119WM/G-U						●	●		
42	GMV-1175WM/G-U							●	●	
44	GMV-1230WM/G-U							●●		
46	GMV-1295WM/G-U							●	●	
48	GMV-1360WM/G-U								●●	
50	GMV-1399WM/G-U			●			●	●		
52	GMV-1455WM/G-U		●					●	●	
54	GMV-1510WM/G-U		●					●●	●●	
56	GMV-1565WM/G-U			●				●●	●●	
58	GMV-1623WM/G-U						●●	●	●	
60	GMV-1679WM/G-U						●	●	●	
62	GMV-1734WM/G-U						●	●●	●●	
64	GMV-1790WM/G-U							●	●●	
66	GMV-1845WM/G-U							●●	●●●	
68	GMV-1910WM/G-U							●●	●●	●
70	GMV-1975WM/G-U							●	●●	●●
72	GMV-2040WM/G-U								●●	●●●
74	GMV-2069WM/G-U			●			●	●●		
76	GMV-2129WM/G-U					●	●	●	●	
78	GMV-2190WM/G-U				●			●	●●	
80	GMV-2245WM/G-U				●			●●	●●●	
82	GMV-2295WM/G-U						●●●	●		
84	GMV-2350WM/G-U						●●	●●		
86	GMV-2414WM/G-U					●		●●	●	
88	GMV-2470WM/G-U						●	●●	●	
90	GMV-2525WM/G-U							●●●	●	
92	GMV-2590WM/G-U							●●	●●	●●
94	GMV-2655WM/G-U							●	●●●	●●●
96	GMV-2720WM/G-U								●●●●	●●●●

## GMV6 (380-415V 3N~50/60Hz)

HP	Model	Power Supply	Capacity		Dimension (W × D × H)	Airflow Volume	ESP	Connecting pipe		Min. circuit current	Max. fuse current	Net weight
			Cooling capacity	Heating capacity				Liquid	Gas			
			kW	kW	mm	m³/h	Pa	mm	mm	A	A	kg
24	GMV-680WM/H-X	380-415V 3N~ 50/60Hz	68.0	76.5	930 × 775 × 1690 +1340 × 775 × 1690	10500+13500	110	Φ15.9	Φ28.6	23.5+37.5	25+40	220+300
26	GMV-730WM/H-X		73.0	81.5	930 × 775 × 1690 +1340 × 775 × 1690	10500+15400	110	Φ19.05	Φ31.8	23.5+39.3	25+40	220+300
28	GMV-784WM/H-X		78.4	88.0	930 × 775 × 1690 +1340 × 775 × 1690	10500+16000	110	Φ19.05	Φ31.8	23.5+47	25+50	220+350
30	GMV-840WM/H-X		84.0	94.5	930 × 775 × 1690 +1340 × 775 × 1690	10500+16500	110	Φ19.05	Φ31.8	23.5+48	25+50	220+350
32	GMV-895WM/H-X		89.5	100.5	930 × 775 × 1690 +1340 × 775 × 1690	10500+16500	110	Φ19.05	Φ31.8	23.5+49	25+50	220+355
34	GMV-950WM/H-X		95.0	106.5	930 × 775 × 1690 +1340 × 775 × 1690	11100+16500	110	Φ19.05	Φ31.8	24.1+49	25+50	240+355
36	GMV-1015WM/H-X		101.5	114.0	(1340 × 775 × 1690) × 2	13500+16500	110	Φ19.05	Φ38.1	37.5+49	40+50	300+355
38	GMV-1065WM/H-X		106.5	119.0	(1340 × 775 × 1690) × 2	15400+16500	110	Φ19.05	Φ38.1	39.3+49	40+50	300+355
40	GMV-1119WM/H-X		111.9	125.5	(1340 × 775 × 1690) × 2	16000+16500	110	Φ19.05	Φ38.1	47+49	50+50	350+355
42	GMV-1175WM/H-X		117.5	132.0	(1340 × 775 × 1690) × 2	16500 × 2	110	Φ19.05	Φ38.1	48+49	50+50	350+355
44	GMV-1230WM/H-X		123.0	138.0	(1340 × 775 × 1690) × 2	16500 × 2	110	Φ19.05	Φ38.1	49+49	50+50	355 × 2
46	GMV-1290WM/H-X		129.0	144.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 2	10500+ 15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+48	25+40+50	220+300+350
48	GMV-1345WM/H-X		134.5	150.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 2	10500+ 15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+49	25+40+50	220+300+355
50	GMV-1400WM/H-X		140.0	156.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 2	11100+ 15400+16500	110	Φ19.05	Φ41.3	24.1+39.3+49	25+40+50	240+300+355
52	GMV-1455WM/H-X		145.5	163.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 2	10500+16500 × 2	110	Φ19.05	Φ41.3	23.5+48+49	25+50+50	220+350+355
54	GMV-1510WM/H-X		151.0	169.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 2	10500+16500 × 2	110	Φ19.05	Φ41.3	23.5+49+49	25+50+50	220+355 × 2
56	GMV-1565WM/H-X		156.5	175.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 2	11100+16500 × 2	110	Φ19.05	Φ41.3	24.1+49+49	25+50+50	240+355 × 2
58	GMV-1630WM/H-X		163.0	183.0	(1340 × 775 × 1690) × 3	13500+16500 × 2	110	Φ19.05	Φ41.3	37.5+49+49	40+50+50	300+355 × 2
60	GMV-1680WM/H-X		168.0	188.0	(1340 × 775 × 1690) × 3	15400+16500 × 2	110	Φ19.05	Φ41.3	39.3+49+49	40+50+50	300+355 × 2
62	GMV-1734WM/H-X		173.4	194.5	(1340 × 775 × 1690) × 3	16000+16500 × 2	110	Φ19.05	Φ41.3	47+49+49	50+50+50	350+355 × 2
64	GMV-1790WM/H-X		179.0	201.0	(1340 × 775 × 1690) × 3	16500 × 3	110	Φ19.05	Φ41.3	48+49+49	50+50+50	350+355 × 2
66	GMV-1845WM/H-X		184.5	207.0	(1340 × 775 × 1690) × 3	16500 × 3	110	Φ19.05	Φ41.3	49+49+49	50+50+50	355 × 3
68	GMV-1905WM/H-X		190.5	213.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 3	10500+15400 +16500 × 2	110	Φ22.2	Φ44.5	23.5+39.3+48+49	25+40+50+50	220+300+350+355
70	GMV-1959WM/H-X		195.9	220.0	930 × 775 × 1690+ (1340 × 775 × 1690) × 3	10500+16000 +16500 × 2	110	Φ22.2	Φ44.5	23.5+47+48+49	25+50+50+50	220+350 × 2+355
72	GMV-2015WM/H-X	201.5	226.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 3	10500+16500 × 3	110	Φ22.2	Φ44.5	23.5+48+48+49	25+50+50+50	220+350 × 2+355	
74	GMV-2070WM/H-X	207.0	232.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 3	10500+16500 × 3	110	Φ22.2	Φ44.5	23.5+48+49+49	25+50+50+50	220+350+355 × 2	
76	GMV-2125WM/H-X	212.5	238.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 3	10500+16500 × 3	110	Φ22.2	Φ44.5	23.5+49+49+49	25+50+50+50	220+355 × 3	
78	GMV-2180WM/H-X	218.0	244.5	930 × 775 × 1690+ (1340 × 775 × 1690) × 3	11100+16500 × 3	110	Φ22.2	Φ44.5	24.1+49+49+49	25+50+50+50	240+355 × 3	
80	GMV-2245WM/H-X	224.5	252.0	(1340 × 775 × 1690) × 4	13500+16500 × 3	110	Φ22.2	Φ44.5	37.5+49+49+49	40+50+50+50	300+355 × 3	
82	GMV-2295WM/H-X	229.5	257.0	(1340 × 775 × 1690) × 4	15400+16500 × 3	110	Φ22.2	Φ44.5	39.3+49+49+49	40+50+50+50	300+355 × 3	
84	GMV-2349WM/H-X	234.9	263.5	(1340 × 775 × 1690) × 4	16000+16500 × 3	110	Φ22.2	Φ44.5	47+49+49+49	50+50+50+50	350+355 × 3	
86	GMV-2405WM/H-X	240.5	270.0	(1340 × 775 × 1690) × 4	16500 × 4	110	Φ22.2	Φ44.5	48+49+49+49	50+50+50+50	350+355 × 3	
88	GMV-2460WM/H-X	246.0	276.0	(1340 × 775 × 1690) × 4	16500 × 4	110	Φ22.2	Φ44.5	49+49+49+49	50+50+50+50	355 × 4	





# Everything is in GMV6 Heat Recovery

## GMV6 HR



# Why Choose VRF Heat Recovery System

## Demand

In a large open space (such as an office), there may be different demands for cooling and heating due to locations, personal preferences or special requirements (For example, the living area requires heating while the storage room requires constant cooling). The heat recovery system can set up cooling and heating simultaneously in different areas of the same system based on user demands.



## Energy Saving

The heat recovery system has multiple operating modes, among which the main unit cooling, main unit heating and total heat recovery can realize the heat recovery function. Under heat recovery mode, the system will provide the cooling energy absorbed by the heating side directly to the cooling side, which can reduce the capacity output of the outdoor unit and greatly improve the energy saving effect. Under total heat recovery mode, the system can achieve the optimal energy-saving performance and the energy efficiency of the system will be 3~4 times higher compared to other conventional operating modes.

## Flexible

The heat recovery system is designed to have the features of a heat pump system with unique heat recovery function. It can run in cooling, heating or other operating modes flexibly according to a specific installation location, environmental changes and comfort requirements, so as to meet user demands in real time.

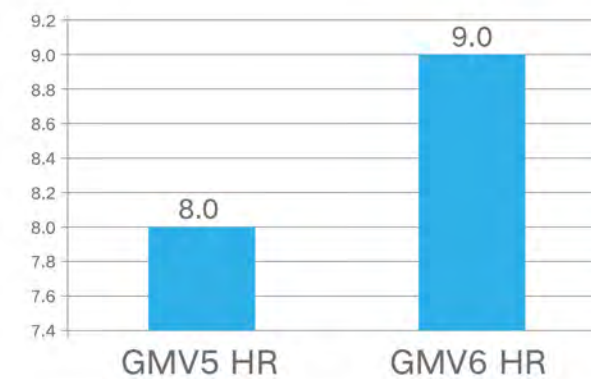
## Multiple Functions in One Unit

This unit can perform air cooling, air heating, and water heating simultaneously, satisfying customers' various needs for air conditioning, hot water and floor heating. It is a comprehensive solution for customers.



## High Energy Efficiency – SCHE up to 9.0

It adopts heat recovery energy-saving control technology, high-efficiency enthalpy-adding DC inverter compressor and high-efficiency DC motor to optimize its capabilities. In the state of heat recovery, its comprehensive energy efficiency (SCHE\*) can be 9.0, which is more energy-saving.



SCHE  
↑  
**12.5%**

\*SCHE (Simultaneous Cooling & Heating Efficiency): the ratio of the total capacity of the system (heating and cooling capacity) to the effective power when operating in heat recovery mode.

# Continuous Heating

GMV6 HR is designed with a continuous heating system. In case of modular combination, different modules can defrost in turn to reduce indoor temperature fluctuation, which will further improve the level of heating comfort.



# Clean and Healthy Fresh Air

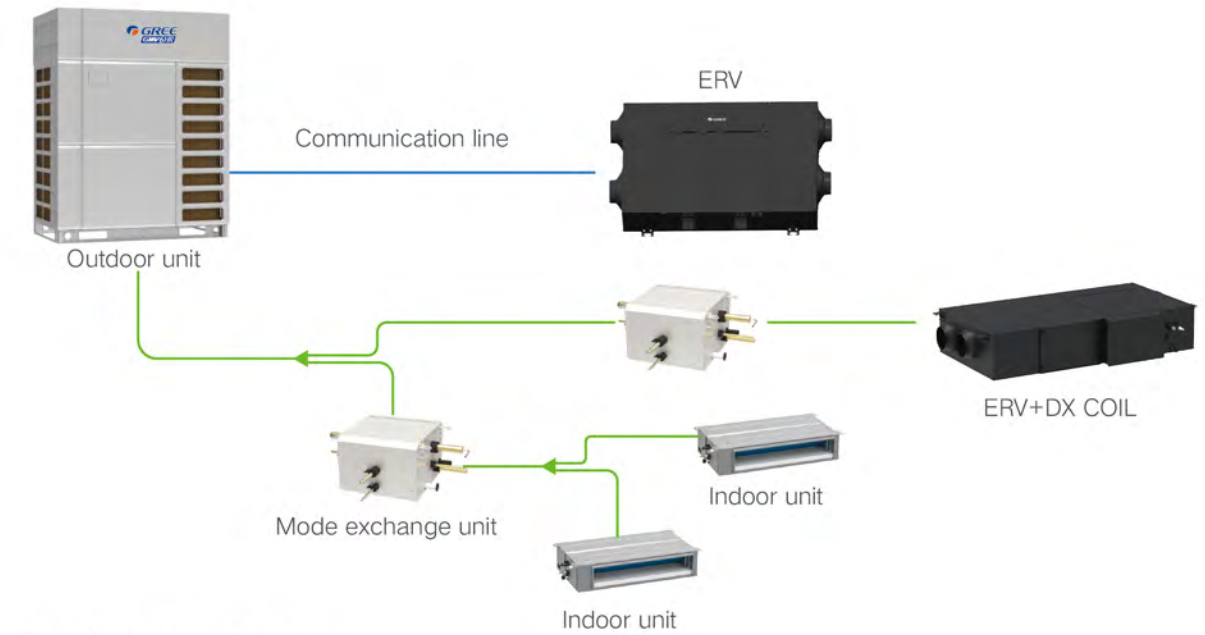
## Fresh Air System

GMV6 HR can cooperate with the VRF fresh air unit so that the air conditioning system and the fresh air system are combined as a whole. The fresh air unit will share some of the fresh air load to satisfy different demands for indoor fresh air supply.



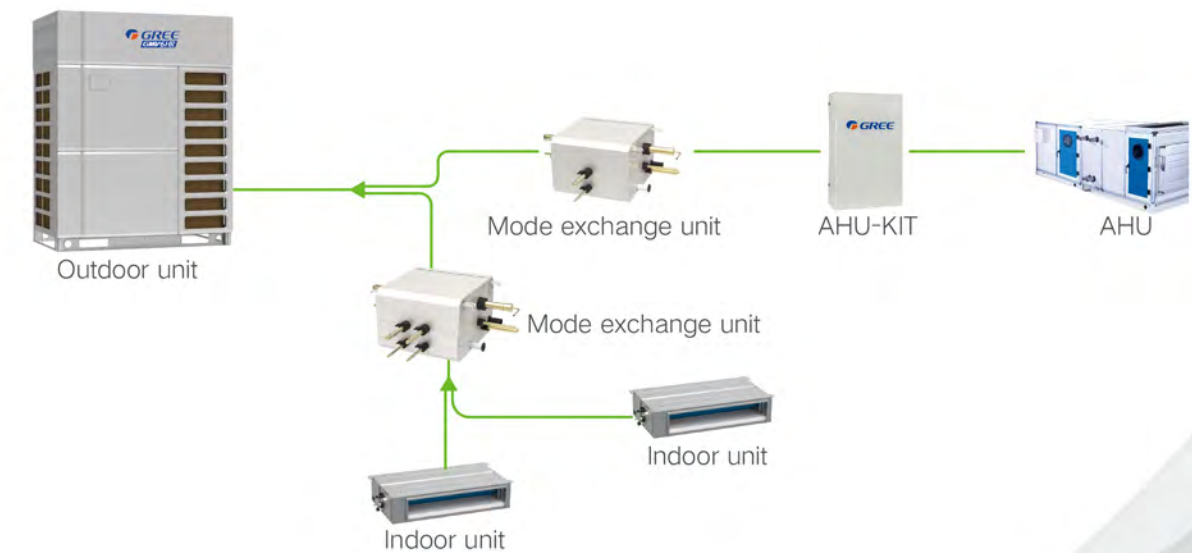
## ERV System

GMV6 HR system can connect to ERV and ERV+DX COIL, which can realize air conditioning with fresh air ventilation.



## Purification System

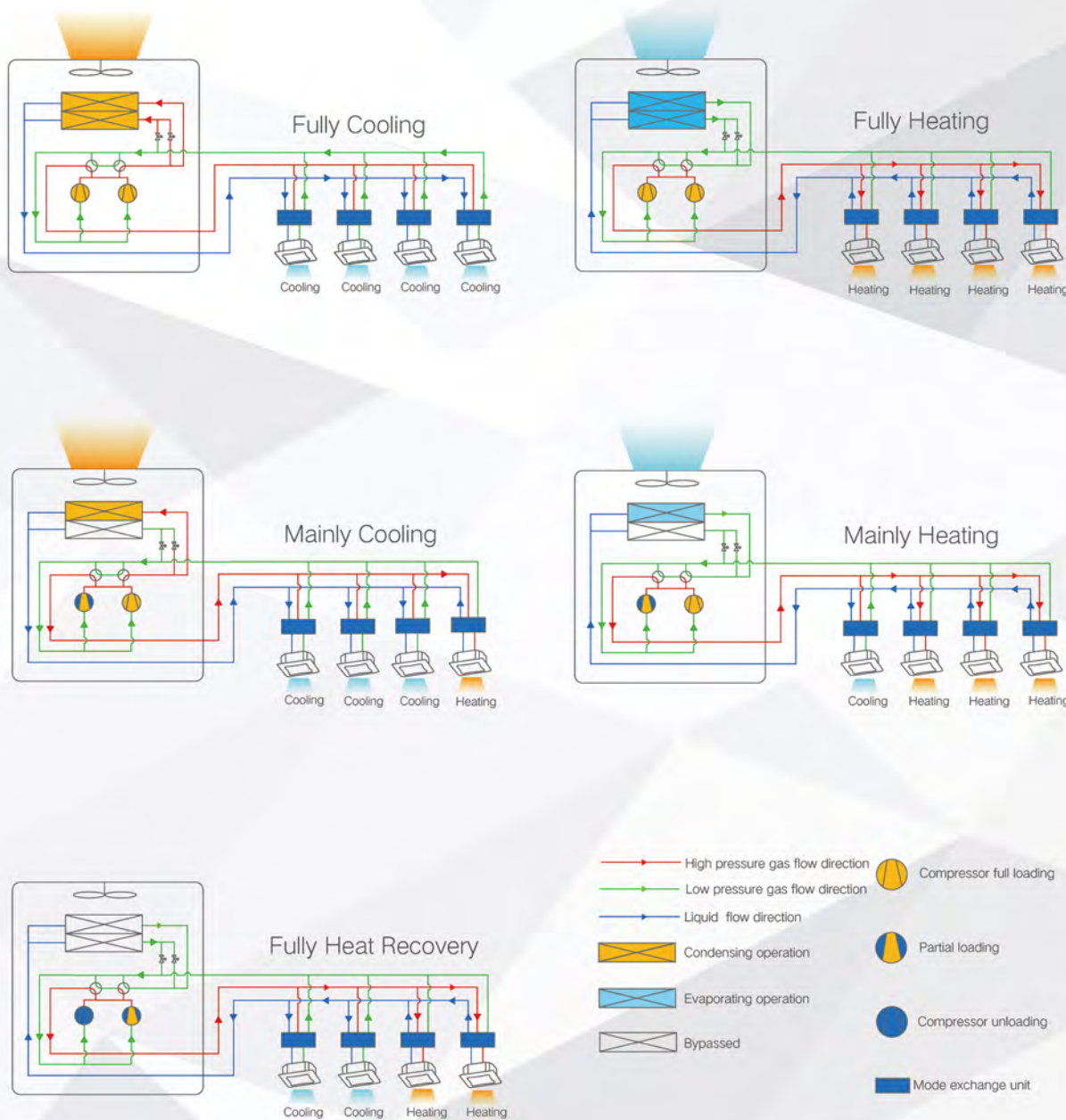
Gree DX AHU (direct-expansion air handling unit) can be connected to Gree VRF system, so that the air handling unit is with the functions of the VRF system and can meet the cooling/heating requirement in large places. This air handling unit can be equipped with purification devices with various filter grades to meet the purification requirements in different applications.



# High Energy Efficiency

## Five Operating Modes

GMV6 heat recovery system enables multiple operation modes for meeting various needs of users. Among them, mainly cooling, mainly heating and fully heat recovery modes include heat recovery function. Under the heat recovery mode, the system can directly offer the cooling capacity absorbed at the heating side to the cooling side for reducing outdoor unit's capacity output to greatly improve the energy-saving effect.



