



**FMV Series
VRF Air-Conditioners
50Hz/60Hz R410a**



CONTENT

OUTDOOR UNITS

VRF **M** ini Series 07-10

Heat pump, cannot be combined 3~6.5HP
DC inverter compressor All DC fan motors

VRF **S** Series 11-12

Heat pump Max. 4 modules can be combined
8~72HP All DC inverter compressors All DC fan motors

VRF **K** Series 13-14

Heat pump/Cooling only Max. 4 modules can be combined
8~72HP DC inverter compressor + fixed compressors
Heat pump series: All DC fan motors
Cooling only series: DC fan motor + AC fan motor

VRF **I** Series 15-16

Heat pump, cannot be combined 7~32HP
DC inverter compressor + fixed compressors
DC fan motor + AC fan motor

VRF **R** Series 17-18

Heat recovery Simultaneous cooling and heating
operation in one system Max. 4 modules can be combined
8~64HP All DC inverter compressors All DC fan motors

INDOOR UNITS

Two-way Cassette 19
Cooling Capacity: 2.2kW-7.1kW

Four-way Cassette 21
Compact Four Way Cassette 1.5kW-4.5kW; Four Way Cassette & Silent Type: 2.8kW-14kW

Low Static Pressure Duct 24
Cooling Capacity: 1.8kW-7.1kW

Medium Static Pressure Duct 25
Cooling Capacity: 1.5kW-14kW

High Static Pressure Duct 26
Cooling Capacity: 7.1kW-56kW

Fresh Air Processing Unit 28
Cooling Capacity: 12.5kW-28kW

Wall-mounted 29
Cooling Capacity(K): 2.2kW-9kW & Cooling Capacity(S) 1.5kW-5.6kW

Ceiling & Floor 31
Cooling Capacity: 3.6kW-16kW

Features



Advanced Technologies

High Efficiency DC Inverter Compressor

Fujair VRF Air Conditioner achieves the industry's top class energy efficiency in cooling and heating by utilizing DC inverter compressor, DC fan motor, and high efficiency heat exchanger. The DC inverter compressor adopts innovative design and numerous high performance key parts which can reduce power consumption by 25%.



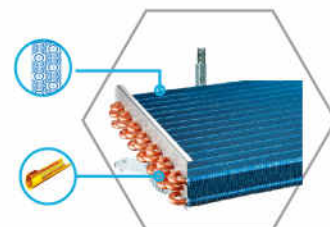
High Efficiency DC Fan Motor

The system controls the speed of the fan motor according to the system pressure and system load achieving the minimum power consumption.



High Efficiency Heat Exchanger

Newly designed window type fins enlarge the heat exchange area and decrease air resistance, enhance heat exchange performance and save more energy. Hydrophilic fins and internally threaded copper pipes optimize heat exchange efficiency.



Double EXVs Control

Double EXVs in one system, each EXV part achieves 480 Pulse rate to precisely adjust refrigerant flow.



Newly Designed Fan

A new blade with sharp edges and a slight curve increases the airflow rate and lowers vibration and airflow resistance.

Multi Solenoid Valves Control

Multi solenoid valves control technology in one system. All the solenoid valves equipped in the unit ensure precise temperature control, stable and efficient running conditions and improved comfort.

Wide Application Range

Wide Capacity Range

Fujair VRF has extensive capacity ranging from 3HP to 72HP, meets all customer requirement concerning small to large buildings.

Wide Range of Indoor Units

Fujair provides various types and more than 100 models of VRF indoor units maximum meeting varied customer requirements. It widely applied in market, hospital, office building, hotel, airport, etc..



Wide Operation Range

The VRF system operates stably under extreme conditions, ranging from minus 20°C to 48°C.

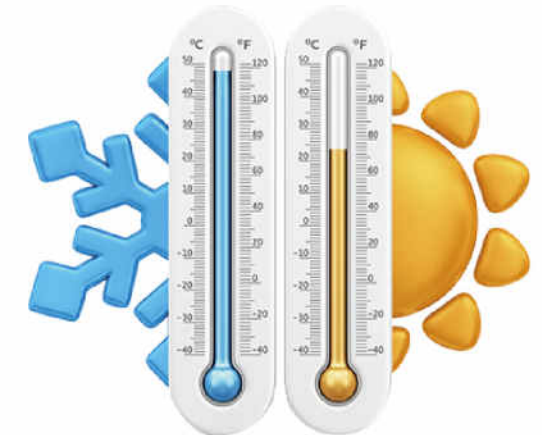
COOLING MODE

Ranging from minus 5°C to 48°C.

HEATING MODE*

Ranging from minus 20°C to 24°C.

*HEATING MODE is only available for heat pump series.



High Reliability

Cycle Duty Operation

The cyclical start-up sequence of outdoor units and DC inverter compressors equalized compressor duty and extends operating life.

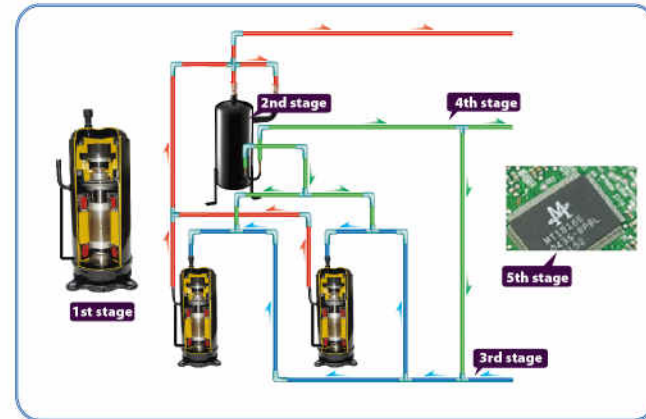
Backup Operation

In a multiple system, if one module is failed, other modules can be backup instead of the failed one for continuing operation.

Precise Oil Control Technology

5 stages oil control technology ensures all outdoor unit and compressor oil is always kept at a safe level, completely solving any compressor oil shortage problems.

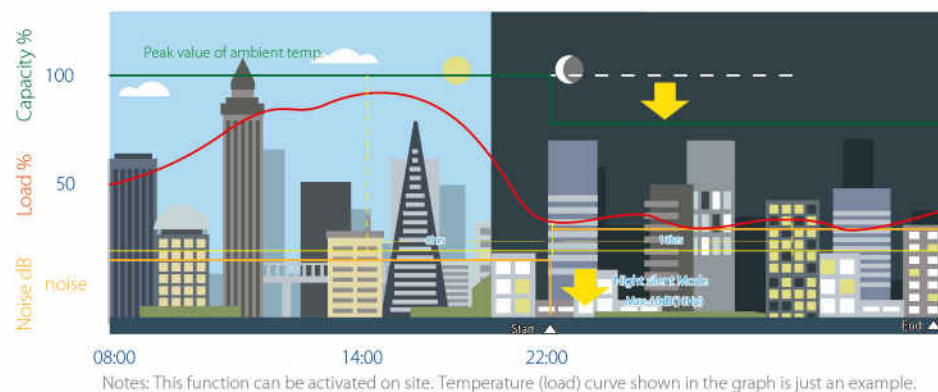
- 1st stage:** Compressor internal oil separation.
- 2nd stage:** High efficiency centrifugal oil separator (separation efficiency up to 99%) ensures oil separated from the discharge gas is returned to the compressors.
- 3rd stage:** Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- 4th stage:** Oil balance pipes among modules ensure even oil distribution among modules.
- 5th stage:** Auto oil return program by monitoring the running time and system status ensures reliable oil return.



Enhanced Comfort

Night Silent Operation Mode

Night Silent Mode feature which is easily set on the PCB board allows the unit to be set to various time options during Non-peak and Peak operation time minimizing the units noise output.



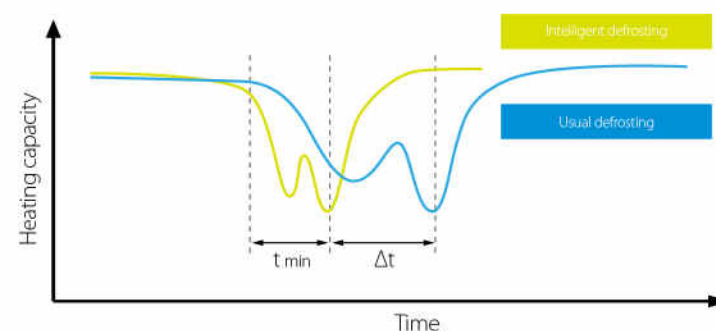
Night Silent operation will be activated X hours after the peak daytime temperature, and it will go back to normal operation after Y hours.

- Mode 1→X: 6 hours, Y: 10 hours
- Mode 2→X: 8 hours, Y: 10 hours
- Mode 3→X: 6 hours, Y: 12 hours
- Mode 4→X: 8 hours, Y: 8 hours

Intelligent Defrosting Technology

Intelligent defrosting program will judge the defrosting time according to the system real requirement, reduce heating loss caused by unnecessary defrosting and create more comfort. Defrosting time can be shortened to 4 min. due to the specialized defrosting valve.

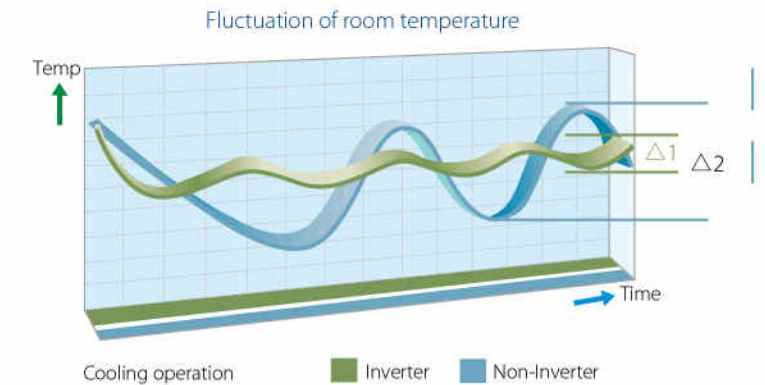
*This function is only available for heat pump series.



Rapid Warm Up and Cool Down Function

The DC Inverter Compressor system reaches full load rapidly providing less temperature fluctuation and an improved living environment.

No matter when it is as high as 48 °C hot summer or -20 °C in the cold winter, the unit could operate perfectly, making you feel like spring all year around.



Easy Installation and Service

Auto Addressing

Outdoor unit can distribute addresses for indoor units automatically. Wireless and wired controllers can query and modify each indoor unit's address.

