MDV-1T202011

HVAC & Building Technologies Division

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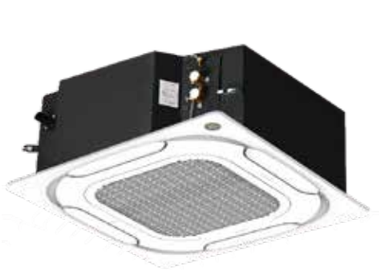
Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

HVAC BUILDING TECHNOLOGIES

2021

Fan Coil Units

AC FCU / DC FCU



MDV

MDV was created in 1999 under Midea’ s HVAC & Building Technologies Division as a professional climatic solution brand for sales via specialized air-conditioning companies. MDV’ s brand portfolio (range of products produced under MDV brand) consists of cutting-edge technology and commercial and industrial equipment. These include VRF (Variable Refrigerant Flow) systems, air source heat pump, chillers and fan-coils, compressor condensing units, light commercial air-conditioners, used in commercial segment. Focusing on the professional channel for more than 10 years, MDV brand is recognized worldwide as one “professional HVAC solutions” .

1999
Entered the HBT field

2004
Launched the first generation of AC fan coil unit.

2008
Launched the new generation of One-way cassette series and Four-way cassette series of AC fan coil unit

2014
Launched the first wall-mounted series of DC fan coil unit and entered the DC fan coil unit field.

2016
Acquire an 80% stake in Clivet.

2019
Launched the new generation of Ceiling &Floor.

2020
Launched the new generation of Wall Mounted.

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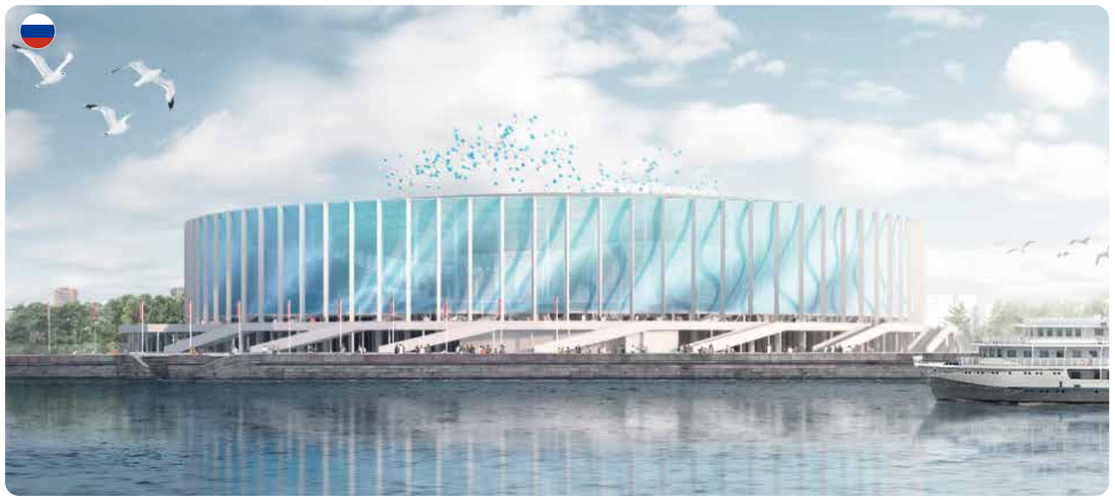
Introduction

MDV fan coil units are divided into ceiling exposed type, ceiling concealed type, wall-mounted type and floor-standing type according to their structure, design and installation method. The air volume ranges from 150CFM to 2200CFM (255m^3/h~3740m^3/h). It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.

Reference Projects

2018 Russia World Cup Stadiums
Nizhny Novgorod Stadium

- City: Nizhny Novgorod
- Product: Water-cooled Screw Chiller; Fan Coil Units



2018 Russia World Cup Stadiums
Volgograd Arena

- City: Volgograd
- Product: Water-cooled Screw Chiller; Fan Coil Units

The 27th Southeast Asian Games Stadium

- Country: Myanmar
- City: Nay Pyi Taw
- Outdoor Units: Water-cooled screw chiller
- Indoor Units: MAHU
- Total Capacity: 4,100RT

Beijing New International Airport

- Country: China
- City: Beijing
- Outdoor Units: Centrifugal chiller
- Indoor Units: FCU & MAHU
- Total Capacity: 10,000RT

Hilton Hotel in Foshan(Five Star)

- Country: China
- City: Foshan
- Outdoor Units: Centrifugal chiller & Water-cooled screw chiller
- Indoor Units: FCU & AHU
- Total Capacity: 4,500RT

Major Platinum Cineplex Laos

- Country: Laos
- City: Vientiane
- Outdoor Units: Centrifugal chiller& Water-cooled screw chiller
- Indoor Units: FCU & AHU
- Total Capacity: 2,000RT

Top Glove in Malaysia

- Country: Malaysia
- City: Klang
- Outdoor Units: Water-cooled screw chiller
- Indoor Units: FCU & AHU
- Total Capacity: 3,400RT

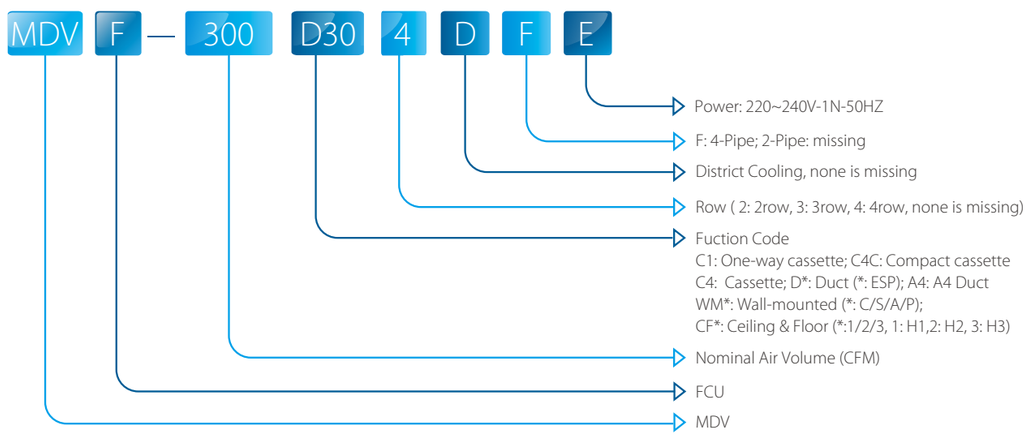
The Prime Minister Office Building

- Country: Tajikistan
- City: Dushanbe
- Outdoor Units: Water-cooled screw chiller
- Indoor Units: FCU & AHU
- Total Capacity: 2,880kW

AC Fan Coil Units

MDV Fan Coil Units have ceiling exposed type, ceiling concealed type, wall-mounted type and floor-standing type. The air volume ranges from 150CFM to 2200CFM. It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.

