



GMV Multi VRF System



2012

R410a COMMERCIAL AIR CONDITIONERS



It is our aim to bring you
the worlds best Air Conditioners
at the best possible price

GMV Multi VRF System

VRF

GMV SERIES

GMV- PDHM SERIES 3 Pipe

Condensing Units
Indoor Units

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GMV- R- SERIES 2 Pipe

Condensing Units
Indoor Units

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Company Profile



- ! The largest air conditioning enterprise in the world.
- ! Over 40,000 employees
- ! Annual production capacity of 59.5 million units
- ! Annual turnover 38 Billion Dollars
- ! 2300 research and development engineers
- ! 300 research and development laboratories
- ! 2000 patents for air conditioning products
- ! Gree units sold worldwide spanning 200 individual countries



Sales Centre



Mould Design Centre



Metal Sheet Processing Centre

One in three Air Conditioners sold worldwide are produced by Gree

World's number one Air Conditioning manufacturer

50 Million residential units annual capacity

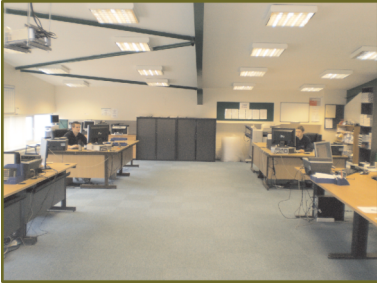
5.5 Million commercial units annual capacity

8 Worldwide production bases

170 Million users

This is why Gree is the world's number one manufacturer of
Air Conditioners. ACS-ACD are proud to
supply Gree products





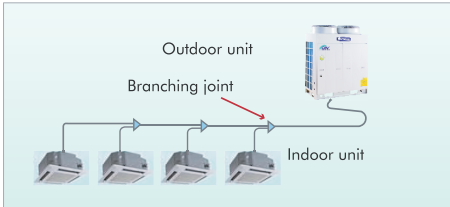
Gree Commercial Air Conditioners

Supplied and
Distributed in the
UK by ACD Direct



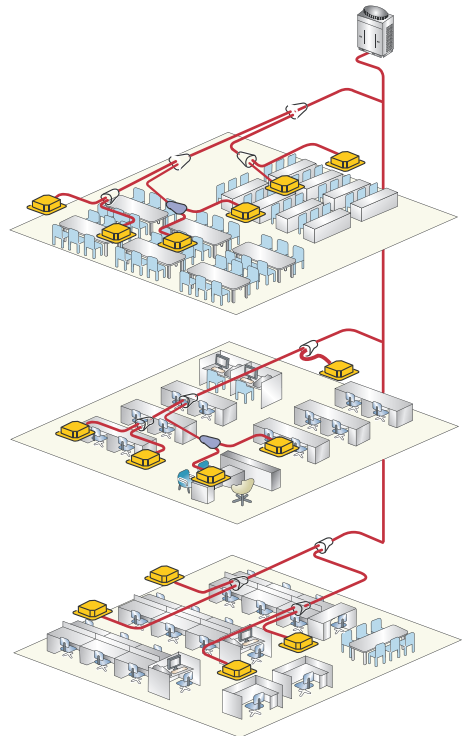
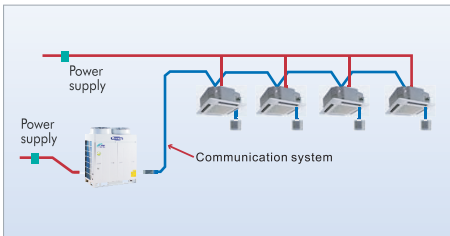


■ Branch Pipe Connections



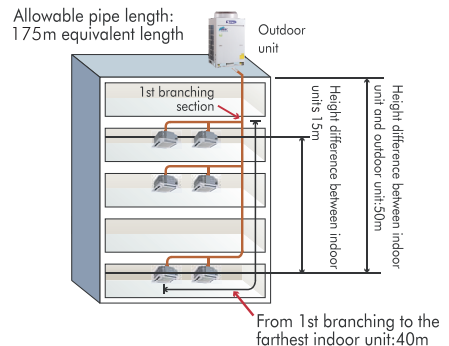
■ Simple Wiring

A 2 - core communication cable wired between each indoor unit terminating at the condensing unit



■ High Lift Design

175m equivalent pipe length with a total system pipe length of a 1000 metres.
When the outdoor unit is located above the indoor unit the standard height difference is 50m. When the outdoor unit is located below the indoor unit, the standard height difference is 60m.



Temperature, time and airflow can be controlled individually in each room by the digital technology within the indoor and outdoor units.

GMV Multi VRV System

■ Self Diagnostics

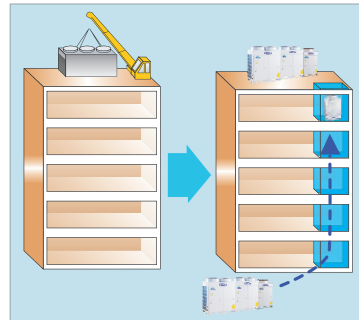
Comprehensive Troubleshooting

Self diagnostics examples

Malfunction code	Nature of malfunction
E1	Compressor high pressure protection
E2	Indoor unit anti-freeze protection
E3	Compressor low pressure protection
E4	Compressor discharge temperature protection
E5	Compressor over loading protection
E6	Communication error

■ Flexibility

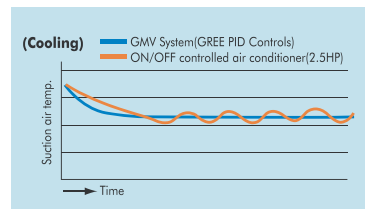
Heating and cooling to all commercial premises and many other industrial applications. It enhances the indoor environment and creates a basis for increased business prosperity. Whatever the air conditioning requirement, a Gree indoor unit will provide the answer. GMV-R air conditioning can be supplied via 5 different indoor unit models in a total of 53 variations.



■ Intelligent Control

GREE GMV intelligent controls and modulating valves can deliver the required capacity, according to the load variation from 10% to 100%.

The intelligent controls and modulating valves limit or increase the cooling capacity dynamically, so humidity and temperature are kept in the comfort range.