Simple Communication Wiring

Centralized controller can be connected from indoor side or outdoor side (XYE terminals) at will.

With one set of wires, we can achieve the network communication and system communication, making installation at site more convenient.



Easy Maintenance

Inspection window for checking the systems status. Self-diagnosis function helps service engineers locate faults quickly and easily. Compressor is located near the door, which simplifies checks and enables valve or compressor parts to be replaced easily.



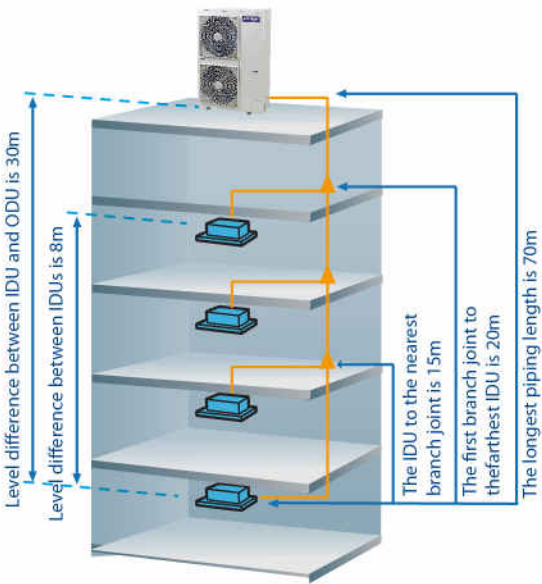
Fujair Unified Branch Piping

The unified Fujair branch piping system is especially designed for simple installation and it also has specifically been designed to optimize refrigerant flow.

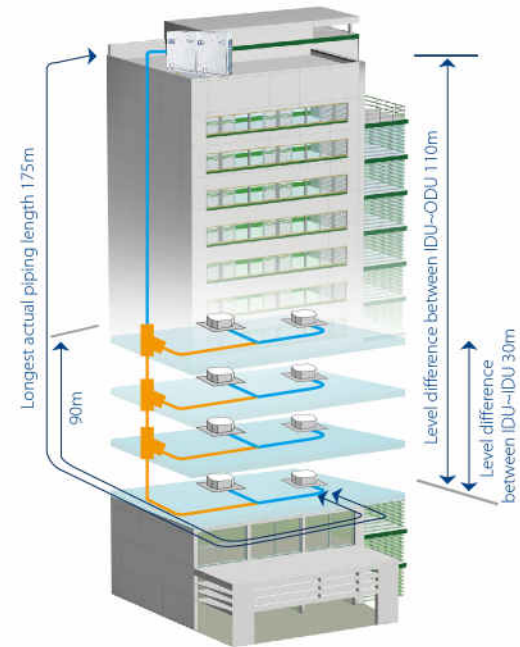


*Indoor branch box is only available for Mini VRF Series.

Long Piping Length



	8-10.5kW	12-18kW
Total piping length	100m	100m
Longest length actual (Equivalent)	45(50)m	60(70)m
Longest length after first branch	20m	20m
Level difference between indoor and outdoor units - ODU up (down)	30(20)m	30(20)m
Level difference between indoor units	8m	8m

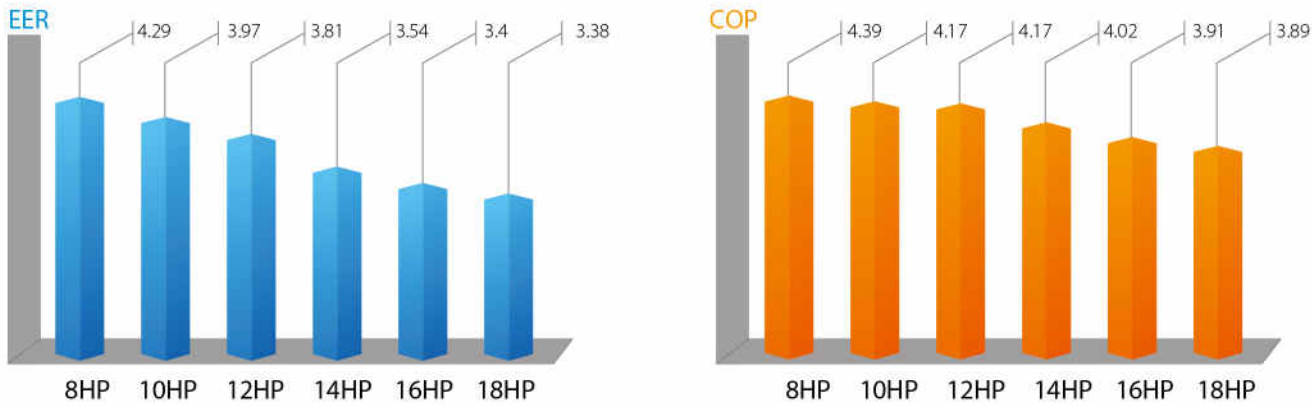


Total piping length	1000m
Longest length actual (Equivalent)	175(200)m
Longest length after first branch	90*m
Longest length from MS to its downstream indoor unit	40m
Level difference between indoor and outdoor units - ODU up (down)	70(110)m
Level difference between indoor units	30m

*The longest piping length is 40m standard. It can be extended to 90m. When the length is over 40m, please contact your local Fujair dealer for more information and restrictions.

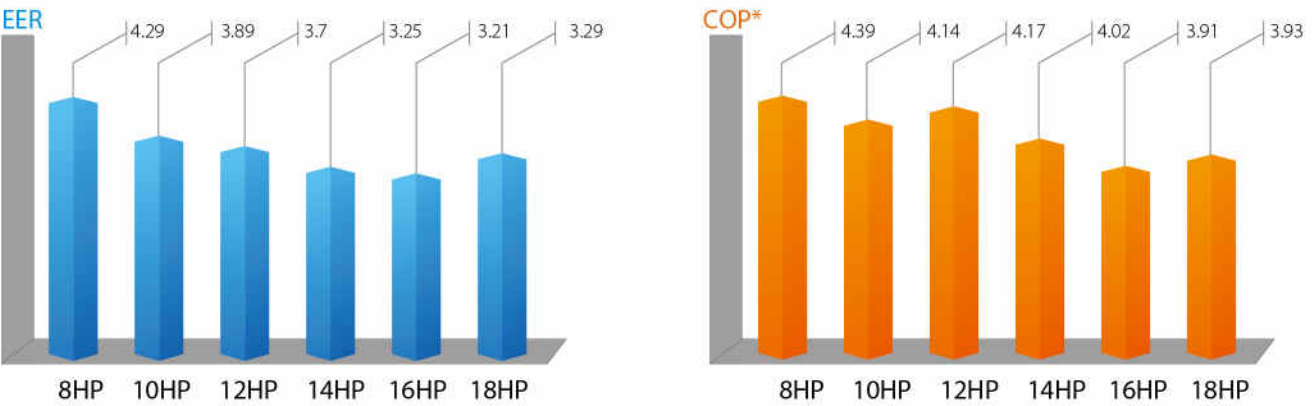
High EER and COP Values

S Series equipped with all DC compressors, all DC fan motors and high efficient heat exchanger. The cooling EER is up to 4.29 and the heating COP is up to 4.39 in the 8HP category.



*50Hz/60Hz heat pump

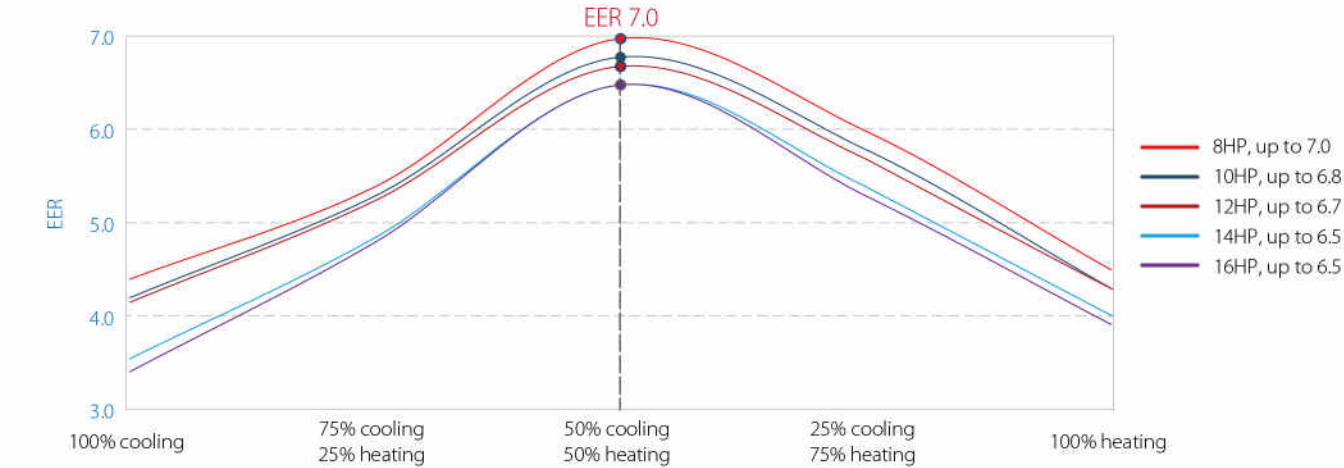
K Series: the cooling EER is up to 4.29 and the heating COP is up to 4.39 in the 8HP category.



*50Hz cooling only or heat pump

Heat Recovery, EER up to 7.0

Heat recovery R series is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating, maximizing energy efficiency, reducing electricity costs and leading to high partload efficiencies (up to 7.0 in the 8HP category).



EER in simultaneous cooling and heating mode are based on the following condition:
Outdoor temperature 7°CDB/6°CWB, indoor temperature 27°CDB/19°CWB for cooling, indoor temperature 20°CDB for heating.