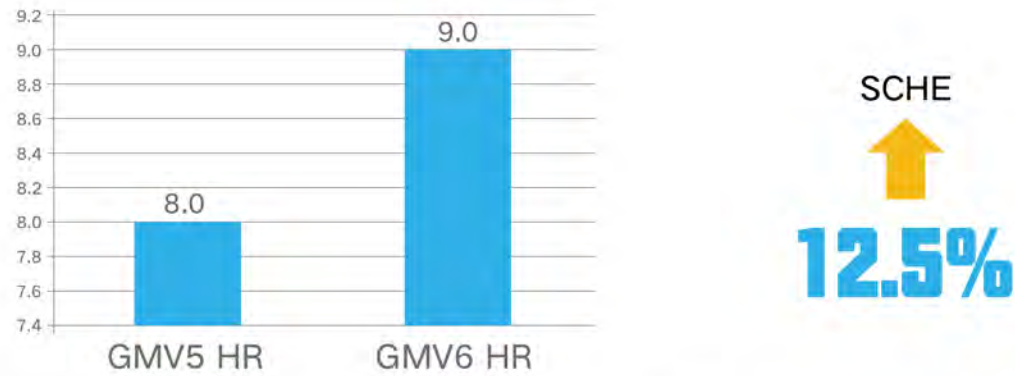
Low-temperature enthalpy-adding compressor is developed according to the features of VRF units. With a regulation range of 0-420Hz, it can perfectly coordinate with the machine so as to excel the performance to the greatest extent.

Dual EEV enthalpy-adding control: Compressor enthalpy increase can be controlled flexibly to realize the maximum enthalpy increase.



### SCHE up to 9.0

It adopts heat recovery energy-saving control technology, high-efficiency enthalpy-adding DC inverter compressor and high-efficiency DC motor to optimize its capabilities. In the state of heat recovery, its comprehensive energy efficiency (SCHE\*) can be 9.0, which is more energy-saving.



\*SCHE (Simultaneous Cooling & Heating Efficiency): The ratio of the total capacity of the system (heating and cooling capacity) to the effective power when operating in heat recovery mode.

### G-shape Integrated Heat Exchanger

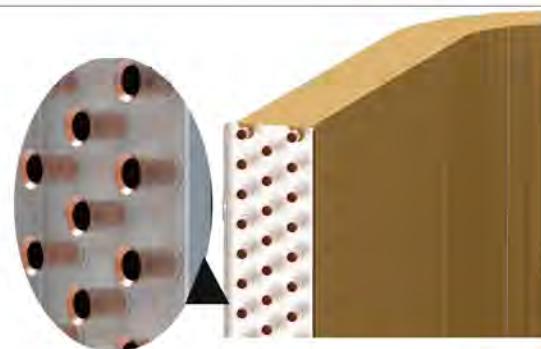


Molded at one time, the G-shape integrated heat exchanger can improve space utilization, and increase heat exchanger area and heat exchange efficiency.

\*Note: Applicable for some models.

### Multi-row Small Diameter Design

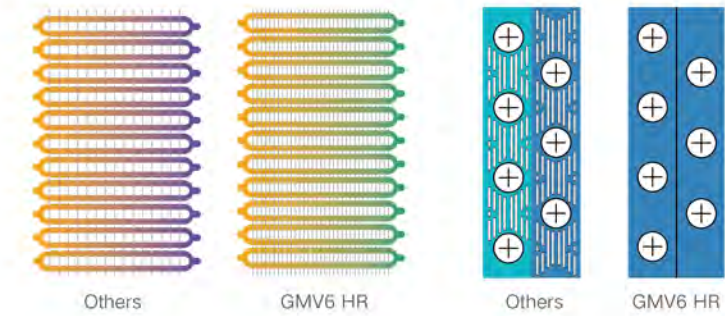
The refrigerant pipe adopts  $\varnothing 7\text{mm}$  and 3-row design, which can reduce the flowing resistance of refrigerant inside the pipe and effectively increase the heat exchange area of refrigerant, so as to optimize and improve the heat exchange efficiency.



\*Note: Applicable for some models.

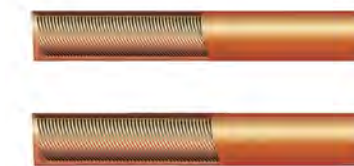
### Small Pitch Corrugated Heat Exchanger Fins

Small pitch corrugated fins are used to increase the effective area between fins and the air, for more sufficient heat exchange of refrigerant and higher heat exchange efficiency.



### Internal Screw Thread Design of Copper Tube

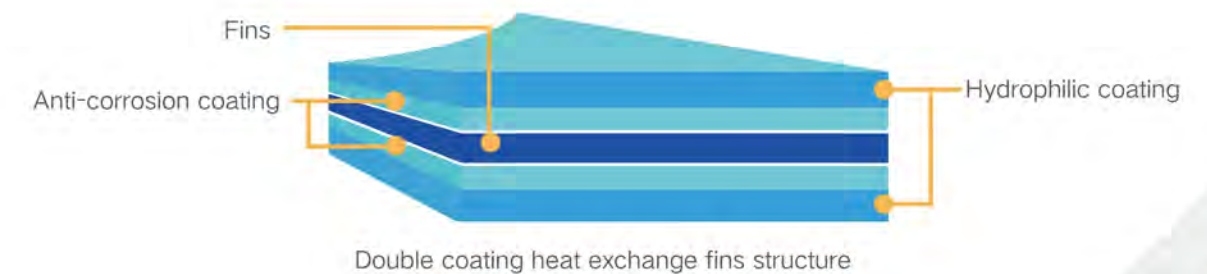
The refrigerant pipe adopts internal screw thread design to increase the contact area with the refrigerant, optimize the turbulent state of refrigerant flow and improve the heat exchange efficiency.



Internal screw thread high-efficiency heat exchange tube

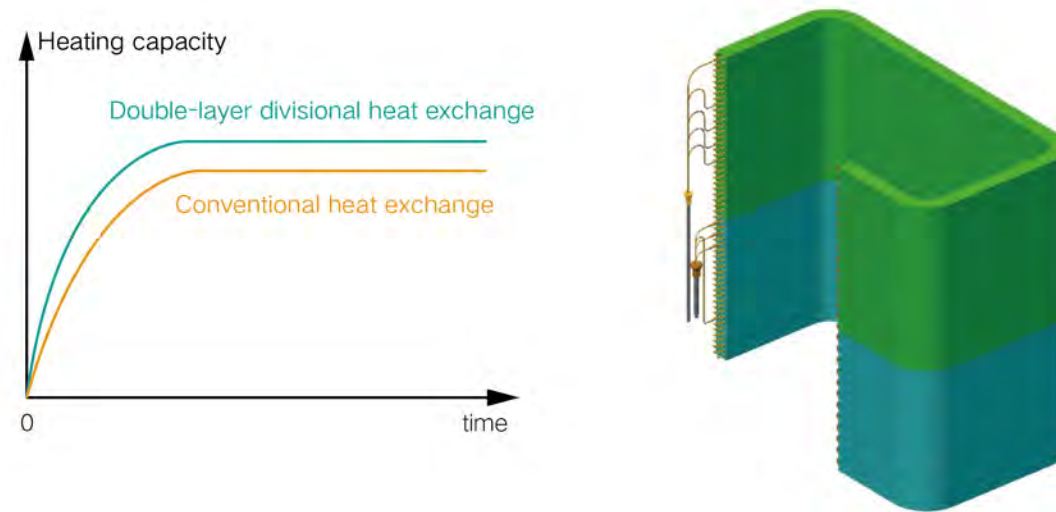
### Multi-functional Heat Exchanger Fins

The heat exchanger fins adopt double-sided double-effect coating and hydrophilic membrane design so that the unit is not easy to get frosted and the condensate water or water from defrosting can flow down more quickly; the anti-corrosion coating isolates the pollutants and dust from air to protect the fins, thus stronger corrosion resistance and better heat exchange effect.



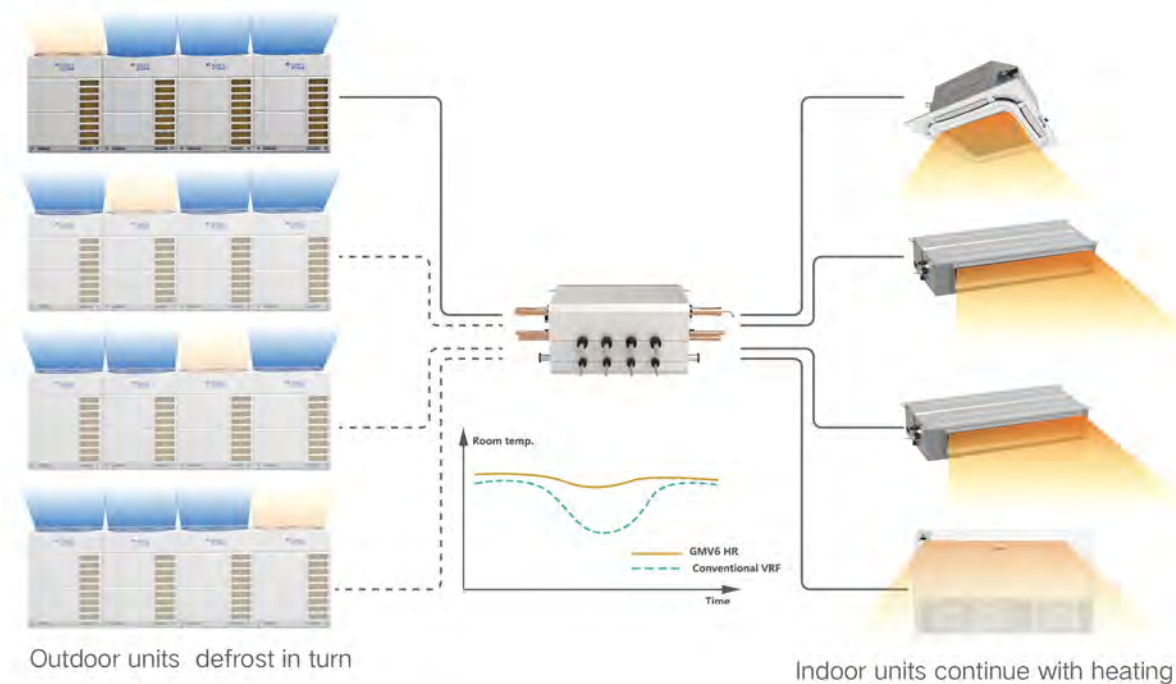
### Double-layer Independent Divisional Control for Heat Exchanger

According to the features of the wind field, the heat exchanger has a divisional design for the flow paths. The upper and lower heat exchangers are designed with independent EEV control to realize more reasonable flow distribution, which can optimize the heat exchange performance.



### Continuous Heating

GMV6 HR is designed with a continuous heating system. In case of modular combination, different modules can defrost in turn to reduce indoor temperature fluctuation, which will further improve the level of heating comfort.



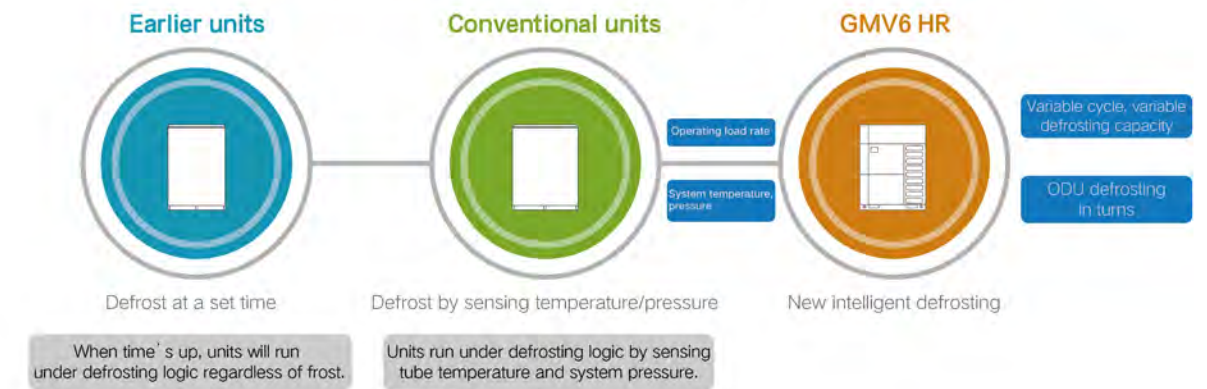
\*Applicable to partial models

\*This function must be set in the field. When this function is set, continuous heating will be activated under certain ambient temperature conditions.

### Multi-dimensional Intelligent Defrosting

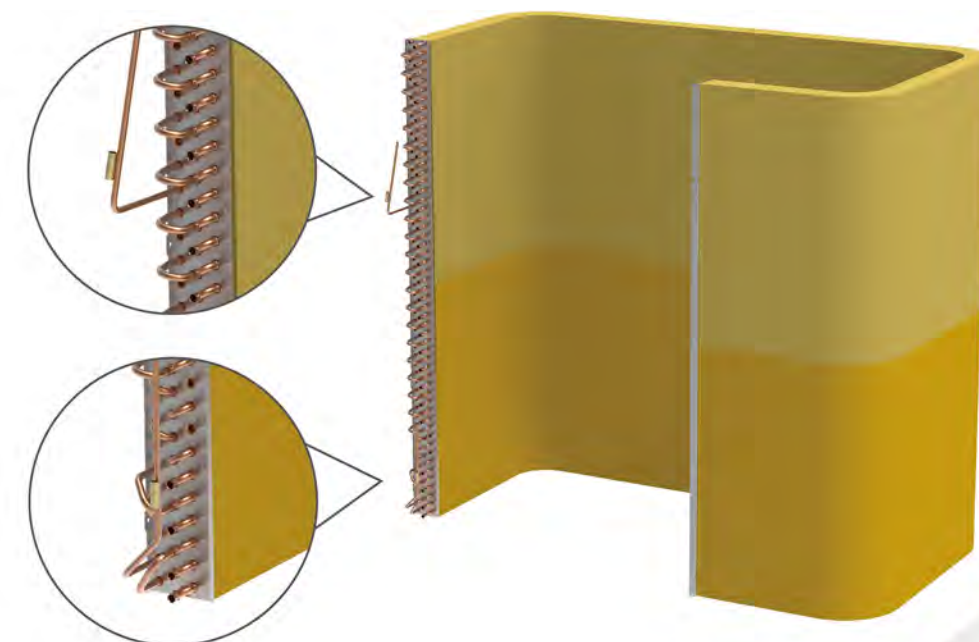
GMV6 HR is equipped with multiple defrosting technologies. It adopts the control method of variable temperature difference and variable load rate to achieve efficient and rapid defrosting. Under certain conditions, the outdoor units can defrost in turn to make sure the indoor units can continue with heating.

#### Development of Defrosting Technology



### Two Temperature Sensors for Upper and Lower Heat Exchangers

The upper and lower heat exchangers are independently controlled by two defrosting temperature sensors, which can accurately judge the thickness of frost on heat exchangers so as to carry out thorough defrosting.



## Project Self-adaptive Control

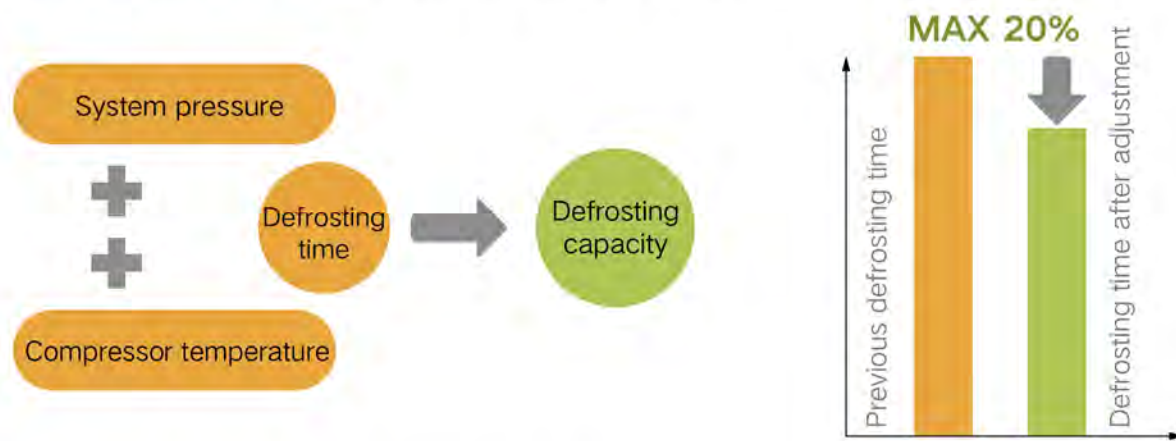
### Variable Defrosting Cycle Control

The unit can define the frost degree according to the defrosting time change under different circumstances and then adjust the defrosting cycle automatically to improve the accuracy of defrosting.

### Variable Defrosting Capacity Control

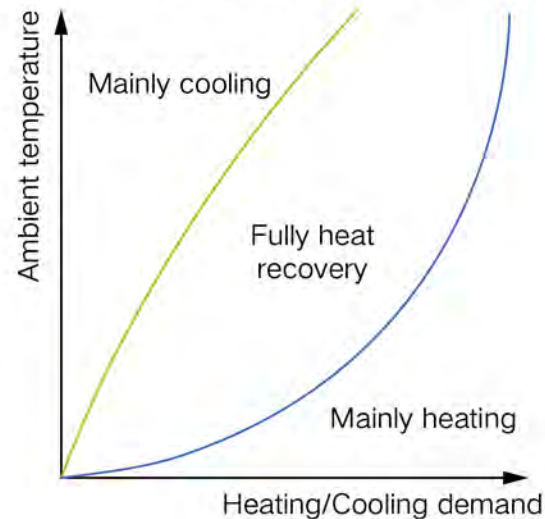
The speed of defrosting is closely related to the output of compressor. Generally, when the unit is defrosting, the output capacity of compressor is fixed, which may lead to long defrosting time or failure to defrost normally in actual use.

In order to realize stable and rapid defrosting, GMV6 HR can automatically change the output capacity during defrosting through real-time parameter learning and judgment.



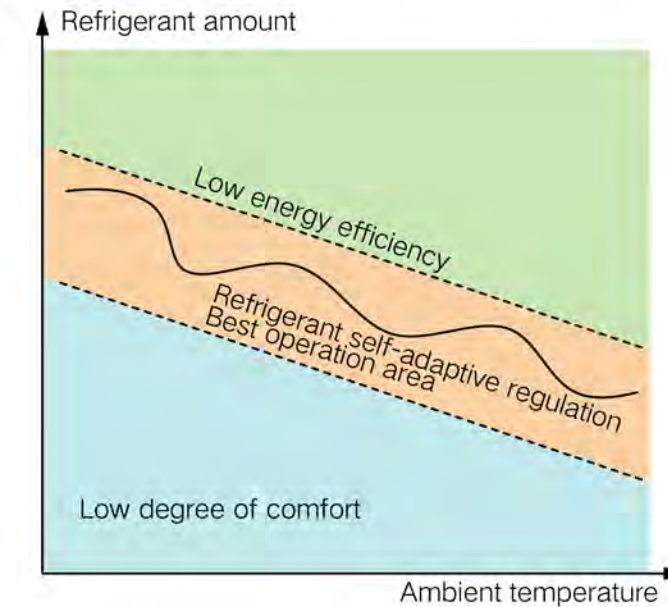
### Intelligent Heat Recovery Control

GMV6 HR adopts intelligent heat recovery control technology. Under heat recovery mode, it can intelligently switch among mainly cooling mode, fully heat recovery mode and mainly heating mode according to the operating condition and load. Under high temperature, the operation of indoor units in cooling mode will be given priority; under low temperatures, the operation of indoor units in heating mode will be given priority. This is to achieve the best energy efficiency while ensuring user comfort.



### Refrigerant Self-adaptive Regulation Technology

GMV6 HR adopts refrigerant self-adaptive regulation technology. When the ambient temperature or the load of indoor unit changes, it will automatically adjust the amount of system refrigerant circulation according to the output demand of outdoor units. This technology can prevent energy efficiency decrease in cooling caused by excess refrigerant and maintain the comfort degree in heating by preventing refrigerant insufficiency so that the unit can always run in a healthy, energy-saving and comfortable state.



### Auto Heat Recovery Function of Cooling

In summer, when the unit is in cooling mode, even if the hydro box is shut down, it can still recover waste heat according to the water temperature of the water tank, and transfer the heat to the water rather than discharge it into the atmosphere. In summer, you can enjoy not only cool air but also free hot water.