Electronic expansion valves respond to the charges in load of indoor units and control the flow rate of refrigerant. In this way, we can get a nearly constant room temperature with the GMV system without common temperature fluctuation that occurs with a conventional ON/OFF control system. The precise PID controls maintain the room temperature within ± 0.5 °C of the set temperature.

■ Wide Control Application

Intelligence Network System

- ! Central Control Available (provided with weekly time function)
- ! Network monitoring system available.
- ! Wireless remote controller or wired controller for indoor units.
- ! Diagnostic software for service purposes.

■ Capacity

Rm series and Pdm series are modularly designed so that a maximum of 4 basic modules can be freely combined together to achieve max capacity of 72HP (201Kw). With advanced controlling, the outdoor modules have no differences so there is no need to appoint master or slave units.

■ DC Inverter Fan

Due to the high-efficiency of the DC inverter fan motor, the outdoor units are highly efficient and very quiet.

The ESP (external static pressure) is up to 50Pa, which means that the hot air exhaust can be ducted without a fan.

(Note: Only specified models are equipped with a DC inverter fan motor, the others have an AC inverter motor). For more details please contact ACD Sales department.

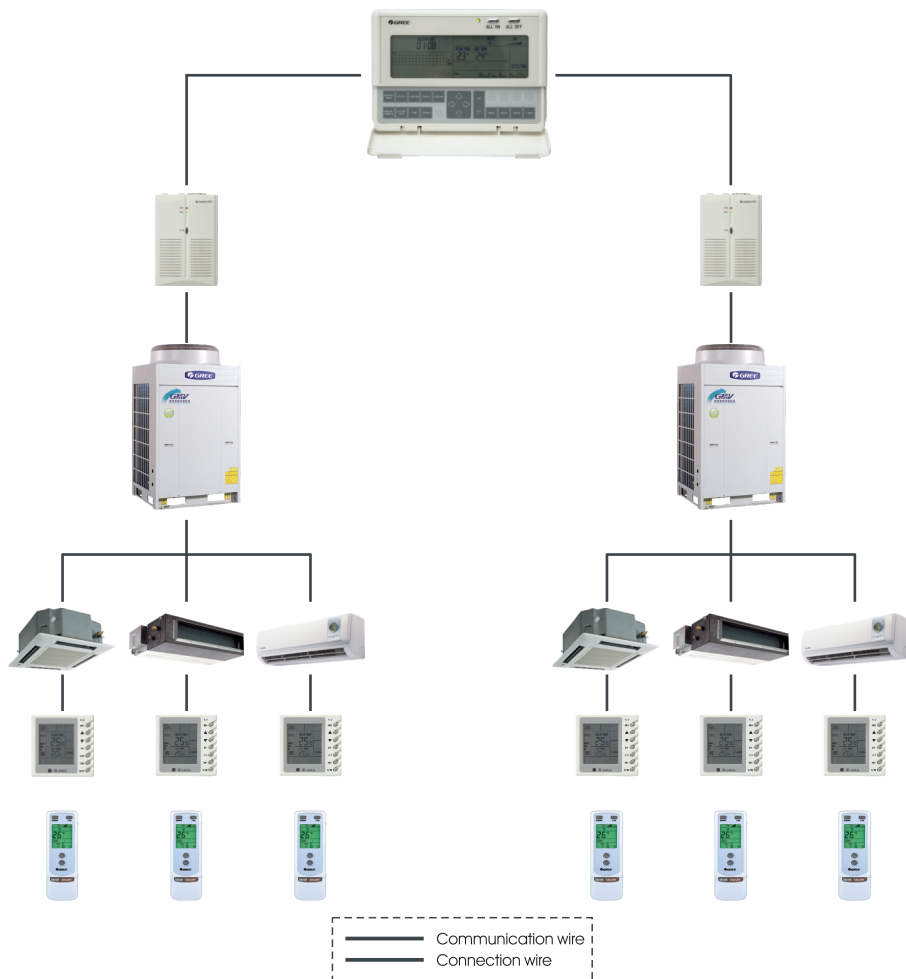
Part L of the Building Regulations

As part of the European Community's aim to reduce Global Warming emissions a directive known as Energy Performance in Buildings Directive (EPBD) was made effective. In the UK we amended Part L of our building regulations to comply with this directive, which became law in April 2006. It is split between domestic (L1A / L1B) and non-domestic (L2A / L2B) buildings. It applies to new building design (sections A) and refurbishments (sections B). Air conditioning is measured by Seasonal Energy Efficiency Ratio (SEER) and Seasonal Coefficient of Performance (SCoP) for cooling and heating respectively. The default levels in the Government calculating tool (SBEM) is SEER 3.5 and SCoP 2.2 for VRV.



GMV Multi VRV System 3 Pipe

Central control (Optional)



Centralised Controller (optional)

1. The central controller can control 64 communication modules, which can connect with up to 1024 indoor units. The system can central control all units, a single control, or select multiple indoor units.
2. Several displays and functions including: error code display, auto detect display, indication of operation state, time, clock, and self diagnostic function. The communication net that is formed by the central controller and several communication modules can use a communication wire that is up to 1000 metres of 2 core cable (without using communication interrupter).

Long distance monitoring (optional)

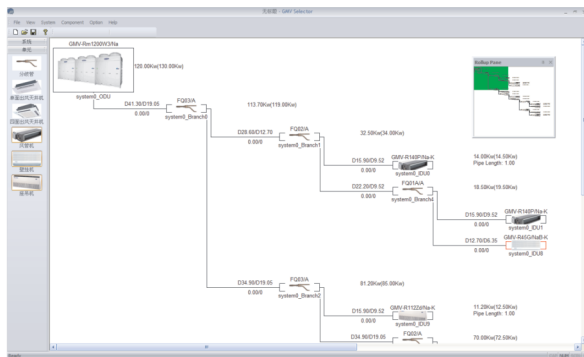


1. A simple computer can monitor and control up to a total of 4064 indoor units. This makes for ease of service and maintenance.
2. It saves operating costs and each system can be remotely set.