Technical Specification

Mini Series - Heat Pump

220-240/1/50
Power Supply



HP			3	4	4.5	5	6
Model FMV-			80WHM	105WHM	120WHM	140WHM	160WHM
Power supply		V/Ph/Hz	220-240/1/50				
Cooling	Capacity	kW	8.0	10.5	12.3	14	15.5
	Power input	kW	2.05	2.68	3.25	3.95	4.52
	EER		3.90	3.92	3.78	3.54	3.43
Heating	Capacity	kW	9.0	11.5	13.2	15.4	17
	Power input	kW	2.24	2.90	3.47	4.16	4.78
	COP		4.02	3.97	3.8	3.7	3.56
Connectable	Total capacity		45~130% of outdoor unit capacity				
indoor unit	Max. quantity		4	5	6	6	7
Compressor	Type		Rotary				
	Quantity		1	1	1	1	1
Fan motor	Type		DC Motor				
	Quantity		1	1	2	2	2
Refrigerant	Type		R410A				
	Factory charging	kg	2.8	2.95	3.3	3.9	3.9
Pipe	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
connections	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.1
Air flow rate		m³/h	5500	5500	6000	6000	6000
Sound pressure level		dB(A)	56	57	57	57	57
Net dimension (WxHxD)		mm	1075x966x396			900x1327x400	
Packing size (WxHxD)		mm	1120x1100x435			1030x1456x435	
Net weight		kg	62	74	95		100
Gross weight		kg	67	81	106		111
Operating temperature range		℃	Cooling: -15~43; Heating: -15~27				

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m above the floor.

Mini Series - Heat Pump

380-415/3/50
Power Supply



HP			4.5	5	6	6.5
Model FMV-			120WHM2	140WHM2	160WHM2	180WHM2
Power supply		V/Ph/Hz	380-415/3/50			
Cooling	Capacity	kW	12.3	14	15.5	17.5
	Power input	kW	3.25	3.95	4.52	5.3
	EER		3.78	3.54	3.43	3.3
Heating	Capacity	kW	13.2	15.4	17	19
	Power input	kW	3.47	4.16	4.78	5
	COP		3.8	3.7	3.56	3.8
Connectable	Total capacity		45~130% of outdoor unit capacity			
Indoor unit	Max. quantity		6	6	7	9
Compressor	Type		Rotary			
	Quantity		1	1	1	1
Fan motor	Type		DC motor			
	Quantity		2	2	2	2
Refrigerant	Type		R410A			
	Factory charging	kg	3.3	3.9	3.9	4.5
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
Air flow rate		m³/h	6000	6000	6000	6800
Sound pressure level		dB(A)	57	57	57	59
Net dimension (WxHxD)		mm	900x1327x400			
Packing size (WxHxD)		mm	1030x1456x435			
Net weight		kg	95		102	107
Gross weight		kg	106		113	118
Operating temperature range		°C	Cooling: -15~43; Heating: -15~27			

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m above the floor.

Mini Series - Heat Pump

208-230/1/60
Power Supply



HP			4	4.5	5	6
Model FMV-			105WHM3	120WHM3	140WHM3	160WHM3
Power supply		V/Ph/Hz	208-230/1/60			
Cooling	Capacity	kW	10.5	12.0	14.0	15.5
		kBtu/h	35.8	40.9	47.8	52.9
	Power input	kW	2.68	3.25	3.95	4.52
	EER		3.92	3.69	3.54	3.43
Heating	Capacity	kW	11.5	13.2	15.4	17.0
		kBtu/h	39.2	45.0	52.5	58.0
	Power input	kW	2.90	3.47	4.16	4.77
	COP		3.97	3.80	3.70	3.56
Connectable	Total capacity		45~130% of outdoor unit capacity			
Indoor unit	Max. quantity		5	6	6	7
Compressor	Type		Rotary			
	Quantity		1	1	1	1
Fan motor	Type		DC motor			
	Quantity		1	2	2	2
Refrigerant	Type		R410A			
	Factory charging	kg(lbs.)	3(6.6)	3.3(7.3)	3.9(8.6)	3.9(8.6)
Pipe	Liquid pipe	mm(in.)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)
connections	Gas pipe	mm(in.)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	Φ19.1(Φ3/4)
Air flow rate		m³/h	5100	6000	6000	6000
Sound pressure level		dB(A)	57	57	57	57
Net dimension (WxHxD)	mm		1075x966x396	900x1327x400	900x1327x400	900x1327x400
	inch		42-21/64 x38-1/32 x15-19/32	35-7/14x52-1/4x15-3/4	35-7/14x52-1/4x15-3/4	35-7/14x52-1/4x15-3/4
Packing size (WxHxD)	mm		1120x1100x435	1030x1456x435	1030x1456x435	1030x1456x435
	inch		44-3/32 x43-5/16 x17-1/8	40-9/16x57-5/16x17-1/8	40-9/16x57-5/16x17-1/8	40-9/16x57-5/16x17-1/8
Net weight		kg(lbs.)	78(171.9)	95(209.4)	95(209.4)	102(224.9)
Gross weight		kg(lbs.)	85(187.3)	106(233.7)	106(233.7)	113(249.1)
Operating temperature range		°C(°F)	Cooling -15~43°C (5~109.4°F) Heating -15~27°C(5~80.6°F)			

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.
Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.
Piping length: Interconnecting piping length is 7.5m(24.6ft.), level difference is zero.
Sound values are measured in a semi-anechoic room, at a position of 1m(3.28ft.) in front of the unit and 1m(3.28ft.) above the floor.

Mini Series - Heat Pump

308-415/3/60
Power Supply



HP			4.5	5	6
Model FMV-			120WHM4	140WHM4	160WHM4
Power supply		V/Ph/Hz	380-415/3/60		
Cooling	Capacity	kW	12.0	14.0	15.5
		kBtu/h	40.9	47.8	52.9
	Power input	kW	3.25	3.95	4.52
	EER		3.69	3.54	3.43
Heating	Capacity	kW	13.2	15.4	17.0
		kBtu/h	45.0	52.5	58.0
	Power input	kW	3.47	4.16	4.77
	COP		3.8	3.7	3.56
Connectable	Total capacity		45~130% of outdoor unit capacity		
Indoor unit	Max. quantity		6	6	7
Compressor	Type		Rotary		
	Quantity		1	1	1
Fan motor	Type		DC motor		
	Quantity		2	2	2
Refrigerant	Type		R410A		
	Factory charging	kg(lbs.)	3.3(7.3)	3.9(8.6)	3.9(8.6)
Pipe	Liquid pipe	mm(in.)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)
connections	Gas pipe	mm(in.)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	Φ19.1(Φ3/4)
Air flow rate		m³/h	6983	6500	6000
Sound pressure level		dB(A)	57	57	57
Net dimension (WxHxD)	mm		900x1327x400		
	inch		35-7/14x52-1/4x15-3/4		
Packing size (WxHxD)	mm		1030x1456x435		
	inch		40-9/16x57-5/16x17-1/8		
Net weight		kg(lbs.)	92(203)	95(209.4)	102(224.9)
Gross weight		kg(lbs.)	106(234)	106(233.7)	113(249.1)
Operating temperature range		°C(°F)	Cooling -15~43°C (5~109.4°F) Heating -15~27°C(5~80.6°F)		

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.
Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.
Piping length: Interconnecting piping length is 7.5m(24.6ft.), level difference is zero.
Sound values are measured in a semi-anechoic room, at a position of 1m(3.28ft.) in front of the unit and 1m(3.28ft.) above the floor.

VRF S Series - Heat Pump

380-415/3/50

Power Supply

380-415/3/60

Power Supply

220/3/60

Power Supply



HP			8	10	12	14	16	18
Model FMV-			252(8)WHS	280(10)WHS	335(12)WHS	400(14)WHS	450(16)WHS	500(18)WHS
Power supply			380-415/3/50&380-415/3/60&220/3/60					
Cooling	Capacity	kW	25.2	28.0	33.5	40.0	45.0	50.0
	Power input	kW	5.88	7.05	8.79	11.30	13.25	14.79
	EER		4.29	3.97	3.81	3.54	3.40	3.38
Heating	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0
	Power input	kW	6.15	7.55	8.99	11.19	12.79	14.40
	COP		4.39	4.17	4.17	4.02	3.91	3.89
Connectable indoor unit			50~130% of outdoor unit capacity					
Compressor	Max. quantity		13	16	20	23	26	29
	Type		DC inverter					
	Quantity		1	1	2	2	2	2
Fan motor	Type		DC motor					
	Quantity		1	1	2	2	2	2
	Static pressure	Pa	0-20 (default)					
Refrigerant	Type		R410A					
	Factory charging	kg	20-40 (customized)		20-60 (customized)		20-40 (customized)	
			10	10	12	15	15	16
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ19.1
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6	Φ6	Φ6	Φ6	Φ6	Φ6
Air flow rate		m³/h	11242	11242	13000	15620	15620	15620
Sound pressure level		dB(A)	57	57	59	61	62	62
Net dimension (WxHxD)		mm	960x1615x765		1250x1615x765			
Packing size (WxHxD)		mm	1025x1790x830		1305x1790x820			
Net weight		kg	212	212	288	288	288	310
Gross weight		kg	227	227	308	308	308	330
Operating temperature range		°C	Cooling:-5-48; Heating:-20-24					

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Connection piping diameter of single-unit is the stop valve diameter of the unit.
Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.



Outdoor Unit Combination

Capacity (HP)	Model	Combination	Photo
20	FMV-560(20)WHS	10HPx2	
22	FMV-615(22)WHS	10HP+12HP	
24	FMV-680(24)WHS	10HP+14HP	
26	FMV-730(26)WHS	10HP+16HP	
28	FMV-780(28)WHS	10HP+18HP	
30	FMV-850(30)WHS	14HP+16HP	
32	FMV-900(32)WHS	14HP+18HP	
34	FMV-950(34)WHS	16HP+18HP	
36	FMV-1000(36)WHS	18HPx2	
38	FMV-1060(38)WHS	10HPx2+18HP	
40	FMV-1130(40)WHS	10HP+14HP+16HP	
42	FMV-1180(42)WHS	10HP+16HPx2	
44	FMV-1230(44)WHS	10HP+16HP+18HP	
46	FMV-1280(46)WHS	10HP+18HPx2	
48	FMV-1350(48)WHS	14HP+16HP+18HP	
50	FMV-1400(50)WHS	14HP+18HPx2	
52	FMV-1450(52)WHS	16HP+18HPx2	
54	FMV-1500(54)WHS	18HPx3	
56	FMV-1560(56)WHS	10HPx2+18HPx2	
58	FMV-1630(58)WHS	10HP+14HP+16HP+18HP	
60	FMV-1680(60)WHS	10HP+14HP+18HPx2	
62	FMV-1730(62)WHS	10HP+16HP+18HPx2	
64	FMV-1780(64)WHS	10HP+18HPx3	
66	FMV-1850(66)WHS	14HP+16HP+18HPx2	
68	FMV-1900(68)WHS	14HP+18HPx3	
70	FMV-1950(70)WHS	16HP+18HPx3	
72	FMV-2000(72)WHS	18HPx4	

VRF K Series - Heat Pump/Cooling Only

380-415/3/50
Power Supply

Model (Heat pump series) FMV-		8	10	12	14	16	18
Model (Cooling only series) FMV-		252(8)WCK	280(10)WCK	335(12)WCK	400(14)WCK	450(16)WCK	500(18)WCK
Power supply		380-415/3/50					
	Capacity	kW					
	Power input	kW					
	EER						
	Capacity	kW					
	Power input	kW					
	COP						
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Max. quantity						
Compressor	Type	DC inverter+Fixed					
	Quantity						
	Type	All DC motors for Heat pump series; DC+AC for Cooling only series					
	Quantity						
	Static pressure	0-20 (default)					
		Pa					
	Type	R410A					
	Factory charging	kg					
	Liquid pipe	mm					
Pipe connections	Gas pipe	mm					
	Oil balance pipe	mm					
	Air flow rate	m³/h					
Sound pressure level		dB(A)					
Net dimension (W×H×D)		mm					
Packing size (W×H×D)		mm					
Net weight (Heat pump series)		kg					
Gross weight (Heat pump series)		kg					
Net weight (Cooling only series)		kg					
Gross weight (Cooling only series)		kg					
Operating temperature range		°C					

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Connection piping diameter of single-unit is the stop valve diameter of the unit.
Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
*heating is only available for heat pump series.



