





GREE ELECTRIC APPLIANCES INC OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai 519070, Guangdong, China

Tel: (+86-756) 8522218 Fax: (+86-756) 8669426

Email: gree@gree.com.cn

http://www.gree.com

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VRF plus Water Heater Solution

HOME-GMV





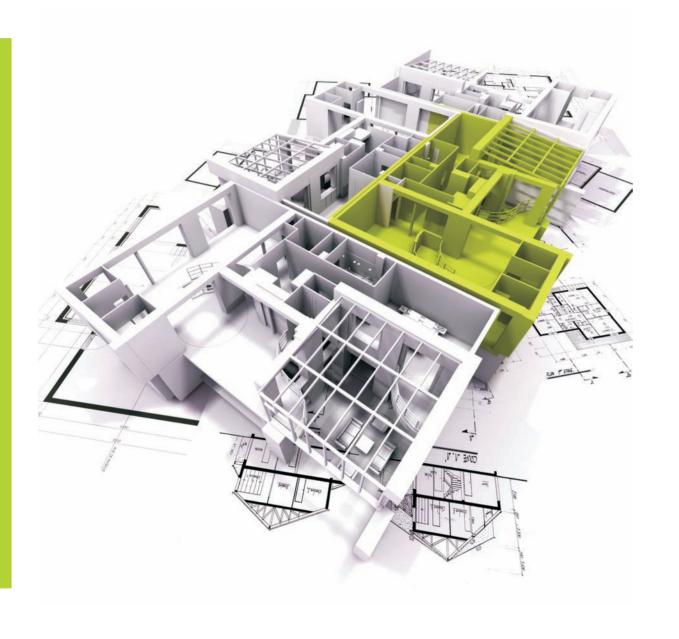






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The Final Solution

All functions are integrated in only one

GREE HOME-GMV

Indoor:

Indoor units of various designs are available to suit your indoor furnishings.



Outdoor Unit:

DC Inverter VRF HOME-GMV unit has cooling, heating and hot water supply, which can always provide hot water in 24hs a day.



The hydro-box transfers the absorbed heat from the outdoor unit to the hot water system. It can be located anywhere in the house and connected to the outdoor unit via refrigeration pipe work.





Water Tank:

The stainless steel insulated water tank produces domestic hot water for sanitary use.

Three series of water tank meet any household requirements.

Floor heating*:

Warming up the room by floor heating makes you feel spring in



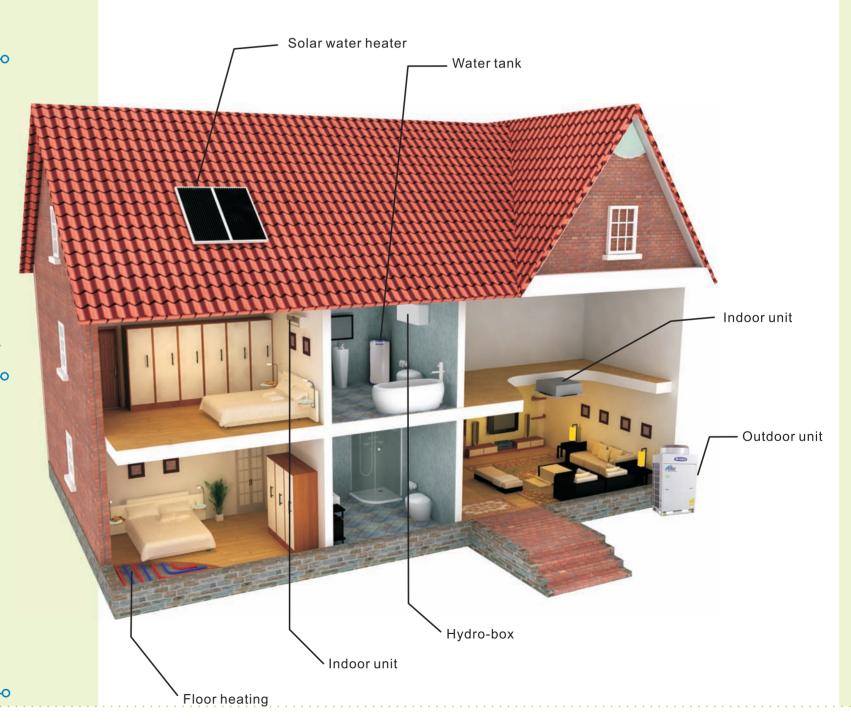
* Outdoor Units with capacity of 22.4KW and above can connect with floor heating and solar energy heating devices.



Solar water heater*: Meet the requirements for sanitary hot water through solar energy.

Air Source Heat Pump Water Heater **HOME-GMV**

DC Inverter Multi Air Conditioner



Excellent Energy Efficiency

Air Source Heat Pump Technology + Heat Recovery + DC Inverter Technology = Higher Energy Performance

Air Source Heat Pump Technology





Heat pumps take thermal energy from the outside air. In order to take energy from the air the heat pump needs a bit of energy to start with: HOME-GMV requires only 1kW of electricity to pump over 4kW of heat into your home. In other words, extracting heat from air sources requires just 1kW of electrical input in order to generate over 4kW of heating output, more than 80% of the heat produced by HOME-GMV comes from the outside air and is free of charge.





Heat Recovery Technology

Water circulating pump circulates the water between water tank / ground heating and the hydro unit.



Tube in tube heat exchanger transfers the heat from the refrigerant to the water.



Thanks to the perfect technology of Heat Recovery, during cooling operation, the condensing heat is recovered and reused to generate hot water for domestic use, which is free of charge.

Model	Capacity Range(kW)	Appearance
RQD5GA-K	5	
RQD8GA-K	8	
RQ30LA-K	30	GREE
RQ20LA-K	20	and the same
RQD30LA-M	30+5*	ER.
RQD20LA-M	20+5*	

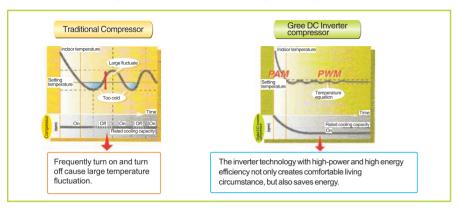
*5kW of auxiliary electrical heater



Efficient - Savor Double-Way Energy Saving

DC Inverter Technology

Compared with traditional fixed speed compressor, GREE DC inverter compressor has the advantages of high performance and high energy efficiency.

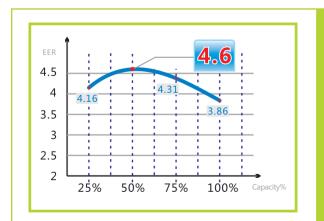


By DC Inverter technology, the compressor regulates output according to the cooling load for better energy performance.

With stepless power regulation technology, the DC Inverter compressor achieves digital stepless output regulation between 30Hz-90Hz.

between 900-6600rpm enable the system to meet the temperature requirements of various circumstances, save

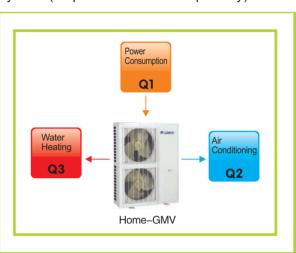






The highest energy performance

The best in the industry, costs the user 370USD less than conventional water-heating system (as per 200L hot water per day).