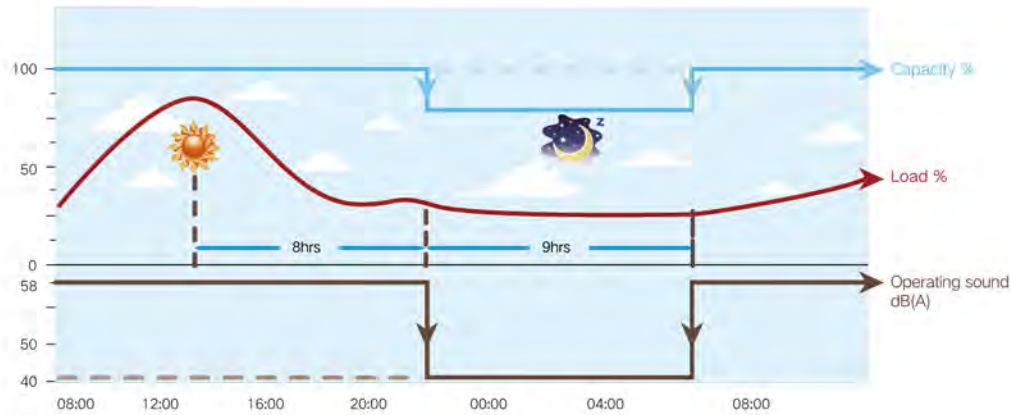
Note: This function defaults to be on before ex-factory. It can be turned off in setting.

# Quiet Technology

## 13 Quiet Modes

### Night Quiet Function

The system can record the highest outdoor temperature. At night, the system will automatically turn to quiet mode. There are 9 quiet modes which can be set according to actual needs. For example, the unit can automatically enter night mode after working for 8 hours, and resume to normal operating mode after 9 hours.



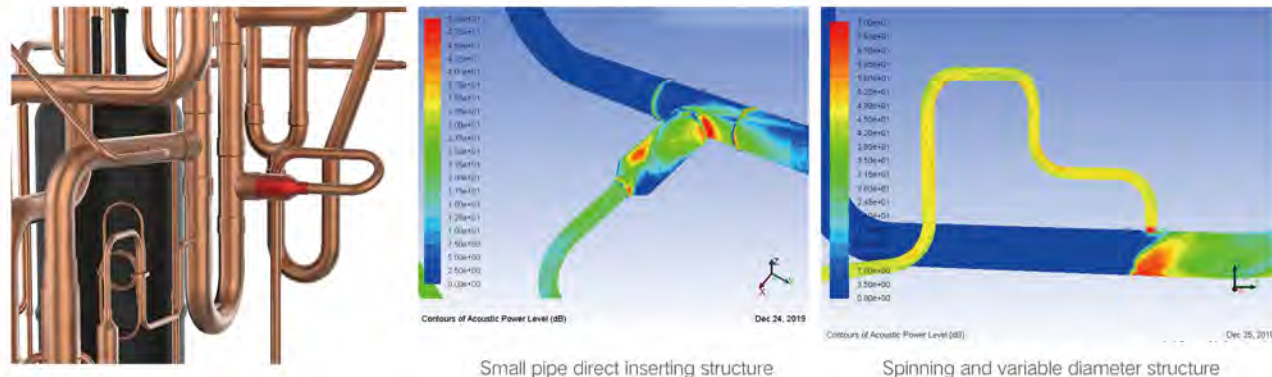
### Mandatory Quiet Function

When the unit is installed in an environment with high noise requirements, it needs to operate silently during the day or night. Then you can choose three mandatory settings of quiet modes to ensure that the unit operates in low noise mode at any time, and the noise value can be as low as 40dB (A).



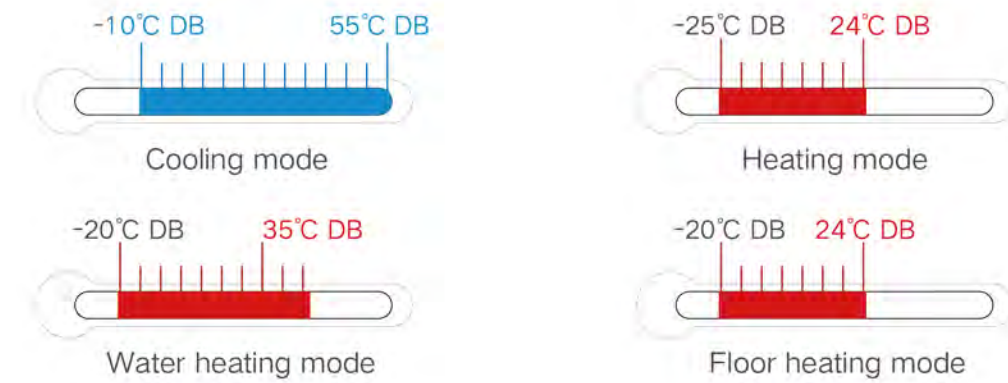
## Spinning and Variable Pipe Diameter Design for Noise Reduction

The inlet pipe from sub-cooler to gas separator adopts a spinning structure with variable diameter, which can slow down the refrigerant flow in the pipeline, greatly reduce the flow noise of the pipe, and significantly lower the broadband noise.



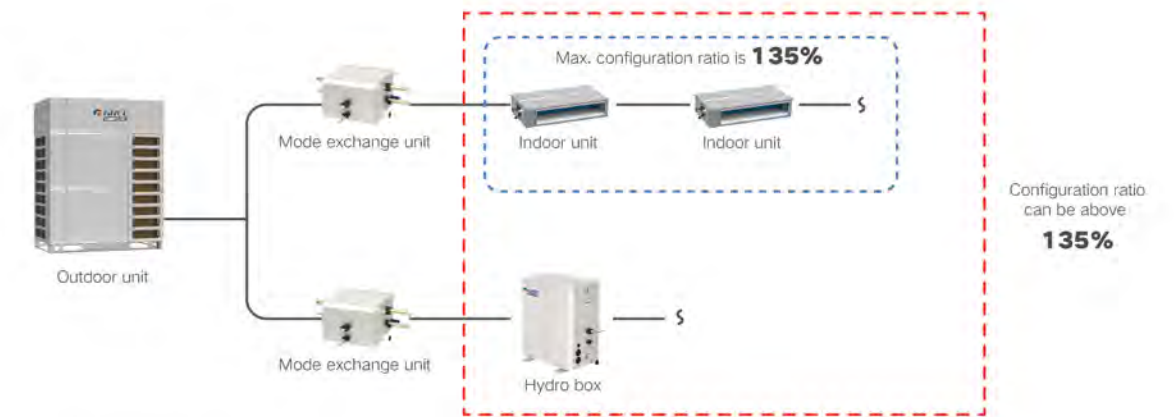
# Stable and Reliable Operation

## Super Wide Operating Range



## High Configuration Ratio

Conventionally, we use the total capacity of indoor units and the hydro box to calculate the indoor and outdoor unit configuration ratio, without taking the use mode into consideration. In summer, users need air conditioners for cooling and hot water for bathing; while in winter, floor heating is also needed. GMV6 HR is designed in an unconventional way, for it has optimized the capacity allocation method in different modes and the hydro box can calculate the configuration ratio independently. The configuration ratio of indoor units is not counted and the cost of outdoor units is reduced.

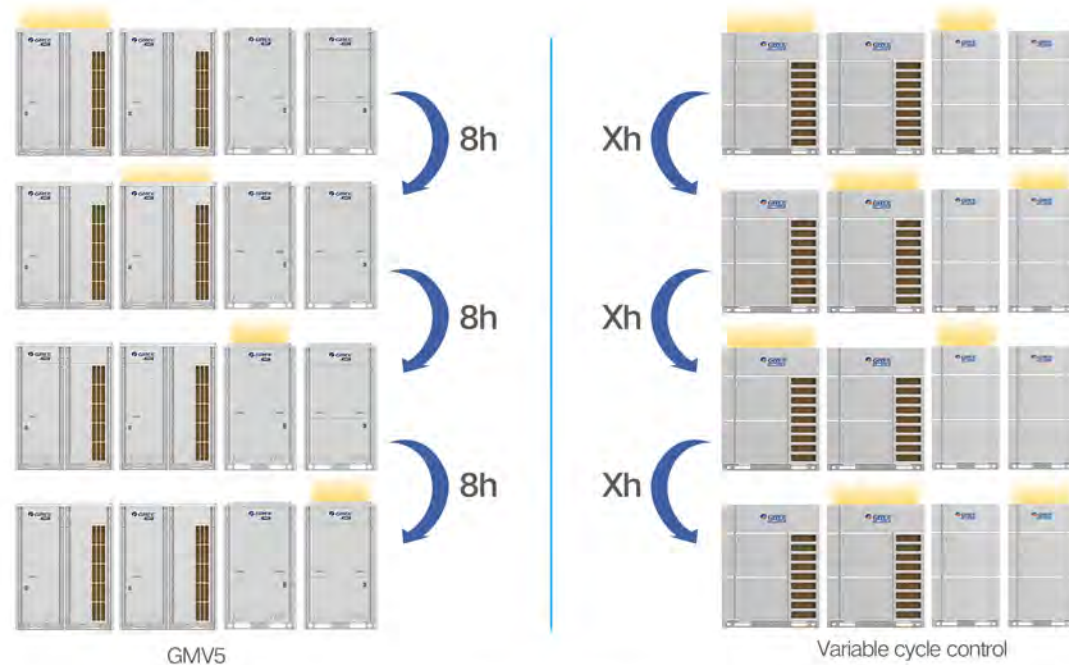


Note: If indoor units and hydro box run in heating at the same time, heating performance will be affected.

### New Generation Intelligent Alternate Control Technology

#### Variable Cycle Module Alternate Control

GMV6 adopts a new modular control method to ensure the service life of the complete unit and improve the overall operating performance.



X refers to the variable cycle

#### Compressor Alternate Control

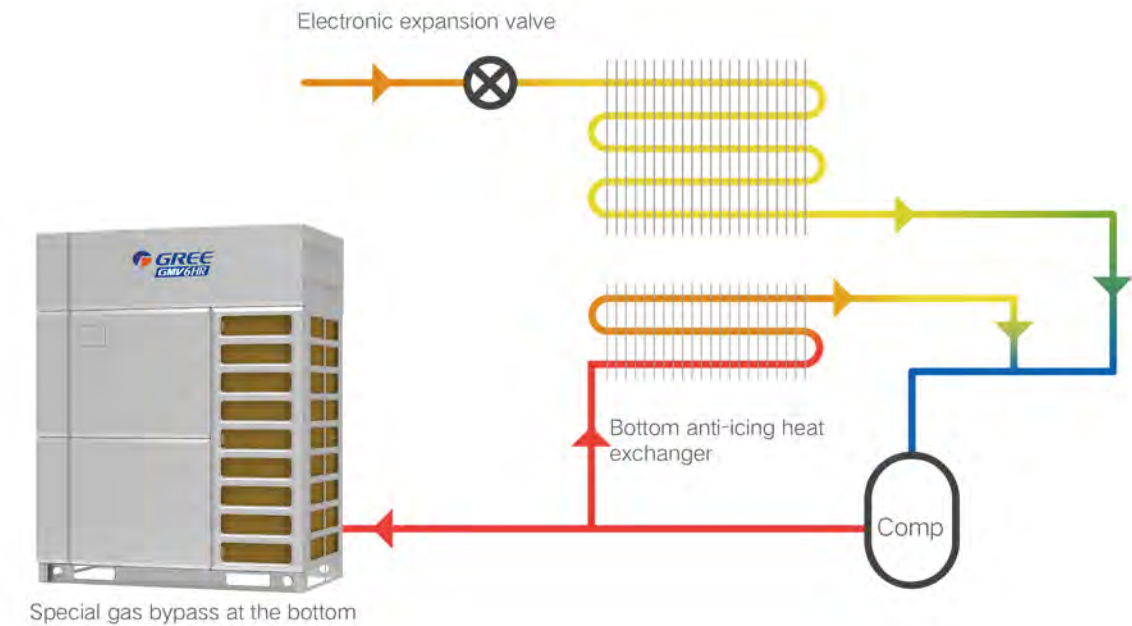
As for the system control, not only the overall service life of the modular design is considered, when the module is designed for multiple compressors, the internal compressors will also conduct rotation control to balance the operating service life of each compressor.



\*Applicable to some models.

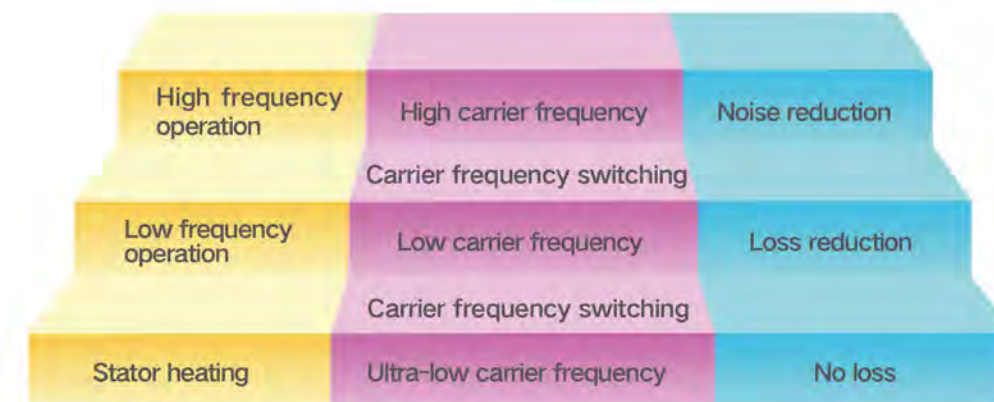
### Low-temperature Anti-freezing Control

To ensure smooth water drainage and reliable operation under low temperatures, a special bypass is added at the bottom of the heat exchanger for anti-freezing control.



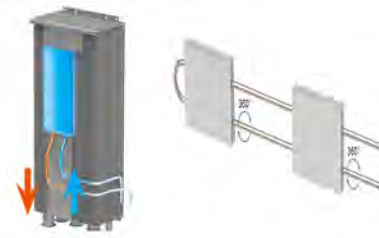
### Variable Carrier Frequency Control Technology

According to the operating characteristics of compressor, the carrier frequency is automatically switched, and then high-frequency noise reduction and low-frequency loss reduction are realized, which can maximize the efficiency and reliability.



### Sub-cooling Module Cooling Technology

The compressor drive IPM high-power device adopts sub-cooling 360° ring-shaped heat dissipation structure module cooling technology to ensure that the internal components work under relatively low temperature conditions. Compared with ordinary air-cooled heat dissipation, the internal temperature can be reduced by up to 8°C, and reliability raised dramatically.



### Diversified Backup Operation

#### Basic Module Emergency Function

GMV6 can achieve a combination of four independent units. Each unit is a basic module. When a certain basic module is malfunctioning, other basic modules can achieve emergency operation, which reduces the influence of malfunction.



### Fan Emergency Function

Some basic modules are designed with two fans. Gree control logic and optimized system design can ensure that when there's malfunction for one of the fans, the unit can still operate with the other fan, which reduces the influence to users due to sudden stoppage.



### Compressor Emergency Function

For a basic module with two or more compressors, when there's malfunction for one of the compressors, the unit can still operate with other compressors, which reduces the influence of malfunction.



### Sensor Malfunction Emergency Function

The application field of VRF systems is complicated. When a temperature sensor malfunction occurs to the unit, the unit will enter back-up mode, which minimizes the influence of malfunction.



Note: Only for some temperature sensors.

## Flexible Engineering Design

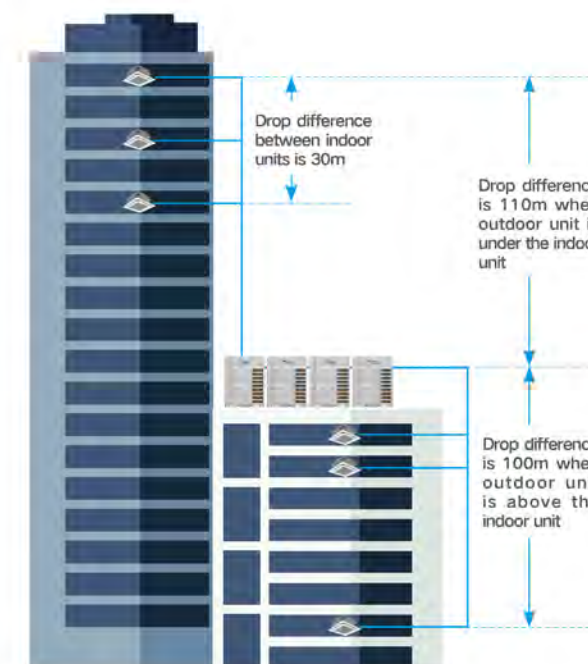
### Wide Capacity Range

Basic modules are designed with large capacity. The maximum capacity is further improved, which can satisfy various engineering needs and increase the construction efficiency.



### Super Long Refrigerant Pipe Design

GMV6 HR combines high drop pressure control technology, indoor unit drop identification technology, intermediate pressure adjustment technology, tube length self-correction technology, and deep sub-cooling technology to increase the length of piping and improve the air conditioning effect.



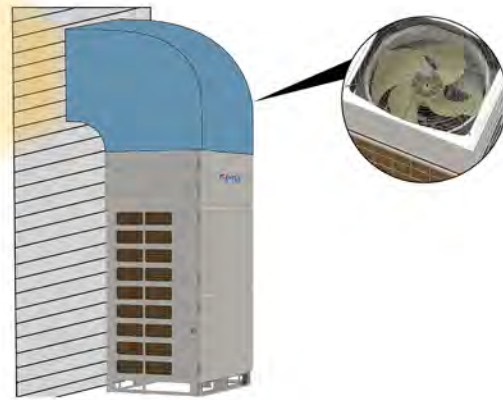
- The maximum actual single pipe length is 200m, the maximum equivalent single pipe length is 240m, and the maximum piping length is 1,000m.
- The maximum length after the first branch pipe is 120m\*.
- The maximum drop of indoor and outdoor units is 110m\* (100m when the outdoor unit is in upper position)\*.
- The maximum drop between indoor units is 30m.

\*Please consult the sales representatives for details.

### High Static Pressure Design

New diversion cover: Effectively coupled with fan blades, the flow field is more uniform.

New diversion cover: Effectively coupled with fan blades to make the flow distribution more uniform. High external static pressure design facilitates engineering application and mechanical floor design. The air-out grille with vortex streamline distribution, less wind resistance. High-efficiency motor, powerful output and highest static pressure up to 110Pa (ex-factory standard).



### Compact Design

	GMV5 HR	GMV6 HR	Floor Space Reduction	Effect
335			29% ↓	Less requirement in engineering application, more efficient in space utilization
615			40% ↓	

The whole series of units from 8HP to 22HP can easily enter common residential elevators without specialized equipment, which has greatly reduced the construction cost.



### Efficiently Maintained Structural Layout

GMV6 HR integrated electronic control layout, with reserved maintenance space for higher maintenance efficiency.



Commissioning window, no need to remove the panel, you can conduct commissioning and troubleshooting during operation.

The electronic control components are highly integrated, the component structure is miniaturized, and there is more space for maintenance.

Front-mounted valve assembly design, fast and reliable piping installation.

The solenoid valve is neatly fitted into a small space. It can be disassembled without removing the electric box, which has greatly improved the maintenance efficiency.



### Indoor Unit Automatic Positioning Function

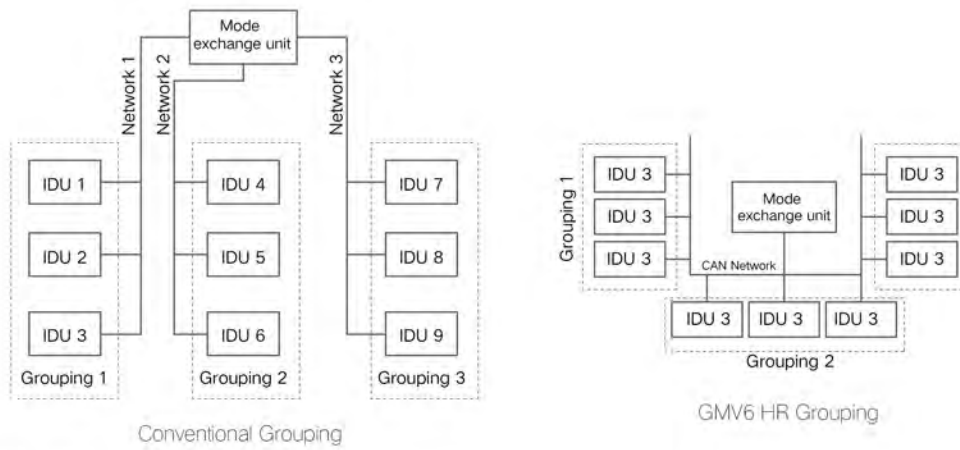


When multiple indoor units are installed in large spaces such as exhibition halls, conference rooms, offices, etc., the indoor unit can conduct automatic positioning, the corresponding indoor unit buzzer can automatically respond, and the indoor unit can be quickly positioned by sound to achieve efficient maintenance.