Outdoor Unit Combination

Capacity (HP)	Model	Combination	Photo
20	FMV-560(20)W(C)HK	10HPx2	
22	FMV-615(22)W(C)HK	10HP+12HP	
24	FMV-680(24)W(C)HK	10HP+14HP	
26	FMV-730(26)W(C)HK	10HP+16HP	
28	FMV-780(28)W(C)HK	10HP+18HP	
30	FMV-850(30)W(C)HK	14HP+16HP	
32	FMV-900(32)W(C)HK	14HP+18HP	
34	FMV-950(34)W(C)HK	16HP+18HP	
36	FMV-1000(36)W(C)HK	18HPx2	
38	FMV-1060(38)W(C)HK	10HPx2+18HP	
40	FMV-1130(40)W(C)HK	10HP+14HP+16HP	
42	FMV-1180(42)W(C)HK	10HP+16HPx2	
44	FMV-1230(44)W(C)HK	10HP+16HP+18HP	
46	FMV-1280(46)W(C)HK	10HP+18HPx2	
48	FMV-1350(48)W(C)HK	14HP+16HP+18HP	
50	FMV-1400(50)W(C)HK	14HP+18HPx2	
52	FMV-1450(52)W(C)HK	16HP+18HPx2	
54	FMV-1500(54)W(C)HK	18HPx3	
56	FMV-1560(56)W(C)HK	10HPx2+18HPx2	
58	FMV-1630(58)W(C)HK	10HP+14HP+16HP+18HP	
60	FMV-1680(60)W(C)HK	10HP+14HP+18HPx2	
62	FMV-1730(62)W(C)HK	10HP+16HP+18HPx2	
64	FMV-1780(64)W(C)HK	10HP+18HPx3	
66	FMV-1850(66)W(C)HK	14HP+16HP+18HPx2	
68	FMV-1900(68)W(C)HK	14HP+18HPx3	
70	FMV-1950(70)W(C)HK	16HP+18HPx3	
72	FMV-2000(72)W(C)HK	18HPx4	

VRF Individual Series - Heat Pump

380-415/3/50
Power Supply

HP			7	8	10	14	16
Model FMV-			200(7)WHI	224(8)WHI	260(10)WHI	400(14)WHI	450(16)WHI
Power supply			380-415/3/50				
Cooling	Capacity	kW	20.0	22.4	26.0	40.0	45.0
	Power input	kW	6.1	6.8	7.6	11.9	13.6
	EER		3.28	3.29	3.42	3.35	3.32
Heating	Capacity	kW	22.0	24.5	28.5	45.0	50.0
	Power input	kW	6.1	5.9	6.8	11.1	12.7
	COP		3.61	4.15	4.19	4.05	3.93
Connectable indoor unit			50~130% of outdoor unit capacity				
Compressor	Max. quantity		10	11	12	14	15
	Type		DC inverter				
Fan motor	Quantity		1	1	1	2	2
	Type		DC motor		DC motor+AC motor		
Refrigerant	Quantity		2	2	2	2	2
	Type		R410A				
Pipe connections	Factory charging	kg	4.8	6.2	6.2	9	12
	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7
	Gas pipe	mm	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ25.4
Air flow rate			10999	10494	10494	16575	16575
Sound pressure level			59	59	60	62	62
Net dimension (W×H×D)			1120×1558×528			1360×1650×540	1460×1650×540
Packing size (W×H×D)			1270×1720×565			1450×1785×560	1550×1785×560
Net weight			137	146.5	147	240	275
Gross weight			153	162.5	163	260	290
Operating temperature range			Cooling: -15~46; Heating: -15~24			Cooling: -5~48; Heating: -15~24	

HP			8	10	12	14
Model FMV-			252(8)WHI	280(10)WHI	335(12)WHI	400(14)WHI
Power supply			380-415/3/50			
Cooling	Capacity	kW	25.2	28.0	33.5	40.0
	Power input	kW	5.9	7.2	9.1	12.3
	EER		4.29	3.89	3.7	3.25
Heating	Capacity	kW	27.0	31.5	37.5	45.0
	Power input	kW	6.2	7.6	9.0	11.2
	COP		4.39	4.14	4.17	4.02
Connectable indoor unit			50~130% of outdoor unit capacity			
Compressor	Max. quantity		13	16	16	16
	Type		DC inverter		DC inverter+Fixed	
Fan motor	Quantity		1	1	2	3
	Type		DC motor			
Refrigerant	Quantity		1	1	2	2
	Max Static Pressure	Pa	20 (default)			
		Pa	40 (customized)			
	Type		R410A			
Pipe connections	Factory charging	kg	10	10	12	15
	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8
Air flow rate			11000	11000	15000	15000
Sound pressure level			57	57	58	60
Net dimension (W×H×D)			960×1615×765		1250×1615×765	
Packing size (W×H×D)			1025×1790×830		1305×1790×820	
Net weight			205		275	325
Gross weight			220		295	345
Operating temperature range			Cooling: -5~48; Heating: -15~24			

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

VRF Individual Series - Heat Pump

HP			16	20	22	24
Model FMV-			450(16)WHI	560(20)WHI	615(22)WHI	670(24)WHI
Power supply			380-415/3/50			
Cooling	Capacity	kW	45.0	56.0	61.5	67.0
	Power input	kW	14	17	18.8	20.8
	EER		3.21	3.3	3.27	3.22
Heating	Capacity	kW	50.0	63.0	69.0	75.0
	Power input	kW	12.8	16	17.9	19.8
	COP		3.91	3.94	3.86	3.79
Connectable indoor unit			50~130% of outdoor unit capacity			
Compressor	Max. quantity		20	33	36	39
	Type		DC inverter+Fixed			
Fan motor	Quantity		3	3	3	3
	Type		DC motor		DC motor+AC motor	
Refrigerant	Quantity		2	2	2	2
	Max Static Pressure	Pa	20 (default)			
		Pa	40 (customized)			
	Type		R410A			
Pipe connections	Factory charging	kg	15	17	18.5	18.5
	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8
Air flow rate			15000	20000	23000	23000
Sound pressure level			60	62	63	63
Net dimension (W×H×D)			1250×1615×765	1390×1615×765	1585×1615×765	
Packing size (W×H×D)			1305×1790×820	1455×1790×830	1650×1810×840	
Net weight			325	360	385	390
Gross weight			345	375	400	405
Operating temperature range			Cooling: -5~48; Heating: -15~24			

HP			26	28	30	32
Model FMV-			730(26)WHI	785(28)WHI	850(30)WHI	900(32)WHI
Power supply			380-415/3/50			
Cooling	Capacity	kW	73.0	78.5	85.0	90.0
	Power input	kW	22.3	24.2	28.3	28.5
	EER		3.27	3.24	3	3.16
Heating	Capacity	kW	81.5	87.5	95.0	100.0
	Power input	kW	20.6	22.4	26.0	26.5
	COP		3.96	3.91	3.65	3.77
Connectable indoor unit			50~130% of outdoor unit capacity			
Compressor	Max. quantity		43	46	50	53
	Type		DC inverter+Fixed			
Fan motor	Quantity		4	4	5	5
	Type		AC motor			
Refrigerant	Quantity		4	4	4	4
	Max Static Pressure	Pa	20 (default)			
		Pa	40 (customized)			
	Type		R410A			
Pipe connections	Factory charging	kg	27	27	27	27
	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Air flow rate			33100	33100	33100	33100
Sound pressure level			64	64	65	65
Net dimension (W×H×D)			2540×1615×765			
Packing size (W×H×D)			2600×1800×825			
Net weight			555		600	
Gross weight			590		635	
Operating temperature range			Cooling: -5~48; Heating: -15~24			

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

VRF R Series - Heat Recovery

380-415/3/50

Power Supply

380-415/3/60

Power Supply

Model FMV-			8	10	12	14	16
			252(8)W/D2RN1T(C)	280(10)W/D2RN1T(C)	335(12)W/D2RN1T(C)	400(14)W/D2RN1T(C)	450(16)W/D2RN1T(C)
Power supply		V/Ph/Hz	380-415/3/50(60)				
Cooling	Capacity	kW	25.2	28	33.5	40	45
	Power input	kW	5.73	6.67	8.07	11.3	13.24
	EER		4.4	4.2	4.15	3.54	3.4
Heating	Capacity	kW	27	31.5	37.5	45	50
	Power input	kW	6	7.33	8.72	11.19	12.79
	COP		4.5	4.3	4.3	4.02	3.91
Connectable indoor unit		Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity		13	16	20	23	26
	Type		DC inverter				
Fan motor	Quantity		1	1	1	2	2
	Type		DC motor				
	Quantity		2	2	2	2	2
	Static pressure	Pa	0-20 (default)				
		Pa	20-40 (customized)		20-60 (customized)	20-40 (customized)	
Refrigerant	Type		R410A				
	Factory charging	kg	10	10	10	13	13
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Low pressure gas pipe	mm	Φ22.2	Φ22.2	Φ25.4	Φ28.6	Φ28.6
	High pressure gas pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ22.2	Φ22.2
	High pressure gas balance pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Oil balance pipe	mm	Φ6	Φ6	Φ6	Φ6	Φ6
Air flow rate		m³/h	12000	12000	13000	15000	15000
Sound pressure level		dB(A)	57	57	58	60	60
Net dimension (W×H×D)		mm	1250×1615×765				
Packing size (W×H×D)		mm	1305×1790×820				
Net weight		kg	255	255	255	303	303
Gross weight		kg	273	273	273	322	322
Operating temperature range		℃	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24				

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.
Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Connection piping diameter of single-unit is the stop valve diameter of the unit.
Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.
Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.