Define "ECOP" as the maximum energy efficiency rate when the system under heatrecovery mode (cooling + water heating) as below:

ECOP=(Q2+Q3)/Q1

ECOP=(2.8kW+3.8kW)/1kW=6.6

Model	Cooling Capacity(kW)	Heating Capacity(kW)	Min Water Yield(L/h)	Max Water Yield(L/h)	Appearance
GMV-Pds100W/Na-K	10.0	11.0	107	107	
GMV-Pds120W/Na-K	12.0	13.2	107	107	© con v
GMV-Pds140W/Na-K	14.0	15.4	172	172	
GMV-Pds160W/Na-K	16.0	17.6	172	172	**************************************
GMV-Pds224W/Na-M	22.4	25.0	258	500	CD A
GMV-Pds280W/Na-M	28.0	31.5	258	650	

Conversion Formual:1kM=3412Btu/h





Multifunctional - Satisfy All Demand

Five Basic Mode

Unique five-mode operation is a breakthrough in traditional heat recovery technology where heating and water-heating cannot be achieved at the same time.

Cooling + Water Heating
When the system is operating with both Indoor Air Cooling Mode and Water
Heating Mode, it can recover the wasted condensing heat to generate hot water
which is free of charge, and lowers the heat pollution to atmosphere as well.







Heating + Water Heating
The outdoor unit can absorb the heat from outdoor ambient air and operate with Indoor Air Heating Mode and Water Heating Mode at the same time.



Cooling Only



Heating Only



Water Heating Only



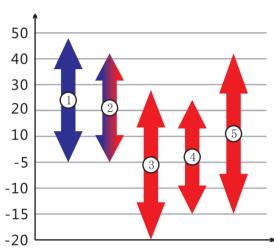




Wider Range of Ambient Temperature

With advanced DC inverter technology, HOME-GMV performs heat-recovery operation (cooling + water heating) even at 43°C in summer while -15°C in winter to provide heating and sanitary hot water.

- ① Cooling Air Conditioning Only: -5℃DB~48℃DB
- ② Cooling Air Conditioning + Water Heating: -5℃DB~43℃DB
- ③ Heating Air Conditioning Only: -20℃DB~27℃DB
- ④ Heating Air Conditioning + Water Heating: -15°CDB~24°CDB
- ⑤ Water Heating Only : -15℃DB~43℃DB



Additional Function

Outdoor Units with Capacity of 22.4KW and above enable additional functions as below: Water Heating Only (with Solar Heating)
Heating Air Conditioning +Ground Heating
Solar Energy Ground Heating



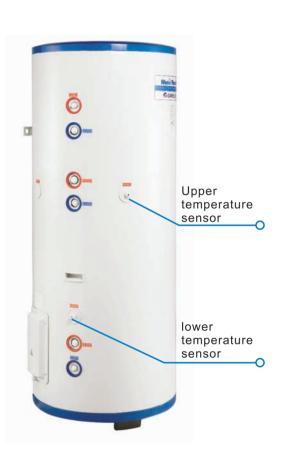


Advanced Water Tank Design

Smart dual-temperature detection control technology

Control unit on and off by upper and low temperature sensors to renew water temperature in real time:

- Improved hot water yielding rate by accurate timing of hot/cold water mixture.
- Improved hot water use rate and shorten waiting time of reheating.

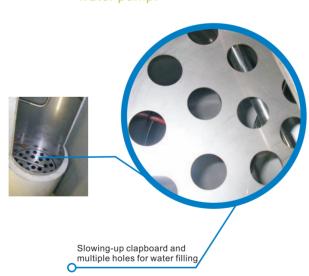


Bottom injection of water and water inlet pipe with equispaced injection holes reduce water hammer and enhance service life



Cold water injection pipe with decentralized injection-down holes

Slowing-up clapboard solves the problem of low use rate of hot water resulted from mixture of cold water and hot water in circulating water pump.



Model	200	250	300	350	400
Tankage(L)	SXVD200LCJ/A-K SXVD200LCJ2/A-K	SXVD250LC-K	SCD300LC-K SXVD300LCJ/A-K SXVD200LCJ2/A-K	SCD350LC-K SXVD350LCJ/A-K SXVD350LCJ2/A-K	SXD400LCJ/A-K SXVD400LCJ/A-K SXVD400LCJ2/A-K

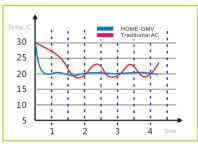
Comfortable - Enjoy a Wonderful Life

Suitable Water Temperature

Hot water with free temperature setting between 35-58 degrees Celsius meets the user needs for various purposes.



High quality electronic expansion valve guarantees precise automatic temperature regulation and constant water temperature.





Temperature Oscillogram

Electronic expansion

Quick water heating in large volume ensures hot water supply to different locations.







Lower Noise

- · High efficiency DC Inverter Fan Motor, better performance under lower speed, maximum 8Db(A) lower comparing with normal fan motors.
- DC Closed-loop Controlling Technology applied on the fan motor, driving the fan motor wih more efficiency and ultra low noise.









Sanitary & Safe - Cares Your Concerns

Complied with European Standard, the



In-unit high and low voltage protection, protection as well as startup delay rule out ultra-high temperature, etc.





leakage protection, any electrical leakage is absolutely avoided.

turns on the draw off valve to drain the water to avoid the frost crack



Intelligent——User-Friendly Control

Hot water provided for all day

Powerful automatic control enables the system to run unattendly in a variety of working conditions, e.g., day or night, indoor or outdoor, sunny or cloudy, windy or raining, supplying hot living water 24 hours a day without interruption.





Store Water In Night

Use Water In Day

Memory function (optional)

Running mode memory enables the air-conditioner to restore to its previous running mode when it recovers from a power failure. The user, however, may turn on/off this memory function.







Eco-friendly – Create a Green World

New eco-friendly refrigerant R410A is harmless to the atmosphere. It reflects your awareness of social responsibility to the environment.



Free hot water is produced during cooling operation and energy is absorbed from the air in winter, avoiding the emission of harmful gas which gas or fuel burning water heater will definitely generate.



Heat recovery technology helps recover the exhaust-heat from the air, slowing down the urban heat island effect.

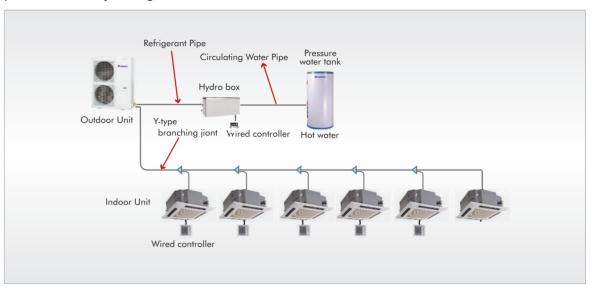


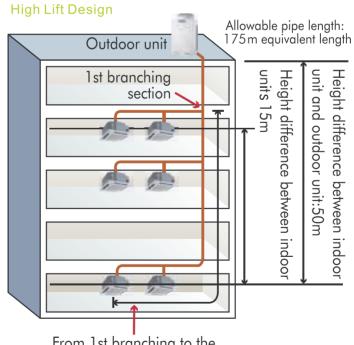


Convenient – Facilitates Installation Work

Shortest Route Design by Free Branching

Combination of line and branching is highly flexible. This follows for the shortest design route possible, thereby saving on installation time and cost.





