

Inverter Series



It is a kind of VRF system that adopt DC inverter compressor and the outdoor unit could be connected with several indoor units to realize independent cooling or heating control in different rooms.

GMV Mini



GMV IV (Modular Series)



Golden fin condenser	Inner groove copper	High efficiency	Intelligent defrosting	Energy saving function	Precise temperature control	Quiet function	Modular operating*	Comprehensive protection
Wide voltage range	Wide operation range	Compact design	Easier maintainability	Centralized control	Long-distance monitoring			

- Advanced control functions.
- Better reliability.
- Compact outdoor unit.
- Greatly improved energy efficiency*: Significantly greater efficiency is realized by the use of DC inverter hermetic scroll compressors with high pressure chamber design, improved DC inverter driving technology and large heat exchanger.
- Modular outdoor unit design*: Various combination form 8HP to 64HP with 2HP increments. Max. capacity of outdoor units is 180kW (4 modules combination).
- Various combinations*: Up to 110 sets of indoor units can be connected. 6 types and 73 models of indoor unit. Max. diversity is 135%.
- DC inverter scroll compressor.
- ECO-friendly R410A refrigerant.
- Flexible piping Design.

* For GMV IV only.

Max. piping length volume (meter)		
Item	GMV Mini	GMV IV
Total piping length	150m	500m
Actual piping length	70m	150m
Equivalent piping length	80m	175m
Height difference between indoor units	10m	15m
Height difference between outdoor unit and indoor unit (outdoor unit is located above the indoor unit)	30m	50m
Height difference between indoor unit and outdoor unit (outdoor unit is located underneath the indoor unit)	25m	40m
Piping length from first indoor branch to the farthest indoor unit	25m	40m

GMV Mini

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	10~48
Heating	7	6	20	15	-20~27

Model	Heat pump		GMV-Pd160W/NaB-K	GMV-Pd140W/NaB-K	GMV-Pd120W/NaB-K	GMV-Pd100W/NaB-K
Capacity	Cooling	kW	16.0	14.0	12.0	10.0
	Heating	kW	17.6	15.4	14.0	11.0
IPLV	Cooling	kW/kW	4.2	4.4	3.8	3.8
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
	Cooling	kW	4.98	4.36	3.50	2.86
Power input	Heating	kW	4.85	4.05	3.40	2.60
		kg	7.5	7.5	7.5	7.5
Refrigerant charge volume		—	DCx1	DCx1	DCx1	DCx1
Compressor configuration*		—	60	58	58	58
Sound pressure level		dB(A)	950x340x1250	950x340x1250	950x340x1250	950x340x1250
	Outline	mm	1110x450x1280	1110x450x1280	1110x450x1280	1110x450x1280
Dimension (WxDxH)	Package	mm	115/122	111/122	111/122	111/122
		kg	80	80	80	80
Net weight/Gross weight		unit	9	8	7	6
Connecting pipe diameter	Gas	inch	Φ3/4	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Max. equivalent connection pipe length		m	54	54	54	54
Maximum drive IDU NO.		—	54	54	54	54
Loading quantity	40'GP	—	54	54	54	54
	40'HQ	—	54	54	54	54

D: DC inverter dual-rotor type compressor

GMV IV (Modular Series)

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	-5~48
Heating	7	6	20	15	-20~27

Model	Heat pump		GMV-Pdm224W/NaB-M	GMV-Pdm280W/NaB-M	GMV-Pdm335W/NaB-M	GMV-Pdm400W/NaB-M	GMV-Pdm450W/NaB-M
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
IPLV	Cooling	kW/kW	4.15	4.15	4.15	3.95	4.15
Power supply		PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
	Cooling	kW	5.52	7.52	9.23	12.45	14.32
Power input	Heating	kW	5.82	7.7	9.38	11.2	13.9
		kg	12	13	15	16	17
Refrigerant charge volume		—	DCx1+Fx1	DCx1+Fx1	DCx1+Fx2	DCx1+Fx2	DCx1+Fx2
Compressor configuration*		—	58	58	60	61	61
Sound pressure level		dB(A)	930x770x1670	930x770x1670	1340x770x1670	1340x770x1670	1340x770x1670
	Outline	mm	1010x850x1850	1010x850x1850	1420x850x1850	1420x850x1850	1420x850x1850
Dimension (WxDxH)	Package	mm	255/275	255/275	350/380	350/380	370/400
		kg	150	150	150	150	150
Net weight/Gross weight		unit	14	14	16	16	16
Connecting pipe diameter	Gas	inch	Φ7/8	Φ7/8	Φ9/8	Φ9/8	Φ9/8
	Liquid	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ1/2
Max. equivalent connection pipe length	Oil balance	inch	Φ1/2	Φ1/2	Φ1/2	Φ1/2	Φ1/2
		m	24	24	16	16	16
Maximum drive IDU NO.		—	24	24	16	16	16
Loading quantity	40'GP	—	24	24	16	16	16
	40'HQ	—	24	24	16	16	16

DC: DC inverter scroll compressor F: Fixed frequency scroll compressor

Digital Series



It is a kind of VRF system that adopt digital compressor and the outdoor unit could be connected with several indoor units to realize independent cooling or heating control in different rooms.

GMV D



GMV D4 (Modular Series)



Golden fin condenser	Inner groove copper	High efficiency	Intelligent defrosting	Energy saving function	Precise temperature control	Quiet function	Modular operating*	Comprehensive protection
Wide voltage range	Wide operation range	Compact design	Easier maintainability	Centralized control	Long-distance monitoring			

- Advanced control functions.
- Better reliability.
- Compact outdoor unit.
- Greatly improved energy efficiency*: Significantly greater efficiency is realized by the use of advanced digital (PWM variable capacity) compressor and large heat exchanger.
- Modular Outdoor unit design*: Various combination form 8HP to 72HP with 2HP increments. Max. capacity of outdoor units is 201.6kW (4 modules combination).
- Various combinations*: Up to 110 sets of indoor units can be connected. 6 types and 73 models of indoor unit. Max. diversity is 135%.
- Digital scroll compressor.
- ECO-friendly R410A refrigerant.
- Flexible piping Design.