GMV Multi VRV System 3 Pipe

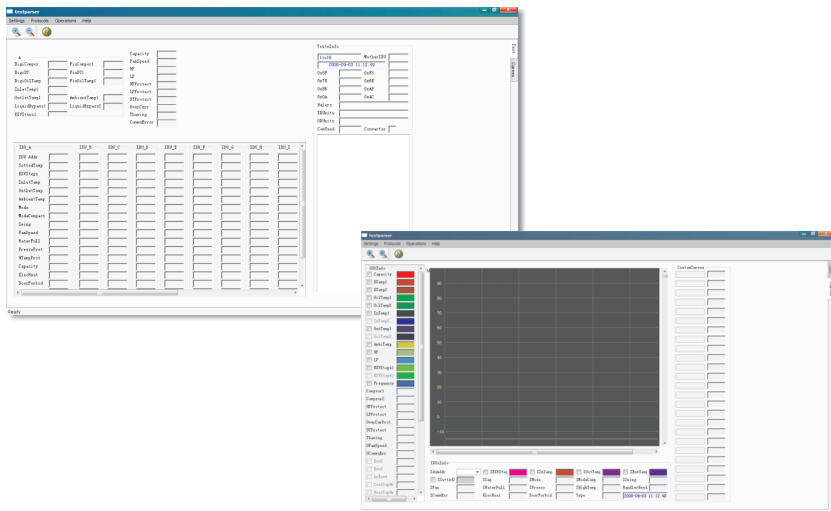
Model Selection Software

Design for VRF project can be achieved by the use of a professional selection software from Gree. This will calculate the project layout, quantity of copper pipe and additional refrigerant needed.

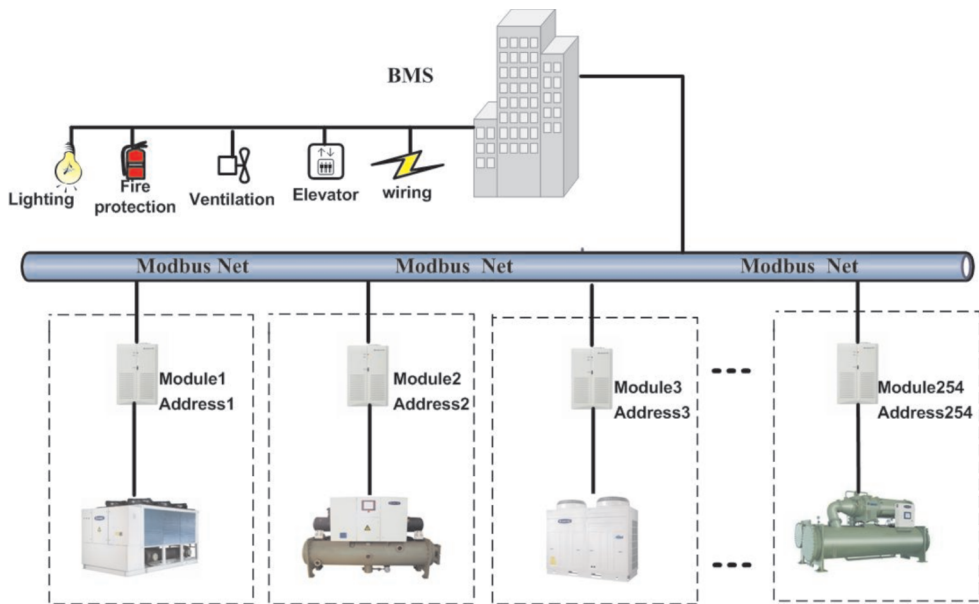


Diagnostic software

All data of the air conditioning system is greatly improved and easily obtained, recorded and analysed by this software..

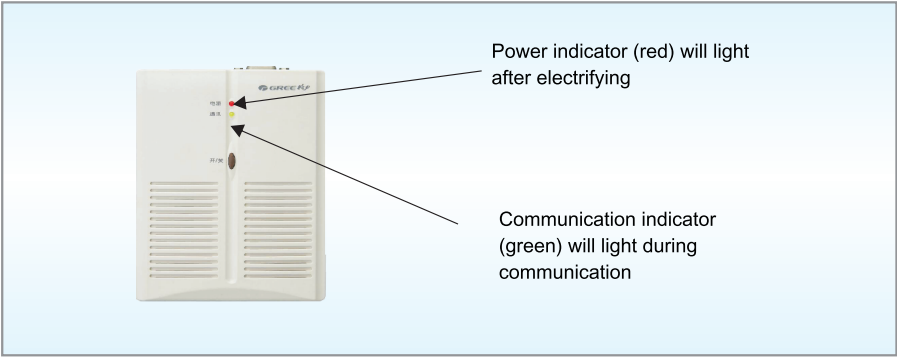


BMS Interface



BMS interface is available on all Gree VRF systems

BMS Communication Module



Communication module is used for communication of the indoor unit to the central control or BMS.

GMV Multi VRV System 3 Pipe

Product Line Up

Outdoor unit (cooling capacity)

Single unit

Series \ Capacity (kW)	10	12	14	16	22	26	28	30	34	40	45	50	56	60	67	73	80	85	90
GMV-R		✓		✓		✓		✓			✓		✓	✓					✓
GMV-Rm					✓		✓		✓	✓	✓	✓							
GMV-Pd	✓	✓	✓	✓	✓		✓		✓	✓	✓								
GMV-Pdhm					✓		✓				✓	✓	✓						

Modular unit

Series \ Capacity (kW)	50	56	60	67	73	80	85	90	95	100	107	113	120	125	130	140	146	151	160	165	170	175	180	185	190	196	201
GMV-Rm		✓	✓ (62)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GMV-Pd	✓	✓	✓	✓	✓	✓ (78.5)	✓	✓	✓	✓	✓	✓	✓ (118)	✓ (124)	✓	✓	✓	✓	✓ (157)	✓	✓	✓	✓	✓	✓	✓	✓