Abnormal unit alarms for positioning

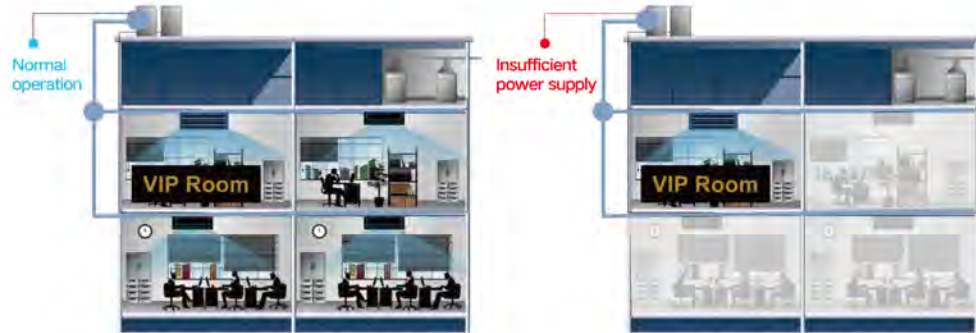
## Indoor Unit Network Auto Grouping Control

GMV6 HR can realize auto intelligent identification through a built-in algorithm. It can automatically set groups for indoor units, which has improved the installation and debugging efficiency.



## VIP Function

In high-end hotels and other occasions, when the diesel generator is used for power supply temporarily, the outdoor unit can directly connect different power identification signals and send a signal of insufficient power supply to the system. At this time, only rooms set as VIPs such as presidential suites are allowed to use the air conditioner, while other rooms are forbidden to use the air conditioner.



## Priority Setting for Air Heating, Hot Water and Floor Heating

GMV6 HR is with multiple mode setting functions. System will give priority to air heating, hot water or floor heating mode according to the priority setting. User can set air heating priority, hot water priority or floor heating priority based on local weather conditions and application scenarios.

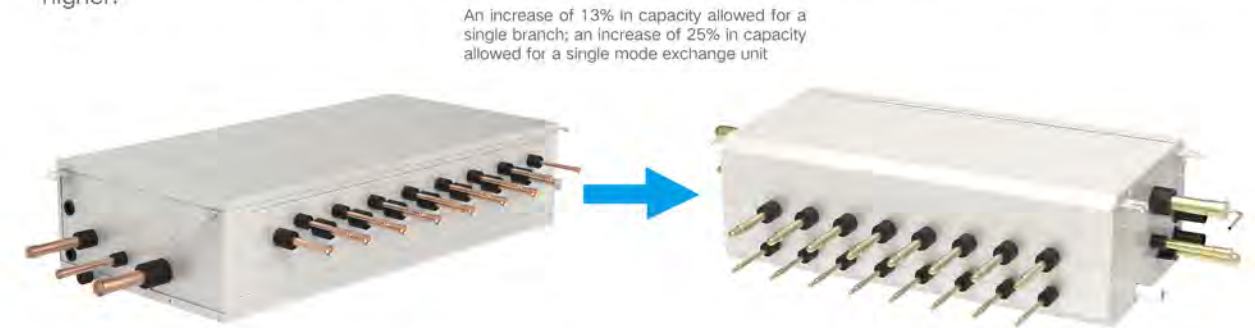
Priority setting	Code	Notes
Air heating	01	Air heating takes priority
Water heating	02	Water heating takes priority
Floor heating	03	Floor heating takes priority
.....	.....	.....

Note: This function must be set in the field.

## Mode Exchange Unit

### Wide Capacity Range

The new generation mode exchange unit adopts high refrigerant flow design and the connectable indoor unit capacity is significantly increased. A maximum of 16kW can be connected to a single branch, which is 13% higher than before; and the maximum capacity connected to multiple branches is 85kW, which is 25% higher.



An increase of 13% in capacity allowed for a single branch; an increase of 25% in capacity allowed for a single mode exchange unit

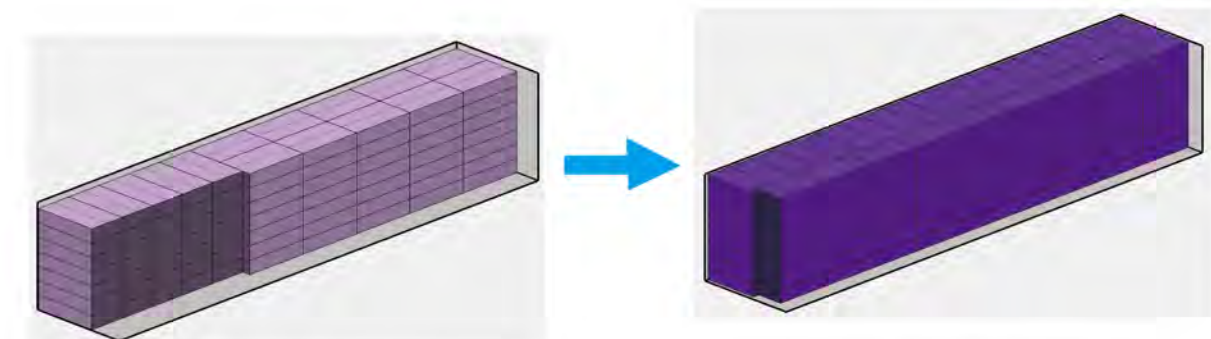
Note: For two branches in parallel, the maximum capacity of connectable indoor units is 28kW.

### High-efficiency Sub-cooling Design

In a heat recovery system, refrigerant flow between indoor units may produce noise due to insufficient sub-cooling degree, which will affect the cooling performance. For our new generation mode exchange unit, it adopts a noise reduction design and the solenoid valve and electronic expansion valve are combined to realize intelligent control, which can provide sufficient sub-cooling degree for refrigerant in indoor units, ensuring the high-efficiency and low-noise operation of indoor units.

### Compact Design

The new generation mode exchange unit has a brand new pipe structure, for which its size is 15% smaller, saving more installation space. The loading quantity is up by 70%.



Loading quantity (last generation)

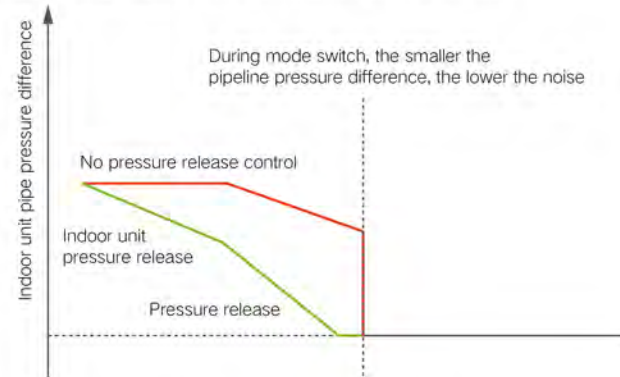
Loading quantity (new generation)

Note: Limited to some models.



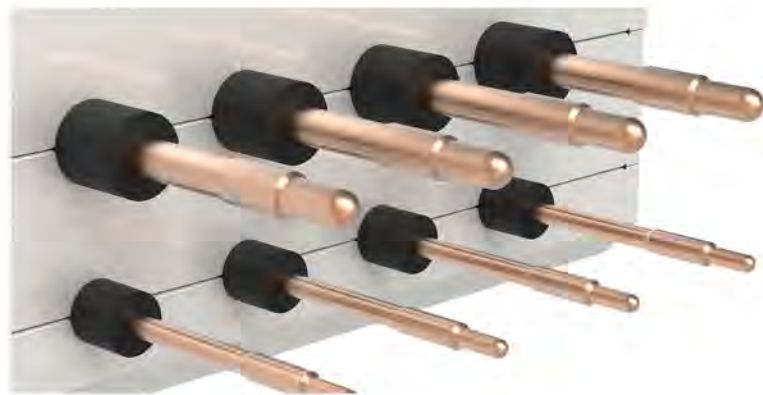
### Noise Reduction Design of Mode Exchange Unit

The noise of mode exchange unit is mostly caused by the large pressure difference between the indoor unit pipeline and the outdoor unit pipeline during mode switch. The new generation mode exchange unit adopts preliminary pressure release control technology. By combining preliminary indoor unit pressure release control with preliminary bypass pressure release control, the indoor unit pipeline pressure can be quickly balanced during the mode switch of indoor units, avoiding the noise caused by the switching pressure difference and ensuring the quiet and rapid mode switch of indoor units.



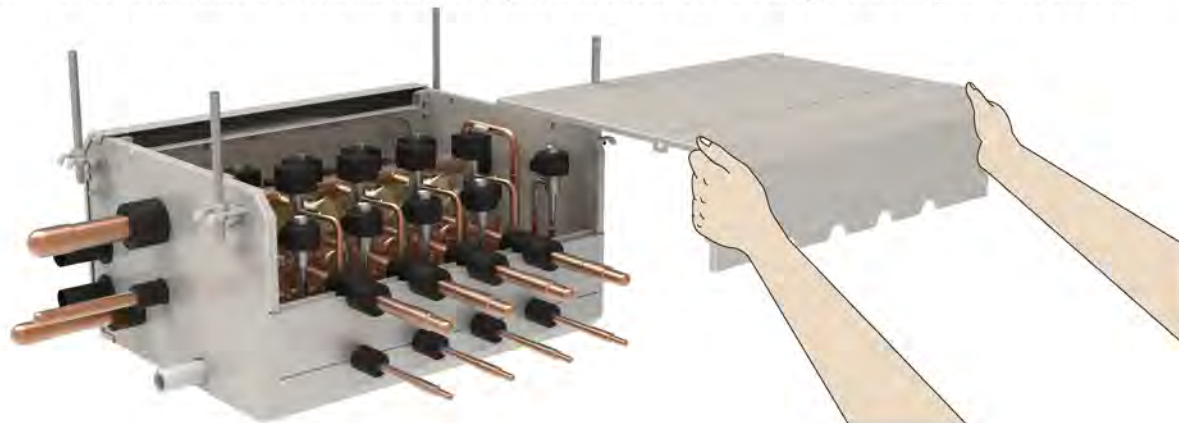
### One-piece Connection Pipe Design, Efficient and Safe

The connection pipe is designed with a variable diameter spinning sealing, for easy installation and less installation time. It can satisfy requirements for different pipe size in engineering pipe connection. There's no need to remove the sealing cap through welding, which is safer. Less oxide is produced, and the system is cleaner.



### Structure for Efficient Maintenance

The L-shape integrated upper cover plate is designed so that there's a better view and enough operation space for the inspection and maintenance of pipes and valves when the upper cover plate is removed.



### Hydro Box

#### Wide Capacity Range

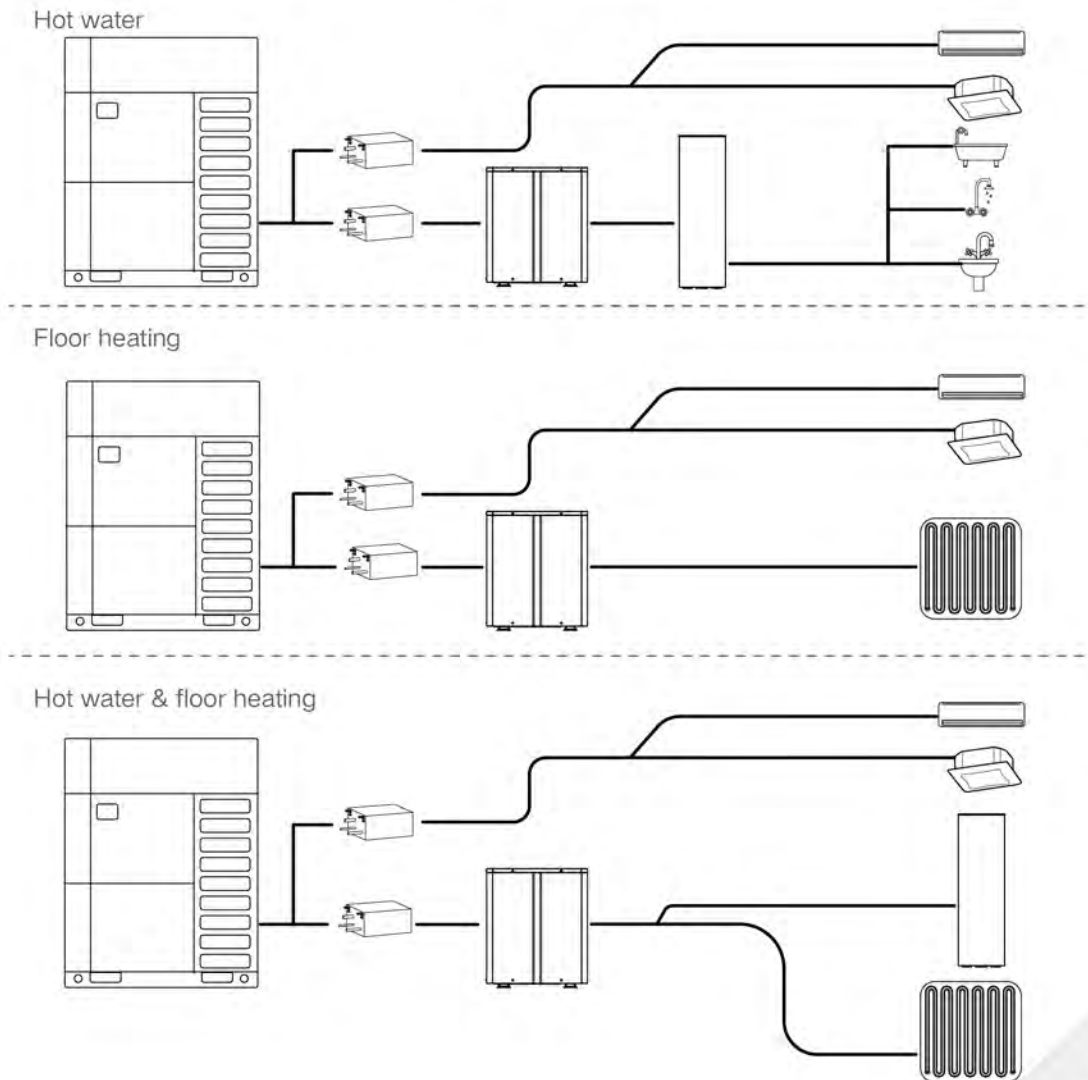
There are two capacity options for a single unit: 16/30kWm, which can satisfy different engineering requirements.



16/30kW

#### Double Functions

The hydro box can be connected to the water tank and floor heating independently or simultaneously. It is equipped with a new generation matrix wired controller, through which you can set hot water function or floor heating function. Two functions in one machine, satisfying customers' various needs.



\*Note: Wired controller model: XE70-11/H.

### Flexible Model Selection

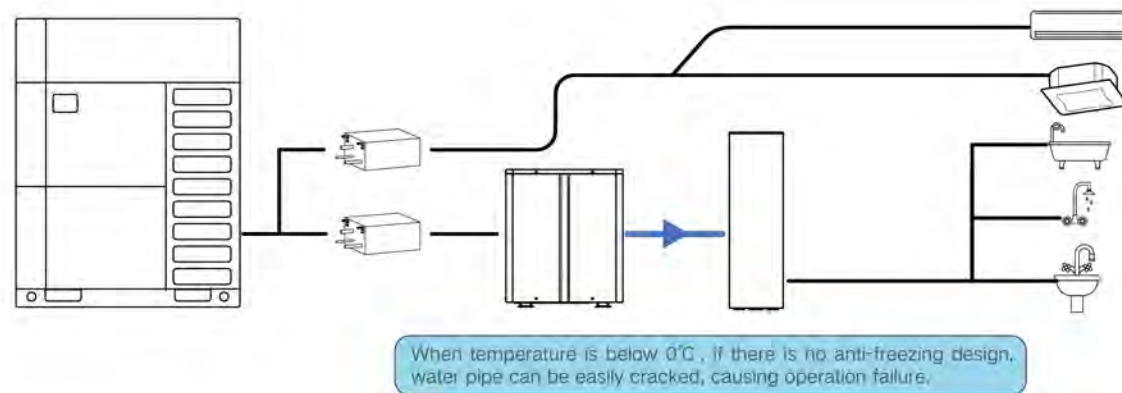
You can connect the hydro box to Gree water tank or inner coil water tank purchased separately. User can design his/her own inner coil water tank according to the engineering characteristics, to make the engineering design more flexible.

\*Note: The separately purchased water tank must be a inner coil water tank.

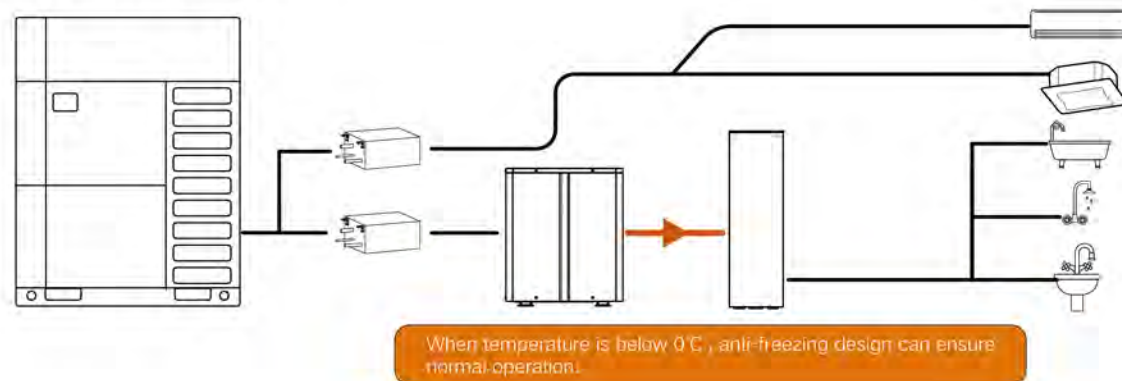
### Intelligent Hydro Box Anti-freezing Design

When the hydro box is stopped and water temperature is below 0°C , the plate heat exchanger may be freezing and broken, which will affect the safe operation of the entire system. In GMV6 HR, we adopt an intelligent step-by-step anti-freezing strategy so that the hydro box will implement different anti-freezing control logics according to its actual status, running time and water side temperature, providing safe and anti-freezing protection while maintaining the level of comfort indoors.

Without anti-freezing design



With anti-freezing design



### New Type Wired Controller as Standard Supply

It is a brand new matrix type wired controller of touch control. It is designed with a new interaction logic, which makes the controller easy to use; the matrix screen allows the display to be more visually pleasing and rich, concise but not simple.

- ◆ Touch buttons with rich functions
- ◆ Simple appearance
- ◆ With weekly timer, easy to use



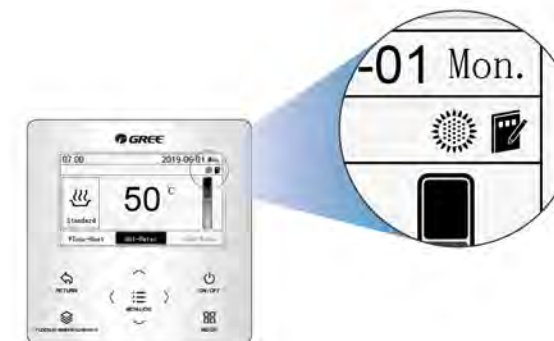
Wired controller model: XE70-11/H

### High-temperature Sterilization Function

This product is with high-temperature sterilization function. When it is activated, it can effectively remove bacteria. The water tank temperature can be heated to 70°C . High-efficiency sterilization is included to care for the health of users.

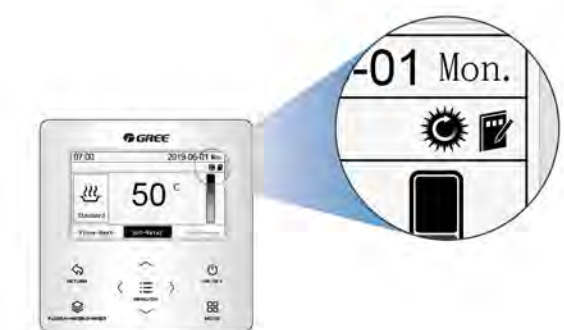
### Sunflower Function

This product is with sunflower function. The algorithm of the new sunflower function can automatically track and collect the temperature data of the daytime hour by hour so as to predict high temperature periods in the daytime and heat up water correspondingly, which is efficient and energy-saving.