VRF R Series - Mode Switch Box

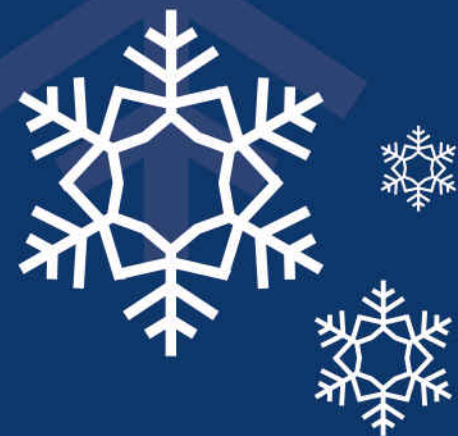
Model				MS01/N1-C	MS02/N1-C	MS04/N1-C	MS06/N1-C	MS02E/N1-C	MS04E/N1-C
Applicable indoor units				All VRF indoor units except high static pressure duct				Only high static pressure duct	
Max. indoor unit groups				1	2	4	6	1	1
Max. number of each group of indoor units				4	4	4	4	1	1
Max. number of downstream indoor units				4	8	16	24	1	1
Max. capacity of each group of indoor units			kW	16	16	16	16	20/25/28	40/45/56
Max. total capacity of all downstream indoor units			kW	16	28	45	45	20-28	40-56
Piping connections	Connected to outdoor unit	Liquid pipe	mm	Φ9.53	Φ12.7	Φ15.9	Φ15.9	Φ12.7	Φ15.9
		High pressure gas pipe	mm	Φ15.9	Φ19.1	Φ22.2	Φ22.2	Φ19.1	Φ22.2
		Low pressure gas pipe	mm	Φ19.1	Φ25.4	Φ31.8	Φ31.8	Φ25.4	Φ31.8
	Connected to indoor unit	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Sound pressure level			dB(A)	33	33	33	40	33	33
Net dimension (W×H×D)			mm	630×225×600	630×225×600	960×225×600	960×225×600	630×225×600	960×225×600
Packing size (W×H×D)			mm	725×325×685	725×325×685	1055×325×685	1055×325×685	725×325×685	1055×325×685
Net weight			kg	18	19.5	31	35	19.5	31
Gross weight			kg	25	27	40	44.5	27	40

Note:
Sound values are measured in a semi-anechoic room, at a position 1m below the MS equipment in mode switch condition.
It is not recommended to install in a place where low noise performance is required.



Outdoor Unit Combination

Capacity (HP)	Model	Combination	Photo
18	FMV-532(18)WHR	8HP+10HP	
20	FMV-560(20)WHR	10HPx2	
22	FMV-615(22)WHR	10HP+12HP	
24	FMV-680(24)WHR	10HP+14HP	
26	FMV-730(26)WHR	10HP+16HP	
28	FMV-800(28)WHR	14HPx2	
30	FMV-850(30)WHR	14HP+16HP	
32	FMV-900(32)WHR	16HPx2	
34	FMV-960(34)WHR	10HPx2+14HP	
36	FMV-1010(36)WHR	10HPx2+16HP	
38	FMV-1065(38)WHR	10HP+12HP+16HP	
40	FMV-1130(40)WHR	10HP+14HP+16HP	
42	FMV-1200(42)WHR	14HPx3	
44	FMV-1250(44)WHR	14HPx2+16HP	
46	FMV-1300(46)WHR	14HP+16HPx2	
48	FMV-1350(48)WHR	16HPx3	
50	FMV-1432(50)WHR	8HP+10HP+16HPx2	
52	FMV-1460(52)WHR	10HPx2+16HPx2	
54	FMV-1515(54)WHR	10HP+12HP+16HPx2	
56	FMV-1580(56)WHR	10HP+14HP+16HPx2	
58	FMV-1650(58)WHR	14HPx3+16HP	
60	FMV-1700(60)WHR	14HPx2+16HPx2	
62	FMV-1750(62)WHR	14HP+16HPx3	
64	FMV-1800(64)WHR	16HPx4	



INDOOR UNITS

Two-way Cassette
Four-way Cassette
Low Static Pressure Duct
Medium Static Pressure Duct
High Static Pressure Duct
Fresh Air Processing Unit
Wall-mounted
Ceiling & Floor

Two-way Cassette



- Quiet Operation** Optimized airflow duct with low resistance greatly reduces noise, down to a minimum of 24dB(A).
- High-lift Pump** Standard built-in drain pump with 750mm pump head (higher pump head can be customized).
- High Airflow** High airflow for high ceiling application guarantees comfort in large spaces. Guarantees even airflow and temperature throughout the room.
- Stylish Design And Slim Body** Thanks to the stylish appearance and slim body, the unit suits any room's decor and ambience. At only 300mm high, the unit requires only a small space in suspended ceilings. Installation has no height limitations, which means overall design features much more flexibility.



Specifications

Model			FMV-22NQ2	FMV-28NQ2	FMV-36NQ2	FMV-45NQ2	FMV-56NQ2	FMV-71NQ2
Power supply			1-phase, 220-240V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.6	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	57	57	60	92	108	154
	Heating	W	57	57	60	92	108	154
Airflow rate(H/M/L)		m³/h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1,200/1,000/770
Sound pressure level(H/M/L)		dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Main body	Net dim.(W×H×D)	mm	1172×299×591	1172×299×591	1172×299×591	1172×299×591	1172×299×591	1172×299×591
	Packing dim.(W×H×D)	mm	1355×400×675	1355×400×675	1355×400×675	1355×400×675	1355×400×675	1355×400×675
	Net/gross weight	kg	34/42.5	34/42.5	34/42.5	36/44.5	36/44.5	36/44.5
Panel	Net dim.(W×H×D)	mm	1430×53×680	1430×53×680	1430×53×680	1430×53×680	1430×53×680	1430×53×680
	Packing dim.(W×H×D)	mm	1525×130×765	1525×130×765	1525×130×765	1525×130×765	1525×130×765	1525×130×765
	Net/gross weight	kg	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller					

Model			FMV-22NQ2(60Hz)	FMV-28NQ2(60Hz)	FMV-36NQ2(60Hz)	FMV-45NQ2(60Hz)	FMV-56NQ2(60Hz)	FMV-71NQ2(60Hz)
Power supply			1-phase,208-230V,60Hz					
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
		Btu/h	7500	9600	12300	15400	19100	24200
Heating capacity		kW	2.6	3.2	4.0	5.0	6.3	8.0
		Btu/h	8900	10900	13600	17100	21500	27300
Power input	Cooling	W	78	78	83	115	133	205
	Heating	W	78	78	83	115	133	205
Airflow rate(H/M/L)		m³/h	674/509/381	674/509/381	740/577/435	878/689/561	941/776/654	1236/1110/864
		CFM	397/300/224	397/300/224	436/340/256	517/406/330	554/457/385	727/653/509
Sound pressure level(H/M/L)		dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Main body	Net dim.(WxHxD)	mm(in.)	1172x299x591(46-9/32x11-49/64x23-17/64)					
	Packing dim.(WxHxD)	mm(in.)	1355x400x675(53-11/32x15-3/4x26-37/64)					
	Net/gross weight	kg(lbs.)	34/42.5(75/94)36.5/45(80.5/99)					
Panel	Net dim.(WxHxD)	mm(in.)	1430x53x680(56-19/64x2-3/32x26-49/64)					
	Packing dim.(WxHxD)	mm(in.)	1525x130x765(60-3/64x5-1/8x30-1/8)					
	Net/gross weight	kg(lbs.)	10.5/15(23/33)					
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)				Φ9.53/Φ15.9(Φ3/8/Φ5/8)	
	Drain pipe	mm(in.)	Φ32(OD 1-17/64)					
Standard controller			Wireless remote controller					

- Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
 2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(horizontal).
 3. Sound level is measured at 1.4m below the unit.
 4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

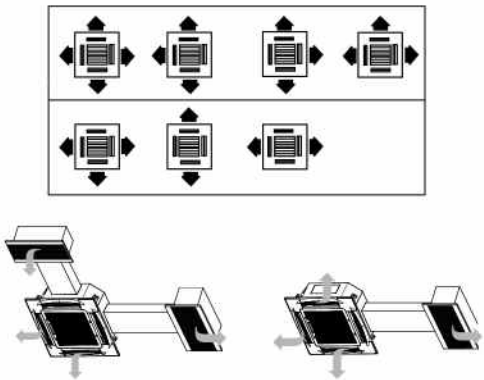
Four-way Cassette

Various Selections

Three selections: Compact Four-way Cassette, Four-way Cassette & Four-way Cassette Silent Type.

Flexible Air Distribution Type

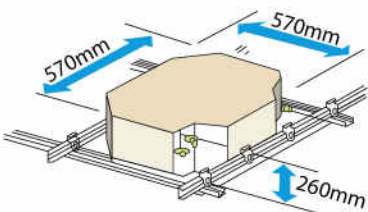
7 discharge patterns in 2 to 4 directions can be selected to suit the requirements of the installation site or the shape of the room.



Duct connection is possible

Compact Design, Easy Installation

For Compact Four-way Cassette: Extremely compact casing suits any room's decor and requires little space for installation on a low ceiling. Due to compact body and light weight, all models can be installed without a hoist.



360° Airflow Outlet

For Compact Four-way Cassette: 360° air outlet provides strong air flow circulation to cool or heat every corner of a room and evenly control temperatures.



Sub Duct

Sub duct enables you to use the same air conditioner unit to cool an additional smaller space nearby.



Fresh Air Intake

Fresh air can enter through the cassette unit so you can enjoy even fresher air in a room.



Easy Troubleshooting

For Four-way Cassette& Four-way Cassette Silent Type: By adding digital tube on the display board, Error Codes can be displayed directly for troubleshooting.



Lower Operating Noise

For Four-way Cassette Silent Type: The newly designed fan blade, air deflector and the built-in throttling part reduce noise greatly.



High-lift Drain Pump

For Compact Four-way Cassette: Drain pump with a 500mm pump head is fitted as standard; maximum 600mm pump head is available.