* For GMV D4 only.

Max. piping length volume (meter)		
Item	GMV D	GMV D4
Total piping length	150m	500m
Actual piping length	70m	150m
Equivalent piping length	80m	175m
Height difference between indoor units	10m	15m
Height difference between outdoor unit and indoor unit (outdoor unit is located above the indoor unit)	30m	50m
Height difference between indoor unit and outdoor unit (outdoor unit is located underneath the indoor unit)	25m	40m
Piping length from first indoor branch to the farthest indoor unit	25m	40m

GMV D

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	10~48
Heating	7	6	20	15	-15~27

Model	Heat pump	GMV-R260W2/Na-M	GMV-R300W2/Na-M	GMV-R450W3/Na-M	GMV-R560W4/Na-M	GMV-R600W4/Na-M	GMV-R900W6/Na-M
Capacity	Cooling	kW	26	30	45	56	90
	Heating	kW	28.5	33.5	48	60	100
Power supply	PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	8.5	9.0	14.5	18.5	30.1
	Heating	kW	8.0	8.8	13.7	18.0	27.5
IPLV	Cooling	kW/kW	3.4	3.4	3.6	3.6	3.6
Refrigerant charge volume	kg	14	14	20	25	25	45
Compressor configuration*		Dx1+Fx1	Dx1+Fx1	Dx1+Fx2	Dx1+Fx3	Dx1+Fx3	Dx1+Fx5
Sound pressure level	dB(A)	58	58	60	60	60	62
Dimension (WxDxH)	Outline	mm	990x880x1772	990x880x1772	1290x880x1772	1980x920x1760	2580x880x1772
	Package	mm	1162x980x1950	1162x980x1950	1370x980x1950	2152x980x1950	2152x980x1950
Net weight/Gross weight	kg	280/310	300/330	450/490	600/640	600/640	800/850
Connecting pipe diameter	Gas	inch	Φ7/8	Φ7/8	Φ1-1/8	Φ1-1/8	Φ1-3/8
	Liquid	inch	Φ3/8	Φ3/8	Φ1/2	Φ5/8	Φ3/4
Max. equivalent connection pipe length	m	125	125	125	125	125	150
Maximum drive IDU NO.	unit	16	16	16	32	32	32
Loading quantity	40'GP	—	22	22	17	12	8
	40'HQ	—	22	22	17	12	8

D: Digital scroll compressor F: Fixed frequency scroll compressor

GMV D4 (Modular series)

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	-5~48
Heating	7	6	20	15	-20~27

Model	Heat pump	GMV-Rm224W/Na-M	GMV-Rm280W/Na-M	GMV-Rm335W/Na-M	GMV-Rm400W/Na-M	GMV-Rm450W/Na-M	GMV-Rm504W/Na-M
Capacity	Cooling	kW	22	28	34	40	50.4
	Heating	kW	25	31	36	44	55
IPLV	Cooling	kW/kW	3.4	3.45	3.55	3.6	3.6
Power supply	PhV/Hz	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input	Cooling	kW	8.3	10.7	12.6	16.1	18.8
	Heating	kW	7.8	9.1	10.2	12.6	14.7
Refrigerant charge volume	kg	14	16	17	18	20	20
Compressor configuration*		Dx1+Fx1	Dx1+Fx1	Dx1+Fx1	Dx1+Fx2	Dx1+Fx2	Dx1+Fx2
Sound pressure level	dB(A)	58	58	62	62	62	62
Dimension (WxDxH)	Outline	mm	930x770x1670	930x770x1670	1340x770x1670	1340x770x1670	1340x770x1670
	Package	mm	1030x850x1850	1030x850x1850	1420x850x1850	1420x850x1850	1420x850x1850
Net weight/Gross weight	kg	280/310	300/330	410/450	450/490	450/490	450/490
Connecting pipe diameter	Gas	inch	Φ7/8	Φ7/8	Φ9/8	Φ9/8	Φ9/8
	Liquid	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8
Max. equivalent connection pipe length	m	150	150	150	150	150	150
Maximum drive IDU NO.	unit	14	14	16	16	16	16
Loading quantity	40'GP	—	28	28	22	22	22
	40'HQ	—	28	28	22	22	22