Pressurised water tank is adopted in the system and tap water pressure is exploited to drive hot water when supplying hot water, saving such parts as circulating water pump, flow switch and water level gauge.



Indoor Unit Line-up

		Wireless Remote Controller Y512A	Wireless Remote Controller YB1FA	Wired Remoted Controller Z63351F	Wired Remoted Controller (Touch Button) XK02	Hot water controller Z6P301A	Group Controller ZJA011	Smart Zone Controller CE50-24/E	Centralized Controller CE51-24E(M)	PC Monitoring Su Eudemon 2009
Item		26 E	TOTAL CONTROL OF THE PARTY OF T	75c	(38.8 m) (3.8	GORDE CONTROL		日刊日 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・		
	Max Nos. of Outdoor Units	-	-	-	-	-	-	-	64	n×255
Connections	Max Nos. of Wired Controller	1	1	1	1	1	16	16	1024	n×255×16
	Max Nos.of Indoor Units	1	1	1	1	1	16	16	1024	n×255×16
	ON/OFF	•	•	•	•	•	•	•	•	•
	Mode Setting	•	•	•	•	•	•	•	•	•
	Fan Speed	•	•	•	•		•	•	•	•
	Vertical Swing	•	•	•	•		•		•	•
Control	Energy Save Mode	•	•	•	•					•
Drying Turbo Mode	Drying		•		•					
	Turbo Mode		•		•					
	Sleep Mode	•	•	•	•					•
	Light	•	•							•
	Errors			•	•	•	•	•		
	Clock		•			•		•	•	•
Display	Week							•	•	•
Diopidy	Room Temp			•	•		•	•	•	•
	Lock		•	•	•	•	•	•	•	•
	Indoor Unit Address			•	•		•	•	•	•
	ON/OFF Timer	•	•	•	•	•	•	•	•	•
	Minimum Timer Gap	0.5hr	1min	0.5hr	0.5hr	1min	0.5hr	0.5hr	1min	1sec
Timer	Weekly Timer							•	•	•
	Centralized Week Timer							•	•	
	Group Week Timer								•	
	Shielding			•	•	•	•	•	•	•
Shielding	Centralized Shielding						•	•	•	
	Group Shielding								•	
Centralized	Centralized Control						•	•	•	•
331111411204	Group Control								•	

Note:

• n:Nos. of serival port

• Control functions availability is based on the indoor units.Please refer to the user manual of indoor unit for detail.

Produce Specifications



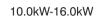












22.4kW,28.0kW

5kW-30kW

200L~400L















Model	Hydro-box	Water-tank				
GMV-Pds100W/Na-K	RQD5GA-K	SXD250LC-K SXVD200LCJ/A-K SXVD200LCJ2/A-K				
GMV-Pds120W/Na-K	NQD3OA-N	SXD300LC-K SXVD300LCJ/A-K SXVD300LCJ2/A-K				
GMV-Pds140W/Na-K	RQD8GA-K	SXD350LC-K SXD350LCJ/A-K SXVD300LCJ2/A-K				
GMV-Pds160W/Na-K	NQD0GA-N	SXD400LC-K SXD400LCJ/A-K SXVD400LCJ2/A-K				
GMV-Pds224W/Na-M	RQ20LA-K RQD20LA-M	SXD250LC-K SXD350LC-K SXD300LC-K SXD400LC-K SXVD200LCJ/A-K SXVD350LCJ/A-K				
GMV-Pds280W/Na-M	RQ30LA-K RQD30LA-M	SXVD300LCJ/A-K SXVD400LCJ/A-K SXVD200LCJ2/A-K SXVD300LCJ2/A-K SXVD300LCJ2/A-K SXVD400LCJ2/A-K				

	The sum of the capacity of minimum allocate indoor units	The sum of the capacity of maximum allocate indoor units
GMV-Pds100W/Na-K	80	130
GMV-Pds120W/Na-K	80	130
GMV-Pds140W/Na-K	80	160
GMV-Pds160W/Na-K	80	160
GMV-Pds224W/Na-K	112	250
GMV-Pds280W/Na-K	140	280

	Nominal Operating Condition											
Item	Outdoor	Condition	ition Indoor Condition			WaterTemperature(℃)						
ntem	DB Temperature(°C)	WB Temperature(℃) DB Temperature(℃) WB Temperature(℃		WB Temperature(℃)	Start Temperature(℃)	End Temperature($^{\circ}$ C)						
Cooling	35	24	27	19	_	_						
Heating	7	6	20	15	_	-						
Hot Water	20	15	_	_	15	55						

Outdoor Unit



	Model		GMV-Pds100W/Na-K	GMV-Pds120W/Na-K	GMV-Pds140W/Na-K	GMV-Pds160W/Na-K		
Conseitu	Cooling/Heating	kW	10.0/11.0	12.0/13.2	14.0/15.4	16.0/17.6		
Capacity	HP	,	3.5	4.0	5.0	6.0		
E	COP*	W/W	6.0	6.0	6	.6		
Rated water h	eating capacity	kW	5.0	5.0	8	.0		
Water tem	perature	°C		50(Default), 35 ~ 58(Adjus	stable temperature range)			
No	oise	dB(A)	56	56	58	60		
R410A char	ged volume	kg	5.0	5.0	7.0			
Powers	supply	V-Ph-Hz		220-240V-1Ph-50Hz				
Rate power input	Cooling/Heating	kW	4.5/3.8	5.0/4.2	5.5/4.9	5.9/5.3		
nate power iliput	Water heating	kW	2.0	2.0	2.	86		
Outline dimension	$W \times D \times H$	mm		950×34	0×1250			
Package dimension	$W \times D \times H$	mm		1110×45	50×1370			
Outline dimension	Gas(AC)	inch		3	/4			
Connecting pines	Liquid(AC)	inch		3.	/8			
Connecting pipes	Gas(Water)	inch		5	/8			
	Liquid(Water)	inch	1/2					
N.W./	N.W./G.W kg			105/115	115	/125		

^{*}ECOP is the maximum energy efficiency rate when the system in cooling+water heating mode.



			Va-			
	Model		GMV-Pds224W/Na-M	GMV-Pds280W/Na-M		
0	Ozaliza (Hazatina	kW	22.4/25.0	28.0/31.5		
Capacity	Cooling/Heating	HP	8.0	10.0		
E	COP*	W/W	6.0	6.6		
Rated water h	eating capacity	kW	20	30		
Water te	emperature	℃	50(Default), 35~58(Adjus	stable temperature range)		
1	Noise	dB(A)	58	58		
R410A cha	rged volume	kg	15.0	16.0		
Powe	er supply	V-Ph-Hz	380-415V-1Ph-50Hz			
Data namar input	Cooling/Heating	kW	6.82/6.97	7.52/7.70		
Rate power input	Water heating	kW	8	10.7		
Outline dimension	$W \times D \times H$	mm	930×77	0×1670		
Package dimension	$W \times D \times H$	mm	1010×85	50×1850		
	Gas(AC)	inch	7,	/8		
Connecting pines	Liquid(AC)	inch	3,	/8		
Connecting pipes	Gas(Water)	inch	3,	/4		
	Liquid(Water)	inch	5/8			
N.V	V./G.W	kg	265/285			

 $^{^{\}star}\text{ECOP}$ is the maximum energy efficiency rate when the system in cooling+water heating mode.