Indoor unit (cooling capacity)

	kW	2.2	2.5	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	14	22.4	28
	GMV-R	✓	✓	✓	✓	✓		✓		✓		✓		✓	✓	✓	✓
	GMV-Rm	✓	✓	✓	✓	✓		✓		✓		✓		✓	✓	✓	✓
	GMV-Pd	✓	✓	✓	✓	✓		✓		✓		✓		✓	✓	✓	✓
	GMV-Pdhm	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓			
	GMV-R			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ (12.5)		
	GMV-Rm			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ (12.5)		
	GMV-Pd			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ (12.5)		
	GMV-Pdhm			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ (12.5)		
	GMV-R	✓		✓	✓	✓											
	GMV-Rm	✓		✓	✓	✓											
	GMV-Pd	✓		✓	✓	✓											
	GMV-R	✓		✓	✓	✓	✓	✓		✓	✓						
	GMV-Rm	✓		✓	✓	✓	✓	✓		✓	✓						
	GMV-Pd	✓		✓	✓	✓	✓	✓		✓	✓						
	GMV-Pdhm	✓		✓	✓	✓	✓	✓		✓	✓						
	GMV-R			✓	✓		✓			✓		✓		✓	✓ (12.5)		
	GMV-Rm			✓	✓		✓			✓		✓		✓	✓ (12.5)		
	GMV-Pd			✓	✓		✓			✓		✓		✓	✓ (12.5)		
	GMV-Pdhm			✓	✓		✓			✓		✓		✓	✓ (12.5)		



GMV-Pdhm Series Heat Recovery



GMV-Pdhm Series Heat Recovery & D.C Inverter

Maximum coefficient performance under heat recycling mode is up to **6.8** under the following conditions: when the environment temperature for an indoor unit in cooling mode is 27°C/19°C; environment temperature for an indoor unit in heating mode is 20°C and outdoor environment temperature +7°C.

Quick switching of indoor unit mode from heating to cooling within 3 minutes.

Temperature range: independent cooling -10 +48 C; independent heating -20 +27 C; and heat recycling – 10 +20 C.

Power range: 3ph, 320v~460v, 50HZ.

The total capacity of indoor unit may reach 135% of the outdoor unit capacity.

Operation Range	Cooling	℃	-10 ~ 48
	Heating	℃	-20 ~ 27
	Cooling and Heating	℃	-10 ~ 20

GMV 3 Pipe Condensing Units



Model	Heat pump		GMV-Pdhm224W/Na-M	GMV-Pdhm280W/Na-M
Capacity	Cooling	kW	22.4	28
	Heating	kW	25	31.5
Power supply		V-Ph-Hz	342-420V-3Ph-50Hz	
Power input	Cooling	kW	5.5	7.5
	Heating	kW	5.8	7.7
COP	Cooling	W/W	4.07	3.73
ECOP	cooling & heating	W/W	6.80	6.80
Refrigerant charge volume		kg	12	12
Compressor quantity		unit	2	2
Sound pressure level		dB(A)	58	58
Outline dimension	W×D×H	mm	930×770×1670	
Package dimension	W×D×H	mm	1030×850×1850	
Net weight		kg	280	280
Gross weight		kg	320	320
Connecting pipe diameter	Gas(High pressure)	inch	3/4	3/4
	Gas(Low pressure)	inch	7/8	7/8
	Liquid	inch	3/8	3/8
Maximum drive IDU NO.		unit	16	16
Maximum equivalent piping length		m	500	



Model	Heat pump		GMV-Pdhm450W2/Na-M	GMV-Pdhm504W2/Na-M	GMV-Pdhm560W2/Na-M	GMV-Pdhm850W3/Na-M
Capacity	Cooling	kW	45	50.4	56	85
	Heating	kW	50	56.5	63	95
Power supply		V-Ph-Hz	342-420V-3Ph-50Hz			380-415V-3Ph- 50Hz
Power input	Cooling	kW	11	13	15	25.8
	Heating	kW	11.6	13.5	15.4	25.1
Refrigerant charge volume		kg	12+12	12+12	12+12	12+12+12
Compressor quantity		unit	4	4	4	6
Sound pressure level		dB(A)	60	62	62	62
Outline dimension	W×D×H	mm	930×770×1670+930×770×1670			930×770×1670+930×770×1670+930×770×1670
Package dimension	W×D×H	mm	1030×850×1850+1030×850×1850			1030×850×1850+1030×850×1850+1030×850×1850
Net weight		kg	280+280	280+280	280+280	280+280+280
Gross weight		kg	320+320	320+320	320+320	320+320+320
Connecting pipe diameter	Gas(High pressure)	inch	7/8	7/8	7/8	9/8
	Gas(Low pressure)	inch	9/8	9/8	9/8	11/8
	Liquid	inch	1/2	5/8	5/8	3/4
Maximum drive IDU NO.		unit	26	29	32	50
Maximum equivalent piping length		m	500			500

Y Type refnet

Model	Total capacity of downstream indoor unit X
FQ01Na/A	$X \leq 56$
FQ02Na/A	$56 < X \leq 220$
FQ03Na/A	$220 < X \leq 300$
FQ04Na/A	$300 < X \leq 680$
FQ05Na/A	$680 < X \leq 960$
FQ06Na/A	$960 < X \leq 1350$
FQ07Na/A	$1350 < X$

GMV 3 Pipe Indoor Units

Cassette type

- Low noise
- Compact and light weight
- Washable filter
- Drain pump lift to 1.1 metres
- Hard wired control
- Remote Control
- Drain Kit
- Communication cable supplied



(optional)



2.8kW–12.5kW



Model	Heat pump		GMV-Rh28T/Na-K	GMV-Rh36T/Na-K	GMV-Rh45T/Na-K	GMV-Rh50T/Na-K	GMV-Rh56T/Na-K	GMV-Rh63T/Na-K
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3
	Heating	kW	3.2	4.0	5.0	5.8	6.3	7.0
Power supply		V-Ph-Hz	220-240V-1ph-50Hz					
Motor power output		W	60		65		83	
Air flow volume		m ³ /h ¹	680				1180	
		CFM	400				695	
Sound pressure level		dB(A)	37				39	
Main body	Outline W×D×H	mm	840×840×190				840×840×240	
	Package W×D×H	mm	960×960×257				960×960×310	
	Net weight	kg	25				30	
	Gross weight	kg	33				38	
Panel	Outline W×D×H	mm	950×950×60					
	Package Wx×D×H	mm	1040×1025×115					
	Net weight	kg	6.5					
	Gross weight	kg	10					
Connecting pipe diameter	Gas	inch	3/8	1/2			5/8	
	Liquid	inch	1/4	1/4			3/8	