D: Digital scroll compressor F: Fixed frequency scroll compressor

Outdoor Units Lineup—Inverter Series

MODEL		GMV-Pdm224W/NaB-M (8HP)	GMV-Pdm280W/NaB-M (10HP)	GMV-Pdm335W/NaB-M (12HP)	GMV-Pdm400W/NaB-M (14HP)	GMV-Pdm450W/NaB-M (16HP)
	GMV-Pdm224W/NaB-M (8HP)	●				
	GMV-Pdm280W/NaB-M (10HP)		●			
	GMV-Pdm335W/NaB-M (12HP)			●		
	GMV-Pdm400W/NaB-M (14HP)				●	
	GMV-Pdm450W/NaB-M (16HP)					●
	GMV-Pdm504W2/NaB-M (18HP)	●	●			
	GMV-Pdm560W2/NaB-M (20HP)		●●			
	GMV-Pdm615W2/NaB-M (22HP)		●	●		
	GMV-Pdm670W2/NaB-M (24HP)		●		●	
	GMV-Pdm730W2/NaB-M (26HP)		●			●
	GMV-Pdm785W2/NaB-M (28HP)			●		●
	GMV-Pdm850W2/NaB-M (30HP)				●	●
	GMV-Pdm900W2/NaB-M (32HP)					●●
	GMV-Pdm950W3/NaB-M (34HP)		●●		●	
	GMV-Pdm1008W3/NaB-M (36HP)		●●			●
	GMV-Pdm1065W3/NaB-M (38HP)		●	●		●
	GMV-Pdm1130W3/NaB-M (40HP)		●		●	●
	GMV-Pdm1180W3/NaB-M (42HP)		●			●●
	GMV-Pdm1235W3/NaB-M (44HP)			●		●●
	GMV-Pdm1300W3/NaB-M (46HP)				●	●●
	GMV-Pdm1350W3/NaB-M (48HP)					●●●
	GMV-Pdm1405W4/NaB-M (50HP)		●●		●	●
	GMV-Pdm1456W4/NaB-M (52HP)		●●			●●
	GMV-Pdm1512W4/NaB-M (54HP)		●	●		●●
	GMV-Pdm1570W4/NaB-M (56HP)		●		●	●●
	GMV-Pdm1650W4/NaB-M (58HP)		●			●●●
	GMV-Pdm1700W4/NaB-M (60HP)			●		●●●
	GMV-Pdm1750W4/NaB-M (62HP)				●	●●●
	GMV-Pdm1800W4/NaB-M (64HP)					●●●

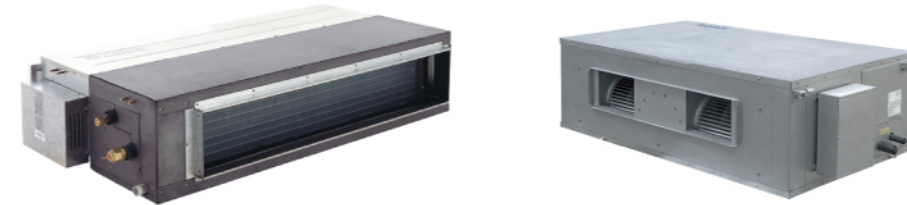
Outdoor Units Lineup—Digital Series

MODEL		GMV-Rm224W/Na-M (8HP)	GMV-Rm280W/Na-M (10HP)	GMV-Rm335W/Na-M (12HP)	GMV-Rm400W/Na-M (14HP)	GMV-Rm450W/Na-M (16HP)	GMV-Rm504W/Na-M (18HP)
	GMV-Rm224W/Na-M (8HP)	●					
	GMV-Rm280W/Na-M (10HP)		●				
	GMV-Rm335W/Na-M (12HP)			●			
	GMV-Rm400W/Na-M (14HP)				●		
	GMV-Rm450W/Na-M (16HP)					●	
	GMV-Rm504W/Na-M (18HP)						●
	GMV-Rm560W2/Na-M (20HP)		●●				
	GMV-Rm615W2/Na-M (22HP)		●	●			
	GMV-Rm670W2/Na-M (24HP)			●●			
	GMV-Rm730W2/Na-M (26HP)			●	●		
	GMV-Rm800W2/Na-M (28HP)				●●		
	GMV-Rm850W2/Na-M (30HP)				●	●	
	GMV-Rm900W2/Na-M (32HP)				●●	●	
	GMV-Rm954W3/Na-M (34HP)					●	●
	GMV-Rm1008W3/Na-M (36HP)						●●
	GMV-Rm1070W3/Na-M (38HP)			●●	●		
	GMV-Rm1135W3/Na-M (40HP)			●	●●		
	GMV-Rm1200W3/Na-M (42HP)				●●		
	GMV-Rm1250W3/Na-M (44HP)				●●	●	
	GMV-Rm1300W3/Na-M (46HP)				●	●●	
	GMV-Rm1350W3/Na-M (48HP)					●●	
	GMV-Rm1405W3/Na-M (50HP)					●●	●
GMV-Rm1458W3/Na-M (52HP)					●	●●	
	GMV-Rm1512W3/Na-M (54HP)						●●
	GMV-Rm1600W4/Na-M (56HP)				●●		
	GMV-Rm1650W4/Na-M (58HP)				●●	●	
	GMV-Rm1700W4/Na-M (60HP)				●●	●●	
	GMV-Rm1750W4/Na-M (62HP)				●	●●	
	GMV-Rm1800W4/Na-M (64HP)					●●	●
	GMV-Rm1854W4/Na-M (66HP)					●●	●
GMV-Rm1908W4/Na-M (68HP)					●●	●●	
	GMV-Rm1962W4/Na-M (70HP)					●	●●
	GMV-Rm2016W4/Na-M (72HP)						●●

Indoor Units Lineup (for Inverter Series & Digital Series & HOME GMV)

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	28.0	
Duct	High ESP type		●	●	●	●	●		●		●		●		●			
																	●	●
	Slim type		●	●	●	●	●		●									
Cassette	4-way			●	●	●	●	●	●	●	●	●	●	●	●			
	Compact 4-way		●	●	●	●												
	1-way		●	●	●													
Wall mounted	EXV separated		●	●	●	●	●											
									●	●								
	EXV integrated		●	●	●	●	●		●									
Floor ceiling	EXV separated			●	●				●		●							
													●	●				
	EXV integrated			●	●	●				●		●						
														●	●	●		
Console			●	●	●													
Floor standing									●		●				●			

High ESP Duct Type Indoor Unit



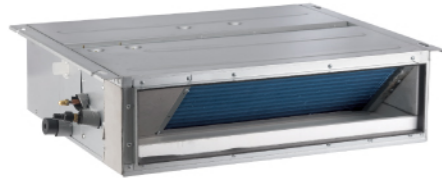
- Fresh air supply ventilation
- Quiet function
- High ESP
- Multi fan speed
- Compact design
- Easier maintainability
- Key-card control