Produce Specifications



	Hydro-Box n	Hydro-Box model		RQD5GA-K RQD8GA-K		
Outl	line dimension	$W \times D \times H$	mm	650×3	00×250	
Pack	age dimension	W×D×H	mm	725×36	65×313	
Po	wer supply		V-Ph-Hz	220-240V	-1Ph-50Hz	
Rated heat	exchanger capac	city	kW	5	8	
Rate	Rate power input		kW	0.	08	
Elec	Electrical henter		kW	-	_	
	D-file	Liquid	inch	1.	/2	
Connecting pipes	Refrigerant side	Gas	inch	5	/8	
Connecting pipes		Water inlet	inch	3,	/4	
	Water side Water outlet		inch	3/4		
Water pump lift meter		meter	6			
N.W./G.W kg		25/28				



Hydro-Box model			RQ20LA-K	RQD20LA-M	RQ30LA-K	RQD30LA-M	
Outl	line dimension	$W \times D \times H$	mm	1050×4	70×760	1050×4	70×910
Pack	age dimension	$W \times D \times H$	mm	1120×5	00×890	1120×50	00×1040
Po	wer supply		V-Ph-Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz	220-240V-1Ph-50Hz	380-415V-3Ph-50Hz
Rated heat exchanger capaci		city	kW	2	0	3	0
Rate power input kW					0.0	37	
Elec	ctrical henter		kW	_	5	_	5
	Defeire and side	Liquid	inch	5/8			
Connecting pines	Refrigerant side	Gas	inch	3/4			
Connecting pipes		Water inlet	inch		1		
Water side Water outlet inch		inch	1				
Water pump lift meter			15				
N.W./G.W kg			75/90	110/122	100/115	120/135	



Water tank model			SXD250LC-K	SXD300LC-K	SXD350LC-K	SXD400LC-K
Tank volume L		L	250	300	350	400
Pow	er supply	V-Ph-Hz		220-240V-	-1Ph-50Hz	,
Outline dimension	$W \times D \times H$	mm	540×1945	620×1600	620×1895	620×2125
Package dimension	$W \times D \times H$	mm	625×630×1970	705×710×1645	705×710×1920	705×710×2150
Auxiliary electrical heater	Rate power input	kW		1.	5	
N.W./	G.W	kg	68/77	71/81	79/90	86/98
Waterpipes Cool water inlet		inch	1/2			
diameter	Hot water inlet	inch		1.	/2	



	Water tank model		SXVD200LCJ/A-K	SXVD300LCJ/A-K	SXVD350LCJ/A-K	SXVD400LCJ/A-K			
Tar	Tank volume		200	200 300 35		400			
Pow	ver supply	V-Ph-Hz		220-240V-1Ph-50Hz					
Outline dimension	$W \times D \times H$	mm	540×1595	620×1620	620×1895				
Package dimension	$W \times D \times H$	mm	625×630×1620	705×710×1645	705×722×1920				
Auxiliary electrical heater	Rate power input	kW		3.	.0				
N.W	/./G.W	kg	68/77	82/92	96/122	106/134			
Waterpipes	Cool water inlet	inch		1/	/2				
diameter				1/	/2				



	Water tank model		SXVD200LCJ2/A-K	SXVD300LCJ2/A-K	SXVD350LCJ2/A-K	SXVD400LCJ2/A-K		
Tan	Tank volume		200	200 300 350		400		
Power supply V-Ph-Hz			220-240V-1Ph-50Hz					
Outline dimension	$W \times D \times H$	mm	540×1595	620×1620	620×1895	620×2125		
Package dimension	$W \times D \times H$	mm	625×630×1620	705×710×1645	705×722×1920	705×722×2150		
Auxiliary electrical heater	Rate power input	kW		3.	0			
N.W	/./G.W	kg	71/80	87/97	100/126	110/139		
Waterpipes	Waterpipes Cool water inlet inch			1,	2			
diameter Hot water inlet		inch		1,	2			



Indoor Unit Line-up

Various designs indoor units suit perfectly for different installation requirement.

Capacity Index (kW)	2. 2	2.8	3.6	4.5	5.0	5.6	6.3	7. 1	8.0	9.0	10.0	11.2	12.5	14.0	22.4	28.
High ESP Duct Type (EXV Integrate)																
(V
Slim Duct Type (EXV Integrate)																
Four-way Cassette Type (EXV Integrate)																
Compact Four-way Cassette Type (EXV Separated)																
One-way Cassette Type (EXV Separated)																
Floor Ceiling Type (EXV Separated)		•	•		•			Trans 98		MUNICIPALITY		MIMINING.	MINISTER OF			
Floor Ceiling Type (EXV Integrate)																
Wall Mounted Type																
(EXV Separated)																
Wall Mounted Type (EXV Integrate)	-	_	_													

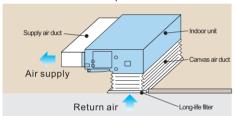
Duct Type



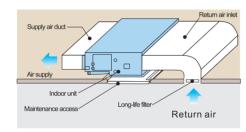


Highly flexible installations

Installation examples

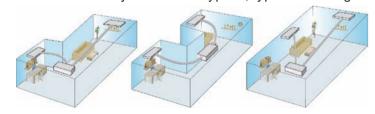


bottom air return

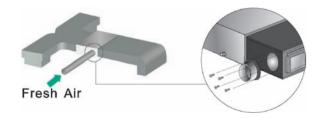


back air return

Flexible and easy to install in type-L, type-U and large rooms

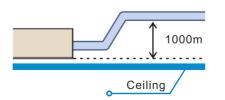


Designed with fresh air baffle for fresh air introduction (for 5.6kW and above unit).



Drain pump lift reaches 1000m*

* Only available for GMV(L)-R#PS/NaB-K



Long life and washable filter with buckles can be easily disassembled from each direction.





New structure-with buckles

Key card control function is available.



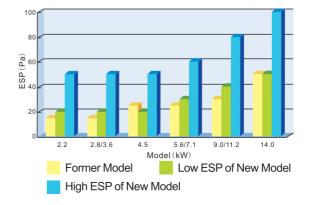


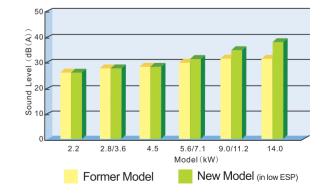
4-step fan motor with high ESP design; The ESP is adjustable and obviously upgraded*.

*Low ESP type is factory setting. If connected with high ESP, the motor step output shall be adjusted by DIP switch on the PCB.



The ESP is obviously upgraded while the noise is almost at the same level as before.