### Solar Power Function

It is equipped with a solar power water pump interface, a solar power temperature sensor interface and a solar power temperature sensor and can be connected to a solar power water tank. It can intelligently control the solar power water pump according to outdoor temperature and the solar power water temperature so as to heat up the water tank.



\*Note: A dual inner coil water tank solar power water tank must be used.

## Mode Exchange Unit

Model	Product Appearance	Model	Product Appearance
NCHS1D		NCHS4D	
NCHS2D		NCHS8D	

## Hydro Box

Model	Product Appearance
NRQR16L/A-T	
NRQR30L/A-T	



## Outdoor Unit

Model		GMV-VQ224WM/C-X	GMV-VQ280WM/C-X	GMV-VQ338WM/C-X	GMV-VQ400WM/C-X	GMV-VQ450WM/C-X	GMV-VQ504WM/C-X	GMV-VQ560WM/C-X	GMV-VQ615WM/C-X
Capacity range	HP	8	10	12	14	16	18	20	22
Cooling capacity	Rated *	kW 22.4	28.0	33.5	40.0	45.0	50.4	52.0	52.0
	Max.	kW 22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5
Heating capacity	Rated *	kW 22.4	28.0	33.5	40.0	45.0	50.4	56.0	56.0
	Max.	kW 25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0
SEER	Ducted *	-	7.00	6.76	6.61	6.97	6.53	6.54	6.38
	Cassette *	-	7.25	6.49	6.73	6.25	6.22	6.78	6.42
SCOP	Ducted *	-	4.32	4.58	4.74	4.44	4.42	4.25	4.15
	Cassette *	-	4.30	4.44	4.37	4.44	4.51	4.34	4.34
Power supply	V/Ph/Hz	380-415V 3N-50/60Hz							
Min. circuit/Max. fuse current	A	23.0/25	23.5/25	24.1/25	37.5/40	39.3/40	47.0/50	48.0/50	49.0/50
Max. power input	kW	12.87	13.15	13.50	21.00	22.00	26.30	26.85	27.41
Max. drive IDU NO.	unit	13	16	19	23	26	29	33	36
Refrigerant charge volume	kg	8.2	8.5	9.6	11.1	11.6	12.8	12.8	13.3
Sound pressure level(Cooling)	dB(A)	60	61	63	63	63	63	63	64
Sound power level(Cooling)	Ducted*	dB(A) 80	82	84	91	91	88	88	88
	Cassette*	dB(A) 80	84	86	87	94	87	89	89
Connecting pipe	Liquid	mm Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	High pressure gas	mm Φ15.9	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ25.4	Φ25.4	Φ25.4
Dimension (W×D×H)	Outline	mm 930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
	Package	mm 1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Net weight/Gross weight	kg	243/253	243/253	256/266	325/340	325/340	385/400	385/400	385/400
Loading quantity	40' GP	set 28	28	28	22	22	22	22	22
	40' HQ	set 28	28	28	22	22	22	22	22

Note: The data is Eurovent certified.

## Mode Exchange Unit

Model			NCHS1D	NCHS2D	NCHS4D	NCHS8D
Number of branches	unit		1	2	4	8
Max. number of connectable IDUs	Per branch	unit	8	8	8	8
	Total	unit	8	16	32	64
Max. capacity of connectable IDUs	Per branch	kW	16	16	16	16
	Total	kW	16	28	45	85
Power supply	V/Ph/Hz	220-240V ~ 50/60Hz				
Power consumption	Cooling	W	14	25	32	90
	Heating	W	14	25	32	90
Piping connections	ODU	Liquid	mm Φ9.52	Φ9.52	Φ12.7	Φ15.9
		High pressure gas	mm Φ19.05	Φ19.05	Φ22.2	Φ22.2
		Low pressure gas	mm Φ22.2	Φ22.2	Φ28.6	Φ28.6
	IDU	Liquid	mm Φ6.35/9.52	Φ6.35/9.52	Φ6.35/9.52	Φ6.35/9.52
		Gas	mm Φ12.7/15.9	Φ12.7/15.9	Φ12.7/15.9	Φ12.7/15.9
		Outline	mm 340×388×250	340×388×250	460×388×250	784×388×250
Dimension(W×D×H)	Package	mm 863×624×298	863×624×298	979×624×303	1300×624×288	
Net weight/Gross weight	kg	12/17.5	14.5/20.5	20.6/27	33/42	

## Hydro Box

Model			NRQR16L/A-T	NRQR30L/A-T
Hot water heating capacity	kW		4.5(3.6~16)	4.5(3.6~30)
Max. setting temperature of domestic hot water	°C		55(35~55)	55(35~55)
Floor heating capacity	kW		16	30
Max. setting temperature of floor heating	°C		45(25~45)	45(25~45)
Power supply	V/Ph/Hz		220~240V-1ph-50Hz 208~230V-1ph-60Hz	220~240V-1ph-50Hz 208~230V-1ph-60Hz
Heat exchanger	Type	-	Plate heat exchanger	Plate heat exchanger
	Quantity	-	1	1
	Rated water flow	L/min	46	86
	Pressure drop	kPa	27.5	38.5
Water system connection	Diameter of inlet/outlet water pipe	mm	Φ25	Φ25
	Thread specification	-	G1	G1
Refrigerant system connection	Gas pipe	mm	Φ15.9	Φ22.2
	Liquid pipe	mm	Φ9.52	Φ9.52
Outline dimension(W×D×H)	mm		515×330×606	515×330×606
Net weight	kg		36	40

### GMV6 HR Outdoor Units Lineup

Model	GMV-VQ224WM/C-X	GMV-VQ280WM/C-X	GMV-VQ335WM/C-X	GMV-VQ400WM/C-X	GMV-VQ450WM/C-X	GMV-VQ504WM/C-X	GMV-VQ560WM/C-X	GMV-VQ615WM/C-X
GMV-VQ224WM/C-X	●							
GMV-VQ280WM/C-X		●						
GMV-VQ335WM/C-X			●					
GMV-VQ400WM/C-X				●				
GMV-VQ450WM/C-X					●			
GMV-VQ504WM/C-X						●		
GMV-VQ560WM/C-X							●	
GMV-VQ615WM/C-X								●
GMV-VQ680WM/C-X		●		●				
GMV-VQ730WM/C-X		●			●			
GMV-VQ784WM/C-X		●				●		
GMV-VQ840WM/C-X		●					●	
GMV-VQ895WM/C-X		●						●
GMV-VQ950WM/C-X			●					●
GMV-VQ1015WM/C-X				●				●
GMV-VQ1065WM/C-X					●			●
GMV-VQ1119WM/C-X						●		●
GMV-VQ1175WM/C-X							●	●
GMV-VQ1230WM/C-X							●	●●
GMV-VQ1290WM/C-X		●			●		●	●
GMV-VQ1345WM/C-X		●			●		●	●
GMV-VQ1400WM/C-X			●		●		●	●
GMV-VQ1455WM/C-X		●					●	●
GMV-VQ1510WM/C-X		●					●	●●
GMV-VQ1565WM/C-X			●				●	●●
GMV-VQ1630WM/C-X				●			●	●●
GMV-VQ1680WM/C-X					●		●	●●
GMV-VQ1734WM/C-X						●	●	●●
GMV-VQ1790WM/C-X							●	●●
GMV-VQ1845WM/C-X							●	●●●
GMV-VQ1905WM/C-X		●		●			●	●
GMV-VQ1959WM/C-X		●			●		●	●
GMV-VQ2015WM/C-X		●				●	●	●
GMV-VQ2070WM/C-X		●					●	●●
GMV-VQ2125WM/C-X		●					●	●●●
GMV-VQ2180WM/C-X			●				●	●●●
GMV-VQ2245WM/C-X				●			●	●●●
GMV-VQ2295WM/C-X					●		●	●●●
GMV-VQ2349WM/C-X						●	●	●●●
GMV-VQ2405WM/C-X							●	●●●
GMV-VQ2460WM/C-X							●	●●●●

### Specifications of ODU Combination

GMV6 HR ( 380-415V 3N~50/60Hz )

HP	Model	Power supply	Capacity		Dimension (W×D×H)	Airflow volume	ESP	Connecting pipe			Mini. circuit current	Max. fuse current	Net weight
			Cooling capacity	Heating capacity				Liquid	HP gas	LP gas			
			kW	kW	mm	m³/h	Pa	mm	mm	mm	A	A	kg
24	GMV-VQ680WM/C-X	380-415V 3N~50/60 Hz	68.0	76.5	930×775×1690+1340×775×1690	10500+13500	110	Φ15.9	Φ25.4	Φ28.6	23.5+37.5	25+40	243+325
26	GMV-VQ730WM/C-X	380-415V 3N~50/60 Hz	73.0	81.5	930×775×1690+1340×775×1690	10500+15400	110	Φ19.05	Φ28.6	Φ31.8	23.5+39.3	25+40	243+325
28	GMV-VQ784WM/C-X	380-415V 3N~50/60 Hz	78.4	88.0	930×775×1690+1340×775×1690	10500+16000	110	Φ19.05	Φ28.6	Φ31.8	23.5+47	25+50	243+385
30	GMV-VQ840WM/C-X	380-415V 3N~50/60 Hz	84.0	94.5	930×775×1690+1340×775×1690	10500+16500	110	Φ19.05	Φ28.6	Φ31.8	23.5+48	25+50	243+385
32	GMV-VQ895WM/C-X	380-415V 3N~50/60 Hz	89.5	100.5	930×775×1690+1340×775×1690	10500+16500	110	Φ19.05	Φ28.6	Φ31.8	23.5+49	25+50	243+385
34	GMV-VQ950WM/C-X	380-415V 3N~50/60 Hz	95.0	106.5	930×775×1690+1340×775×1690	11100+16500	110	Φ19.05	Φ28.6	Φ31.8	24.1+49	25+50	256+385
36	GMV-VQ1015WM/C-X	380-415V 3N~50/60 Hz	101.5	114.0	(1340×775×1690)×2	13500+16500	110	Φ19.05	Φ31.8	Φ38.1	37.5+49	40+50	325+385
38	GMV-VQ1065WM/C-X	380-415V 3N~50/60 Hz	106.5	119.0	(1340×775×1690)×2	15400+16500	110	Φ19.05	Φ31.8	Φ38.1	39.3+49	40+50	325+385
40	GMV-VQ1119WM/C-X	380-415V 3N~50/60 Hz	111.9	125.5	(1340×775×1690)×2	16000+16500	110	Φ19.05	Φ31.8	Φ38.1	47+49	50+50	385×2
42	GMV-VQ1175WM/C-X	380-415V 3N~50/60 Hz	117.5	132.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ31.8	Φ38.1	48+49	50+50	385×2
44	GMV-VQ1230WM/C-X	380-415V 3N~50/60 Hz	123.0	138.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ31.8	Φ38.1	49+49	50+50	385×2
46	GMV-VQ1290WM/C-X	380-415V 3N~50/60 Hz	129.0	144.5	930×775×1690+(1340×775×1690)×2	10500+15400+16500	110	Φ19.05	Φ31.8	Φ38.1	23.5+39.3+48	25+40+50	243+325+385
48	GMV-VQ1345WM/C-X	380-415V 3N~50/60 Hz	134.5	150.5	930×775×1690+(1340×775×1690)×2	10500+15400+16500	110	Φ19.05	Φ31.8	Φ38.1	23.5+39.3+49	25+40+50	243+325+385
50	GMV-VQ1400WM/C-X	380-415V 3N~50/60 Hz	140.0	156.5	930×775×1690+(1340×775×1690)×2	11100+15400+16500	110	Φ19.05	Φ38.1	Φ41.3	24.1+39.3+49	25+40+50	256+325+385
52	GMV-VQ1455WM/C-X	380-415V 3N~50/60 Hz	145.5	163.5	930×775×1690+(1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ38.1	Φ41.3	23.5+48+49	25+50+50	243+385×2
54	GMV-VQ1510WM/C-X	380-415V 3N~50/60 Hz	151.0	169.5	930×775×1690+(1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ38.1	Φ41.3	23.5+49+49	25+50+50	243+385×2
56	GMV-VQ1565WM/C-X	380-415V 3N~50/60 Hz	156.5	175.5	930×775×1690+(1340×775×1690)×2	11100+16500×2	110	Φ19.05	Φ38.1	Φ41.3	24.1+49+49	25+50+50	256+385×2
58	GMV-VQ1630WM/C-X	380-415V 3N~50/60 Hz	163.0	183.0	(1340×775×1690)×3	13500+16500×2	110	Φ19.05	Φ38.1	Φ41.3	37.5+49+49	40+50+50	325+385×2
60	GMV-VQ1680WM/C-X	380-415V 3N~50/60 Hz	168.0	188.0	(1340×775×1690)×3	15400+16500×2	110	Φ19.05	Φ38.1	Φ41.3	39.3+49+49	40+50+50	325+385×2
62	GMV-VQ1734WM/C-X	380-415V 3N~50/60 Hz	173.4	194.5	(1340×775×1690)×3	16000+16500×2	110	Φ19.05	Φ38.1	Φ41.3	47+49+49	50+50+50	385×3
64	GMV-VQ1790WM/C-X	380-415V 3N~50/60 Hz	179.0	201.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ38.1	Φ41.3	48+49+49	50+50+50	385×3
66	GMV-VQ1845WM/C-X	380-415V 3N~50/60 Hz	184.5	207.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ38.1	Φ41.3	49+49+49	50+50+50	385×3
68	GMV-VQ1905WM/C-X	380-415V 3N~50/60 Hz	190.5	213.5	930×775×1690+(1340×775×1690)×3	10500+15400+16500×2	110	Φ22.2	Φ41.3	Φ44.5	23.5+39.3+48+49	25+40+50+50	243+325+385×2
70	GMV-VQ1959WM/C-X	380-415V 3N~50/60 Hz	195.9	220.0	930×775×1690+(1340×775×1690)×3	10500+16000+16500×2	110	Φ22.2	Φ41.3	Φ44.5	23.5+47+48+49	25+50+50+50	243+385×3
72	GMV-VQ2015WM/C-X	380-415V 3N~50/60 Hz	201.5	226.5	930×775×1690+(1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+48+48+49	25+50+50+50	243+385×3
74	GMV-VQ2070WM/C-X	380-415V 3N~50/60 Hz	207.0	232.5	930×775×1690+(1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+48+49+49	25+50+50+50	243+385×3
76	GMV-VQ2125WM/C-X	380-415V 3N~50/60 Hz	212.5	238.5	930×775×1690+(1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+49+49+49	25+50+50+50	243+385×3
78	GMV-VQ2180WM/C-X	380-415V 3N~50/60 Hz	218.0	244.5	930×775×1690+(1340×775×1690)×3	11100+16500×3	110	Φ22.2	Φ41.3	Φ44.5	24.1+49+49+49	25+50+50+50	256+385×3
80	GMV-VQ2245WM/C-X	380-415V 3N~50/60 Hz	224.5	252.0	(1340×775×1690)×4	13500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	37.5+49+49+49	40+50+50+50	325+385×3
82	GMV-VQ2295WM/C-X	380-415V 3N~50/60 Hz	229.5	257.0	(1340×775×1690)×4	15400+16500×3	110	Φ22.2	Φ41.3	Φ44.5	39.3+49+49+49	40+50+50+50	325+385×3
84	GMV-VQ2349WM/C-X	380-415V 3N~50/60 Hz	234.9	263.5	(1340×775×1690)×4	16000+16500×3	110	Φ22.2	Φ41.3	Φ44.5	47+49+49+49	50+50+50+50	385×4
86	GMV-VQ2405WM/C-X	380-415V 3N~50/60 Hz	240.5	270.0	(1340×775×1690)×4	16500×4	110	Φ22.2	Φ41.3	Φ44.5	48+49+49+49	50+50+50+50	385×4
88	GMV-VQ2460WM/C-X	380-415V 3N~50/60 Hz	246.0	276.0	(1340×775×1690)×4	16500×4	110	Φ22.2	Φ41.3	Φ44.5	49+49+49+49	50+50+50+50	385×4

Note: The combination models of the outdoor units are not Eurovent certified.

# Gree Multi VRF GMV X



GMV X-Heat Pump



GMV X-Cooling Only

## GMV X Heat Pump

- High-efficiency EVI Compressor
- High-efficiency Heat Exchanger Design
- Multiple Protection Technologies
- CAN+ Communication Technology
- Intelligent Control and Management
- Clean and Healthy Fresh Air
- Multiple Professional Noise Reduction Technologies
- Precise Oil Control for Stable Operation of Compressor
- Self-adaptive Drive Technology
- Super Long Refrigerant Pipe Design
- High Static Pressure Design



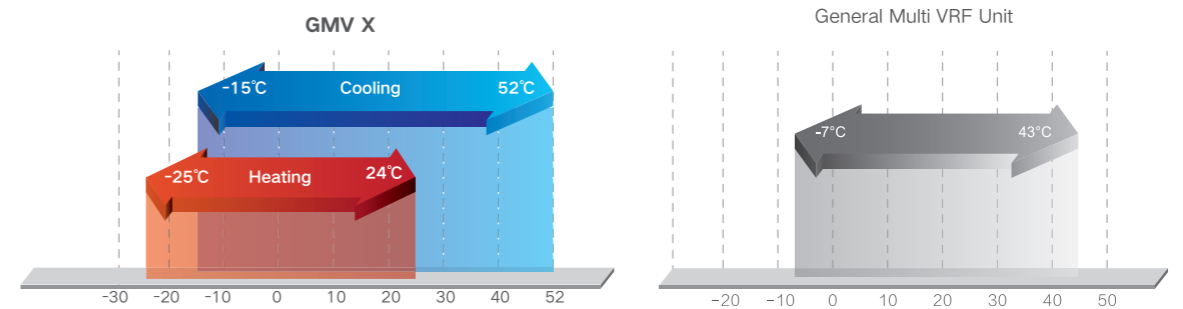
### Wide Capacity Range

15 basic models with a capacity range of 8HP~36HP, support 4-module combination. The maximum combination is 128HP for wider cooling capacity range, and the adaptability of engineering capacity design is further improved.



### Wide Operation Range

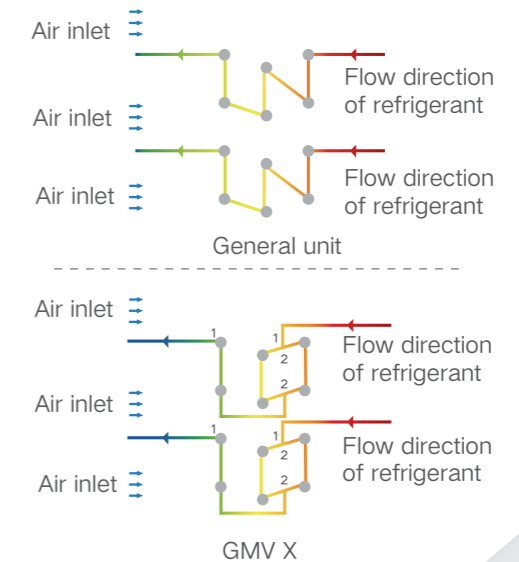
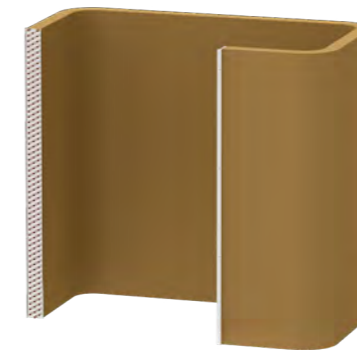
-25°C~52°C stable operation to provide users with comfortable environment in both cold and hot weather, operating ambient temperature for cooling can be as low as -15°C.



Note:  
Cooling at -15~-5°C is conditional. Please inquire our engineers for more information. Generally, the lowest operating temperature for cooling is -5°C.

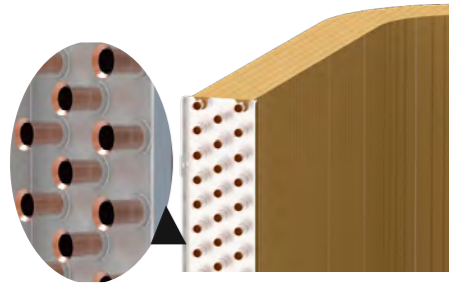
### Super-large High-efficiency Heat Exchanger Design

The advanced integrated molding process scheme is adopted. The length of the single heat exchanger is up to 3.6m, which improves the space utilization efficiency, the heat exchanger area and the heat exchange efficiency. The differential partition design of the flow path of the heat exchanger makes the flow more reasonable; combined with the 1-2-2-1 flow path design, the efficiency is higher.