Model	without drain water pump		GMV-R22P/NaB-K	GMV-R28P/NaB-K	GMV-R36P/NaB-K	GMV-R45P/NaB-K	GMV-R56P/NaB-K	GMV-R71P/NaB-K
	with drain water pump		GMV-R22PS/NaB-K	GMV-R28PS/NaB-K	GMV-R36PS/NaB-K	GMV-R45PS/NaB-K	GMV-R56PS/NaB-K	GMV-R71PS/NaB-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input	W		75	80	80	140	240	240
Air flow volume	m³/h		450	570	570	700	1000	1100
	CFM		265	335	335	412	589	647
Standard ESP	Pa		20/50	20/50	20/50	20/50	30/60	30/60
Sound pressure level	dB(A)		37/35/33	39/37/35	39/37/35	40/38/36	44/42/40	45/43/41
Dimension (WxDxH)	Outline	mm	880x665x250	880x665x250	880x665x250	980x721x266	1155x736x300	1155x736x300
	Package	mm	1023x748x320	1023x748x320	1023x748x320	1123x798x323	1248x788x375	1248x788x375
Net weight/ Gross weight	with DWP*	kg	28.5/33.5	30.5/35.5	30.5/35.5	36/39	51/58	51/58
	without DWP*	kg	27/31	28.5/33.5	28.5/33.5	34/37	49/56	49/56
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8
Loading quantity	40'GP	—	198	198	198	180	108	108
	40'HQ	—	198	198	198	180	108	108

Model	without drain water pump		GMV-R90P/NaB-K	GMV-R112P/NaB-K	GMV-R140P/NaB-K	GMV-R224P/NaB-M	GMV-R280P/NaB-M
	with drain water pump		GMV-R90PS/NaB-K	GMV-R112PS/NaB-K	GMV-R140PS/NaB-K	—	—
Capacity	Cooling	kW	9.0	11.2	14.0	22.4	28.0
	Heating	kW	10.0	12.5	15.0	25.0	31.0
Power supply	PhV/Hz		1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50
Motor power input	W		360	360	500	1600	1600
Air flow volume	m³/h		1700	1700	2000	4000	4800
	CFM		1000	1000	1177	2381	2857
Standard ESP	Pa		40/80	40/80	50/100	200	220
Sound pressure level	dB(A)		48/46/44	48/46/44	50/48/46	56	57
Dimension (WxDxH)	Outline	mm	1425x736x300	1425x736x300	1425x736x300	1463x799x389	1628x869x454
	Package	mm	1517x788x375	1517x788x375	1517x788x375	1540x880x470	1745x1025x580
Net weight/ Gross weight	with DWP*	kg	64/73	64/73	65.5/75		
	without DWP*	kg	62/71	62/71	63.5/73	88/102	113/152
Connecting pipe diameter	Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	84	84	84	75	52
	40'HQ	—	84	84	84	89	65

* DWP means drain water pump.

Slim Duct Type Indoor Unit



Model			GMV-R22PS/NaE-K	GMV-R28PS/NaE-K	GMV-R36PS/NaE-K	GMV-R45PS/NaE-K	GMV-R56PS/NaE-K	GMV-R71PS/NaE-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	64	64	70	91	91	100
Air flow volume		m ³ /h	450	450	550	700	700	1000
		CFM	265	265	324	412	412	589
Standard ESP		Pa	20	20	20	20	20	20
Sound pressure level		dB(A)	37/35/33	37/35/33	39/37/35	40/38/36	41/39/37	42/40/38
	Outline	mm	700x615x200	700x615x200	700x615x200	900x615x200	900x615x200	1100x615x200
Dimension (WxDxH)	Package	mm	890x740x290	890x740x290	890x740x290	1120x740x290	1120x740x290	1320x740x290
		mm	890x740x290	890x740x290	890x740x290	1120x740x290	1120x740x290	1320x740x290
Net weight/ Gross weight		kg	21/27	21/27	21/27	26/33	26/33	30/39
		kg	21/27	21/27	21/27	26/33	26/33	30/39
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8
Loading quantity	40'GP	—	234	234	234	192	192	162
	40'HQ	—	234	234	234	192	192	162

Cassette Type Indoor Unit



4-way Cassette

Model			GMV-R28T/Na-K	GMV-R36T/Na-K	GMV-R45T/Na-K	GMV-R50T/Na-K	GMV-R56T/Na-K	GMV-R63T/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	7.1
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	65	65	65	65	83	83
Air flow volume		m ³ /h	680	680	680	680	1180	1180
		CFM	400	400	400	400	694	694
Sound pressure level		dB(A)	37/35/33	37/35/33	37/35/33	37/35/33	39/37/35	39/37/35
Main body	Dimension (WxDxH)	Outline	mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240
		Package	mm	960x960x257	960x960x257	960x960x257	960x960x257	960x960x310
Panel	Dimension (WxDxH)	Outline	mm	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
		Package	mm	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115
Connecting pipe diameter	Gas	inch	Φ3/8	Φ1/2	Φ1/2	Φ1/2	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8
Loading quantity	40'GP	—	167	167	167	167	140	140
	40'HQ	—	171	171	171	171	156	156