With Drain Water Pump



Model	Cooling	only	GMVL-R22PS/NaB-K	GMVL-R28PS/NaB-K	GMVL-R36PS/NaB-K	GMVL-R45PS/NaB-K	GMVL-R56PS/NaB-K
Wodel	Heat pu	mp	GMV-R22PS/NaB-K	GMV-R28PS/NaB-K	GMV-R36PS/NaB-K	GMV-R45PS/NaB-K	GMV-R56PS/NaB-K
Congoity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
Capacity	Heating	kW	2.5	3.2	4.0	5.0	6.3
Power su	ply	V-Ph-Hz			220-240V-1Ph-50Hz		
Motor powe	r input	W	75	80)	140	240
Air flow vo	lumo	m ³/h	450	57	0	700	1000
All How vo	iuiiie	CFM	265	33	5	412	589
Standard	Esp	Pa		50/	20		60/30
Sound pressi	re level (H/M/L)	dB(A)	37/35/33	39/3	7/35	40/38/36	44/42/40
Outline dimension	$W \times D \times H$	mm		$800 \times 600 \times 250$		980×721×266	1155×736×300
Package dimension	$W \times D \times H$	mm		1020×745×305		1068×766×320	1245×785×360
Net Weig	ht	kg	28.5	30	.5	36	51
Gross wei	ght	kg	33.5	35	.5	39	58
Connecting pipe	Gas	inch	3/	/8	1	/2	5/8
diameter	Liquid	inch		1/	4		3/8

With Drain Water Pump



Model	Cooling	only	GMVL-R71PS/NaB-K	GMVL-R90PS/NaB-K	GMVL-R112PS/NaB-K	GMVL-R140PS/NaB-K
Widdei	Heat pu	mp	GMV-R71PS/NaB-K	GMV-R90PS/NaB-K	GMV-R112PS/NaB-K	GMV-R140PS/NaB-K
0	Cooling	kW	7.1	9.0	11.2	14.0
Capacity	Heating	kW	8.0	10.0	12.5	15.0
Power supply V-Ph-Hz				220-240\	/-1Ph-50Hz	
Motor power input W		W	240	3	60	500
Air flow volume		m ³/h	1100	1700		2000
All How vo	Air flow volume		647	11	001	1177
Standard	Esp	Pa	60/30	80)/40	100/50
Sound pressi	ire level (H/M/L)	dB(A)	45/43/41	48/46/44		50/48/46
Outline dimension	$W \times D \times H$	mm	1155×736×300	1425×	756×300	1425×756×300
Package dimension	$W \times D \times H$	mm	1245×785×360	1514×7	785×360	1514×785×360
Net Weig	ht	kg	51	(64	65.5
Gross weight kg		kg	58		73	75
Connecting pipe	Gas	inch		5	5/8	
diameter	Liquid	inch		3	3/8	

Duct Type

Without Drain Water Pump



Model	Cooling	only	GMVL-R22P/NaB-K	GMVL-R28P/NaB-K	GMVL-R36P/NaB-K	GMVL-R45P/NaB-K	GMVL-R56P/NaB-K	
Model	Heat pu	mp	GMV-R22P/NaB-K	GMV-R28P/NaB-K	GMV-R36P/NaB-K	GMV-R45P/NaB-K	GMV-R56P/NaB-K	
0	Cooling	kW	2.2	2.8	3.6	4.5	5.6	
Capacity	Heating	kW	2.5	3.2	4.0	5.0	6.3	
Power sup	pply	V-Ph-Hz	220-240V-1Ph-50Hz					
Motor powe	rinput	W	75	80)	140	240	
Air flow vo	lumo	m ³/h	450	57	0	700	1000	
All IIUW VU	iuiiie	CFM	265	33	5	412	589	
Standard	Esp	Pa		50/20				
Sound pressi	ure level (H/M/L)	dB(A)	37/35/33	39/37	7/35	40/38/36	44/42/40	
Outline dimension	W×D×H	mm		800×655×250		980×721×266	1155×736×300	
Package dimension	$W \times D \times H$	mm		1020×745×305		1068×766×320	1245×785×360	
Net Weig	ht	kg	27	28.	5	34	49	
Gross wei	ght	kg	31	33.	5	37	56	
Connecting pipe	Gas	inch	3	/8	1	/2	5/8	

Without Drain Water Pump





Model	Cooling	only	GMVL-R71P/NaB-K	GMVL-R90P/NaB-K	GMVL-R112P/NaB-K	GMVL-R140P/NaB-K	GMV-R224P/Na-M	GMV-R280P/Na-M
WOUL	Heat pur	mp	GMV-R71P/NaB-K	GMV-R90P/NaB-K	GMV-R112P/NaB-K	GMV-R140P/NaB-K	GIVIV-N224F/Na-IVI	GIVIV-NZOUP/INA-IV
Canaditu	Cooling	kW	7.1	9.0	11.2	14.0	22.4	28.0
Capacity	Heating	kW	8.0	10.0	12.5	15.0	25.0	31.0
Power supply		V-Ph-Hz		220-240	380V-3Ph	-50Hz		
Motor powe	r input	W	240		360	500	1600	1600
Air flow vo	luma	m ³/h	1100	1	700	2000	4000	4800
All HOW VO	lullle	CFM	647		1001	1177	2354	2825
Standard	Esp	Pa	60/30	8	0/40	100/50	200	220
Sound pressi	ure level (H/M/L)	dB(A)	45/43/41	48/46/44		50/48/46	56(H)	57(H)
Outline dimension	$W \times D \times H$	mm	1155×736×300	1425×	736×300	1425×736×300	1463×799×389	1500×920×450
Package dimension	$W \times D \times H$	mm	1245×785×360	1514×	785×360	1514×785×360	1540×880×400	1745×1025×525
Net Weig	ht	kg	49		62	63.5	88	125
Gross wei	ght	kg	56		71	73	102	135
Connecting pipe	Gas	inch		5	/8		7/8	7/8
diameter	Liquid	inch			3	/8		

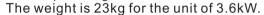
Slim Duct Type

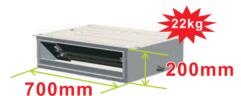




2.2kW,2.8kW,3.6kW

Only 700mm in width, 200mm in height and 22kg in weight which is perfect to install in limited spaces like drop-ceiling in hotel.

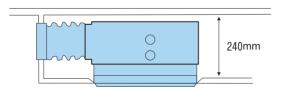




4.5kW,5.6kW

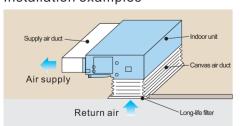
Only 200mm in height which can be installed in rooms with as little as 240mm depth between the drop-ceiling and ceiling slab.

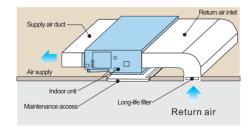




Highly flexible installation is possible to satisfy various needs.

Installation examples



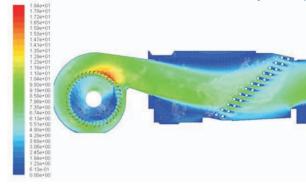


bottom air return

back air return

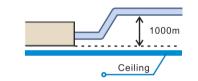
Plastic propeller housing and fan blade, and intelligent-designed Air-channle which provide enough air flow volume while lower operation noise.

For example, the normal unit of 2.8kW has the noise level up to 40dB(A), but now the new unit of 2.8 kW reduces the noise to only 37dB(A).





Drain pump fitted as standard accessory with 1000mm lift.