Nomenclature



Product Lineup

2-Pipe FCUs

Model		150	200	250	300	350	400	450	500	600		700	750	800	850	900	950	1000	1200	1400	1500	1600	1800	2000	2200
1-way cassette					●																				
4-way cassette										○			○		○		○		○		○				
Compact 4-way cassette					●		●		●																
Duct			○		○		○		○	○				○				○	○	○		○	○	○	
High static pressure Duct														●				●	●	●		●	●		●
Wall mounted				○	○		○		○	○															
2nd generation Ceiling&floor		●		●		●			●			●		●											

4-Pipe FCUs

Model		100	150	200	250	300	350	400	450		500	600	700	750	800	850	900	950	1000	1200	1400	1500
Compact 4-way cassette						●		●			●											
4-way cassette												○		○		○		○		○		○
Duct				●		●		●			●	●			●				●	●	●	
2nd generation Ceiling&floor			●		●		●				●		●		●							

Notes:
The standard power supply for all fan coil units is 220V-240V/50Hz; 208-230V/60Hz can be customized for some series of fan coil units, for further information, please contact with our salesmen.

AC Series Functions

Functions				One-way Cassette	Compact Four-way Cassette	Four-way Cassette	Wall Mounted	2nd Generation Ceiling & Floor	Medium Static Pressure Duct	High Static Pressure Duct
Control Customization	Follow me	With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in the wireless remote controller.		○(KJR-29B)	○(KJR-29B)	○(KJR-29B)	○(KJR-29B)	×	×	×
	Anti cold air	Prevent the unit from cold supply air when starting in winter.		●	●	●	●	×	×	×
	Auto-restart	The unit restarts automatically with the previous settings after power failure.		●	●	●	●	×	×	×
	Forced fan running	After reaching the set temperature, the valve body closes and the fan operates according to the set logic.		○	√	√	√	×	×	×
	Heat	Only electric auxiliary heating.		×	√	√	√	×	×	×
	Temperature compensation	Heating mode:T2=T1+ΔT; Cooling mode:T2=T1-ΔT T2: Indoor Temperature, T1: Setting Temperature, ΔT: Temperature Compensation		○	√	√	√	×	×	×
	XYE Port	Communicate with central controllers or BMS.		○(NIM-01)	●	●	●	○(FCU-kit)	○(FCU-kit)	○(FCU-kit)
	PQE Port	Communicate with Modbus.		×	○	○	○	×	×	×
	CCM18/CCM08/ CCM15/BMS/IMM	Central controllers and BMS.		○	●	●	●	○(FCU-kit)	○(FCU-kit)	○(FCU-kit)
	0-10V output control	By outputting a 0-10 V level, the opening of the valve body is controlled to meet different energy requirements.		×	○	○	○	×	×	×
	0-10V intput control	By inputting a 0- 10 V level to PCB, the fan motor speed is controlled to meet different energy requirements.		×	×	×	×	×	×	×
Structrue Customization	Right/Left piping connection	Left and right hand piping connections are optional, flexible installation.		×	×	×	×	●	●	●
	Electric auxiliary heating	Increase heating capacity with additional electric heater.		×	○	○	○	×	○	○
	Extended drainage pan	Drainage pan accessory.		×	×	×	×	×	○	×
	Auxiliary drainage pan			×	○	○	×	○	○	×

Note:
●: equipped as standard; ○: customization option; ×: without this function; √: switch setting

One-way Cassette

Model: 300 CFM

RM05
Standard

KJR-75A
Optional

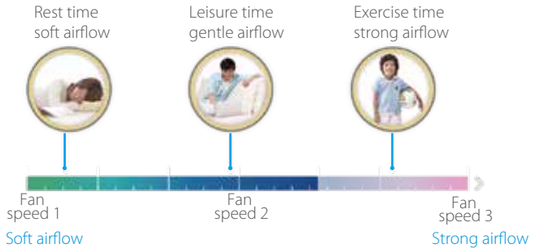
Features

- The central controllers can be connected through the customized Network Module MD-NIM01.
- Remote on/off function can be applied to turn on/off the unit.
- Wired controller KJR-75A is optional.
- Compact design, ultra slim body with a minimum thickness of 153mm.
- Standard built-in drain pump with 750mm pump head.

One way cassette has a compact size, it's suitable for applicaion in narrow space such as the aisle, small office, elevator space etc.

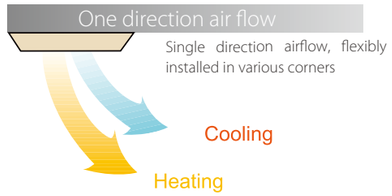
Multiple Fan Speeds

The AC Series comes with 3 fan speed option to meet the needs of different indoor conditions.



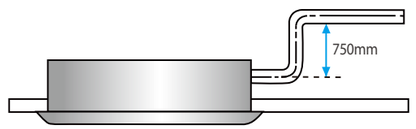
One Direction Air Flow

One direction air flow guarantees quick cooling, flexible installation positioning.



High-lift Pump

Standard built-in drain pump with 750mm pump head.

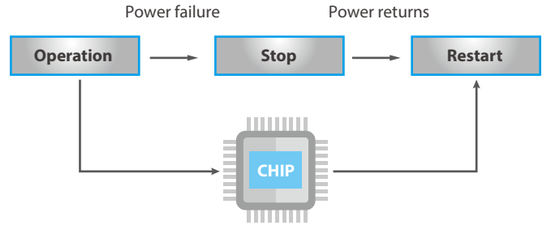


Minimum 153 mm thickness

Compact design, ultra slim body with a minimum thickness of 153mm, especially suitable for narrow ceiling, such as in lobbies and small meeting rooms.