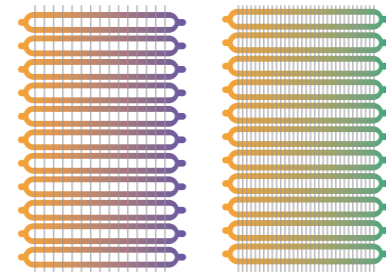
## Multi-row Small Diameter Design

High-efficiency multi-row small pipe diameter design is adopted, which improves the heat exchange coefficient and overall heat exchange effect.



## Small Pitch Corrugated Heat Exchanger Fins

Small-spacing corrugated heat exchange fins with hydrophilicity is adopted, so that the overall heat exchange efficiency is higher and the corrosion resistance is stronger for easier defrosting.



Others

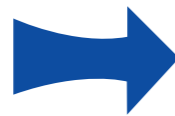
GMV X

## Ultra-large Displacement Compressor Design

Ultra-large displacement compressor is adopted, so that the compressor quantity of the same cooling capacity is less, resulting in higher energy efficiency and more reliable system.



Others



GMV X

## Compressors Combination with Different Capacities

Some units use the combination of a large-capacity compressor and a small-capacity compressor, which greatly improves the adjustment accuracy comparing with two compressors of the same capacity.



Others

VS

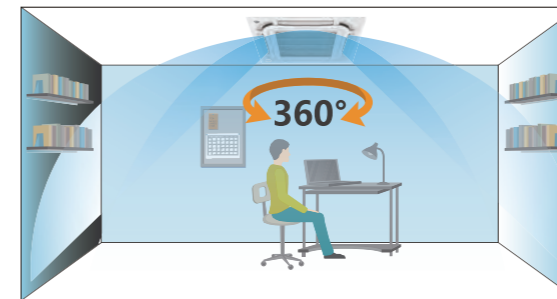


GMV X

## Comfortable and Healthy Experience

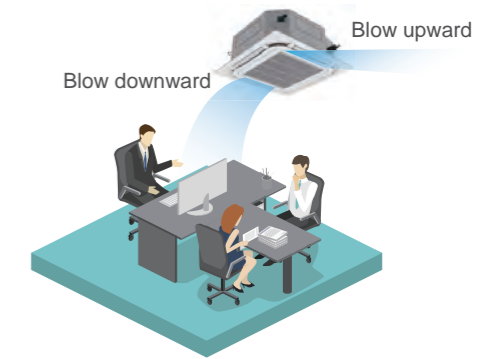
### 360° Surrounding Airflow

Wide air supply range, more uniform temperature distribution, more comfortable experience.



### Independent Swing Control

The four air louvers can be controlled independently, and the air supply direction can be adjusted independently to achieve different angle combinations to avoid direct air blowing.

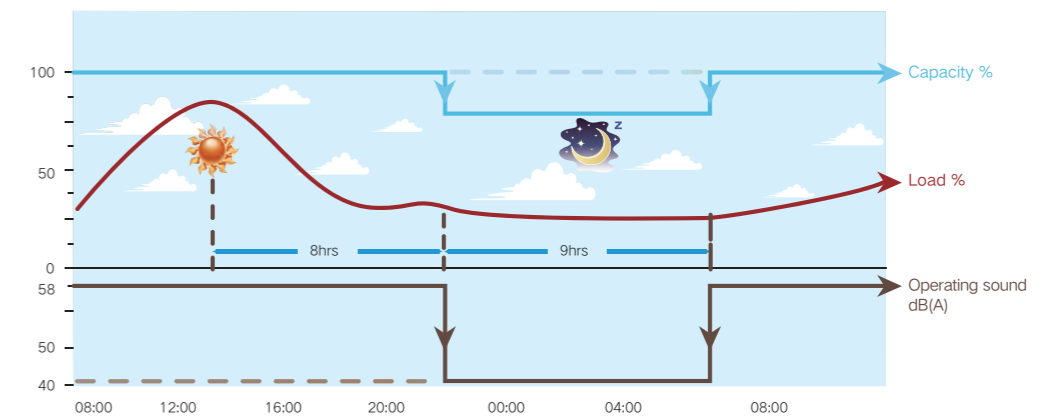


\* This function needs to be used with wired controller XE70-33/H.

## Noise Control Technology

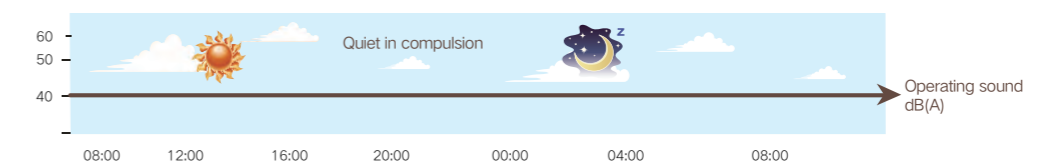
### Quiet at Night

The system can record the highest outdoor temperature. At night, the system will automatically turn to quiet mode. There are 9 quiet modes which can be set according to actual needs. For example, the unit can automatically enter night mode after working for 8 hours, and resume to normal operating mode after 9 hours.



### Quiet in Compulsion

When the unit is installed in an environment with high noise requirements, it needs to be operated silently during the day or night. Then you can choose three mandatory settings of quiet modes to ensure that the unit operates in low noise mode at any time, and the noise value can be as low as 40dB (A).

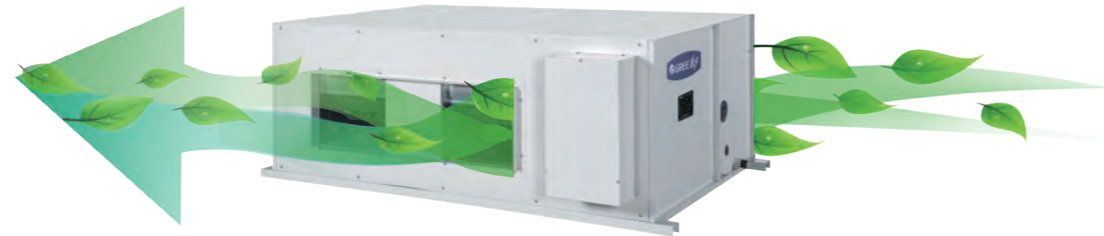


## Clean and Healthy Fresh Air

### Fresh Air System

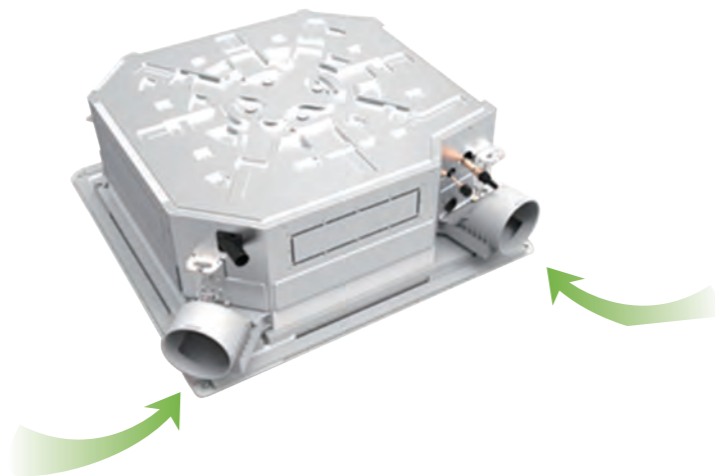
GMV X can be matched with fresh air indoor unit and ERV system. Meanwhile, fresh air accessory, high-efficiency filter and other clean and healthy fresh air solutions are optional, to achieve dual functions of air conditioning and fresh air, and greatly improve the indoor air quality.

Fresh Air System satisfies multiple indoor fresh air supply demands.



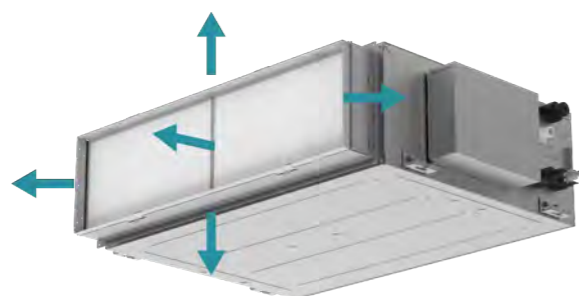
### Fresh Air Accessory

The Cassette type unit can be work with fresh air accessory to efficiently introduce 8%~10% of outdoor fresh air.



### High-efficiency Filter

The high-efficiency filter can effectively remove PM2.5. One pass purification efficiency  $\geq 90\%$ .



Model		GMV-224WM/B-X(P)	GMV-280WM/B-X(P)	GMV-335WM/B-X(P)	GMV-400WM/B-X(P)	GMV-450WM/B-X(P)	
Capacity range	HP	8	10	12	14	16	
Cooling capacity	kW	22.4	28.0	33.5	40.0	45.0	
Heating capacity	kW	25.0	31.5	37.5	45.0	50.0	
EER	W/W	4.55	4.30	4.14	4.14	3.97	
COP	W/W	5.23	5.08	4.58	4.51	4.45	
Power supply	V/Ph/Hz	380-415V 3N~ 50/60Hz					
Min. circuit/Max. fuse current	A	19.9/20.0	22.4/25.0	23.3/25.0	28.8/32.0	31.0/32.0	
Max. power input	kW	11.10	12.50	13.02	16.50	17.50	
Power consumption	Cooling	kW	4.92	6.51	8.09	9.66	11.34
	Heating	kW	4.78	6.20	8.19	9.98	11.24
Airflow volume	m <sup>3</sup> /h	9750	10500	11100	13500	15400	
ESP	Pa	80	80	80	80	80	
Max. drive IDU NO.	unit	13	16	19	23	26	
Sound pressure level	dB(A)	58	59	61	61	62	
Refrigerant charge volume	kg	5	5	5.2	6.5	7	
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6
Dimension (W × D × H)	Outline	mm	930 × 775 × 1690	930 × 775 × 1690	930 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1000 × 830 × 1855	1000 × 830 × 1855	1000 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight	kg	210/220	210/220	215/225	280/295	280/295	
Loading quantity	40' GP	unit	28	28	28	22	22
	40' HQ	unit	28	28	28	22	22

Model		GMV-504WM/B-X(P)	GMV-560WM/B-X(P)	GMV-615WM/B-X(P)	GMV-680WM/B-X(P)	GMV-730WM/B-X(P)	
Capacity range	HP	18	20	22	24	26	
Cooling capacity	kW	50.4	56.0	61.5	68.0	73.0	
Heating capacity	kW	56.5	63.0	69.0	76.0	82.5	
EER	W/W	3.90	3.86	3.62	3.32	3.42	
COP	W/W	4.17	4.13	3.89	3.60	3.78	
Power supply	V/Ph/Hz	380-415V 3N~ 50/60Hz					
Min. circuit/Max. fuse current	A	31.5/40.0	39.3/40.0	46.1/50.0	46.1/50.0	49.3/63.0	
Max. power input	kW	18.00	22.00	25.80	26.47	30.00	
Power consumption	Cooling	kW	12.92	14.49	17.01	20.50	21.50
	Heating	kW	13.55	15.25	17.75	21.11	21.80
Airflow volume	m <sup>3</sup> /h	16000	16500	16500	16500	26000	
ESP	Pa	80	80	80	80	50*	
Max. drive IDU NO.	unit	29	33	36	39	43	
Sound pressure level	dB(A)	63	64	65	66	66	
Refrigerant charge volume	kg	7.5	7.5	7.8	7.8	11	
Connecting pipe	Liquid	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ31.8
Dimension (W × D × H)	Outline	mm	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1760 × 835 × 1795
	Package	mm	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1828 × 913 × 1986
Net weight/Gross weight	kg	285/300	325/340	325/340	325/340	425/450	
Loading quantity	40' GP	unit	22	22	22	22	13
	40' HQ	unit	22	22	22	22	13

Notes:

1. Cooling Capacity: indoor temp.: 27°C DB, 19°C WB, outdoor temp.: 35°C DB, equivalent piping length: 7.5 m, level difference: 0 m. Heating Capacity: indoor temp.: 20°C DB, outdoor temp.: 7°C DB, 6°C WB, equivalent piping length: 7.5 m, level difference: 0 m.
2. Sound Pressure Level: Anechoic chamber conversion value, measured at a position in front of the unit in a semi-anechoic room. During actual operation, the value may be higher due to ambient noise and echoes of the installation conditions.
3. For the model of GMV-730~1010WM/B-X(P), customized engineering service is needed if the outdoor static pressure is more than 0Pa.



# ODU Specifications

Model		GMV-785WM/B-X(P)	GMV-850WM/B-X(P)	GMV-900WM/B-X(P)	GMV-952WM/B-X(P)	GMV-1010WM/B-X(P)	
Capacity range	HP	28	30	32	34	36	
Cooling capacity	kW	78.5	85.0	90.0	95.2	101.0	
Heating capacity	kW	87.5	95.0	100.0	106.0	112.0	
EER	W/W	3.27	3.20	3.14	3.08	3.01	
COP	W/W	3.60	3.52	3.39	3.35	3.27	
Power supply	V/Ph/Hz	380-415V 3N~ 50/60Hz					
Min. circuit/Max. fuse current	A	52.2/63.0	57.2/63.0	58.7/63.0	60.1/63.0	61.8/63.0	
Max. power input	kW	31.80	34.85	35.65	36.50	37.50	
Power consumption	Cooling	kW	24.00	26.60	28.70	30.90	33.60
	Heating	kW	24.30	27.00	29.50	31.60	34.20
Airflow volume	m <sup>3</sup> /h	26000	26000	28000	28000	28000	
ESP	Pa	50*	50*	50*	50*	50*	
Max. drive IDU NO.	unit	46	50	53	56	59	
Sound pressure level	dB(A)	67	67	68	68	69	
Refrigerant charge volume	kg	11	11	12	12	12	
Connecting pipe	Liquid	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	
	Gas	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8	
Dimension (W × D × H)	Outline	mm	1760 × 835 × 1795	1760 × 835 × 1795	1760 × 835 × 1795	1760 × 835 × 1795	
	Package	mm	1828 × 913 × 1986	1828 × 913 × 1986	1828 × 913 × 1986	1828 × 913 × 1986	
Net weight/Gross weight	kg	425/450	425/450	455/480	455/480	455/480	
Loading quantity	40' GP	unit	13	13	13	13	
	40' HQ	unit	13	13	13	13	

**Notes:**

1. Cooling Capacity: indoor temp.: 27°C DB, 19°C WB, outdoor temp.: 35°C DB, equivalent piping length: 7.5 m, level difference: 0 m.  
Heating Capacity: indoor temp.: 20°C DB, outdoor temp.: 7°C DB, 6°C WB, equivalent piping length: 7.5 m, level difference: 0 m.
2. Sound Pressure Level: Anechoic chamber conversion value, measured at a position in front of the unit in a semi-anechoic room. During actual operation, the value may be higher due to ambient noise and echoes of the installation conditions.
3. For the model of GMV-730~1010WM/B-X(P), customized engineering service is needed if the outdoor static pressure is more than 0Pa.

# ODU Combination Lineup

HP	Model	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
8	GMV-224WM/B-X(P)	●														
10	GMV-280WM/B-X(P)		●													
12	GMV-335WM/B-X(P)			●												
14	GMV-400WM/B-X(P)				●											
16	GMV-450WM/B-X(P)					●										
18	GMV-504WM/B-X(P)						●									
20	GMV-560WM/B-X(P)							●								
22	GMV-615WM/B-X(P)								●							
24	GMV-680WM/B-X(P)									●						
26	GMV-730WM/B-X(P)										●					
28	GMV-785WM/B-X(P)											●				
30	GMV-850WM/B-X(P)												●			
32	GMV-900WM/B-X(P)													●		
34	GMV-952WM/B-X(P)														●	
36	GMV-1010WM/B-X(P)															●
38	GMV-1065WM/B-X(P)					●			●							
40	GMV-1119WM/B-X(P)						●		●							
42	GMV-1184WM/B-X(P)						●			●						
44	GMV-1230WM/B-X(P)								●●							
46	GMV-1295WM/B-X(P)								●	●						
48	GMV-1360WM/B-X(P)									●●						
50	GMV-1410WM/B-X(P)							●					●			
52	GMV-1465WM/B-X(P)								●				●			
54	GMV-1530WM/B-X(P)									●			●			
56	GMV-1580WM/B-X(P)									●				●		
58	GMV-1635WM/B-X(P)											●	●			
60	GMV-1700WM/B-X(P)												●●			
62	GMV-1750WM/B-X(P)												●	●		
64	GMV-1795WM/B-X(P)											●				●
66	GMV-1860WM/B-X(P)												●			●
68	GMV-1910WM/B-X(P)													●		●
70	GMV-1962WM/B-X(P)														●	●
72	GMV-2020WM/B-X(P)															●●
74	GMV-2080WM/B-X(P)								●●				●			
76	GMV-2145WM/B-X(P)								●	●			●			
78	GMV-2210WM/B-X(P)									●●			●			
80	GMV-2240WM/B-X(P)								●●							●
82	GMV-2312WM/B-X(P)									●●					●	
84	GMV-2370WM/B-X(P)									●●						●
86	GMV-2430WM/B-X(P)									●			●	●		
88	GMV-2480WM/B-X(P)									●				●●		
90	GMV-2532WM/B-X(P)									●				●	●	
92	GMV-2584WM/B-X(P)									●					●●	
94	GMV-2642WM/B-X(P)									●					●	●
96	GMV-2700WM/B-X(P)									●						●●
98	GMV-2754WM/B-X(P)												●		●●	
100	GMV-2812WM/B-X(P)												●		●	●
102	GMV-2870WM/B-X(P)												●			●●
104	GMV-2920WM/B-X(P)													●		●●
106	GMV-2972WM/B-X(P)														●	●●
108	GMV-3030WM/B-X(P)															●●●
110	GMV-3110WM/B-X(P)									●●			●	●		
112	GMV-3160WM/B-X(P)									●●				●●		
114	GMV-3195WM/B-X(P)							●	●							●●
116	GMV-3250WM/B-X(P)								●●							●●
118	GMV-3315WM/B-X(P)								●	●						●●
120	GMV-3380WM/B-X(P)									●●						●●
122	GMV-3430WM/B-X(P)										●			●●●		
124	GMV-3485WM/B-X(P)											●		●●●		
126	GMV-3550WM/B-X(P)												●	●●●		
128	GMV-3600WM/B-X(P)													●●●●		