Model			GMV-R80T/Na-K	GMV-R90T/Na-K	GMV-R100T/Na-K	GMV-R112T/Na-K	GMV-R125T/Na-K	GMV-R140T/Na-K
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	8.8	10.0	11.0	12.5	13.5	14.5
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	83	133	133	133	133	133
Air flow volume		m ³ /h	1180	1860	1860	1860	1860	1860
		CFM	694	1095	1095	1095	1095	1095
Sound pressure level		dB(A)	39/37/35	40/38/36	40/38/36	40/38/36	40/38/36	40/38/36
Main body	Dimension (WxDxH)	Outline	mm	840x840x320	840x840x320	840x840x320	840x840x320	840x840x320
		Package	mm	960x960x310	960x960x394	960x960x394	960x960x394	960x960x394
Panel	Dimension (WxDxH)	Outline	mm	950x950x60	950x950x60	950x950x60	950x950x60	950x950x60
		Package	mm	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115	1040x1025x115
Connecting pipe diameter	Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	140	104	104	104	104	104
	40'HQ	—	156	119	119	119	119	119

Compact 4-way Cassette & 1-way Cassette

Model			Compact 4-way Cassette				1-way Cassette		
			GMV-R22T/NaA-K	GMV-R28T/NaA-K	GMV-R36T/NaA-K	GMV-R45T/NaA-K	GMV-R22Td/Na-K	GMV-R28Td/Na-K	GMV-R36Td/Na-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6
	Heating	kW	2.5	3.2	4.0	5.0	2.5	3.2	4.0
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Motor power input		W	12	12	12	12	42	42	
Air flow volume		m ³ /h	600	600	600	600	450	500	
		CFM	353	353	354	355	265	294	
Sound pressure level		dB(A)	47/41	47/41	47/41	47/41	45/43/41	45/43/41	
Main body	Dimension (WxDxH)	Outline	mm	570x570x230	570x570x230	570x570x230	570x570x230	920x360x185	
		Package	mm	848x728x310	848x728x310	848x728x310	848x728x310	1290x465x270	
Panel	Dimension (WxDxH)	Outline	mm	650x650x50	650x650x50	650x650x50	650x650x50	1180x430x30	
		Package	mm	730x670x102	730x670x102	730x670x102	730x670x102	1260x505x110	
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ3/8	Φ3/8	
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ1/4	
Loading quantity	40'GP	—	237	237	237	237	216	216	
	40'HQ	—	269	269	269	269	251	251	

Wall Mounted Type Indoor Unit



Floor Ceiling Type Indoor Unit



EXV Separated

Model			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
	Heating	kW	2.5	3.2	4.0	5.0
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	32	48	48	48
		m³/h	360	360	500	500
Air flow volume		CFM	212	212	294	294
	Sound pressure level (H/M/L)	dB(A)	37/33/28	37/33/28	43/38/32	43/38/32
Dimension (WxDxH)	Outline	mm	770x190x250	770x190x250	830x189x285	830x189x285
	Package	mm	955x330x272	955x330x272	1006x385x265	1006x385x265
Net weight/Gross weight		kg	8.0/14.3	8.0/14.3	11.0/15.8	11.0/15.8
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4
Loading quantity	40'GP	—	735	735	606	606
	40'HQ	—	840	840	676	676

Model			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
	Heating	kW	5.8	6.3	8.0	9.0
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	56	58	63	85
		m³/h	700	750	1200	1200
Air flow volume		CFM	412	442	706	706
	Sound pressure level (H/M/L)	dB(A)	45/42/40	45/42/40	49/45/42	49/45/42
Dimension (WxDxH)	Outline	mm	1020x228x310	1020x228x310	1178x227x326	1178x227x326
	Package	mm	1178x325x390	1178x325x390	1365x417x333	1365x417x333
Net weight/Gross weight		kg	15.5/20.5	15.5/20.5	17.5/23	17.5/23
Connecting pipe diameter	Gas	inch	Φ1/2	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	420	420	303	303
	40'HQ	—	470	470	343	343

EXV Integrated

Model			GMV-R22G/NaG-K	GMV-R28G/NaG-K	GMV-R36G/NaG-K	GMV-R45G/NaG-K	GMV-R50G/NaG-K	GMV-R56G/NaG-K	GMV-R71G/NaG-K
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6	7.1
	Heating	kW	2.5	3.2	4.0	5.0	5.8	6.3	8.0
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	50	50	60	60	70	70	70
		m³/h	500	500	630	630	630	800	800
Air flow volume		CFM	294	294	371	371	371	471	471
	Sound pressure level (H/M/L)	dB(A)	38/36/34	38/36/35	44/41/38	44/41/38	44/41/38	44/40/38	44/40/38
Dimension (WxDxH)	Outline	mm	843x180x275	843x180x275	940x200x298	940x200x298	940x200x298	1008x221x319	1008x221x319
	Package	mm	915x255x355	915x255x355	1010x285x380	1010x285x380	1010x285x380	1073x313x395	1073x313x395
Net weight/Gross weight		kg	10.5/12.5	10.5/12.5	13/16	13/16	13/16	15/20	15/20
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ1/2	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8
Loading quantity	40'GP	—	702	702	557	557	557	441	441
	40'HQ	—	819	819	624	624	624	503	503

EXV Separated

Model			GMV-R28Zd/Na-K	GMV-R36Zd/Na-K	GMV-R50Zd/Na-K	GMV-R71Zd/Na-K	GMV-R90Zd/Na-K	GMV-R112Zd/Na-K	GMV-R125Zd/Na-K
Capacity	Cooling	kW	2.8	3.6	5.0	7.1	9.0	11.2	12.5
	Heating	kW	3.2	4.0	5.8	8.0	10.0	12.5	13.5
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	10	10	40	50	85	180	180
		m³/h	550	600	700	1170	2100	2200	2300
Air flow volume		CFM	324	353	412	689	1236	1295	1354
	Sound pressure level	dB(A)	43	44	50	48	51	54	55
Dimension (WxDxH)	Outline	mm	840x238x695	840x238x695	840x238x695	1300x188x600	1590x238x695	1590x238x695	1590x238x695
	Package	mm	1035x295x805	1035x295x805	1035x295x805	1514x248x724	1814x330x930	1814x330x930	1814x330x930
Net weight/Gross weight		kg	28/37	28/37	28/37	34/38	44/53	54/63	56/65
Connecting pipe diameter	Gas	inch	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	196	196	196	207	98	98	98
	40'HQ	—	224	224	224	230	98	98	98