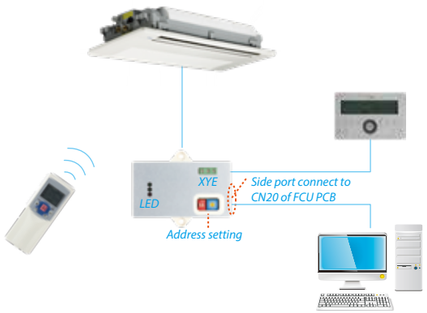
Auto restart

In the event of a sudden power failure during operation,unit restarts automatically and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



Control solutions

The fan coil units can be connected to MDV central controllers or BMS through the customized network module MD-NIM01.

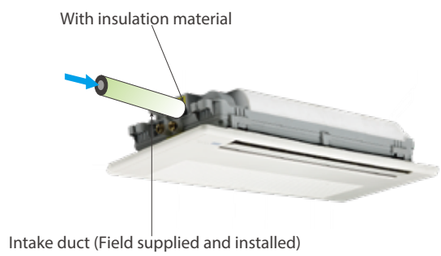


Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

Knock out hole is available in the unit.

Accessories such as booster fan must be supplied on field and installed.

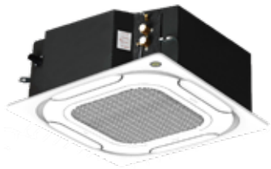


Specifications

Model				MDVF-300C1E
Air flow		H/M/L	m^3/h	472/360/297
		H/M/L	CFM	278/212/175
Cooling	Capacity	H/M/L	kW	2.55/1.96/1.63
	Water flow rate	H/M/L	m^3/h	0.46/0.35/0.29
	Water pressure drop	H/M/L	kPa	14.3/8.7/6.3
	Power input	H/M/L	W	45/42/41
Heating	Capacity	H/M/L	kW	3.1/2.62/2.26
	Water flow rate	H/M/L	m^3/h	0.56/0.47/0.41
	Water pressure drop	H/M/L	kPa	18/13.2/9.9
	Power input	H/M/L	W	37/34/33
Power supply			V/Ph/Hz	220-240/1/50
Current Input		H	A	0.15
Sound power level		H/M/L	dB(A)	58/53/49
Fan motor	Type			Low noise 3-speed fan motor
	Quantity			1
Fan	Type			Cross fan
	Quantity			1
Coil	Row			2
	Max. Working pressure		MPa	1.6
	Diameter		mm	Φ7
Panel	Dimensions	W×H×D	mm	1180x25x465
	Packing	W×H×D	mm	1232x107x517
	Net weight		kg	3.5
	Gross weight		kg	5.2
Body	Dimensions	W×H×D	mm	1054x155x428
	Net weight	*/A	kg	12.8/13.1
	Packing	W×H×D	mm	1155x245x490
	Gross weight	*/A	kg	16.6/17.1
Pipe connection	Water inlet/outlet pipe		inch	G1/2
	Drain pipe		mm	ODΦ25

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room.

Four-way Cassette



Model: 600/750/850/950/1200/1500 CFM

R05
Standard

KJR-29B
Optional

Features

- 4-way air supply panel as standard, new 360°air supply panel is optional.
- Fresh air intake, also supply to side room.
- Built-in PCB and drain pump with pump head-750mm.
- Remote controller with LED display is standard, wired controller is optional.
- Safety grill for safety maintenance.
- Optional extended drainage pan for protecting your ceiling better.
- Compatible with 0-10V output function(customized).
- Available for 2/4 pipe system
- EAH is optional (for 2-Pipe 4-Way Cassette).

360° airflow for immediate, equal distribution of wider-angle cooling and heating, ideal for standard ceilings.

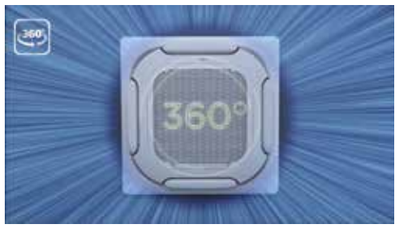
Stylish Panel with Large Airflow Outlet

4-way air supply panel is standard for 4-way cassette.
360°air supply panel is optional for 4-way cassette.

4-way panel **360°panel** **NEW 360°panel**

NEW 360° panel

New design, round air flow path ensures uniform air flow and temperature distribution.

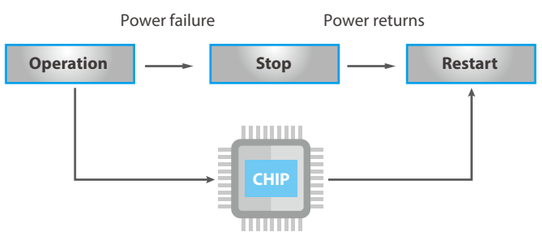


Individual louver control

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.

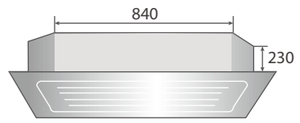
Auto restart

In the event of a sudden power failure during operation,unit restarts automatically and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



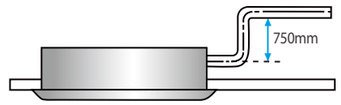
Various Selections

Versions for normal size.
The height of models 600 to 750 is just 230mm whilst models 850 to 1500 is 300mm, making the Four-way Cassette ideal for standard ceilings.



High-lift Drain Pump

A drain pump with a 750mm pump head is fitted as standard, simplifying installation of the drain piping.

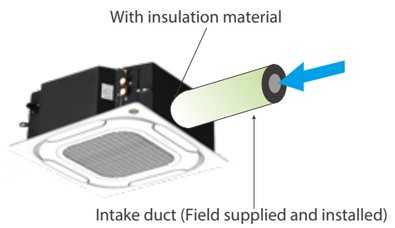


Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

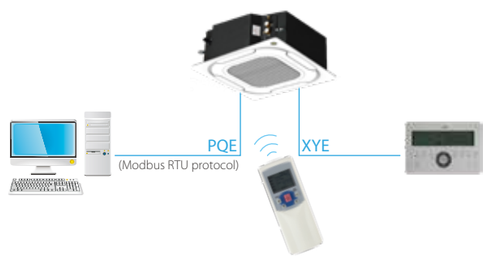
Knock out hole is available in the unit.