Model	Cooling	only	GMVL-R22PS/NaE-K	GMVL-R28PS/NaE-K	GMVL-R36PS/NaE-K
Model	Heat pu	ımp	GMV-R22PS/NaE-K	GMV-R28PS/NaE-K	GMV-R36PS/NaE-K
Canacity	Cooling	kW	2.2	2.8	3.6
Capacity	Heating	kW	2.5	3.2	4.0
Power su	Power supply V-Ph-Hz			220-240V-1Ph-50Hz	
Motor powe	r input	W	6	4	70
Air flow vo	lumo	m ³/h	4	50	550
All IIUW VU	iuiiie	CFM	2	65	323
Standard	Esp	Pa	2	0	20
Sound pressi	ıre level	dB(A)	3	7	39
Outline dimension	$W \times D \times H$	mm		700×615×200	
Package dimension	$W \times D \times H$	mm		890×730×295	
Net Weig	ht	kg	2	21	22
Gross wei	ght	kg	2	7	28
Connecting pipe	Gas	inch	3	/8	1/2
diameter	Liquid	inch		1/4	

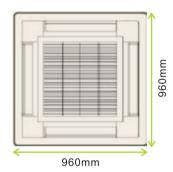
Model	Cooling	only	GMVL-R45PS/NaE-K	GMVL-R56PS/NaE-K	GMVL-R71PS/NaE-K
Wodel	Heat pu	ımp	GMV-R45PS/NaE-K	GMV-R56PS/NaE-K	GMV-R71PS/NaE-K
0	Cooling	kW	4.5	7.1	
Capacity	Heating	kW	5.0	6.3	8.0
Power su	pply	V-Ph-Hz		220-240V-1Ph-50Hz	
Motor powe	r input	W	Ç	91	100
Air flow vo	luma	m³/h	700		1000
All How vo	lullie	CFM	4	12	588
Standard	Esp	Pa	2	20	25
Sound press	ıre level	dB(A)	4	11	42
Outline dimension	$W \times D \times H$	mm	900×6	15×200	1100×615×200
Package dimension	$W \times D \times H$	mm	1120×7	735×295	1320×735×295
Net Weig	ht	kg	2	6	30
Gross wei	ght	kg	3	3	39
Connecting pipe	Gas	inch	1/	5/8	
diameter	Liquid	inch	1/	4	3/8

Four-way Cassette Type





Compact and light weight and square panel in same size for easy installation

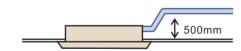




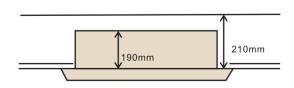
Drain pump fitted as standard with increased lift of 1100mm



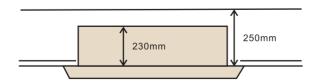
Drain pump fitted as standard with increased lift of 500mm



Slim unit for 5.0kW below is only 190mm in thickness, which can be installed in narrow ceiling space of at least 210mm.

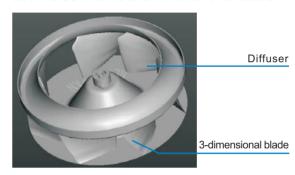


Only 230mm in thickness witch can be installed in ceiling space of at least 250mm.



Long life and washable filter

Low noise thanks to 3-dimensional blade



Full-automatic operation, 4-way air supply, 3-speed fan speed setting and strong circulating air flow volume let the cooling or hot air directly reach every corner of the room, even when the ceiling is higher than standard height.

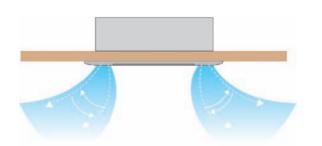




The unit below 7.1 kW is applicable to the height below 3m.

The unit above 8kW is applicable to the height below 4.5m.

Air supply in different directions with 30-60 degree sweep for even temperature distribution





Model	Cooling	only	GMVL-R28T/Na-K	GMVL-R36T/Na-K	GMVL-R45T/Na-K	GMVL-R50T/Na-K				
WOUGI	Heat pu	mp	GMV-R28T/Na-K	GMV-R36T/Na-K	GMV-R45T/Na-K	GMV-R50T/Na-K				
Capacity	Cooling	kW	2.8	3.6	4.5	5.0				
Сарасну	Heating	kW	3.2	4.0	5.0	5.8				
Power su		V-Ph-Hz		220-240V-1ph-50Hz						
Motor power input W		W		65						
Air flow vo	luma	m³/h		680						
All How vo	iuiiie	CFM		400						
Sound pressu	ire level	dB(A)		37/34						
	Outline W×D×H	mm		840×840×190						
Main body	Package W×D×H	mm		960×960	0×257					
	Net weight	kg		25						
	Gross weight	kg		33						
	Outline W×D×H	mm		950×95	0×60					
Panel	Package W×D×H	mm		1040×1025×115						
	Net weight	kg	6.5							
	Gross weight	kg		10.0						
onnecting pipe	Gas	inch		3/8						
diameter	Liquid	inch		1/4	1					



Model	Cooling	only	GMVL-R56T/Na-K	GMVL-R63T/Na-K	GMVL-R71T/Na-K	GMVL-R80T/Na-K				
Model	Heat pu	mp	GMV-R56T/Na-K	GMV-R63T/Na-K	GMV-R71T/Na-K	GMV-R80T/Na-K				
Capacity	Cooling	kW	5.6	6.3	7.1	8.0				
Сараспу	Heating	kW	6.3	7.0	8.0	8.8				
Power su	pply	V-Ph-Hz		220-240V-	1ph-50Hz					
Motor power input W		W		83						
Air flow vo	lumo	m³/h		1180						
All How vo	lulle	CFM		695						
Sound pressu	ire level	dB(A)		39						
	Outline W×D×H	mm		840×840×240						
Main body	Package W×D×H	mm		960×96	0×310					
	Net weight	kg		30)					
	Gross weight	kg		38	3					
	Outline W×D×H	mm		950× 95	50× 60					
Panel	Package W×D×H	mm		1040× 1025× 115						
	Net weight	kg	6.5							
	Gross weight	kg	10.0							
Connecting pipe	Gas	inch		5/8						
diameter	Liquid	inch		3/8						

Cassette Type



Model	Cooling	only	GMVL-R90T/Na-K	GMVL-R100T/Na-K	GMVL-R112T/Na-K	GMVL-R125T/Na-K			
MIDUEI	Heat pu	ımp	GMV-R90T/Na-K	GMV-R100T/Na-K	GMV-R112T/Na-K	GMV-R125T/Na-K			
Capacity	Cooling	kW	9.0	10.0	11.2	12.5			
Capacity	Heating	kW	10.0	11.0	12.5	13.5			
Power sup	ply	V-Ph-Hz		220-240V-1	ph-50Hz				
Motor powe	r input	W		133					
Air flow vo	lumo	m³/h		1860					
All How vo	iuiiie	CFM		1095					
Sound pressu	ire level	dB(A)		40/36					
	Outline W×D×H	mm	840×840×320						
Main body	Package W×D×H	mm		960×960	×394				
	Net weight	kg		38					
	Gross weight	kg		46					
	Outline W×D×H	mm		950×950	0×60				
Panel	Package W×D×H	mm	1040×1025×115						
	Net weight	kg		6.5					
	Gross weight	kg		10					
Connecting pipe	Gas	inch	5/8						
diameter	Liquid	inch		3/8					



Model	Heat pun	np	GMV-R22T/NaA-K	GMV-R28T/NaA-K	GMV-R36T/NaA-K	GMV-R45T/NaA-K		
Canacity	Cooling	kW	2.2	2.8	3.6	4.5		
Capacity	Heating	kW	2.5	3.2	4.0	5.0		
Power sup	ply	V-Ph-Hz		220-240V-1ph-50Hz				
Motor power	input	W		1	2			
Air flow vol	IIMA	m³/h		6	00			
All IIOW VOI	unie	CFM		353				
Sound pressu	re level	dB(A)	47/41					
	Outline W×D×H	mm	570×570×230					
Main body	Package W×D×H	mm	828×748×310					
Main body	Net weight	kg	20					
	Gross weight	kg	27					
	Outline W×D×H	mm		650×	350×50			
Panel	Package W×D×H	mm		730×6	70×102			
Pallel	Net weight	kg			5			
	Gross weight	kg		10				
Connecting pipe	Gas	inch	3/8	3/8	1/2	1/2		
diameter	Liquid	inch		1	/4			

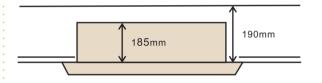


One-way Cassette





Slim unit is only 185mm in thickness, this model can be installed in narrow ceiling space of at least 190mm.