# ODU Combination Lineup

# ODU Combination Specifications

HP	Model	Power supply	Capacity		Power input		Dimension(W×D×H)	Airflow volume	ESP	Connecting pipe		Min. circuit current	Max. fuse current	Net weight
			Cooling	Heating	Cooling	Heating				Liquid	Gas			
			kW	kW	kW	kW								
38	GMV-1065WM/B-X(P)	380-415V 3N-50/60Hz	106.5	119.0	28.35	28.99	(1340×775×1690)×2	15400+16500	50	Φ19.05	Φ38.1	31.0+46.1	32+50	280+325
40	GMV-1119WM/B-X(P)		111.9	125.5	29.93	31.30	(1340×775×1690)×2	16000+16500	50	Φ19.05	Φ38.1	31.5+46.1	40+50	285+325
42	GMV-1184WM/B-X(P)		118.4	132.5	33.42	34.66	(1340×775×1690)×2	16000+16500	50	Φ19.05	Φ38.1	31.5+46.1	40+50	285+325
44	GMV-1230WM/B-X(P)		123.0	138.0	34.02	35.50	(1340×775×1690)×2	16500+16500	50	Φ19.05	Φ38.1	46.1+46.1	50+50	325×2
46	GMV-1295WM/B-X(P)		129.5	145.0	37.51	38.86	(1340×775×1690)×2	16500×2	50	Φ19.05	Φ38.1	46.1+46.1	50+50	325×2
48	GMV-1360WM/B-X(P)		136.0	152.0	41.00	42.22	(1340×775×1690)×2	16500×2	50	Φ19.05	Φ38.1	46.1+46.1	50+50	325×2
50	GMV-1410WM/B-X(P)		141.0	158.0	41.09	42.25	(1340×775×1690) +(1760×835×1795)	16500+26000	50	Φ19.05	Φ41.3	39.3+57.2	40+63	325+425
52	GMV-1465WM/B-X(P)		146.5	164.0	43.61	44.75	(1340×775×1690) +(1760×835×1795)	16500+26000	50	Φ19.05	Φ41.3	46.1+57.2	50+63	325+425
54	GMV-1530WM/B-X(P)		153.0	171.0	47.10	48.11	(1340×775×1690) +(1760×835×1795)	16500+26000	50	Φ19.05	Φ41.3	46.1+57.2	50+63	325+425
56	GMV-1580WM/B-X(P)		158.0	176.0	49.20	50.61	(1340×775×1690) +(1760×835×1795)	16500+28000	50	Φ19.05	Φ41.3	46.1+58.7	50+63	325+455
58	GMV-1635WM/B-X(P)		163.5	182.5	50.60	51.30	(1760×835×1795)×2	26000×2	50	Φ19.05	Φ41.3	52.2+57.2	63+63	425×2
60	GMV-1700WM/B-X(P)		170.0	190.0	53.20	54.00	(1760×835×1795)×2	26000×2	50	Φ19.05	Φ41.3	57.2+57.2	63+63	425×2
62	GMV-1750WM/B-X(P)		175.0	195.0	55.30	56.50	(1760×835×1795)×2	26000+28000	50	Φ19.05	Φ41.3	57.2+58.7	63+63	425+455
64	GMV-1795WM/B-X(P)		179.5	199.5	57.60	58.50	(1760×835×1795)×2	26000+28000	50	Φ19.05	Φ41.3	52.2+61.8	63+63	425+455
66	GMV-1860WM/B-X(P)		186.0	207.0	60.20	61.20	(1760×835×1795)×2	26000+28000	50	Φ19.05	Φ41.3	57.2+61.8	63+63	425+455
68	GMV-1910WM/B-X(P)		191.0	212.0	62.30	63.70	(1760×835×1795)×2	28000×2	50	Φ22.2	Φ44.5	58.7+61.8	63+63	455×2
70	GMV-1962WM/B-X(P)		196.2	218.0	64.50	65.80	(1760×835×1795)×2	28000×2	50	Φ22.2	Φ44.5	60.1+61.8	63+63	455×2
72	GMV-2020WM/B-X(P)		202.0	224.0	67.20	68.40	(1760×835×1795)×2	28000×2	50	Φ22.2	Φ44.5	61.8+61.8	63+63	455×2
74	GMV-2080WM/B-X(P)		208.0	233.0	60.62	62.50	(1340×775×1690)×2 +(1760×835×1795)	16500×2+26000	50	Φ22.2	Φ44.5	46.1+46.1 +57.2	50+50+63	325×2+425
76	GMV-2145WM/B-X(P)		214.5	240.0	64.11	65.86	(1340×775×1690)×2 +(1760×835×1795)	16500×2+26000	50	Φ22.2	Φ44.5	46.1+46.1 +57.2	50+50+63	325×2+425
78	GMV-2210WM/B-X(P)		221.0	247.0	67.60	69.22	(1340×775×1690)×2 +(1760×835×1795)	16500×2+26000	50	Φ22.2	Φ44.5	46.1+46.1 +57.2	50+50+63	325×2+425
80	GMV-2240WM/B-X(P)		224.0	250.0	67.62	69.70	(1340×775×1690)×2 +(1760×835×1795)	16500×2+28000	50	Φ22.2	Φ44.5	46.1+46.1 +61.8	50+50+63	325×2+455
82	GMV-2312WM/B-X(P)		231.2	258.0	71.90	73.82	(1340×775×1690)×2 +(1760×835×1795)	16500×2+28000	50	Φ22.2	Φ44.5	46.1+46.1 +60.1	50+50+63	325×2+455

HP	Model	Power supply	Capacity		Power input		Dimension(W×D×H)	Airflow volume	ESP	Connecting pipe		Min. circuit current	Max. fuse current	Net weight
			Cooling	Heating	Cooling	Heating				Liquid	Gas			
			kW	kW	kW	kW								
84	GMV-2370WM/B-X(P)	380-415V 3N-50/60Hz	237.0	264.0	74.60	76.42	(1340×775×1690)×2 +(1760×835×1795)	16500×2+28000	50	Φ22.2	Φ44.5	46.1+46.1 +61.8	50+50+63	325×2+455
86	GMV-2430WM/B-X(P)		243.0	271.0	75.80	77.61	(1340×775×1690) +(1760×835×1795)×2	16500+26000 +28000	50	Φ22.2	Φ44.5	46.1+57.2 +58.7	50+63+63	325+425+455
88	GMV-2480WM/B-X(P)		248.0	276.0	77.90	80.11	(1340×775×1690) +(1760×835×1795)×2	16500+28000×2	50	Φ22.2	Φ44.5	46.1+58.7 +58.7	50+63+63	325+455×2
90	GMV-2532WM/B-X(P)		253.2	282.0	80.10	82.21	(1340×775×1690) +(1760×835×1795)×2	16500+28000×2	50	Φ22.2	Φ44.5	46.1+58.7 +60.1	50+63+63	325+455×2
92	GMV-2584WM/B-X(P)		258.4	288.0	82.30	84.31	(1340×775×1690) +(1760×835×1795)×2	16500+28000×2	50	Φ22.2	Φ44.5	46.1+60.1 +60.1	50+63+63	325+455×2
94	GMV-2642WM/B-X(P)		264.2	294.0	85.00	86.91	(1340×775×1690) +(1760×835×1795)×2	16500+28000×2	50	Φ22.2	Φ44.5	46.1+60.1 +61.8	50+63+63	325+455×2
96	GMV-2700WM/B-X(P)		270.0	300.0	87.70	89.51	(1340×775×1690) +(1760×835×1795)×2	16500+28000×2	50	Φ22.2	Φ44.5	46.1+61.8+61.8	50+63+63	325+455×2
98	GMV-2754WM/B-X(P)		275.4	307.0	88.40	90.20	(1760×835×1795)×3	26000+28000×2	50	Φ25.4	Φ51.4	57.2+60.1+60.1	63+63+63	425+455×2
100	GMV-2812WM/B-X(P)		281.2	313.0	91.10	92.80	(1760×835×1795)×3	26000+28000×2	50	Φ25.4	Φ51.4	57.2+60.1+61.8	63+63+63	425+455×2
102	GMV-2870WM/B-X(P)		287.0	319.0	93.80	95.40	(1760×835×1795)×3	26000+28000×2	50	Φ25.4	Φ51.4	57.2+61.8+61.8	63+63+63	425+455×2
104	GMV-2920WM/B-X(P)		292.0	324.0	95.90	97.90	(1760×835×1795)×3	28000×3	50	Φ25.4	Φ51.4	58.7+61.8+61.8	63+63+63	455×3
106	GMV-2972WM/B-X(P)		297.2	330.0	98.10	100.00	(1760×835×1795)×3	28000×3	50	Φ25.4	Φ51.4	60.1+61.8+61.8	63+63+63	455×3
108	GMV-3030WM/B-X(P)		303.0	336.0	100.80	102.60	(1760×835×1795)×3	28000×3	50	Φ25.4	Φ51.4	61.8+61.8+61.8	63+63+63	455×3
110	GMV-3110WM/B-X(P)		311.0	347.0	96.30	98.72	(1340×775×1690)×2 +(1760×835×1795)×2	16500×2+ 26000+28000	50	Φ25.4	Φ51.4	46.1+46.1 +57.2+58.7	50+50 +63+63	325×2 +425+455
112	GMV-3160WM/B-X(P)		316.0	352.0	98.40	101.22	(1340×775×1690)×2 +(1760×835×1795)×2	16500×2 +28000×2	50	Φ25.4	Φ51.4	46.1+46.1 +58.7+58.7	50+50 +63+63	325×2 +455×2
114	GMV-3195WM/B-X(P)		319.5	356.0	98.70	101.40	(1340×775×1690)×2 +(1760×835×1795)×2	16500×2 +28000×2	50	Φ25.4	Φ51.4	39.3+46.1 +61.8+61.8	40+50 +63+63	325×2 +455×2
116	GMV-3250WM/B-X(P)		325.0	362.0	101.22	103.90	(1340×775×1690)×2 +(1760×835×1795)×2	16500×2 +28000×2	50	Φ25.4	Φ51.4	46.1+46.1 +61.8+61.8	50+50 +63+63	325×2 +455×2
118	GMV-3315WM/B-X(P)		331.5	369.0	104.71	107.26	(1340×775×1690)×2 +(1760×835×1795)×2	16500×2 +28000×2	50	Φ25.4	Φ51.4	46.1+46.1 +61.8+61.8	50+50 +63+63	325×2 +455×2
120	GMV-3380WM/B-X(P)		338.0	376.0	108.20	110.62	(1340×775×1690)×2 +(1760×835×1795)×2	16500×2 +28000×2	50	Φ25.4	Φ51.4	46.1+46.1 +61.8+61.8	50+50 +63+63	325×2 +455×2
122	GMV-3430WM/B-X(P)		343.0	382.5	107.60	110.30	(1760×835×1795)×4	26000+28000×3	50	Φ25.4	Φ51.4	49.3+58.7 +58.7+58.7	63+63 +63+63	425+455×3
124	GMV-3485WM/B-X(P)		348.5	387.5	110.10	112.80	(1760×835×1795)×4	26000+28000×3	50	Φ25.4	Φ51.4	52.2+58.7 +58.7+58.7	63+63 +63+63	425+455×3
126	GMV-3550WM/B-X(P)		355.0	395.0	112.70	115.50	(1760×835×1795)×4	26000+28000×3	50	Φ25.4	Φ51.4	57.2+58.7 +58.7+58.7	63+63 +63+63	425+455×3
128	GMV-3600WM/B-X(P)		360.0	400.0	114.80	118.00	(1760×835×1795)×4	28000×4	50	Φ25.4	Φ51.4	58.7+58.7 +58.7+58.7	63+63 +63+63	455×4

GMV X Cooling Only

Gree Multi VRF  
GMV X

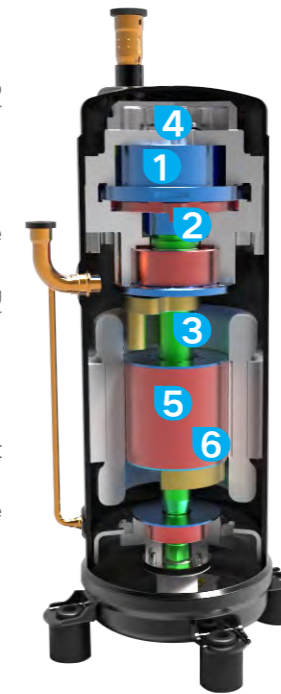


Efficient Performance

New High-efficiency Scroll Compressor

The efficient scroll compressor adopts superior high-pressure cavity design, without inhalation and overheating loss, and can achieve 0-390Hz speed adjustment.

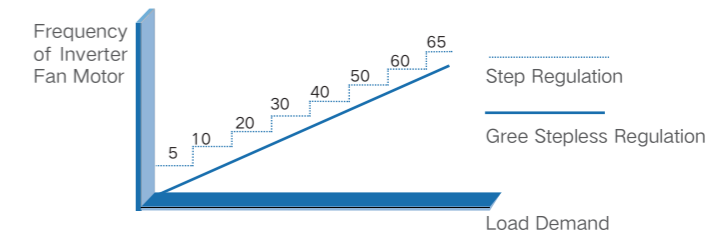
- 1** High-strength asymmetric line  
Adopt the high-strength asymmetric line to effectively reduce the loss of air inhalation and air exhaust for improving the volumetric efficiency.
- 2** Floating back pressure step-type axial sealing  
Automatically adjust the seal with the working conditions, realizing efficient compression under the whole working conditions.
- 3** Low-modal rotor bearing support structure  
Low noise operation under 10-130rps wide rotating speed range



- 4** Exhaust pulse inhibitory structure  
Reduce the noise for quiet operation.
- 5** High convex ratio design  
The new high-efficiency magnetic reluctance motor, with multi-layer magnetic barrier structure, is stronger than ordinary DC inverter motor, with strong magnetic ability and high efficiency.
- 6** High-reliable permanent magnet  
It adopts permanent magnet with positive coercivity coefficient. Its resistance to demagnetization increases with the temperature rising. It's suitable for high temperature and high pressure environment.

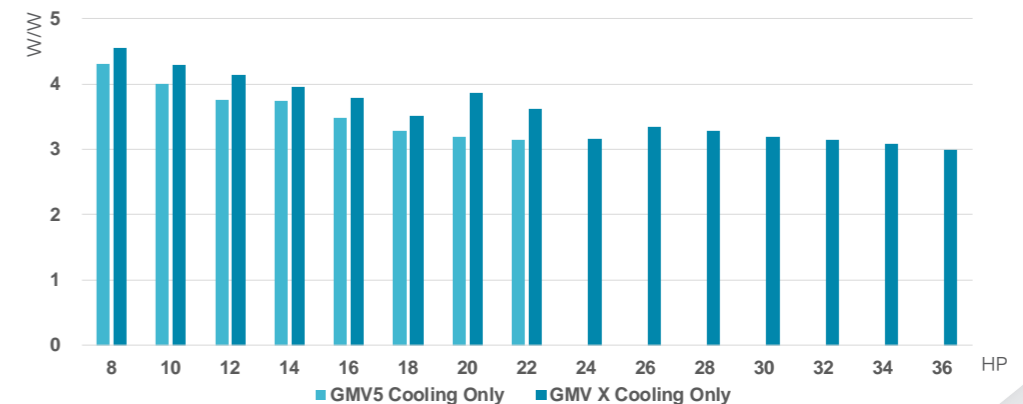
Sensorless DC Inverter Fan Motor

Adopt the DC inverter motor with high back electromotive force to realize stepless speed adjustment within 5~65Hz, and the precision is 1Hz, with low operating current, low motor input power, and high efficiency.



High Efficiency and Energy Saving

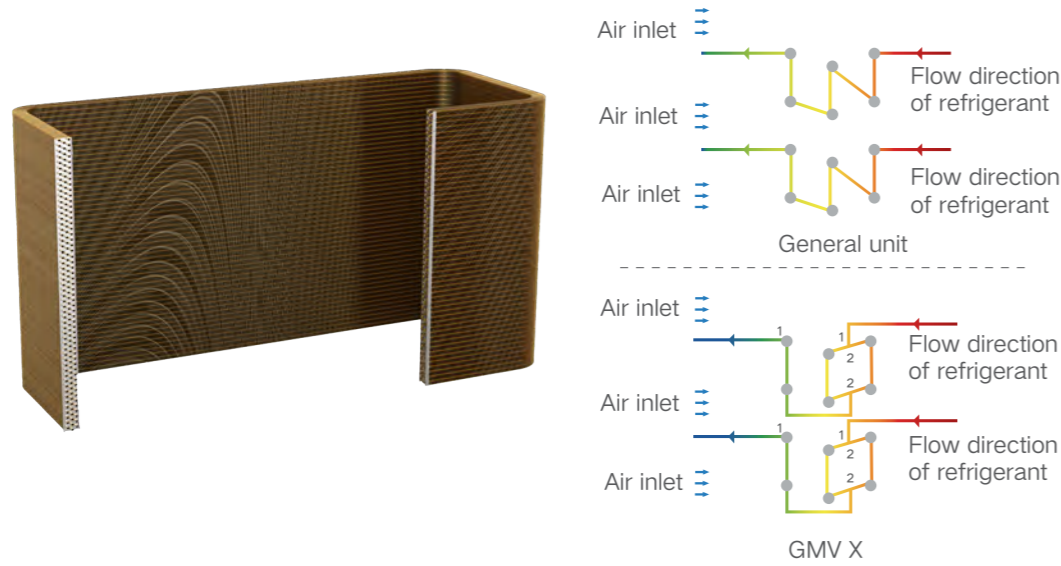
With the new generation of high-efficiency system design, EER has been increased by 10% compared with the previous generation.



## The Largest Overall High-efficiency G-shape Heat Exchanger

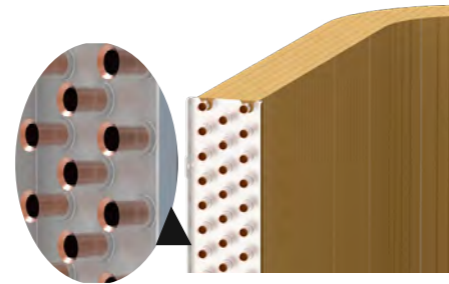
### G-shape Integrated Heat Exchanger

The advanced integrated molding process scheme is adopted. The length of the single heat exchanger is up to 4.2m, which improves the space utilization efficiency, the heat exchanger area and the heat exchange efficiency. The differential partition design of the flow path of the heat exchanger makes the flow more reasonable; combined with the 1-2-2-1 flow path design, the efficiency is higher.



### Multi-row Small Diameter Design

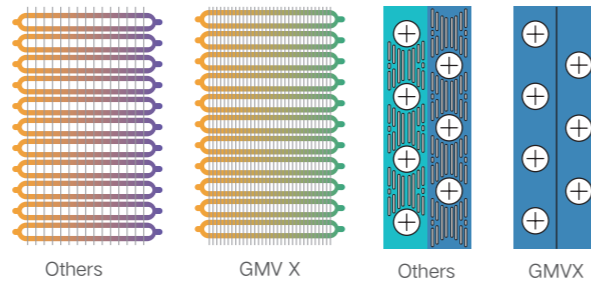
Single pipe of refrigerant pipeline adopts  $\phi 7\text{mm}$  and 3-row design, which can reduce the flowing resistance of refrigerant inside the pipe and effectively increase the heat exchange area of refrigerant, so as to optimize and improve the heat exchange efficiency.



\*Note: Applicable for some models.

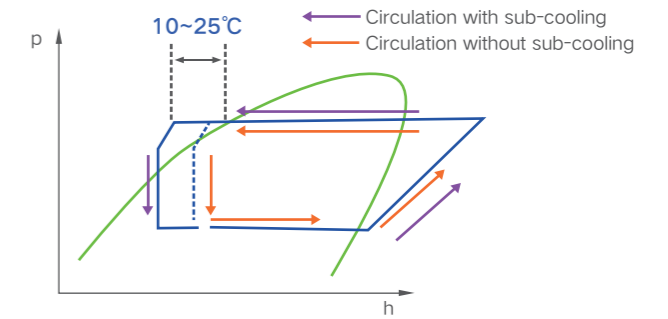
### Small Pitch Corrugated Heat Exchanger Fins

Small pitch corrugated fins design to increase effective contact area between fins and the air, for more sufficient heat exchange of refrigerant and higher heat exchange efficiency.



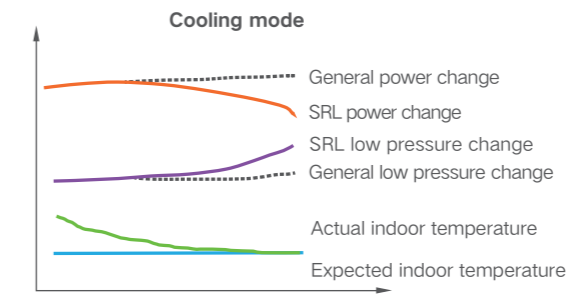
## Enhanced Sub-cooling Design

With maximizing sub-cooling technology, maximum sub-cooling reaches  $25\text{ }^\circ\text{C}$ , which can ensure the operating performance under the long connection pipe.



## SRL Load Self-adapting Control

SRL(Self-Reaction Load) can intelligently detect and control refrigerant pressure and temperature according to user status and indoor temperature changes, automatically adapt to indoor load and achieve energy-saving balance control.



## Double Energy-saving Modes

With the deepening of energy conservation and emission reduction, and the increasing requirements for urban electricity consumption, especially during the peak season of electricity consumption in summer, many cities will issue corresponding electricity curtailment measures. GMV X has a variety of operating modes for users to choose, to meet the city's peak power consumption and power limit requirements.

### Capacity Priority Mode

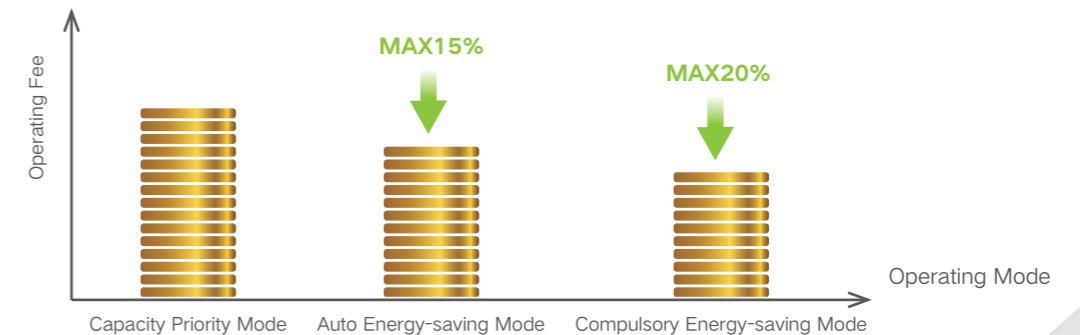
When the power supply is sufficient, it will satisfy the using capacity demand in priority. This mode is default mode.