For Four-way Cassette& Four-way Cassette Silent Type: Drain pump can pump condenser water up to 750mm high, which simplifies installation of the drain piping system.

Compact Four-way Cassette

Model			FMV-15NQ4C	FMV-22NQ4C	FMV-28NQ4C	FMV-36NQ4C	FMV-45NQ4C
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5
	Heating	kW	1.7	2.4	3.2	4.0	5.0
Power input	Cooling	W	36	50(51)	50(52)	56(58)	56(58)
	Heating	W	36	50(43)	50(44)	56(50)	56(51)
Airflow rate(H/M/L)			m³/h	435/283/208	414/313/238	414/313/238	521/409/314
Sound pressure level(H/M/L)			dB(A)	34.9/32.5/22.5	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8
Main body	Net dim.(W×H×D)	mm	570×260×570	570×260×570	570×260×570	570×260×570	570×260×570
	Packing dim.(W×H×D)	mm	675×285×675	675×285×675	675×285×675	675×285×675	675×285×675
	Net/gross weight	kg	16/19.5	16/20	16/20	18/22	18/22
Panel	Net dim.(W×H×D)	mm	647×50×647	647×50×647	647×50×647	647×50×647	647×50×647
	Packing dim.(W×H×D)	mm	715×123×715	715×123×715	715×123×715	715×123×715	715×123×715
	Net/gross weight	kg	2.5/4.5	2.5/4.5	2.5/4.5	2.5/4.5	2.5/4.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller				

Four-way Cassette

Model			FMV-28NQ4	FMV-36NQ4	FMV-45NQ4	FMV-56NQ4	FMV-71NQ4
Power supply			1-phase,220-240V,50Hz(60Hz)				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	65(90)	65(90)	75(90)	75(90)	82(115)
	Heating	W	65(90)	65(90)	75(90)	75(90)	82(115)
Airflow rate(H/M/L)			m³/h	847/766/640	847/766/640	864/755/658	864/755/658
Sound pressure level(H/M/L)			dB(A)	42/38/35	42/38/35	42/38/35	42/38/35
Main body	Net dim.(W×H×D)	mm	904×230×840	904×230×840	904×230×840	904×230×840	904×230×840
	Packing dim.(W×H×D)	mm	955×260×955	955×260×955	955×260×955	955×260×955	955×260×955
	Net/gross weight	kg	24/28	24/28	26/30	26/30	26/30
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

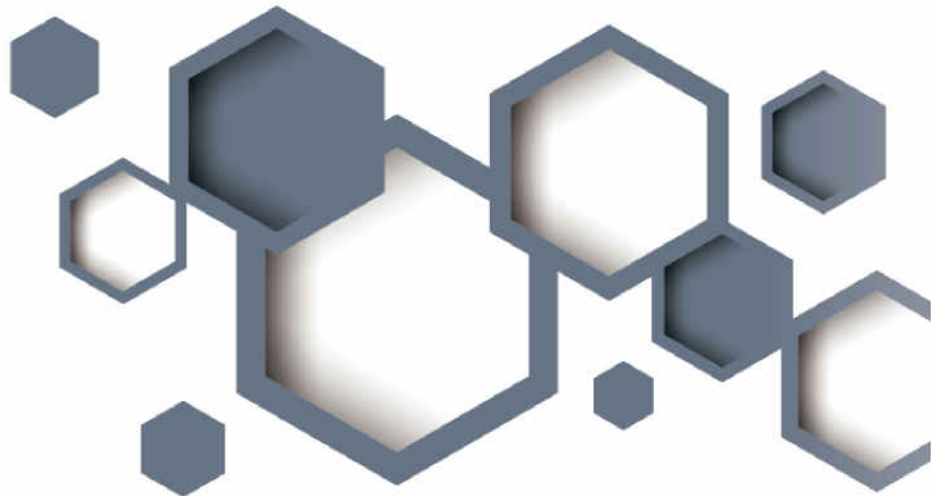
Model			FMV-80NQ4	FMV-96NQ4	FMV-100NQ4	FMV-112NQ4	FMV-140NQ4
Power supply			1-phase,220-240V,50Hz(60Hz)				
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	14.0
	Heating	kW	9.0	10.0	11.1	12.5	15.0
Power input	Cooling	W	97(115)	160(160)	160(160)	160(160)	170(180)
	Heating	W	97(115)	160(160)	160(160)	160(160)	170(180)
Airflow rate(H/M/L)			m³/h	1236/973/729	1540/1300/1120	1540/1300/1120	1540/1300/1120
Sound pressure level(H/M/L)			dB(A)	45/42/39	48/45/43	48/45/43	48/45/43
Main body	Net dim.(W×H×D)	mm	904×230×840	904×300×840	904×300×840	904×300×840	904×300×840
	Packing dim.(W×H×D)	mm	955×260×955	955×330×955	955×330×955	955×330×955	955×330×955
	Net/gross weight	kg	26/30	32/37	32/37	32/37	32/37
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Four-way Cassette Silent Type

Model			FMV-28NQ4S	FMV-36NQ4S	FMV-45NQ4S	FMV-56NQ4S	FMV-71NQ4S
Power supply			1-phase,220-240V,50Hz(1-phase,208-230V,60Hz)				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	80(80)	80(80)	88(88)	88(88)	88(105)
	Heating	W	80(80)	80(80)	88(88)	88(88)	88(105)
Airflow rate(H/M/L)		m³/h	764/638//554	764/638//554	905/740//651	905/740//651	950/767//663
Sound pressure level(H/M/L)		dB(A)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35
Main body	Net dim.(WxHxD)	mm	840x230x840	840x230x840	840x230x840	840x230x840	840x230x840
	Packing dim.(WxHxD)	mm	955x260x955	955x260x955	955x260x955	955x260x955	955x260x955
	Net/gross weight	kg	21.5/26.7	21.5/26.7	23.7/28.9	23.7/28.9	23.7/28.9
Panel	Net dim.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Model			FMV-80NQ4S	FMV-90NQ4S	FMV-100NQ4S	FMV-112NQ4S	FMV-140NQ4S
Power supply			1-phase,220-240V,50Hz(1-phase,208-230V,60Hz)				
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	14.0
	Heating	kW	9.0	10.0	11.1	12.5	15.0
Power input	Cooling	W	110(120)	140(187)	165(200)	165(200)	176(220)
	Heating	W	110(120)	140(187)	165(200)	165(200)	176(220)
Airflow rate(H/M/L)		m³/h	1200/1021/789	1332/1129/908	1651/1304/1127	1651/1304/1127	1658/1335/1130
Sound pressure level(H/M/L)		dB(A)	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39
Main body	Net dim.(WxHxD)	mm	840x230x840	840x300x840	840x300x840	840x300x840	840x300x840
	Packing dim.(WxHxD)	mm	955x260x955	955x330x955	955x330x955	955x330x955	955x330x955
	Net/gross weight	kg	23.7/28.9	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Net dim.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

- Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB,outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
 2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(horizontal).
 3. Sound level is measured at 1.4m below the unit.
 4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.



Low Static Pressure Duct

Auto Restart
Function

Auto
Addressing

Independent
Dehumidification

Auto
Defrosting

Follow
Me

Anti-cold Air
Function

Timer

Wired
Controller



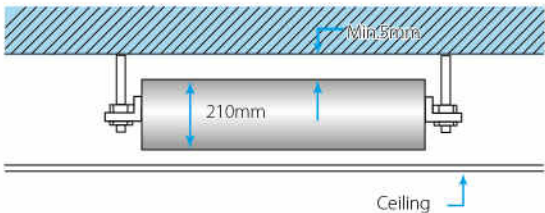
Low Sound Level

Utilizes the centrifugal type blower, provides a minimum noise level of 24dB (A), an excellent choice for hotels and other sound-sensitive locations.



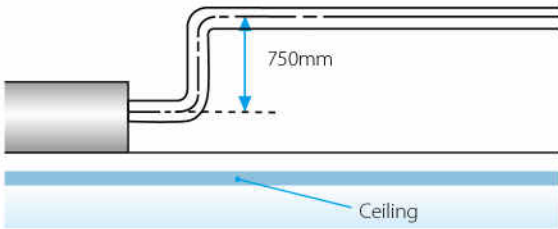
Compact Design

Uniformed height of 210mm, compact design for easy locate where ceiling space is limited. Entire body adopts fireproof plastic material, the minimum weight is 14kg.



Options

Drain pump with a 750mm pumphead is an optional accessory.



V Shape Evaporator

V shape evaporator design enhances heat exchanging efficiency by around 22%.

Easy Installation and Maintenance

The EXV is fixed inside the indoor unit.

Specifications

Model			FMV-18NT3	FMV-22NT3	FMV-28NT3	FMV-36NT3	FMV-45NT3	FMV-56NT3	FMV-71NT3
Power supply			1-phase,220-240V,50Hz(1-phase,208-230V,60Hz)						
Capacity	Cooling	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	62(59)	62(59)	62(59)	65(65)	105(105)	105(105)	130(130)
	Heating	W	62(59)	62(59)	62(59)	65(65)	105(105)	105(105)	130(130)
Airflow rate(H/M/L)		m³/h	578/512/409	578/512/409	578/512/409	617/551/441	824/690/609	824/690/609	1060/970/811
External static pressure(Min/Std/Max)		Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30
Sound pressure level(H/M/L)		dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29	41/33/30
Net dimension(WxHxD)		mm	740x210x470	740x210x470	740x210x470	740x210x470	960x210x470	960x210x470	1180x210x470
Packing dimension(WxHxD)		mm	910x230x510	910x230x510	910x230x510	910x230x510	1130x230x510	1130x230x510	1350x230x510
Net/gross weight		kg	14/17.5	14/17.5	14/17.5	14/17.5	17.5/22	17.5/22	21/26.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller						

- Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB,outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
 2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(horizontal).
 3. Sound level is measured at 1.4m below the air outlet.
- External static pressure is based on high speed indoor air flow.
4. No standard filter and air plenum box.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Medium Static Pressure Duct

- Auto Restart Function

Auto Addressing

Fresh Air

Auto Defrosting

Built-in Filter

Follow Me

Anti-cold Air Function

Built-in Drain Pump

Timer

Independent Dehumidification

Wired Controller

Super High Air Flow



Compact Size

Only 210mm (models 15~71) or 270mm (models 80~112) or 300mm (model 140) in height.

Convenient Installation

EXV is fixed inside the indoor unit.
Standard filter is housed in an aluminum frame.
A rear air inlet is standard and an inlet at the bottom is optional. Both use the same connectable duct.