Detachable and washable grill

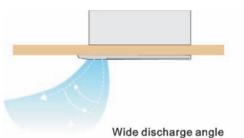
Long life and washable filter



Low-noise cross flow fan reduces vortex flow in duct, thus reducing the noise.



Equal and gentle air supply design and high-class flow control design make the room temperature equal and balanced, so that the people feel more comfortable.



Drain pump fitted as standard with increased lift of 700mm



The unit is applicable to the height below 3.5m.



Model	Cooling only		GMVL-R22Td/Na-K	GMVL-R28Td/ Na -K	GMVL-R36Td/ Na -k	
WOOGI	Heat pump		GMV-R22Td/ Na -K	GMV-R28Td/ Na -K	GMV-R36Td/ Na -K	
Capacity	Cooling	kW	2.2	2.8	3.6	
Сараспу	Heating	kW	2.5	3.2	4.0	
Power s	upply	V-Ph-Hz		220-240V-1Ph-50Hz		
Motor pow	ver input	W		42		
Air flow v	volume	m ³ /h	450	500		
All llow	olulle	CFM	265 294			
Sound pres	sure level	dB(A)	45			
	Outline WxDxH	mm	920×360×185			
Main body	Package WxDxH	mm	1290×465×270			
Wall body	Net weight	kg		16		
	Gross weight	kg	25			
	Outline WxDxH	mm	1180×430×30			
Panel	Package WxDxH	mm	1260×505×110			
ralici	Net weight	kg	3			
	Gross weight	kg		5		
Connecting pipe	Gas	inch	3/8		1/2	
diameter	Liquid	inch	1/4			









Floor Ceiling Type

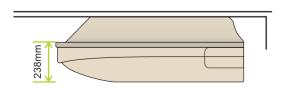




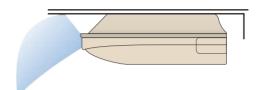
Easy to install and good looking, satisfies your more requirements for the space

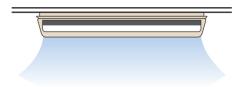


Compact and light weight Only 238mm in height.



The air supply range is efficiently wider by addition of cross-direction sweep

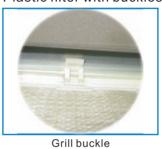


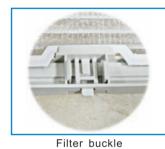


Long life and washable filter

Convenient disassembly and maintenance thanks to unique design

Plastic filter with buckles

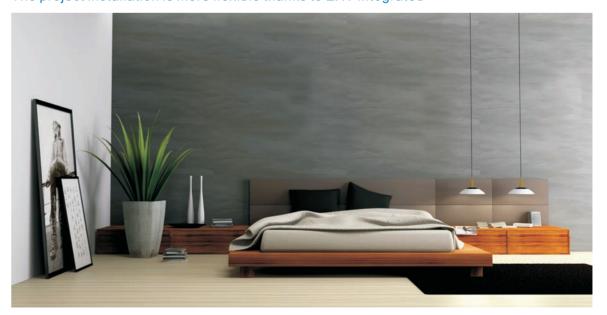






Dismountable motor

The project installation is more flexible thanks to EXV integrated





Floor Ceiling Type



Model	Cooling	gonly	GMVL-R28Zd/Na-K	GMVL-R36Zd/Na-K	GMVL-R50Zd/Na-K		
Wiodoi	Heat p	ump	GMV-R28Zd/Na-K	GMV-R36Zd/Na-K	GMV-R50Zd/Na-K		
Capacity	Cooling	kW	2.8	3.6	5		
Oupdoily	Heating	kW	3.2	4	5.8		
Power sup	ply	V-Ph-Hz		220-240V-1Ph-50Hz			
Motor powe	Motor power input		22	22	90		
Air flow vol	luma	m³/h	550	600	700		
All llow voi	iuiiio	CFM	324	353	412		
Sound pressu	ire level	dB(A)	43	44	50		
Outline dimension	$W \times D \times H$	mm		840×238×695			
Package dimension	$W \times D \times H$	mm		1035×295×805			
Net Weig	ht	kg	28				
Gross weight		kg	37				
Connecting pipe	Gas	inch	3/8	1,	/2		
diameter	Liquid	inch	1/4	1.	1/4		



Model	Cooling only		GMVL-R71Zd/Na-K	GMVL-R90Zd/Na-K	GMVL-R112Zd/Na-K	GMVL-R125Zd/Na-K	
Hea		ump	GMV-R71Zd/Na-K	GMV-R90Zd/Na-K	GMV-R112Zd/Na-K	GMV-R125Zd/Na-K	
Capacity	Cooling	kW	7.1	9	11.2	12.5	
Capacity	Heating	kW	8	10	12.5	13.5	
Power su	Power supply V-Ph-Hz			220-240V-	-1Ph-50Hz		
Motor power input		W	220	330	390	390	
Air flow vo	luma	m³/h	1170	2100	2200	2300	
All llow vo	iuiiie	CFM	689	1236	1294	1353	
Sound pressu	ire level	dB(A)	48	51	54	55	
Outline dimension	$W \times D \times H$	mm	1300×188×600		1590×238×695		
ackage dimension	$W \times D \times H$	mm	1514×248×724		1814×330×830		
Net Weig	jht	kg	34	44			
Gross we	ight	kg	38		53		
Connecting pipe	Gas	inch		5/	/8		
diameter	Liquid	inch	3/8				

Floor Ceiling Type





Model	Cooling	g only	GMVL-R28Zd/NaB-K	GMVL-R36Zd/NaB-K	GMVL-R50Zd/NaB-K	GMVL-R71Zd/NaB-K
Hea		ump	GMV-R28Zd/NaB-K	GMV-R36Zd/NaB-K	GMV-R50Zd/NaB-K	GMV-R71Zd/NaB-K
Capacity	Cooling	kW	2.8	3.6	5.0	7.1
Capacity	Heating	kW	3.2	4.0	5.8	8.0
Power su	pply	V-Ph-Hz		220-240V-1Ph-50Hz		220-240V-1Ph-50Hz
Motor powe	er input	W	1!	9	75	140
Air flow vo	lume	m³/h	550	600	700	1400
All How vo	iuiiic	CFM	324	353	412	824
Sound pressi	ure level	dB(A)	43	44	50	49
Outline dimension	$W \times D \times H$	mm		980×700×225		1420×700×245
ackage dimension	$W \times D \times H$	mm		1090×825×310		1530×825×330
Net Weig	jht	kg		52		
Gross weight		kg		37		
Connecting pipe diameter	Gas	inch	3/8		1/2	5/8
	Liquid	inch		1/4		