Accessories such as booster fan must be supplied on field and installed.



Control solutions

The fan coil units can be connected to MDV central controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.



2-Pipe 4-Way Cassette

Model			MDVF-600C4E	MDVF-750C4E	MDVF-850C4E
Power supply		V/ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1017/807/639	1241/977/810	1433/1100/946
		CFM	598/475/376	730/575/477	843/647/556
Cooling	Capacity (H/M/L)	kW	5.26/4.44/3.68	5.58/4.87/4.09	5.87/5.64/5.52
	Water flow rate(H/M/L)	m^3/h	0.95/0.8/0.66	1/0.88/0.74	1.06/1.02/0.99
	Water pressure drop(H/M/L)	kPa	29.9/17.9/13	30/20.1/15	35/34.2/17.6
Heating	Capacity (H/M/L)	kW	6.07/5.16/4.38	6.67/5.9/5.03	7.64/6.45/5.84
	Water flow rate(H/M/L)	m^3/h	1.1/0.94/0.8	1.21/1.07/0.91	1.39/1.17/1.06
	Water pressure drop(H/M/L)	kPa	28.4/21.4/19.9	37.2/23.4/18	28.3/22.8/18.9
Power input (H/M/L)		W	130/95/68	140/121/108	143/140/120
Electric heater (AEH)		W	2100	2100	2850
Sound Power level (H/M/L)		dB(A)	56/51/45	58/54/48	64/58/56
Fan motor	Type		Low noise 3-speed fan motor		
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×230×840	840×230×840	840×300×840
	Packing size (W×H×D)	mm	900×260×900	900×260×900	900×330×900
	Net weight (non-AEH/with-AEH)	kg	25/27	25/27	30.5/33
	Gross weight (non-AEH/with-AEH)	kg	30/32	30/32	36.2/39
Pipe connections	Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Model			MDVF-950C4E	MDVF-1200C4E	MDVF-1500C4E
Power supply		V/ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1562/1183/1013	1606/1276/1059	1690/1324/1091
		CFM	919/696/596	945/751/623	994/779/642
Cooling	Capacity (H/M/L)	kW	6.09/6.21/5.78	7.07/6.38/6.02	9.68/6.77/5.99
	Water flow rate(H/M/L)	m^3/h	1.1/1.12/1.04	1.27/1.15/1.08	1.74/1.22/1.27
	Water pressure drop(H/M/L)	kPa	27.1/22/18.1	45/45/45	40/27.2/25
Heating	Capacity (H/M/L)	kW	7.92/7.35/6.63	8.02/7.55/6.76	10.96/8.9/7.84
	Water flow rate(H/M/L)	m^3/h	1.44/1.34/1.21	1.46/1.37/1.23	1.99/1.62/1.42
	Water pressure drop(H/M/L)	kPa	31.7/26.2/22.1	45/45/45	50/35/25
Power input (H/M/L)		W	190/160/130	183/159/146	219/150/123
Electric heater (AEH)		W	2850	2850	/
Sound Power level (H/M/L)		dB(A)	65/63/57	72/64/60	65/58/54
Fan motor	Type		Low noise 3-speed fan motor		
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved blades		
	Quantity		1	1	1
Coil	Row		2	2	3
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Packing size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Net weight (non-AEH/with-AEH)	kg	30.5/33	30.5/33	31.8
	Gross weight (non-AEH/with-AEH)	kg	36.2/39	36.2/39	36
Pipe connections	Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room.
4. Electric heater is optional.

Model			MDVF-600C4FE	MDVF-750C4FE	MDVF-850C4FE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1123/749/587	1249/853/671	1304/1041/934
		CFM	661/441/345	735/502/395	767/612/549
Cooling	Capacity (H/M/L)	kW	4.14/3.63/2.97	4.43/3.72/3.07	4.73/3.97/3.61
	Water flow rate(H/M/L)	m^3/h	0.74/0.65/0.53	0.8/0.67/0.55	0.85/0.71/0.65
	Water pressure drop(H/M/L)	kPa	20/13/10	20.4/15/15	25/20/15
Heating	Capacity (H/M/L)	kW	5.99/4.56/3.77	6.14/4.64/3.93	6.21/5.2/4.8
	Water flow rate(H/M/L)	m^3/h	0.55/0.42/0.35	0.56/0.43/0.36	0.57/0.48/0.44
	Water pressure drop(H/M/L)	kPa	25/20/16	40/25/20	45/35/28.1
Power input (H/M/L)		W	124/89/68	172/86/63	187/161/144
Sound power level (H/M/L)		dB(A)	56/45/43	63/51/45	64/52/51
Fan motor	Type		Low noise 3-speed fan motor		
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Packing size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Net weight	kg	35	35	35
	Gross weight	kg	41	41	41
Pipe connections	Water inlet/outlet pipe	inch	Cold water: RC3/4; Hot water: RC1/2		
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Model			MDVF-950C4FE	MDVF-1200C4FE	MDVF-1500C4FE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1339/1112/1001	1618/1359/1053	1681/1457/1117
		CFM	787/654/589	952/800/620	989/857/657
Cooling	Capacity (H/M/L)	kW	4.96/4.25/3.88	7.32/6.36/5.48	8.86/7.29/6.37
	Water flow rate(H/M/L)	m^3/h	0.89/0.76/0.7	1.32/1.14/0.99	1.6/1.31/1.15
	Water pressure drop(H/M/L)	kPa	35/20/15	40/35/30	45.2/35/29.5
Heating	Capacity (H/M/L)	kW	6.5/5.34/4.96	8.76/7.76/6.98	10.34/7.91/7.5
	Water flow rate(H/M/L)	m^3/h	0.6/0.49/0.46	0.8/0.71/0.64	0.95/0.73/0.69
	Water pressure drop(H/M/L)	kPa	43.9/33.6/29.4	52.9/42.4/36	53.4/40.9/33.7
Power input (H/M/L)		W	190/155/141	197/155/130	267/231/184
Sound power level (H/M/L)		dB(A)	65/56/52	67/59/54	69/59/52
Fan motor	Type		Low noise 3-speed fan motor		
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	3	3
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Packing size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Net weight	kg	35	38	38
	Gross weight	kg	41	44	44
Pipe connections	Water inlet/outlet pipe	inch	Cold water: RC3/4; Hot water: RC1/2		
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 65°C, leaving water 55°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room.