High-lift Drain Pump

Drain pump with a 750mm pump head is fitted as standard.

Specifications

Model			FMV-15NT2	FMV-22NT2	FMV-28NT2	FMV-36NT2	FMV-45NT2	FMV-56NT2
Power supply			1-phase,220-240V,50Hz		1-phase,220-240V,50Hz(1-phase,208-230V,60Hz)			
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	kW	1.7	2.6	3.2	4.0	5.0	6.3
Power input	Cooling	W	56	57(66)	57(72)	61(77)	98(100)	103(100)
	Heating	W	56	57(66)	57(72)	61(77)	98(100)	103(100)
Airflow rate(H/M/L)			538/456/375	538/456/375	538/456/375	597/514/429	811/684/575	811/684/575
External static pressure(Min/Std/Max)			0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30
Sound pressure level(H/M/L)			35.8/34.6/31.4	36/35/32	37/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34
Net dimension(WxHxD)			780x210x500	780x210x500	780x210x500	780x210x500	1000x210x500	1000x210x500
Packing dimension(WxHxD)			870x285x525	870x285x525	870x285x525	870x285x525	1115x285x525	1115x285x525
Net/gross weight			17.5/20.5	17.5/20	17.5/20	17.5/20	22.5/26	22.5/26
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wired controller					

Model			FMV-71NT2	FMV-80NT2	FMV-90NT2	FMV-112NT2	FMV-140NT2
Power supply			1-phase,220-240V,50Hz(1-phase,208-230V,60Hz)				
Capacity	Cooling	kW	7.1	8.0	9.0	11.2	14.0
	Heating	kW	8.0	9.0	10.0	12.5	15.5
Power input	Cooling	W	140(125)	198(133)	200(134)	313(378)	274(352)
	Heating	W	140(125)	198(133)	200(134)	313(378)	274(352)
Airflow rate(H/M/L)			1029/934/781	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400
External static pressure(Min/Std/Max)			0/10/30	10/20/50	10/20/50	10/40/80	10/40/100
Sound pressure level(H/M/L)			41.4/39/35	45.4/39.8/37	45.4/39.8/37	48.0/41.9/38	47.7/43.2/39.0
Net dimension(WxHxD)			1220x210x500	1230x270x775	1230x270x775	1230x270x775	1290x300x865
Packing dimension(WxHxD)			1335x285x525	1355x350x795	1355x350x795	1355x350x795	1400x375x925
Net/gross weight			28/31.5	38/46.5	40/48	40/48	49/58
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wired controller				

- Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB,outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).

2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(horizontal).

3. Sound level is measured at 1.4m below the air outlet.

External static pressure is based on high speed indoor air flow.

4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

High Static Pressure Duct

- Auto Restart Function

Auto Addressing

Independent Dehumidification

Auto Defrosting

Built-in Filter

Follow Me

Anti-cold Air Function

Wired Controller

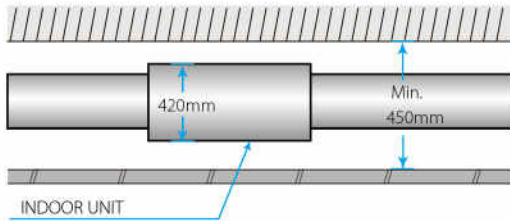
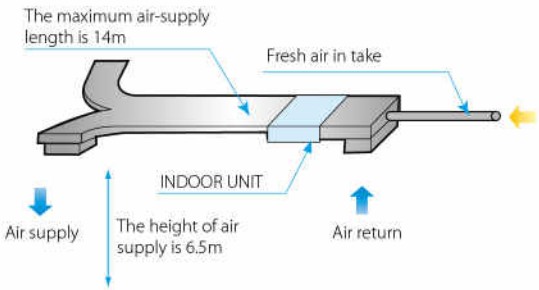
Timer

Built-in Drain Pump



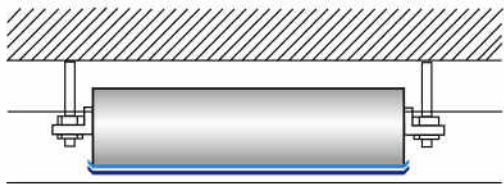
Flexible Duct Design

External static pressure can be up to 196Pa (models 71 to 160) or 280Pa (models 200 to 560).
The maximum length for air supply is about 14m at a height of 6.5m.
With a 420mm (models 71 to 160) thick body, the minimum distance required above the ceiling is 450mm.



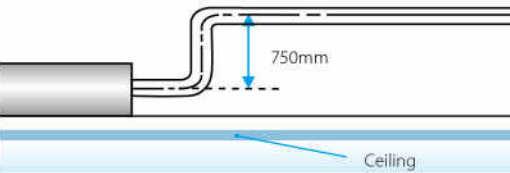
Double-skin Drainage Pan

Double-skin drainage pan provides double protection for ceilings (models 71 to 160 and models 400 to 560).



Option

Drain pump with 750mm pump head is optional (models 71 to 160).



Convenient Installation

The EXV is fixed inside the indoor unit (models 71 to 160), requires no extra connection.
Standard filter is housed in an aluminum frame (models 71 to 280) , which is removable from the bottom in a downward direction.
Flange for air inlet/outlet duct connection is standard.

Flexible Control and Convenient for Maintenance

Wired remote controller KJR-29B1/BK-E comes standard.
The display board is connected to the E-box in factory, easier troubleshooting with LED display.
Easy access filters both at the rear & bottom.
Standard functional port such as remote on/off dry contact.

Specification

Model			FMV-71NT1	FMV-80NT1	FMV-90NT1	FMV-112NT1	FMV-140NT1	FMV-160NT1
Power supply			1-phase,220-240V,50Hz(1-phase,208-230V,60Hz)					
Capacity	Cooling	kW	7.1	8.0	9.0	11.2	14.0	16.0
	Heating	kW	8.0	9.0	10.0	12.5	16.0	17.0
Power input	Cooling	W	263(414)	263(402)	423(409)	524(409)	724(527)	940(532)
	Heating	W	263(414)	263(402)	423(409)	524(409)	724(527)	940(532)
Airflow rate(H/M/L)		m³/h	1443/1361/1218	1416/1338/1220	1951/1741/1518	2116/1936/1520	3000/2618/2226	3620/3044/2744
External static pressure(Min/Std/Max)		Pa	25/25/196	37/37/196	37/37/196	50/50/196	50/50/196	50/50/196
Sound pressure level(H/M/L)		dB(A)	48/46/44	48/46/44.5	52/49/47	52/49/47	53/50/48	54/52/50
Net dimension(WxHxD)		mm	952x420x690	952x420x690	952x420x690	952x420x690	1300x420x690	1300x420x690
Packing dimension(WxHxD)		mm	1090x440x768	1090x440x768	1090x440x768	1090x440x768	1436x450x768	1436x450x768
Net/gross weight		kg	45/50	45/50	46.5/52.4	50.6/56	68/70	70/77.5
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wired controller					

Model			FMV-200NT1	FMV-250NT1	FMV-280NT1	FMV-400NT1	FMV-450NT1	FMV-560NT1	
Power supply			1-phase,220-240V,50Hz(1-phase,208-230V,60Hz)						1-phase,220-240V,50Hz
Capacity	Cooling	kW	20.0	25.0	28.0	40.0	45.0	56.0	
	Heating	kW	22.5	26.0	31.5	45.0	50.0	63.0	
Power input	Cooling	W	1516(1516)	1516(1516)	1516(1516)	2700(1600)	2700(1600)	3400	
	Heating	W	1516(1516)	1516(1516)	1516(1516)	2700(1600)	2700(1600)	3400	
Airflow rate(H/M/L)		m³/h	4700/4100/3599	4700/4100/3599	4700/4100/3599	7472/6072/4995	7472/6072/4995	9550/7950/6600	
External static pressure(Min/Std/Max)		Pa	50/200/280	50/200/280	50/200/280	50/200/280	50/200/280	50/200/280	
Sound pressure level(H/M/L)		dB(A)	59/55/52	59/55/52	59/55/52	61/59/56	61/59/56	63/60/57	
Net dimension(WxHxD)		mm	1440x505x925	1440x505x925	1440x505x925	1970x668x902.5	1970x668x902.5	1970x668x902.5	
Packing dimension(WxHxD)		mm	1509x550x990	1509x550x990	1509x550x990	2095x800x964	2095x800x964	2095x800x964	
Net/gross weight		kg	115/129	115/129	115/129	232/245	232/245	235/250	
Piping connections	Liquid/gas pipe	mm	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ22.2x2	Φ9.53x2/Φ22.2x2	Φ9.53x2/Φ22.2x2	
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	
Standard controller			Wired controller						

- Notes:
- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB,outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
 - Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature.: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(horizontal).
 - Sound level is measured at 1.4m below the air outlet.
External static pressure is based on high speed indoor air flow.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Fresh Air Processing Unit

100% Fresh Air Processing Unit

Both fresh air filtration and heating/cooling can be achieved in a single system.
Indoor units and fresh air processing unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.

Healthy and Comfortable

Fresh air is imported, providing a healthy and comfortable living environment.
Four speed fan motor(model 125&140).