Model	Heat pump		GMV-Rh71T/Na-K	GMV-Rh80T/Na-K	GMV-Rh90T/Na-K	GMV-Rh100T/Na-K	GMV-Rh112T/Na-K	GMV-Rh125T/Na-K
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.5
	Heating	kW	8.0	8.8	10.0	11.0	12.5	13.5
Power supply		V-Ph-Hz	220-240V-1ph-50Hz					
Motor power input		W	83			133		
Air flow volume		m ³ /h ¹	1180			1860		
		CFM	695			1095		
Sound pressure level		dB(A)	39			40		
Main body	Outline W×D×H	mm	840×840×240			840×840×320		
	Package W×D×H	mm	960×960×310			960×960×394		
	Net weight	kg	30			38		
	Gross weight	kg	38			46		
Panel	Outline W×D×H	mm	950×950×60					
	Package W×D×H	mm	1040×1025×115					
	Net weight	kg	6.5					
	Gross weight	kg	10					
Connecting pipe diameter	Gas	inch	5/8					
	Liquid	inch	3/8					

GMV 3 Pipe Indoor Units

Duct type

Low noise
Compact and light weight
Washable filter
Drain pump lift to 1.1 metres
Hard wired control
Remote Control
Drain Kit
Communication cable supplied
High ESP



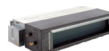
2.2kW–11.2kW



(optional)



Model	Heat pump		GMV-Rh22P/Na-K	GMV-Rh25P/Na-K	GMV-Rh28P/Na-K	GMV-Rh36P/Na-K	GMV-Rh45P/Na-K	GMV-Rh50P/Na-K
Capacity	Cooling	kW	2.2	2.5	2.8	3.6	4.5	5.0
	Heating	kW	2.5	3	3.2	4.0	5.0	5.8
Power supply		V-Ph-Hz	220-240V-1ph-50Hz					
Motor power output		W	20				60	
Air flow volume	m³/h		450		570		700	
	CFM		265		335		412	
Standard Esp		Pa	10		10		20	
Sound pressure level		dB(A)	37		39		40	
Outline dimension	W×D×H	mm	875×680×220				980×736×266	
Package dimension	W×D×H	mm	1165×710×275				1220×776×320	
Net Weight		kg	27				36	
Gross weight		kg	31				39	
Connecting pipe diameter	Gas	inch	3/8			1/2		
	Liquid	inch	1/4					



Model	Heat pump		GMV-Rh56P/Na-K	GMV-Rh71P/Na-K	GMV-Rh80P/Na-K	GMV-Rh90P/Na-K	GMV-Rh112P/Na-K
Capacity	Cooling	kW	5.6	7.1	8.0	9.0	11.2
	Heating	kW	6.3	8.0	8.8	10.0	12.5
Power supply		V-Ph-Hz	220-240V-1ph-50Hz				
Motor power output		W	90	90	135		
Air flow volume	m ³ /h		1000	1100	1700		
	CFM		588	647	1000		
Standard Esp		Pa	25	25	30		
Sound pressure level		dB(A)	41	42	44		
Outline dimension	W×D×H	mm	1159×736×260			1385×736×260	
Package dimension	W×D×H	mm	1398×785×320			1682×796×310	
Net Weight		kg	37			49	
Gross weight		kg	41			60	
Connecting pipe diameter	Gas	inch	5/8				
	Liquid	inch	3/8				

GMV 3 Pipe Indoor Units

Floor ceiling type

- Low noise
- Compact and light weight
- Washable filter
- Drain pump lift to 1.1 metres
- Hard wired control
- Remote Control
- Drain Kit
- Communication cable supplied



2.8kW–5.0kW



(optional)



7.1kW–12.5kW



Model			Heat pump		GMV-Rh28Zd/Na-K	GMV-Rh36Zd/Na-K	GMV-Rh50Zd/Na-K
Capacity	Cooling		kW		2.8	3.6	5.0
	Heating		kW		3.2	4.0	5.8
Power supply			V-Ph-Hz		220-240V-1ph-50Hz		
Motor power output			W		10	10	40
Air flow volume			m³/h		550	600	700
			CFM		324	353	412
Sound pressure level			dB(A)		43	44	50
Outline dimension	W×D×H	mm	840×238×695				
Package dimension	W×D×H	mm	1035×295×805				
Net Weight			kg		26	26	27
Gross weight			kg		37	37	39
Connecting pipe diameter	Gas	inch	3/8		1/2	1/2	1/2
	Liquid	inch			1/4		

Model			Heat pump		GMV-Rh71Zd/Na-K	GMV-Rh90Zd/Na-K	GMV-Rh112Zd/Na-K	GMV-Rh125Zd/Na-K
Capacity	Cooling		kW		7.1	9.0	11.2	12.5
	Heating		kW		8.0	10.0	12.5	13.5
Power supply			V-Ph-Hz		220-240V-1ph-50Hz			
Motor power output			W		100	150	180	180
Air flow volume			m³/h		1170	2100	2200	2300
			CFM		689	1237	1296	1354
Sound pressure level			dB(A)		48	51	54	55
Outline dimension	W×D×H	mm	1300×188×600		1590×238×695			
Package dimension	W×D×H	mm	1514×248×724		1714×330×830			
Net Weight			kg		32		48	
Gross weight			kg		43		63	
Connecting pipe diameter	Gas	inch			5/8			
	Liquid	inch			3/8			

Y type branch

Model	Total capacity of downstream indoor unit X
FQ01Na/A	$X \leq 50$
FQ02Na/A	$50 < X \leq 220$
FQ03Na/A	$220 < X \leq 335$

X=10 * cooling capacity(kW)

GMV 3 Pipe Indoor Units

Wall mounted type

- Low noise
- Compact and light weight
- Washable filter
- Hard wired control
- Remote Control
- Communication cable supplied



2.2kW–5.6kW



(optional)