EXV Integrated

Model			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
	Heating	kW	3.2	4.0	5.8	8.0
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	55	55	110	140
		m³/h	650	650	950	1400
Air flow volume		CFM	383	383	559	824
	Sound pressure level	dB(A)	40	40	45	49
Dimension (WxDxH)	Outline	mm	1220x700x225	1220x700x225	1220x700x225	1420x700x245
	Package	mm	1340x820x300	1340x820x300	1340x820x300	1545x825x330
Net weight/Gross weight		kg	40/50	40/50	40/50	52/61
Connecting pipe diameter	Gas	inch	Φ3/8	Φ1/2	Φ1/2	Φ5/8
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4	Φ3/8
Loading quantity	40'GP	—	112	112	112	136
	40'HQ	—	137	137	137	166

Model			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
	Heating	kW	10.0	12.5	13.5	16
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	180	250	250	250
		m³/h	1600	2000	2000	2000
Air flow volume		CFM	942	1177	1177	1177
	Sound pressure level	dB(A)	51	55	55	55
Dimension (WxDxH)	Outline	mm	1420x700x245	1700x700x245	1700x700x245	1700x700x245
	Package	mm	1545x825x330	1825x825x330	1825x825x330	1825x825x330
Net weight/Gross weight		kg	54/63	64/72	66/74	66/74
Connecting pipe diameter	Gas	inch	Φ5/8	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ3/8	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	136	225	225	225
	40'HQ	—	166	256	256	256

Console Indoor Unit



- Vertical swing
- Anti-cold function
- Self-diagnosis
- Quiet function
- Comprehensive protection
- Auto Restart
- Compact design
- Easier maintainability

Model			GMV-R28C/Na-K	GMV-R36C/Na-K	GMV-R50C/Na-K
Capacity	Cooling	kW	2.8	3.6	5.0
	Heating	kW	3.2	4.0	5.5
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	60	60	60
Air flow volume		m³/h	500-430/370/280	600-520/440/360	650-620/500/410
		CFM	294-253/218/165	353-306/259/212	383-365/294/241
Sound pressure level		dB(A)	38/33/26	40/37/32	46/41/35
Dimension (WxDxH)	Outline	mm	700x215x600	700x215x600	700x215x600
	Package	mm	788x283x697	788x283x697	788x283x697
Net weight/Gross weight		kg	16/19	16/19	16/19
Connecting pipe diameter	Gas	inch	Φ3/8	Φ3/8	Φ1/2
	Liquid	inch	Φ1/4	Φ1/4	Φ1/4
Loading quantity	40'GP	—	387	387	387
	40'HQ	—	433	433	433

Floor Standing Type Indoor Unit



- Quiet function
- Horizontal swing
- Vertical swing
- Easier maintainability
- Self-diagnosis

Model			GMV-R71L/Na-K	GMV-R100L/Na-K	GMV-R140L/Na-K
Capacity	Cooling	kW	7	10	14
	Heating	kW	8	11	15
Power supply		Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Motor power input		W	160	185	200
Air flow volume		m³/h	1100	1600	1700
		CFM	655	952	1000
Sound pressure level		dB(A)	48/42	51/47	52/48
Dimension (WxDxH)	Outline	mm	502x316x1756	556x381x1896	556x381x1896
	Package	mm	633x450x1943	738x545x2083	738x545x2083
Net weight/Gross weight		kg	39/60	53/73	57/77
Connecting pipe diameter	Gas	inch	Φ5/8	Φ5/8	Φ5/8
	Liquid	inch	Φ3/8	Φ3/8	Φ3/8
Loading quantity	40'GP	—	95	67	67
	40'HQ	—	95	67	67

Branching Joint

For Indoor Units			
Model	Indoor unit total capacity X (kW)	Appearance	
		Gas pipe	Liquid pipe
FQ01A/A	$x \leq 20$		
FQ01B/A	$20 < X \leq 30$		
FQ02/A	$30 < X \leq 70$		
FQ03/A	$70 < X \leq 135$		
FQ04/A	$135 < X$		
FQ05/A	—		














For Outdoor Units			
Model	Outdoor unit total capacity X (kW)	Appearance	
		Gas pipe	Liquid pipe
ML01/A	$20 \leq X \leq 56$		
ML02/A	—		

Indoor Unit

Model	Heat pump		GMV-R140P/Na(X1.2)-K	GMV-R224P/Na(X2.0)-M	GMV-R280P/Na(X2.5)-M	GMV-R280P/Na(X3.0)-M
Capacity	Cooling	kW	14.0	22.4	28.0	28.0
	Heating	kW	10.0	16.0	20.0	20.0
Power supply		PhV/Hz	1/220-240/50	3/380/50	3/380/50	3/380/50
Motor power input		W	500	1100	1100	1100
Air flow volume	Cooling	m ³ /h	1200	2000	2500	3000
	Heating	CFM	706	1177	1471	1766
ESP		Pa	150	50-200	50-200	50-200
Sound pressure level		dB(A)	42	47	48	51
Dimension (WxDxH)	Outline	mm	1463/756/300	1500/1000/500	1500/1000/500	1500/1000/500
	Package	mm	1514/785/360	1840/1200/673	1840/1200/673	1840/1200/673
Net weight/Gross weight		kg	63.5/73.0	130/140	150/160	150/160
Connecting pipe diameter	Gas	inch	φ5/8	φ7/8	φ7/8	φ7/8
	Liquid	inch	φ3/8	φ3/8	φ3/8	φ3/8
Loading quantity	40'GP	—	84	26	26	26
	40'HQ	—	84	26	26	26