High External Static Pressure

Specification

Model			FMV-125NF	FMV-140NF	FMV-200NF	FMV-250NF	FMV-280NF
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	12.5	14.0	20.0	25.0	28.0
	Heating	kW	10.5	12.0	18.0	20.0	22.0
Power input	Cooling	W	455	455	1060x2	1126x2	1126x2
	Heating	W	455	455	1060x2	1126x2	1126x2
Airflow rate(H/M/L)		m³/h	2142/1870/1611	2142/1870/1611	2870/2620/2150	3005/2700/2250	3005/2700/2250
External static pressure(Min/Std/Max)		Pa	30/50/196	30/50/196	50/200/280	50/200/280	50/200/280
Sound pressure level(H/M/L)		dB(A)	54/52/50	54/52/50	54/53/51	55/54/52	55/54/52
Net dimension(WxHxD)		mm	1300x420x690	1300x420x690	1440x505x925	1440x505x925	1440x505x925
Packing dimension(WxHxD)		mm	1436x450x768	1436x450x768	1509x550x990	1509x550x990	1509x550x990
Net/gross weight		kg	69.5/76	69.5/76	115/125	115/125	115/125
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ32	OD Φ32	OD Φ32
Operation temperature range		°C	Heating: -5~16; Fan only: 16~20; Cooling: 20~43				
Standard controller			Wired controller				

Model			FMV-125NF(60Hz)	FMV-140NF(60Hz)	FMV-200NF(60Hz)	FMV-250NF(60Hz)	FMV-280NF(60Hz)
Power supply			1-phase,208-230V,60Hz				
Cooling capacity		kW	12.5	14.0	20.0	25.0	28.0
		Btu/h	42600	47800	68200	85300	95500
Heating capacity		kW	10.5	12.0	18.0	20.0	22.0
		Btu/h	36000	41000	61400	68200	75000
Power input	Cooling	W	455	455	1060x2	1126x2	1126x2
	Heating	W	455	455	1060x2	1126x2	1126x2
Airflow rate(H/M/L)		m³/h	2142/1870/1611	2142/1870/1611	2870/2620/2150	3005/2700/2250	3005/2700/2250
		CFM	1261/1101/948	1261/1101/948	1689/1542/1265	1766/1589/1324	1766/1589/1324
External static pressure(Min/Std/Max)		Pa	30/50/196	30/50/196	50/200/280	50/200/280	50/200/280
Sound pressure level(H/M/L)		dB(A)	54/52/50	53/50/48	54/53/51	55/54/52	55/54/52
Net dimension(WxHxD)		mm(in.)	1300x420x690(51-3/16x16-17/32x27-11/64)				1440x505x925(56-11/16x19-7/8x36-27/6)
Packing dimension(WxHxD)		mm(in.)	1436x450x768(56-17/32x17-23/32x30-1/4)				1509x550x990(59-13/32x21-21/32x38-31/32)
Net/gross weight		kg(lbs.)	69.5/76(153.2/167.5)				114/124(251/274)
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9/(Φ3/8/Φ5/8)				
	Drain piping	mm(in.)	Φ25(OD 63/64)		Φ32(OD 1-17/64)		
Standard controller			Wired controller				

- Notes:
- Nominal cooling capacities are based on the following conditions: outdoor air temperature: 33°CDB, 28°CWB, equivalent ref. piping: 7.5m(horizontal).
 - Nominal heating capacities are based on the following conditions: outdoor air temperature: 0°CDB, -2.9°CWB, equivalent ref. piping: 7.5m(horizontal).
 - Sound level is measured at 1.4m below the air outlet.
External static pressure is based on high speed indoor air flow.
Connection Conditions:
The following restrictions must be observed in order to maintain the indoor units connection to the same system.
* When outdoor-air processing units are connected, the total connection capacity must be within 50% to 100% of that of the outdoor units.
* When outdoor-air processing units and standard indoor units are connected, the total connection capacity of the outdoor-air processing units must not exceed 30% that of the outdoor units.
* Outdoor-air processing units can be used without indoor units.
* The fresh air processing unit is not available for R system & 8~26kW side discharge outdoor units.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Wall-mounted



Various selections

K panel and S panel.

Auto swing louver

The Auto Swing Louver function ensures that the air direction corresponds to the mode selected.



Precise flow control

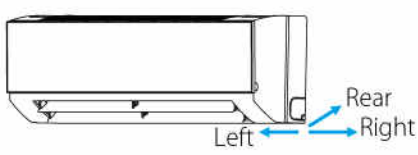
A 2000-stage element mechanical expansion valve ensures precise flow control whilst generating little modulation noise.

High efficiency and low sound operation

K type products adopt DC brushless fan motor. The units operate in higher efficiency and lower sound level.

Convenient installation

Multi-directional refrigerantoutlet pipe: left\rright\rrear, more flexible for installation.
EXV is built-in the indoor unit, compact size.
Adopts new type fixing plate, stable and easy to install.



Specification

K panel

Model			FMV-22NGK	FMV-28NGK	FMV-36NGK	FMV-45NGK
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.4	3.2	4	5
Power input	Cooling	W	8	9	19	19
	Heating	W	8	9	19	19
Airflow rate (H/M/L)		m³/h	422/393/356	417/370/316	656/573/488	594/507/424
Sound pressure level (H/M/L)		dB(A)	31/30/29	31/30/29	33/32/30	35/33/31
Net dimension (WxHxD)		mm	835x280x203	835x280x203	990x315x223	990x315x223
Packing dimension (WxHxD)		mm	935x385x320	935x385x320	1085x420x335	1085x420x335
Net/ Gross weight		kg	8.4/12.1	9.5/13.1	11.4/15.5	12.8/16.9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ16.5			
Standard controller			Wireless remote controller			

Model			FMV-56NGK	FMV-71NGK	FMV-80NGK	FMV-90NGK
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	5.6	7.1	8	9
	Heating	kW	6.3	8	9	10
Power input	Cooling	W	27	49	53	82
	Heating	W	27	49	53	82
Airflow rate (H/M/L)		m³/h	747/648/547	1195/1005/809	1195/1005/809	1421/1067/867
Sound pressure level (H/M/L)		dB(A)	38/36/34	44/39/36	44/39/36	48/43/38
Dimension (WxHxD)		mm	990x315x223	1194x343x262	1194x343x262	1194x343x262
Packing (WxHxD)		mm	1085x420x335	1290x375x460	1290x375x460	1290x375x460
Net/ Gross weight		kg	12.8/16.9	17/22.4	17/22.4	17/22.4
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16.5			
Standard controller			Wireless remote controller			

S panel

Model			FMV-15NGS	FMV-22NGS	FMV-28NGS	FMV-36NGS	FMV-45NGS	FMV-56NGS
Power supply			1-phase,220-240V,50Hz	1-phase,220-240V,50Hz/60Hz				
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	kW	1.7	2.4	3.2	4	5	6.3
Power input	Cooling	W	28	28	28	28	45	45
	Heating	W	28	28	28	28	45	45
Airflow rate(H/M/L)		m³/h	427/389/336	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
Sound pressure level(H/M/L)		dB(A)	33/31/28	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Net dimension(WxHxD)		mm	915x290x230	915x290x230	915x290x230	915x290x230	1072x315x230	1072x315x230
Packing dimension(WxHxD)		mm	1020x390x315	1020x390x315	1020x390x315	1020x390x315	1180x415x315	1180x415x315
Net/gross weight		kg	12.4/15.9	13/16.8	13/16.8	13/16.8	15.1/19.5	15.1/19.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5
Standard controller			Wireless remote controller					

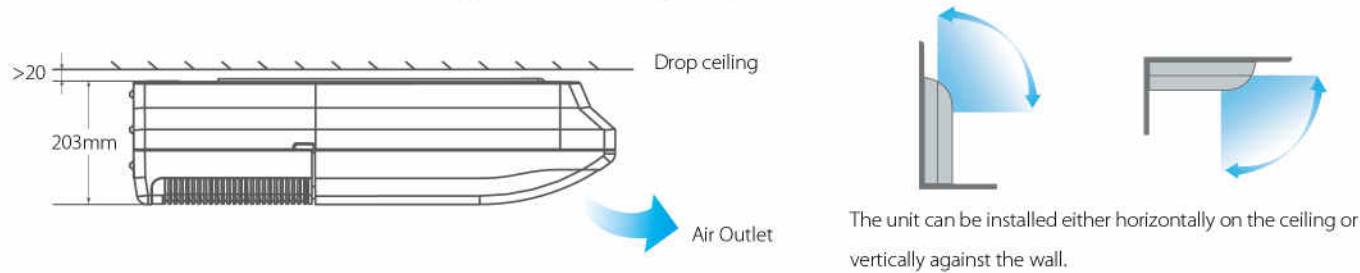
Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature.: 27°CDB, 19°CWB,outdoor temperature.: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB,equivalent ref. Piping: 7.5m(horizontal).
3. Sound level is measured 1m below the air outlet horizontally and vertically.

Ceiling & Floor



Convenient Installation

The slim and sleek structure design ensures easy installation.
It can be installed into a corner of the ceiling even if the ceiling is very narrow.



Auto Swing and Wide Angle Air Flow

Two direction auto swing - vertical and horizontal.
The range of horizontal air discharge is widened which secures wider air flow distribution to provide more comfortable air circulation no matter where the unit is set up.
Three air flow speeds: low, medium and high; double air guides.

More Comfortable

Adopts electrical expansion valve, ensuring precise flow control, lower modulation noise when EXV is operating.
Low noise operations; minimum 36 dB(A).
Smoother airflow and less turbulence due to the multi-blade fan and the air guide design.

Specification

Model			FMV-36NCF	FMV-45NCF	FMV-56NCF	FMV-71NCF	FMV-80NCF
Power supply			1-phase,220-240V,50Hz(60Hz)				
Capacity	Cooling	kW	3.6	4.5	5.6	7.1	8.0
	Heating	kW	4.0	5.0	6.3	8.0	9.0
Power input	Cooling	W	49(50)	120(148)	122(148)	125(148)	130(183)
	Heating	W	49(50)	120(148)	122(148)	125(148)	130(183)
Airflow rate(H/M/L)		m³/h	650/570/500	800/600/500	800/600/500	800/600/500	1,200/900/700
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38	45/43/40
Net dimension(WxHxD)		mm	990x203x660	990x203x660	990x203x660	990x203x660	1280x203x660
Packing dimension(WxHxD)		mm	1089x296x744	1089x296x744	1089x296x744	1089x296x744	1379x296x744
Net/gross weight		kg	26/32	28/34	28/34	28/34	34.5/41
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller				

Model			FMV-90NCF	FMV-112NCF	FMV-140NCF	FMV-160NCF
Power supply			1-phase,220-240V,50Hz(60Hz)			
Capacity	Cooling	kW	9.0	11.2	14.0	16.0
	Heating	kW	10.0	12.5	15.0	18.0
Power input	Cooling	W	130(183)	182(245)	182(245)	300(378)
	Heating	W	130(183)	182(245)	182(245)	300(378)
Airflow rate(H/M/L)		m³/h	1200/900/700	1980/1860/1730	1980/1860/1730	1980/1860/1730
Sound pressure level(H/M/L)		dB(A)	45/43/40	47/45/42	47/45/42	47/45/42
Net dimension(WxHxD)		mm	1280x203x660	1670x244x680	1670x244x680	1670x285x680
Packing dimension(WxHxD)		mm	1379x296x744	1764x329x760	1764x329x760	1775x377x760
Net/gross weight		kg	34.5/41	54/59	54/59	57.5/63.5
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller			

Notes:
1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB,outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(horizontal).
3. Floor standing: Sound level is measured 1m horizontally and 1m vertically from the air-outlet.
Ceiling mounted: Sound level is measured 1m horizontally and 1m vertically from the air-outlet.



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