Compact Four-way Cassette

Model: 300/400/500 CFM

R51
Standard

KJR-29B
Optional

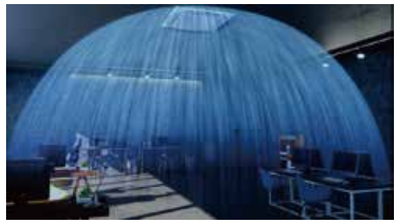
Features

- 360°air supply panel is standard.
- Fresh air intake, also supply to side room.
- Built-in PCB and drain pump with pump head-500mm.
- Remote controller with LED display is standard, wired controller is optional.
- Safety grill for safety maintenance.
- Optional extended drainage pan for protecting your ceiling better.
- Compatible with 0-10V output function(customized).
- Available for 2/4 pipe system.
- EAH is optional (for 2-Pipe Compact 4-Way Cassette).

Compact design allows installation in shallow ceilings.

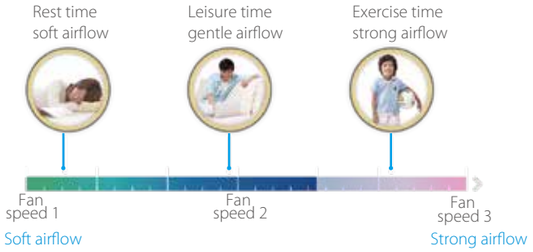
360 ° Airflow

The Compact Four-way Cassette's 360 ° air outlets provide strong airflow circulation to cool or heat every corner of a room and evenly control temperature.



Multiple Fan Speeds

The AC Series comes with 3 fan speed option to meet the needs of different indoor conditions.

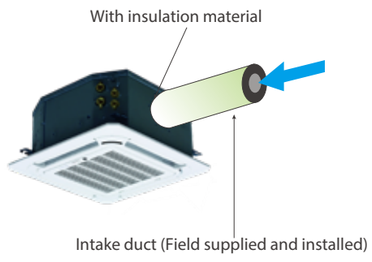


Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

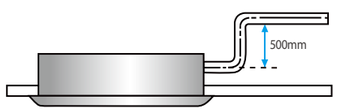
Knock out hole is available in the unit..

Accessories such as booster fan must be supplied on field and installed.



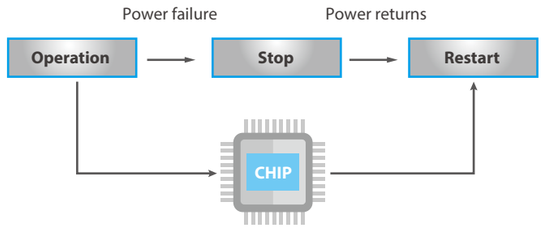
High-lift Drain Pump

A drain pump with a 500mm pump head is fitted as standard, simplifying installation of the drain piping.



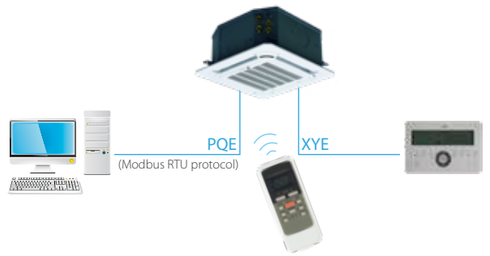
Auto restart

In the event of a sudden power failure during operation,unit restarts automatically and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



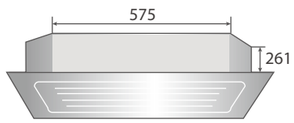
Control solutions

The fan coil units can be connected to MDV centralized controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.

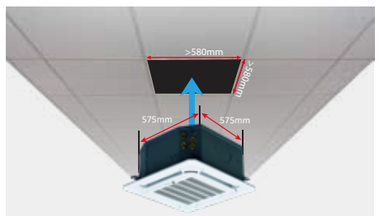


Compact design

The height of models 300 to 500 are just 261mm, making the Compact Four-way Cassette idea for standard ceilings.



Compact Four-way Cassette body dimension is only 575 mm x 575 mm which can easily fits into less to 585 mm ceiling grid.



2-Pipe Compact 4-Way Cassette

Model			MDVF-300C4CE	MDVF-400C4CE	MDVF-500C4CE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	478/375/283	625/499/392	756/535/423
		CFM	281/221/167	368/294/231	445/315/249
Cooling	Capacity (H/M/L)	kW	2.5/2.02/1.61	3.09/2.52/2.08	4.06/3.2/2.52
	Water flow rate(H/M/L)	L/h	0.45/0.36/0.29	0.56/0.45/0.37	0.73/0.58/0.45
	Water pressure drop(H/M/L)	kPa	15/15/10	15/15/10	20/15/10
Heating	Capacity (H/M/L)	kW	2.92/2.41/1.9	3.59/2.98/2.51	4.57/3.48/2.73
	Water flow rate(H/M/L)	m^3/h	0.53/0.44/0.34	0.65/0.54/0.46	0.83/0.63/0.5
	Water pressure drop(H/M/L)	kPa	15.4/15/10	20/15/10	20/15/15
Power input (H/M/L)		W	50/40/32	70/52/40	92/56/41
Auxiliary electric heater (AEH)		W	1000	1000	1000
Sound power level (H/M/L)		dB(A)	54/47/41	59/52/46	63/56/48
Fan motor	Type		Low noise 3-speed fan motor		
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	647×50×647	647×50×647	647×50×647
	Packing size (W×H×D)	mm	715×123×715	715×123×715	715×123×715
	Net weight	kg	2.5	2.5	2.5
	Gross weight	kg	4.5	4.5	4.5
Body	Net dimensions (W×H×D)	mm	575×261×575	575×261×575	575×261×575
	Packing size (W×H×D)	mm	670×290×670	670×290×670	670×290×670
	Net weight	kg	16.5	16.5	16.5
	Gross weight	kg	20	20	20
Pipe connections	Water inlet/outlet pipe	inch	G3/4	G3/4	G3/4
	Drain pipe	mm	ODΦ25	ODΦ25	ODΦ25