Model	Cooling	only	GMVL-R90Zd/NaB-K	GMVL-R112Zd/NaB-K	GMVL-R125Zd/NaB-K	GMVL-R140ZD/NaB-K		
Wodoi	Heat p	ump	GMV-R90Zd/NaB-K	GMV-R112Zd/NaB-K	GMV-R125Zd/NaB-K	GMV-R140ZD/NaB-K		
Capacity	Cooling	kW	9.0	11.2	12.5	14.0		
σαραστιγ	Heating	kW	10.0	12.5	13.5	16.0		
Power su	Power supply V-Ph-H		220-240V-1Ph-50Hz					
Motor powe	Motor power input		180	250				
Air flow vo	lumo	m³/h	1600	2000				
All How vo	iuiiio	CFM	940	1177				
Sound pressu	ıre level	dB(A)	51	55				
Outline dimension	$W \times D \times H$	mm	1420×700×245	1700×700×245				
Package dimension	$W \times D \times H$	mm	1530×825×330	1825×825×330				
Net Weig	ht	kg	54	64	66			
Gross we	Gross weight		63	72	74			
Connecting pipe	Gas	inch		5/8				
diameter	Liquid	inch		3/8				



Wall Mounted Type







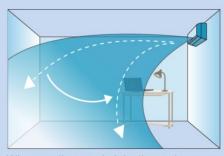
EXV Integrate



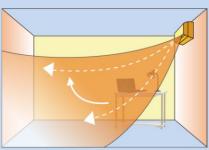
Streamlined design for spaces without ceiling

Optimized & comfortable Airflow

Vertical auto swing



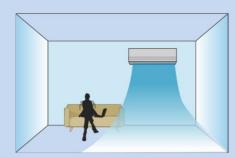
When cooling, cool air is directed across the room and then sinks.



When heating, warm air is directed across the floor and then rises.

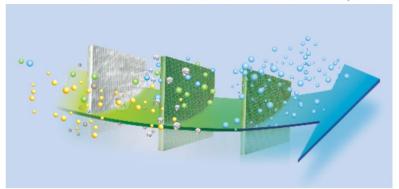
Anti cool air design





When heating in winter, intelligent anti cool air function is started. Unit only blows when air inside the unit is pre-heated to prevent cool air from blowing out.

Trinal air filter with anti-mildew, static electric dust capture and anti-bacterial functions.



Low noise design

Advanced irregular-distance mixed flow fan, unique duct design and multi-grill auxiliary duct make the operation highly efficient and the noise lower.



Washable grille, the front grille can be easily removed for washing.

Wide discharge angle

Auto clean

After unit off indoor fan would still operate in low speed to dry the inner components and parts, preventing mould growing and odor.*

*Only in cooling & drying mode







Low operation sound level.

Low-noise cross flow fan reduces vortex flow in duct, thus reducing the noise.

EXV integrated makes the project installation easier and more flexible.

The external DIP board makes the project debugging quicker.



Wall Mounted Type

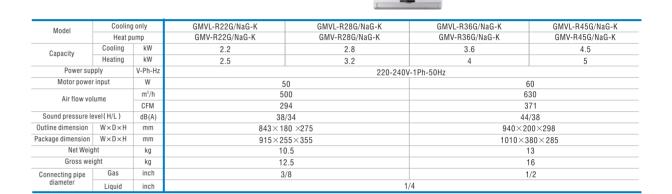


Model	only	GMVL-R22G/NaB-K	GMVL-R28G/NaB-K	GMVL-R36G/NaB-K	GMVL-R45G/NaB-K		
Wodel	Heat pu		GMV-R22G/NaB-K	GMV-R28G/NaB-K	GMV-R36G/NaB-K	GMV-R45G/NaB-K	
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	
oupuoity	Heating	kW	2.5	3.2	4	5	
Power su	pply	V-Ph-Hz		220-240V	-1Ph-50Hz		
Motor powe	r input	W	32	32		48	
Air flow vo	lume	m³/h	36	0	500		
All How to	iuiiio	CFM	21	2	294		
Sound pressure l	evel (H/L)	dB(A)	37/	/28	43/28		
Outline dimension	$W \times D \times H$	mm	770×19	0×250	830×189×285		
Package dimension	$W \times D \times H$	mm	955×33	0×272	1006×385×265		
Net Weig	ıht	kg	8		11		
Gross weight		kg	14.3		15.8		
Connecting pipe	Gas	inch	3/	8	1/2		
diameter	Liquid	inch		1	1/4		



					I			
Model	Model Cooling		GMVL-R50G/NaB-K	GMVL-R56G/NaB-K	GMVL-R71G/Na-K	GMVL-R80G/Na-K		
Widdel	Heat p	ump	GMV-R50G/NaB-K	GMV-R56G/NaB-K	GMV-R71G/Na-K	GMV-R80G/Na-K		
Capacity	Cooling	kW	5.0	5.6	7.1	8.0		
oupdoity	Heating	kW	5.8	6.3	8.0	9.0		
Power su	pply	V-Ph-Hz		220-240V	220-240V-1Ph-50Hz			
Motor powe	Motor power input W		56	58	63	85		
Air flow vol	Air flow volume		700	750	1200			
All How voi	iuiiie	CFM	412	441.5	706			
Sound pressure l	evel(H/L)	dB(A)	45,	/40	49/42			
Outline dimension	$W \times D \times H$	mm	1020×2	228×310	1178×227×326			
Package dimension	$W \times D \times H$	mm	1178×3	325×390	1365×417×333			
Net Weig	jht	kg	15	i.5	17.5			
Gross we	Gross weight kg		20.5		23			
Connecting pipe	Gas	inch	1/2	5/8	5/	8		
diameter	Liquid	inch	1/4	3/8	3/	8		

Wall Mounted Type



Model	Model Cooling only		GMVL-R50G/NaG-K	GMVL-R56G/NaG-K	GMVL-R63G/NaG-K	GMVL-R71G/NaG-K		
WIGGGI	Heat po	ump	GMV-R50G/NaG-K	GMV-R56G/NaG-K	GMV-R63G/NaG-K	GMV-R71G/NaG-K		
Capacity	Cooling	kW	5.0	5.6	6.3	7.1		
oupacity	Heating	kW	5.8	6.3	7.0	8.0		
Power sup	ply	V-Ph-Hz		220-240V-1Ph-50Hz				
Motor power	input	W	60	70				
Air flow vol	Air flow volume m		600	800				
All flow voi	uilic	CFM	371	471				
Sound pressure le	evel (H/L)	dB(A)		44/	/38			
Outline dimension	W×D×H	mm	940×200×298		1008×221×319			
Package dimension	W×D×H	mm	1010×380×285		1073×395×313			
Net Weig	ht	kg	13		15			
Gross wei	ght	kg	16	20				
Connecting pipe	Gas	inch	1/2		5/8			
diameter	Liquid	inch	1/4	77				