7.1kW–8.0kW

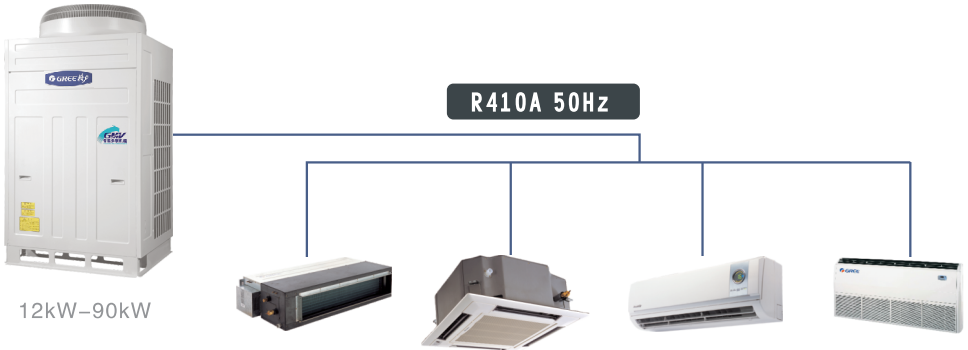


Model	Heat pump		GMV-Rh22G/Na-K	GMV-Rh28G/Na-K	GMV-Rh36G/Na-K	GMV-Rh45G/Na-K
	Cooling	kW	2.2	2.8	3.6	4.5
Capacity	Heating	kW	2.5	3.2	4.0	5.0
Power supply		V-Ph-Hz	220-240V-1ph-50Hz			
Motor power output		W	14		22	
Air flow volume		m ³ /h	360		500	
		CFM	212		294	
Sound pressure level		dB(A)	37		43	
Outline dimension	W×D×H	mm	770×190×250		830×189×285	
Package dimension	W×D×H	mm	860×272×478		905×265×533	
Net Weight		kg	8.5		11.0	
Gross weight		kg	15.6		18.5	
Connecting pipe diameter	Gas	inch	3/8		1/2	
	Liquid	inch	1/4		1/4	



Model	Heat pump		GMV-Rh50G/Na-K	GMV-Rh56G/Na-K	GMV-Rh71G/Na-K	GMV-Rh80G/Na-K
	Cooling	kW	5.0	5.6	7.1	8.0
Capacity	Heating	kW	5.8	6.3	8.0	9.0
Power supply		V-Ph-Hz	220-240V-1ph-50Hz			
Motor power output		W	20		26	
Air flow volume		m ³ /h	700		1200	
		CFM	412		707	
Sound pressure level		dB(A)	45		49	
Outline dimension	W×D×H	mm	1020×228×310		1178×227×326	
Package dimension	W×D×H	mm	1080×390×420		1415×333×475	
Net Weight		kg	14.7		18.2	
Gross weight		kg	23.6		27.3	
Connecting pipe diameter	Gas	inch	1/2		5/8	
	Liquid	inch	1/4		3/8	

GMV Multi VRV System 2 Pipe



GMV-R Series

- ! High CDP valve.
- ! Stepless capacity adjustable range of 10 – 100%.
- ! Unique refrigerant and all balance patent design.
- ! Simplified electronic control system, increased operation reliability even on 10% load condition.
- ! High EER value of unit under partial load.
- ! Advance error self diagnostics.
- ! Excellent electromagnetic compatibility, no interference from the mains power supply.
- ! Wide range of outdoor units 10kw to 180kw.
- ! Wide range of indoor units available.
- ! Up to 32 indoor units are conectable to 62kw outdoor units.



Diagnosis
displaying



Electromagnetic
compatibility



Long life and
washable filter



Compact
design



Light weight



Quiet design



Easy installation

Operation Range	Cooling	°C	10~43
	Heating	°C	-15~27

GMV 2 Pipe Condensing Units



Model	Cooling only		GMVL-R120W/Na-K	GMVL-R160W/Na-M	GMVL-R260W2/Na-M	GMVL-R300W2/Na-M
	Heat pump		GMV-R120W/Na-K	GMV-R160W/Na-M	GMV-R260W2/Na-M	GMV-R300W2/Na-M
Capacity	Cooling/Heating	kW	12/14	16/17	26/28.5	30/33.5
Power supply		V-Ph-Hz	220-240V-1Ph~50Hz		380-415V -3Ph~ 50Hz	
Power input	Cooling/Heating	kW	3.9/3.8	4.9/4.8	8.5/8.0	9.0/8.8
IPLV	Cooling	W/W	3.0		3.4	
Refrigerant charge volume		kg	6.0	8.0	14.0	
Compressor quantity		unit	1		2	
Sound pressure level		dB(A)	58		58	
Outline dimension	W×D×H	mm	1100×340×1250		990×880×1772	
Package dimension	W×D×H	mm	1260×450×1270		1162×980×1950	
Net weight		kg	140		280	300
Connection pipe	Gas/Liquid pipe	inch	5/8, 3/8	3/4, 3/8	7/8, 3/8	
Maximum drive IDU NO.		unit	8		16	
Maximum equivalent piping length(m)		m	100		150	



Model	Cooling		GMVL-R450W3/Na-M	GMVL-R560W4/Na-M	GMVL-R600W4/Na-M	GMVL-R900W6/Na-M
	Heat pump		GMV-R450W3/Na-M	GMV-R560W4/Na-M	GMV-R600W4/Na-M	GMV-R900W6/Na-M
Capacity	Cooling/Heating	kW	45/48	56/60	60/63	90/100
Power supply		V-Ph-Hz	380-415V -3Ph~ 50Hz			
Power input	Cooling/Heating	kW	14.5/13.7	18.5/18	19.2/18.2	30.1/27.5
IPLV	Cooling	W/W	3.6			
Refrigerant charge volume		kg	20.0	28.0		48.0
Compressor quantity		unit	3	4		6
Sound pressure level		dB(A)	60			62
Outline dimension	W×D×H	mm	1290×880×1772	1980×920×1760		2580×880×1772
Package dimension	W×D×H	mm	1370×980×1950	2152×980×1950		2600×980×1950
Net weight		kg	450	600		800
Connection pipe	Gas/Liquid pipe	inch	7/8, 1/2	7/8, 5/8		1 1/8, 3/4
Maximum drive IDU NO.		unit	16	32		
Maximum equivalent piping length(m)		m	150			

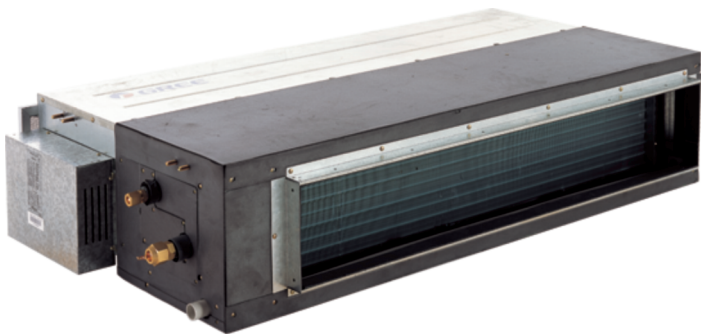
GMV 2 Pipe Indoor Units

Duct type split

- Low noise
- Compact and light weight
- Washable filter
- Drain pump lift to 1.1 metres
- Hard wired control
- Remote Control
- Drain Kit
- Communication cable supplied
- High ESP