4-Pipe Compact 4-Way Cassette

Model			MDVF-300C4CFE	MDVF-400C4CFE	MDVF-500C4CFE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	493/385/295	608/475/375	724/542/430
		CFM	290/226/174	358/279/221	426/319/253
Cooling	Capacity (H/M/L)	kW	2.18/1.78/1.48	2.39/2.2/1.61	2.59/2.26/1.81
	Water flow rate(H/M/L)	m^3/h	0.39/0.32/0.27	0.43/0.4/0.29	0.47/0.41/0.33
	Water pressure drop(H/M/L)	kPa	25/20/20	20/20/13	25/20/15
Heating	Capacity (H/M/L)	kW	2.91/2.42/1.97	3.5/2.91/2.43	3.96/3.17/2.73
	Water flow rate(H/M/L)	m^3/h	0.27/0.22/0.18	0.32/0.27/0.22	0.36/0.29/0.25
	Water pressure drop(H/M/L)	kPa	25/20/15	30/25/20	30/30/25
Power input (H/M/L)		W	50/40/32	70/50/35	93/56/41
Sound power level (H/M/L)		dB(A)	54/47/41	59/52/46	63/56/48
Fan motor	Type		Low noise 3-speed fan motor		
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	647×50×647	647×50×647	647×50×647
	Packing size (W×H×D)	mm	715×123×715	715×123×715	715×123×715
	Net weight	kg	2.5	2.5	2.5
	Gross weight	kg	4.5	4.5	4.5
Body	Net dimensions (W×H×D)	mm	575×261×575	575×261×575	575×261×575
	Packing size (W×H×D)	mm	670×290×670	670×290×670	670×290×670
	Net weight	kg	16.5	16.5	16.5
	Gross weight	kg	20	20	20
Pipe connections	Water inlet/outlet pipe	inch	Cold water: G3/4; Hot water: G1/2		
	Drain pipe	mm	ODΦ25	ODΦ25	ODΦ25

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 65°C, leaving water 55°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room.

Duct series

Model: 200/300/400/600/800/1000/1200/1400 CFM

RM05+FCU KIT
Optional

KJRP-86I/MFK-E (Optional)
KJRP-86A/BMFNKD-E (Optional)

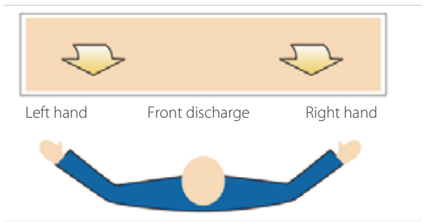
Features

- 2, 3 or 4 row for 2-pipe system and 3 row can be customization for 4-pipe system.
- Versions for standard, A4 and large difference temperature type.
- Washable filter: Iron frame filter is standard, and aluminum frame filter can be customized.
- Compatible with two types of air return: Back return is standard ,bottom return is optional.
- Left or right hand piping connections are easily change in filed.
- Available for fresh air intake.
- EAH is optional.

Slim, compact design for limited space with duct distribution to the indoor space.

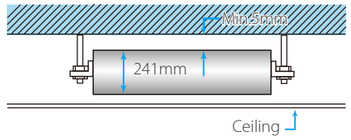
Flexible Installation

Left and right hand piping connections are optional, flexible installation.



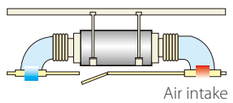
Compact Size

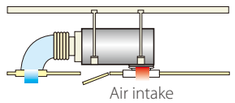
All the units are 241mm hight, easy for limited space to installation.



Flexible Air Inlet Port Installation

To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.

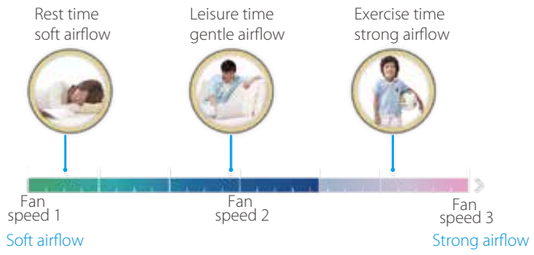




Extension water pan are optional to protect the ceiling from moisture.

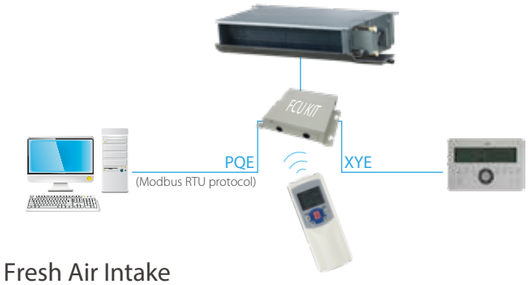
Multiple Fan Speeds

The AC Series comes with 3 fan speed option to meet the needs of different indoor conditions.



Control solutions

The duct series controlled by Wired controller, Central controller or BMS need to be customization FCU KIT.



Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

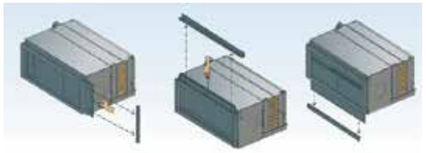
Knock out hole is available in the unit.

Accessories such as booster fan must be supplied on field and installed.

Washable filter

Iron frame filter is standard, and aluminum frame filter can be customized.

Air outlet flange and multi-direction pull-out filter can be customized.