Model	Heat pump		GMV-R450P/Na(X4.0)-M	GMV-R560P/Na(X5.0)-M	GMV-R560P/Na(X6.0)-M
Capacity	Cooling	kW	45.0	56.0	56.0
	Heating	kW	32.0	39.0	39.0
Power supply		PhV/Hz	3/380/50	3/380/50	3/380/50
Motor power input		W	1500	2200	2200
Air flow volume	Cooling	m ³ /h	4000	5000	5000
	Heating	CFM	2354	2942	2942
ESP		Pa	50-200	50-200	50-200
Sound pressure level		dB(A)	52	54	54
Dimension (WxDxH)	Outline	mm	1700/1100/650	1700/1100/650	1700/1100/650
	Package	mm	1890/1460/835	1890/1460/835	1890/1460/835
Net weight/Gross weight		kg	190/220	215/265	215/265
Connecting pipe diameter	Gas	inch	φ9/8	φ9/8	φ9/8
	Liquid	inch	φ1/2	φ1/2	φ1/2
Loading quantity	40'GP	—	14	14	14
	40'HQ	—	21	21	21

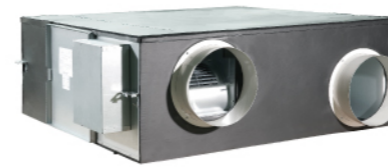
Control System Lineup

Wireless remote controller	Wired remote controller		Long-distance monitoring software	BMS accessories		
			Gree AC Eudemon 2009*	Communication module (modbus)	Communication module (modbus)	GMV BACnet gateway (BACnet)
Y512	Z6E351	J502 (Receiver)	FE30-00/A (M)	ME30-00/E2	ME30-24/E2 (M)	MG30-24/D1 (B)
						
●	●	●	●	●	●	●
Centralized controller			Other modules			
Group controller (mini centralized controller)	Centralized controller (modbus)*	Smart zone controller	Key-card control board	Optoelectronic isolated converter	Optoelectronic isolated signal multiplier	
ZJA011	CE51-24/E (M)	CE50-24/E	MK03	RS232-RS422V485	RS-422V485	
						
●	●	●	●	●	●	

Note:
 ● means standard, ● means optional.
 * If centralized controller CE51-24/E(M) or long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-00/E2 shall be selected also. The quantity of the module should be confirmed according the quantity of the outdoor unit.

Energy Recovery Ventilation (ERV)

It is a kind of ventilation system that could recover the total heat of indoor air to save energy and it is widely used in residential or commercial building.



Inner groove copper



Intelligent defrosting



Quiet function



Compact design



Easier maintainability



Weekly timer



Centralized control












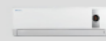













Long-distance monitoring

- 7 models in a range of 350~3000m³/h fit for different spaces and reduce the waste of power.
- Filter and heat exchange core can be easily take out from the access for cleaning.
- Internal air filter keeps the fresh air introduced into room pure and dustless.
- With antibacterial and anti-mildew materials, the heat exchange core is suiting for healthy.
- Unique by-pass mode can reduce power consumption of fan motor to prolong lifetime of heat exchanger core.