(optional)



Model	Cooling only		GMVL-R22P/Na-K	GMVL-R25P/Na-K	GMVL-R28P/Na-K	GMVL-R32P/Na-K
	Heat pump		GMV-R22P/Na-K	GMV-R25P/Na-K	GMV-R28P/Na-K	GMV-R32P/Na-K
Capacity	Cooling/Heating	kW	2.2/2.5	2.5/3.0	2.8/3.2	3.2/3.6
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz			
Motor power input		W	54	54	55	55
Air volume	Standard	m³/h	450	450	570	570
	Standard E.S.P	Pa	10	10	10	10
Sound pressure level		dB(A)	37	37	39	39
Outline dimension	W×D×H	mm	875×680×220	875×680×220	875×680×220	875×680×220
Package dimension	W×D×H	mm	1012×780×275	1012×780×275	1012×780×275	1012×780×275
Net weight		kg	27	27	27	27
Connecting pipe	Gas/Liquid pipe	inch	3/8, 1/4	3/8, 1/4	3/8, 1/4	1/2, 1/4

GMV 2 Pipe Indoor Units

Duct type split



Model	Cooling only		GMVL-R36P/Na-K	GMVL-R40P/Na-K	GMVL-R45P/Na-K	GMVL-R50P/Na-K
	Heat pump		GMV-R36P/Na-K	GMV-R40P/Na-K	GMV-R45P/Na-K	GMV-R50P/Na-K
Capacity	Cooling/Heating	kW	3.6/4.0	4.0/4.5	4.5/5.0	5.0/5.8
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz			
Motor power input		W	55	91	91	91
Air volume	Standard	m³/h	570	700	700	700
Standard E.S.P		Pa	10	20	20	20
Sound pressure level		dB(A)	39	40	40	40
Outline dimension	W×D×H	mm	875×680×220	980×736×266	980×736×266	980×736×266
Package dimension	W×D×H	mm	1012×780×275	1068×766×320	1068×766×320	1068×766×320
Net weight		kg	27	36	36	36
Connecting pipe	Gas/Liquid pipe	inch	1/2, 1/4	1/2, 1/4	1/2, 1/4	1/2, 1/4



Model	Cooling only		GMVL-R56P/Na-K	GMVL-R63P/Na-K	GMVL-R71P/Na-K	GMVL-R80P/Na-K
	Heat pump		GMV-R56P/Na-K	GMV-R63P/Na-K	GMV-R71P/Na-K	GMV-R80P/Na-K
Capacity	Cooling/Heating	kW	5.6/6.3	6.3/7.0	7.1/8.0	8.0/8.8
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz			
Motor power input		W	157	157	157	157
Air volume	Standard	m³/h	1000	1000	1100	1100
Standard E.S.P		Pa	25	25	25	25
Sound pressure level		dB(A)	41	41	42	42
Outline dimension	W×D×H	mm	1159×736×260	1159×736×260	1159×736×260	1159×736×260
Package dimension	W×D×H	mm	1345×785×320	1345×785×320	1345×785×320	1345×785×320
Net weight		kg	37	37	37	37
Connecting pipe	Gas/Liquid pipe	inch	5/8, 3/8	5/8, 3/8	5/8, 3/8	5/8, 3/8



Model	Cooling only		GMVL-R90P/Na-K	GMVL100P/Na-K	GMVL112P/Na-K	GMVL125P/Na-K	GMVL140P/Na-K
	Heat pump		GMV-R90P/Na-K	GMV100P/Na-K	GMV112P/Na-K	GMV125P/Na-K	GMV140P/Na-K
Capacity	Cooling/Heating	kW	9.0/10.0	10.0/11.0	11.2/12.5	12.5/13.5	14.0/15.0
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz				
Motor power input		W	270	270	270	270	470
Air volume	Standard	m³/h	1700	1700	1700	1700	2000
Standard E.S.P		Pa	30	30	30	30	50
Sound pressure level		dB(A)	44	44	44	44	45
Outline dimension	W×D×H	mm	1385×736×260	1385×736×260	1385×736×260	1385×736×260	1425×756×300
Package dimension	W×D×H	mm	1528×795×308	1528×795×308	1528×795×308	1528×795×308	1514×785×360
Net weight		kg	49	49	49	49	75
Connecting pipe	Gas/Liquid pipe	inch	5/8, 3/8	5/8, 3/8	5/8, 3/8	5/8, 3/8	5/8, 3/8

GMV 2 Pipe Indoor Units

Cassette type

- Low noise
- Compact and light weight
- Washable filter
- Drain pump lift to 1.1 metres
- Hard wired control
- Remote Control
- Drain Kit
- Communication cable supplied



(optional)



2.8 kW -12.5kW

Model	Cooling only		GMVL-R28T/Na-K	GMVL-R36T/Na-K	GMVL-R45T/Na-K	GMVL-R50T/Na-K
	Heat pump		GMV-R28T/Na-K	GMV-R36T/Na-K	GMV-R45T/Na-K	GMV-R50T/Na-K
Capacity	Cooling/Heating	kW	2.8/3.2	3.6/4.0	4.5/5.0	5.0/5.8
Power supply		V-Ph-Hz	220-240V-1Ph ~50Hz			
Motor power input		W	60		65	
Air volume	Standard	m³/h	680			
Sound pressure level		dB(A)	37			
Main body	Outline W×D×H	mm	840×840×190			
	Package W×D×H	mm	960×960×257			
	Net weight	kg	25			
Panel	Outline W×D×H	mm	950×950×60			
	Package W×D×H	mm	1040×1040×115			
	Net weight	kg	6.5			
Connecting pipe	Gas/Liquid pipe	inch	3/8, 1/4	1/2, 1/4		