2-Row Duct

Model			MDVF-200D302E	MDVF-300D302E	MDVF-400D302E	MDVF-500D302E	MDVF-600D302E
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	434/354/264	632/483/366	802/648/512	960/775/582	1166/906/703
		CFM	255/208/155	372/284/215	472/381/301	565/456/342	686/533/414
Standard external static pressure		Pa	G30 models: 30				
Cooling	Capacity (H/M/L)	kW	2.03/1.7/1.4	2.82/2.29/1.89	3.2/2.72/2.34	3.9/3.44/2.88	4.92/4.14/3.52
	Water flow rate(H/M/L)	m^3/h	0.36/0.31/0.25	0.51/0.41/0.34	0.58/0.49/0.42	0.7/0.62/0.52	0.89/0.75/0.63
	Water pressure drop(H/M/L)	kPa	11.9/11.1/9.2	19.8/14.5/10.5	26/20.3/15.7	34.3/27.4/20.5	18.5/14.8/11.2
Heating	Capacity (H/M/L)	kW	2.55/2.09/1.67	3.39/2.76/2.25	4.02/3.41/2.9	4.79/4.06/3.35	6.13/5.13/4.19
	Water flow rate(H/M/L)	m^3/h	0.46/0.38/0.3	0.62/0.5/0.41	0.73/0.62/0.53	0.87/0.74/0.61	1.12/0.93/0.76
	Water pressure drop(H/M/L)	kPa	9.5/7/4.8	21.8/15.9/10.9	29.9/23.3/17.3	39.7/31.4/22.4	25.3/19.4/14.2
Power input		W	55/51/45	79/64/53	92/80/69	119/96/76	141/119/103
Auxiliary electric heater (AEH)		W	550	650	1100	1100	1600
Sound power level(H/M/L)		dB(A)	58/55/50	58/54/48	57/52/50	65/59/52	64/60/53
Fan motor	Type		Low noise 3-speed fan motor				
	Quantity		1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades				
	Quantity		1	2	2	2	2
Coil	Row		2	2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522
Packing size (W×H×D)		mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550
Net weight (non-AEH/with-AEH)		kg	13.9/15.4	16.5/18	19.2/20.7	19.2/20.7	22/24
Gross weight (non-AEH/with-AEH)		kg	16.2/17.7	19/20.5	21.6/23.1	21.6/23.1	25/27
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Model			MDVF-800D302E	MDVF-1000D302E	MDVF-1200D302E	MDVF-1400D302E
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1463/1128/859	1800/1374/997	2271/1642/1089	2327/1767/1190
		CFM	860/664/506	1059/808/587	1336/966/641	1369/1039/700
Standard external static pressure		Pa	G30 models: 30			
Cooling	Capacity (H/M/L)	kW	6.6/5.47/4.45	7.82/6.44/5.34	9.85/8.67/6.13	10.89/9.49/7.49
	Water flow rate(H/M/L)	m^3/h	1.19/0.98/0.8	1.41/1.16/0.96	1.77/1.56/1.1	1.96/1.71/1.35
	Water pressure drop(H/M/L)	kPa	19.8/14.5/10.7	30.5/22.4/16.1	59.6/48.5/26.4	60.9/47.8/31.9
Heating	Capacity (H/M/L)	kW	7.95/6.58/5.32	9.36/7.76/6.21	12.04/9.89/6.84	12.66/10.92/8.14
	Water flow rate(H/M/L)	m^3/h	1.44/1.2/0.97	1.7/1.41/1.13	2.19/1.8/1.24	2.3/1.99/1.48
	Water pressure drop(H/M/L)	kPa	23.6/15.6/12.8	33/24.8/17.5	75.2/60.3/31.6	58.2/45.2/27.5
Power input		W	167/134/113	231/191/168	278/229/176	304/233/195
Auxiliary electric heater (AEH)		W	2200	2200	3200	3200
Sound power level(H/M/L)		dB(A)	62/57/51	65/60/54	67/61/57	70/65/59
Fan motor	Type		Low noise 3-speed fan motor			
	Quantity		2	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		4	4	4	4
Coil	Row		2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	1461×241×522	1566×241×522	1856×241×522	2022×241×522
Packing size (W×H×D)		mm	1510×260×550	1615×260×550	1905×260×550	2070×260×550
Net weight (non-AEH/with-AEH)		kg	30.9/33.4	33.4/36.4	38.5/42	42.1/46.1
Gross weight (non-AEH/with-AEH)		kg	34.5/37	37/40	42/45.5	47.5/51.5
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

"Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room."
4. The external static pressure test condition is 0 Pa.