### Auto Energy-saving Mode

When this mode is activated, the system will automatically adjust the control parameters according to operating status, and automatically balance the capacity and energy consumption to realize the minimization of bilateral impact.

### Compulsory Energy-saving Mode

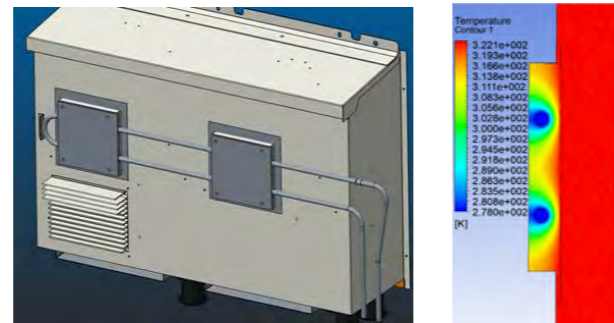
Compulsorily limit the output of outdoor unit to satisfy the using capacity demand in priority. 90% and 80% capacity proportion can be selected to limit the output according to the power consumption of unit and user demand.



## High Reliability

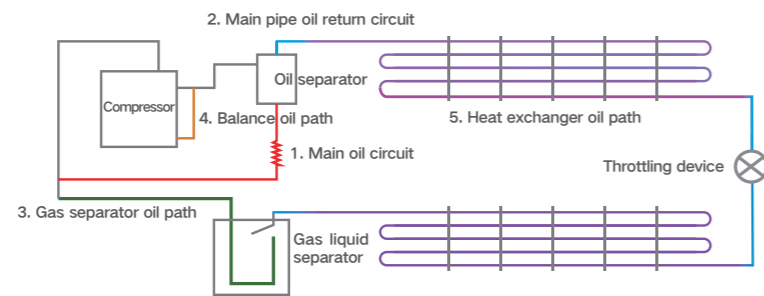
### Refrigerant Cooling Technology

The mainboard uses refrigerant cooling, which improves the operating temperature of the driver components, prolongs the service life, and improves the stability and reliability of the unit.



### Multi Oil Circuit Management

5 major oil paths ensure the smooth and reliable oil circuit.

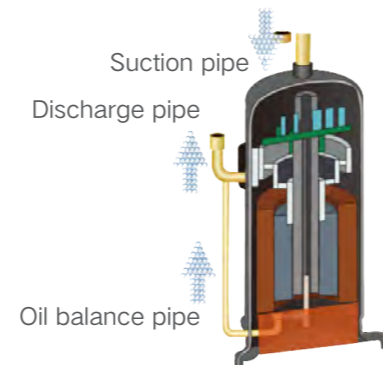


### Reliable Oil Circuit Control Technology

GMV X Cooling Only has four advanced refrigerating oil circulation control technologies of oil separation, oil return, oil balance and oil storage, ensuring the safety and reliability of the compressor operation.

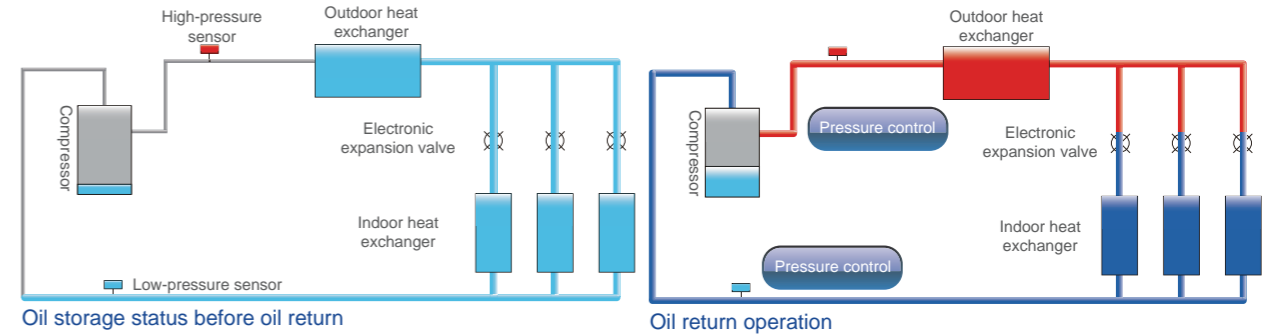
#### Oil Balance Control Technology

Refrigerant is taken into the compressor by the suction pipe and then runs through the cooling system. It can control the oil level and minimum oil volume required by each compressor so as to realize oil balance between each compressor.



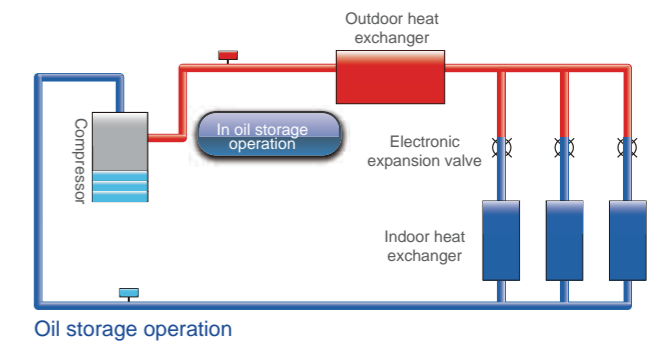
#### New Oil Return Control

Gree new oil return control technology effectively controls system oil return and oil storage status of each compressor, which greatly improves the operation lifespan of compressor.



#### Specialized Compressor Oil Storage Control

The system applies specialized compressor oil storage technology, which can control the lowest oil level for compressor operation.



#### Multiple Corrosion Prevention Technology\*

The multiple corrosion prevention technology protects the unit from the corrosion of high temperature, high humidity and high salt environment, which prolongs the service life of the unit and meets the operation requirements of different environmental conditions.

- 1 The heat exchanger adopts black aluminum fins with acid resistance and high corrosion resistance. The neutral salt spray test time can reach 2,000 hours.
- 2 The sheet metal of the shell is sprayed with high weather resistance powder for corrosion protection. The neutral salt spray test time can reach 1,500 hours.
- 3 The controller surface is coated with multiple layers of special protective materials, with good moisture, mildew and corrosion resistance.
- 4 The grille is treated by phosphating and electrophoresis, and sprayed with high weather resistance powder to enhance the corrosion resistance.
- 5 The external fasteners adopts zinc-nickel alloy coating material for better anti-corrosion performance.
- 6 The surface of the gas-liquid separator is sprayed with special anti-corrosion paint twice to strengthen the corrosion resistance. The neutral salt spray test time can reach 2,000 hours.

\*Note:  
GMV X cooling only series includes two types, which are the standard models and the anti-corrosion models. The above is the treatment solution of the anti-corrosion models. Other additional anti-corrosion requirements can be customized by consulting the engineers. If you need anti-corrosion models, please indicate it when placing an order.



## Easy Installation and Service

### Wide Capacity Range

15 basic models with a capacity range of 8~36HP support up to 4 models combination. The maximum combination is 128HP for wider cooling capacity range, and the adaptability of engineering capacity design is further improved.

15 basic models, capacity range 8HP-36HP



8-24HP combination models: 36  
 Combination models capacity range: 26HP-96HP  
 Support up to 4 models combination

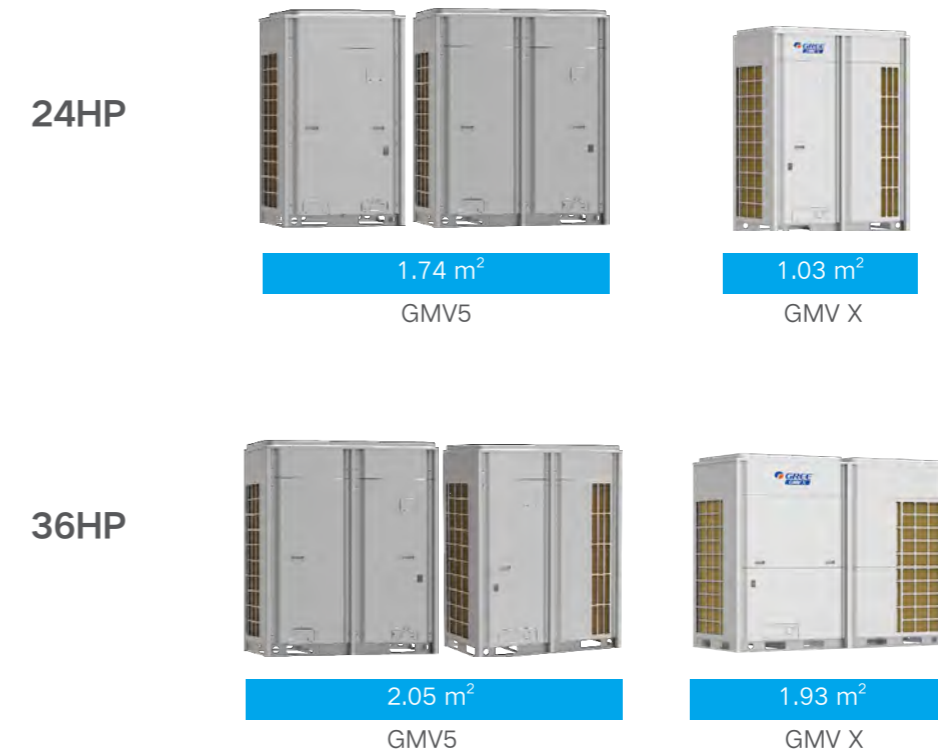


26-36HP combination models: 37  
 Combination models capacity range: 52HP-128HP  
 Support up to 4 models combination(Max. 128HP)



### Smaller Footprint, Saving Installation Space

The new generation 24HP model footprint is 41% lower than the previous generation; 36HP is 6% lower than the previous generation.



### Self-balancing Control without Oil Balance Pipe

There is no need for external oil balance pipe. By collecting and calculating the capacity output and threshold of each module, the distribution of refrigerating oil is automatically controlled to ensure stable operation of the system.



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The new generation 24HP model footprint is 41% lower than the previous generation; 36HP is 6% lower than the previous generation.



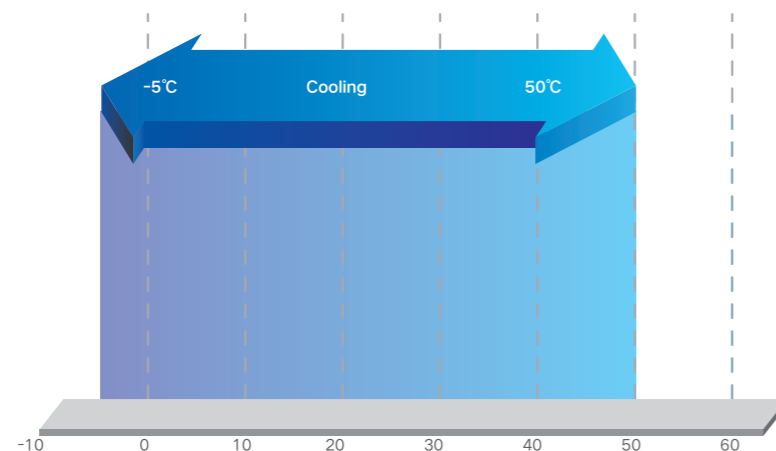
### Self-balancing Control without Oil Balance Pipe

There is no need for external oil balance pipe. By collecting and calculating the capacity output and threshold of each module, the distribution of refrigerating oil is automatically controlled to ensure stable operation of the system.



### Wider Operating Range

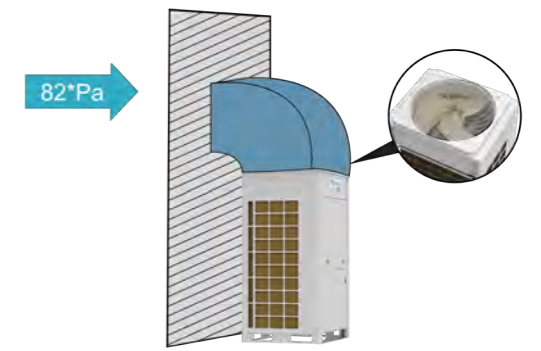
Outdoor operating temperature range is improved to -5°C ~50°C .



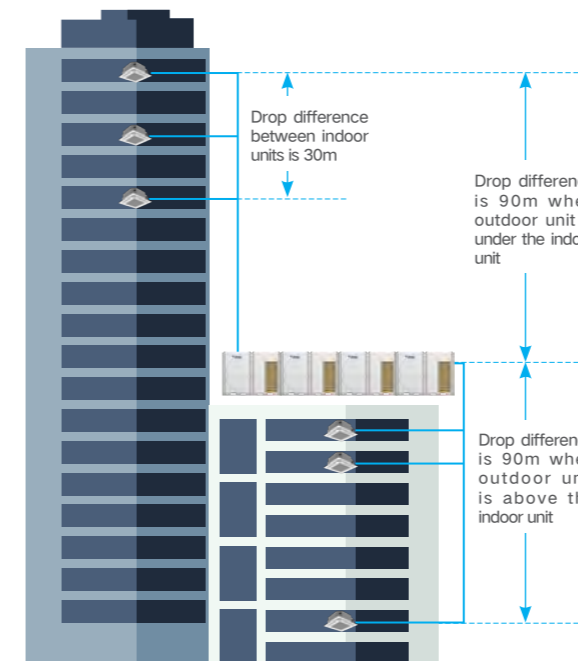
### Super-high Static Pressure Design

The unit has four kinds of static pressure (0Pa, 30Pa, 50Pa, 82Pa). You can choose corresponding static pressure according to the building type.

Note: Applicable for some models.



### Long Refrigerant Pipe Design



#### The outdoor unit to the farthest indoor unit:

- The maximum equivalent single pipe length is 190m
- The maximum actual single pipe length is 165m
- The maximum total connection pipe length is 1,000m
- The maximum distance from the indoor unit to the first branch pipe is 90\*m.

#### Maximum drop difference between indoor unit and outdoor unit:

- Drop difference is 90m when the outdoor unit is below the indoor unit
- Drop difference is 90m when the outdoor unit is over the indoor unit
- Maximum drop difference between indoor units is 30m.

\*Please consult the sales representatives for details.

### New Generation Refrigerant Recovery Function

The new generation of indoor unit refrigerant recovery and module refrigerant recovery functions can effectively recover the refrigerant of the indoor unit or the faulted outdoor unit during after-sales maintenance, reducing refrigerant waste and saving maintenance time.









# INDOOR UNITS

## Indoor Unit Lineup

Type		1.5	1.8	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0	22.4	25.0	28.0	40.0	45.0	56.0	
Duct Type Unit	High Static Pressure			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•
	Medium Static Pressure											•	•	•	•	•	•	•	•	•									
	Low Static Pressure		•	•	•	•	•	•	•	•	•	•	•	•	•	•													
Cassette Unit	360° Air Discharge			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	360° Air Discharge Compact	•	•	•	•	•	•	•	•	•	•																		
	2-way				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
	1-way			•	•	•	•	•	•	•	•	•	•	•	•	•													
Fresh Air Processing Indoor Unit																			•	•			•	•	•		•		
Wall-mounted Type Unit	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
Floor Ceiling Type Indoor Unit					•	•				•	•	•	•	•	•	•	•	•	•	•	•								
Floor Standing Type Indoor Unit																	•			•									
Console Indoor Unit			•	•	•	•	•	•	•	•																			
Concealed Floor Standing Type Indoor Unit			•	•	•	•	•	•	•	•	•	•	•	•															
AHU KIT								•						•						•						•		•	

## Quick Review of IDU Functions

Types of Indoor Unit		GMV5/ GMV6 Universal	Indoor Temperature Detection Point (Optional)	Indoor Temperature Detection and Revision	Static Pressure Adjustment	Fresh Air Device (Optional)	PM2.5 Filter (Optional)	Filter Washing Reminding	Intelligent Sensing Air Supply (Optional)	Auto Addressing	CAN+ Communication	Single/Parallel Connection	Power-off Memory	Low-temp Anti-frost	SET BACK	Management of schedule	Intelligent Billing System
Duct Type Unit	High Static Pressure	•	•	•	•		•	•		•	•	•	•	•	•	•	•
	General Static Pressure	•	•	•	•			•		•	•	•	•	•	•	•	•
Cassette Unit	360° Air Discharge	•	•	•		•		•	•	•	•	•	•	•	•	•	•
	360° Air Discharge Compact	•	•	•				•		•	•	•	•	•	•	•	•
	2-way	•	•	•				•		•	•	•	•	•	•	•	•
	1-way	•	•	•				•		•	•	•	•	•	•	•	•
Fresh Air Processing Indoor Unit	•	•	•	•			•		•	•	•	•	•	•	•	•	
Wall-mounted Type Unit	•	•	•					•		•	•	•	•	•	•	•	
Floor Ceiling Type Indoor Unit	•	•	•					•		•	•	•	•	•	•	•	
Floor Standing Type Indoor Unit	•	•	•					•		•	•	•	•	•	•	•	
Console Indoor Unit	•	•	•					•		•	•	•	•	•	•	•	
Concealed Floor Standing Type Indoor Unit	•	•	•	•	•			•		•	•	•	•	•	•	•	

## Duct Type Indoor Unit

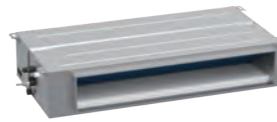
### High Static Pressure Duct Type Indoor Unit

- External static pressure can be up to 250Pa
- Standard fitting condensate water pump lift; lifting height can be up to 1.2m
- Optional PM2.5 electrostatic fiber filter
- 9-stage static pressure for adjustment, convenient for engineering application



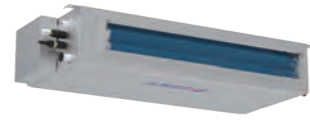
### Medium Static Pressure Duct Type Indoor Unit

- Capacity range 5.6-14kW
- External static pressure can be up to 80Pa
- Standard fitting condensate pump lift; maximum lifting height can be up to 1.2m
- Multiple protections: anti-freezing protection, temperature sensor faulted protection and other multiple guarantees



### Low Static Pressure Duct Type Indoor Unit

- Capacity range 1.8~8.0kW
- Standard fitting condensate water pump lift; lifting height can be up to 1.2m
- 7-speed air volume setting to meet diverse needs



### Fresh Air Processing Indoor Unit

- DC inverter technology
- Direct evaporative cooling
- Air conditioner and fresh air function are linked



## Cassette Type Indoor Unit

### 1-way Cassette Unit

- 178mm ultra-thin unit body
- Removable grille, with long life filter
- Standard fitting 1.2m condensate pump lift
- High ceiling function; highest corresponding height is 3.5m



### 2-way Cassette Indoor Unit

- 2-way air flow design, suitable to narrow rooms
- Standard fitting 1.2m condensate water pump lift
- Streamline panel design, elegant and decent



### 360 ° Air Discharge Cassette Indoor Unit

- 360 ° air supply
- Smart sensor technology for smart air flow adjustment\*
- Standard fitting 1.2m pump lift

\*This function is optional.



### 360 ° Air Discharge Compact Cassette Indoor Unit

- Independent Swing Control
- 360 ° air supply
- DC quiet condensate pump
- DC motor design for more energy-saving operation
- Multiple protection functions for safe and reliable operation
- Brand new designed air duct and fan blade for lower operating noise
- Compact design for more convenient installation



## Wall-mounted Type Indoor Unit

- High-efficiency and energy-saving DC motor
- Long-life filter, removable and washable panel and filter for easy maintenance
- Wall-mounted installation, beautiful panel, uniform air flow and up&down 2-way air supply



## Floor Ceiling Type Indoor Unit

- Streamlined appearance design, bright white color, pleasing to the eye
- Floor mounted or ceiling mounted, flexible installation
- Compact structural design, saving installation space
- Optional fresh air intake, to meet your high quality living standard



## Console Indoor Unit

- Uniform temperature distribution, high level of comfort
- Easy installation without suspended ceiling; arrangement of refrigerant pipe is flexible
- Two-way air supply, upper and lower two air outlets respectively at the upper and lower sides, 3D air supply



## Floor Standing Type

- Up and down swing, long air supply distance
- long-life filter, removable and washable panel and filter for easy maintenance
- With I-feel function, it can detect the temperature at the user's position in real time to improve comfort (remote controller YAP1F is required.)



## Concealed Floor Standing Type

- Capacity range: 2.2~7.1kW
- Compact structure, ultra-thin unit body, only 200mm thickness in vertical installation
- Different stages of static pressure for adjustment; highest static pressure can be up to 60Pa
- Flexible installation, supporting feet design to suit different heights, flexible switch of lower air return and side air return



## AHU-KIT

- Independent design, convenient for installation
- Can connect to the third party controller
- Malfunction signal access, safe and reliable