GMV 2 Pipe Indoor Units



Model	Cooling only		GMVL-R56T/Na-K	GMVL-R63T/Na-K	GMVL-R71T/Na-K	GMVL-R80T/Na-K
	Heat pump		GMV-R56T/Na-K	GMV-R63T/Na-K	GMV-R71T/Na-K	GMV-R80T/Na-K
Capacity	Cooling/Heating	kW	5.6/6.3	6.3/7.0	7.1/8.0	8.0/8.8
Power supply		V-Ph-Hz	220-240V-1Ph ~50Hz			
Motor power input		W	83			
Air volume	Standard	m³/h	1180			
Sound pressure level		dB(A)	39			
Main body	Outline W×D×H	mm	840×840×240			
	Package W×D×H	mm	960×960×310			
	Net weight	kg	30			
Panel	Outline W×D×H	mm	950×950×60			
	Package W×D×H	mm	1040×1040×115			
	Net weight	kg	6.5			
Connecting pipe	Gas/Liquid pipe	inch	5/8, 3/8			



Model	Cooling only		GMVL-R90T/Na-K	GMVL-R100T/Na-K	GMVL-R112T/Na-K	GMVL-R125T/Na-K
	Heat pump		GMV-R90T/Na-K	GMV-R100T/Na-K	GMV-R112T/Na-K	GMV-R125T/Na-K
Capacity	Cooling/Heating	kW	9.0/10.0	10.0/11.0	11.2/12.5	12.5/13.5
Power supply		V-Ph-Hz	220-240V-1Ph ~50Hz			
Motor power input		W	133			
Air volume	Standard	m³/h	1860			
Sound pressure level		dB(A)	40			
Main body	Outline W×D×H	mm	840×840×320			
	Package W×D×H	mm	960×960×394			
	Net weight	kg	38			
Panel	Outline W×D×H	mm	950×950×60			
	Package W×D×H	mm	1040×1040×115			
	Net weight	kg	6.5			
Connecting pipe	Gas/Liquid pipe	inch	5/8, 3/8			

GMV 2 Pipe Indoor Units

Wall mounted type

- Low noise
- Compact and light weight
- Washable filter
- Hard wired control
- Remote Control
- Communication cable supplied



(optional)

2.2kW–5.6kW



7.1kW–8.0kW



Model	Cooling only		GMVL R22G/NaB-K	GMVL-R28G/NaB-K	GMVL-R36G/NaB-K	GMVL-R45G/NaB-K
	Heat pump		GMV-R22G/NaB-K	GMV-R28G/NaB-K	GMV-R36G/NaB-K	GMV-R45G/NaB-K
Capacity	Cooling/Heating	kW	2.2/2.5	2.8/3.2	3.6/4.0	4.5/5.0
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz			
Motor power input		W	32		48	
Sound pressure level		dB(A)	31		35	
Air flow volume		m ³ /h	360		500	
Outline dimension	W×D×H	mm	770×190×250		830×189×285	
Package dimension	W×D×H	mm	955×272×330		1006×265×385	
Net weight		kg	8		11	
Connecting pipe	Gas/Liquid pipe	inch	3/8, 1/4		1/2, 1/4	



Model	Cooling only		GMVL-R50G/NaB-K	GMVL-R56G/NaB-K	GMVL-R71G/Na-K	GMVL-R80G/Na-K
	Heat pump		GMV-R50G/NaB-K	GMV-R56G/NaB-K	GMV-R71G/Na-K	GMV-R80G/Na-K
Capacity	Cooling/Heating	kW	5.0/5.8	5.6/6.3	7.1/8.0	8.0/9.0
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz			
Motor power input		W	32		56	
Sound pressure level		dB(A)	42	45	49	
Air flow volume		m ³ /h	700	750	1200	
Outline dimension	W×D×H	mm	1020×228×310		1178×227×326	
Package dimension	W×D×H	mm	1178×325×390		1356×328×417	
Net weight		kg	12		17.5	
Connecting pipe	Gas/Liquid pipe	inch	1/2, 1/4	5/8, 3/8	5/8, 3/8	

GMV 2 Pipe Indoor Units

Floor ceiling type

Low noise
 Compact and light weight
 Washable filter
 Drain pump lift to 1.1 metres
 Hard wired control
 Remote Control
 Drain Kit
 Communication cable supplied



2.8kW–5.0kW



(optional)



7.1kW–12.5kW



Model	Cooling only		GMVL-R28Zd/Na-K	GMVL-R36Zd/Na-K	GMVL-R50Zd/Na-K	GMVL-R71Zd/Na-K
	Heat pump		GMV-R28Zd/Na-K	GMV-R36Zd/Na-K	GMV-R50Zd/Na-K	GMV-R71Zd/Na-K
Capacity	Cooling/Heating	kW	2.8/3.2	3.6/4.0	5.0/5.8	7.1/8.0
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz			
Motor power input		W	10	10	40	100
Air volume		m³/h	550	600	700	1170
Sound pressure level		dB(A)	43	44	50	48
Outline dimension	W×D×H	mm	840×238×695	840×238×695	840×238×695	1300×188×600
Package dimension	W×D×H	mm	1035×295×805	1035×295×805	1035×295×805	1514×248×724
Net weight		kg	26	26	26	32
Connecting pipe	Gas/Liquid pipe	inch	3/8, 1/4	1/2, 1/4	1/2, 1/4	5/8, 3/8



Model	Cooling only		GMVL-R90Zd/Na-K	GMVL-R112Zd/Na-K	GMVL-R125Zd/Na-K
	Heat pump		GMV-R90Zd/Na-K	GMV-R112Zd/Na-K	GMV-R125Zd/Na-K
Capacity	Cooling/Heating	kW	9.0/10.0	11.2/12.5	12.5/13.5
Power supply		V-Ph-Hz	220-240V -1Ph~50Hz		
Motor power input		W	150	180	180
Air volume		m³/h	2100	2200	2300
Sound pressure level		dB(A)	51	54	55
Outline dimension	W×D×H	mm	1590×238×695	1590×238×695	1590×238×695
Package dimension	W×D×H	mm	1714×330×830	1714×330×830	1714×330×830
Net weight		kg	42	42	42
Connecting pipe	Gas/Liquid pipe	inch	5/8, 3/8	5/8, 3/8	5/8, 3/8

Time For Change

- 1 5 Year Warranty
- 2 Technical Support
- 3 Free Design Service
- 4 On Site Assistance
- 5 Total Reliability
- 6 Up to 30% cost savings compared to all other brands
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