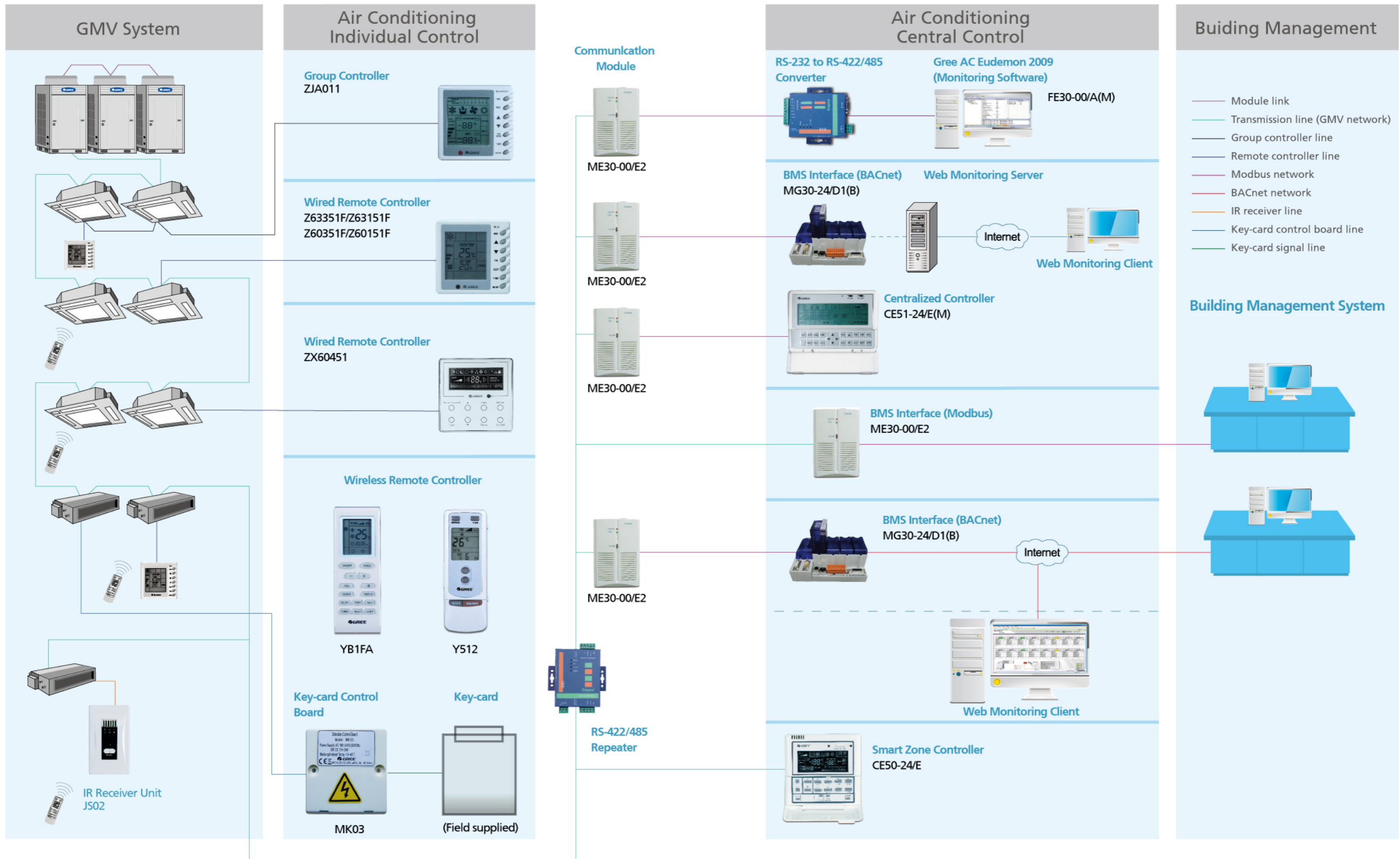


Model			FHBQ-D3.5-K	FHBQ-D5-K	FHBQ-D8-K	FHBQ-D10-K	FHBQ-D15-M	FHBQ-D20-M	FHBQ-D30-M
Air flow Volume	H/M/L	m ³ /h	360/260/210	500/380/300	800/600/480	1000/750/600	1500	2000	3000
ESP	H/M/L	Pa	100/80/60	100/80/60	110/85/65	110/85/65	150	150	220
Temperature exchange efficiency	H/M/L	%	71/73/75	68/70/72	70/72/74	75/77/79	73	71	70
	Heating	%	65/67/68	62/64/65	63/65/67	66/68/70	65	62	62
Enthalpy exchange efficiency (H/M/L)	Heating	%	61/63/65	57/59/61	60/62/64	62/64/65	60	58	58
	Cooling	%	61/63/65	57/59/61	60/62/64	62/64/65	60	58	58
Power supply		PhV/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50	3/380-415/50
Power input		W	165	262	400	440	600	950	2800
Power input		dB(A)	37	39	45	46	48	50	54
Dimension (WxDxH)	Outline	mm	800x879x306	800x879x306	832x1016x380	832x1016x380	1210x1215x452	1210x1215x452	1340x1550x572
	Package	mm	1050x1165x315	1050x1165x315	1087x1320x400	1087x1320x400	1550x1540x470	1550x1540x470	1710x1610x700
Net weight		kg	45	45	57	57	100	100	240
Gross weight		kg	53	53	66.5	66.5	115	115	280
Loading quantity	40'GP	—	147	147	85	59	37	37	24
	40'HQ	—	168	168	104	67	44	44	24
Standard wired remote controller			Z5N15	Z5N15	Z5N15	Z5N15	Z5N15	Z5N15	—

Control System Lineup

Control system		Product series		Duct type	Cassette type	Wall-mounted type	Floor ceiling type		Console type	Floor standing type	Heat recovery series				ERV
															
Wireless remote controller	Y512		●	●	●	●			●	●	●	●	●	●	
	YB1FA				●				●					●	
	Z60351F (Heat/Cool)		●								●				
Wired remote controller	Z60151F (Cool)		●								●				
	Z63351F (Heat/Cool)			●	●	●	●		●	●		●	●	●	
	Z63151F (Cool)			●	●	●	●			●		●	●	●	
	ZX60451		●	●	●	●	●		●	●	●	●	●	●	
	JS02 (Receiver)		●								●				
	Z5N151														●
Long-distance monitoring software	Gree AC Eudemon 2009*1	FE30-00/A(M)		●	●	●	●		●	●	●	●	●	●	●
BMS accessories	Communication module (modbus)	ME30-00/E2		●	●	●	●		●	●	●	●	●	●	
	Communication module (modbus)	ME30-24/E2(M)		●	●	●	●		●	●	●	●	●	●	
	GMV BACnet gateway (BACnet)	MG30-24/D1(B)*2		●	●	●	●		●	●	●	●	●	●	
	Interface of the main board	BMS													●
Centralized controller	Group controller (mini centralized controller)	ZJA011		●	●	●	●		●	●	●	●	●	●	
	Centralized controller(modbus)	CE51-24/E(M)*1		●	●	●	●		●	●	●	●	●	●	
	Smart zone controller	CE50-24/E		●	●	●	●		●	●	●	●	●	●	
Other modules	Key-card control board	MK03		●	●	●	●		●	●	●	●	●	●	
	Optoelectronic isolated converter	RS232-RS422V485		●	●	●	●		●	●	●	●	●	●	●
	Optoelectronic isolated signal multiplier	RS-422V485		●	●	●	●		●	●	●	●	●	●	●

Note:
 ● means standard, ● means optional.
 *1 If centralized controller CE51-24/E(M) or long-distance monitoring software Gree Eudemon 2009 is selected ,the communication module shall be selected also. The quantity of the module shall be confirmed according the quantity of outdoor units.
 *2 If MG30-24/D1(B) is selected,the communication module shall be selected also.The Maximum quantity is 4. 4-outdoor-unit combinations can match 64 indoor units at most.



Note: Control network sketch is for reference only, please refer to the equipment manuals for actual cable connection method.