3-Row Duct

Model			MDVF-200D3E	MDVF-300D3E	MDVF-400D3E	MDVF-500D3E	MDVF-600D3E	MDVF-800D3E	MDVF-1000D3E	MDVF-1200D3E	MDVF-1400D3E
Power supply		V/Ph/Hz	220-240/1/50								
Air flow (H/M/L)		m^3/h	401/363/300	576/467/391	707/532/404	898/652/419	1046/759/513	1362/1031/724	1697/1232/844	2121/1471/972	2541/1965/1123
		CFM	236/213/176	339/274/230	416/313/237	528/384/246	615/446/302	801/607/426	998/725/496	1248/865/572	1495/1156/661
Standard external static pressure		Pa	G12 models: 12								
Cooling	Capacity (H/M/L)	kW	1.97/1.84/1.57	2.93/2.51/2.21	3.62/2.92/2.34	4.39/3.51/2.73	5.77/4.57/3.36	7.99/6.68/4.8	8.45/6.74/4.99	10.66/8.23/5.94	13.18/11.36/7.77
	Water flow rate(H/M/L)	m^3/h	0.35/0.33/0.28	0.53/0.45/0.4	0.71/0.61/0.44	0.79/0.63/0.49	1.04/0.82/0.61	1.44/1.2/0.86	1.52/1.21/0.9	1.92/1.48/1.07	2.37/2.04/1.4
	Water pressure drop(H/M/L)	kPa	17.7/15.9/11.9	41/31.6/25.5	23.67/16.29/11.05	32/20.7/11.3	67/44.3/25.8	38.8/27.8/18.1	46/30.9/18	48/30.6/17	57.1/45.2/22.4
Heating	Capacity (H/M/L)	kW	2.39/2.23/1.74	3.45/2.94/2.57	4.17/3.37/2.71	4.9/3.89/2.78	6.13/4.86/3.56	8.88/7.24/5.48	9.29/7.41/5.56	11.35/8.77/6.42	15.36/12.72/8.29
	Water flow rate(H/M/L)	m^3/h	0.43/0.41/0.32	0.63/0.53/0.47	0.82/0.67/0.48	0.89/0.71/0.5	1.11/0.88/0.65	1.61/1.32/1	1.69/1.35/1.01	2.06/1.59/1.17	2.79/2.31/1.51
	Water pressure drop(H/M/L)	kPa	20.6/18.8/13.9	46.7/33.7/26.7	26.2/18.0212.19	35.3/20.1/11.3	60.7/40.2/22.7	37.3/26/15.7	45.3/30.5/17.9	44.5/28/16.1	60.9/46.7/20.7
Power input	12Pa (H/M/L)	W	40/37/33	63/52/45	85/66/55	101/85/70	124/101/83	154/120/98	202/168/141	250/197/163	273/224/175
Auxiliary electric heater (AEH)		W	550	600	1100	1100	1600	2000	2200	3200	3200
Sound power level	12Pa (H/M/L)	dB(A)	53/51/45	54/50/43	55/52/47	60/54/46	62/56/46	62/56/48	66/58/48	64/56/46	68/64/58
Fan motor	Type		Low noise 3-speed fan motor								
	Quantity		1	1	1	1	1	2	2	2	2
Fan	Type		Centrifugal, forward-curved Blades								
	Quantity		1	2	2	2	2	4	4	4	4
Coil	Row		3	3	3	3	3	3	3	3	3
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522	1461×241×522	1566×241×522	1856×241×522	2022×241×522
Packing size (W×H×D)		mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550	1510×260×550	1615×260×550	1905×260×550	2070×260×550
Net weight (non-AEH/with-AEH)		kg	14.6/16.1	17/18.5	20.2/21.7	20.2/21.7	23/25	31.9/34.4	34.4/37.4	39.5/43	43.1/47.1
Gross weight (non-AEH/with-AEH)		kg	16.9/18.4	19.5/21	22.6/24.1	22.6/24.1	26/28	35.5/38	38.1/41.1	43/46.5	48.4/52.4
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Model			MDVF-200D303E	MDVF-300D303E	MDVF-400D303E	MDVF-500D303E	MDVF-600D303E	MDVF-800D303E	MDVF-1000D303E	MDVF-1200D303E	MDVF-1400D303E
Power supply		V/Ph/Hz	220-240/1/50								
Air flow (H/M/L)		m^3/h	472/375/294	575/455/338	787/648/469	1014/764/552	1191/971/763	1454/1166/861	1865/1454/1062	2272/1840/1160	2680/1975/1192
		CFM	278/221/173	338/268/199	463/381/276	596/450/325	701/571/449	855/686/506	1097/855/625	1336/1082/682	1577/1162/701
Standard external static pressure		Pa	G30 models: 30								
Cooling	Capacity (H/M/L)	kW	2.21/1.86/1.55	2.92/2.49/1.97	4.05/3.52/2.72	5.12/4.37/3.55	6.49/5.68/4.74	8.31/7.1/5.66	8.84/7.49/5.96	10.98/9.5/7.19	13.53/11.38/7.83
	Water flow rate(H/M/L)	m^3/h	0.4/0.34/0.28	0.53/0.45/0.36	0.73/0.63/0.49	0.92/0.79/0.64	1.17/1.02/0.85	1.5/1.28/1.02	1.59/1.35/1.07	1.98/1.71/1.29	2.44/2.05/1.41
	Water pressure drop(H/M/L)	kPa	21.4/15.9/11.9	41/31.6/21	29.2/23/14.6	23.2/17.8/12.2	80.5/64.6/46.2	76.8/57.5/38.6	48.2/36.1/24.3	48.9/38/23.5	58.9/44.5/21.7
Heating	Capacity (H/M/L)	kW	2.68/2.27/1.9	3.45/2.89/2.3	4.6/3.99/3.11	6.12/4.98/3.9	6.97/6.05/5.05	8.53/7.31/5.85	9.88/8.34/6.63	11.89/10.32/7.8	15.7/12.53/8.2
	Water flow rate(H/M/L)	m^3/h	0.49/0.41/0.35	0.63/0.52/0.42	0.84/0.73/0.57	1.11/0.9/0.71	1.27/1.1/0.92	1.55/1.33/1.06	1.8/1.52/1.21	2.16/1.88/1.42	2.85/2.28/1.49
	Water pressure drop(H/M/L)	kPa	25.3/18.8/13.9	46.7/33.7/22.5	30.3/24.3/15.1	26.5/18.2/11.8	75.4/59.7/42.8	65/51.5/33.7	50.3/38/24.8	62.2/43.4/21.6	
Power input	30Pa (H/M/L)	W	63/54/47	84/72/62	97/90/80	142/90/77	135/120/108	178/163/145	220/179/153	267/222/180	319/222/174
Auxiliary electric heater (AEH)		W	550	600	1100	1100	1600	2000	2200	3200	3200
Sound power level	30Pa (H/M/L)	dB(A)	56/51/44	55/50/43	59/55/49	62/58/52	63/59/52	61/56/50	65/59/54	65/61/55	69/63/57
Fan motor	Type		Low noise 3-speed fan motor								
	Quantity		1	1	1	1	1	2	2	2	2
Fan	Type		Centrifugal, forward-curved Blades								
	Quantity		1	2	2	2	2	4	4	4	4
Coil	Row		3	3	3	3	3	3	3	3	3
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522	1461×241×522	1566×241×522	1856×241×522	2022×241×522
Packing size (W×H×D)		mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550	1510×260×550	1615×260×550	1905×260×550	2070×260×550
Net weight (non-AEH/with-AEH)		kg	14.6/16.1	17/18.5	20.2/21.7	20.2/21.7	23/25	31.9/34.4	34.4/37.4	39.5/43	43.1/47.1
Gross weight (non-AEH/with-AEH)		kg	16.9/18.4	19.5/21	22.6/24.1	22.6/24.1	26/28	35.5/38	38.1/41.1	43/46.5	48.4/52.4
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4

"Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room."
4. The external static pressure test condition is 0 Pa.

4-Row Duct

Model			MDVF-200D304E	MDVF-300D304E	MDVF-400D304E	MDVF-500D304E	MDVF-600D304E
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	452/369/275	639/494/373	784/634/500	948/766/578	1124/875/682
		CFM	266/217/162	376/290/220	461/373/294	557/451/340	661/515/401
Standard external static pressure		Pa	30	30	30	30	30
Cooling	Capacity (H/M/L)	kW	2.22/1.67/1.2	3.04/2.58/1.87	3.71/3.17/2.62	4.49/3.87/3.07	6.18/4.95/3.78
	Water flow rate(H/M/L)	m^3/h	0.4/0.3/0.22	0.55/0.46/0.34	0.67/0.57/0.47	0.81/0.7/0.55	1.11/0.89/0.68
	Water pressure drop(H/M/L)	kPa	5/5/5	10/5.4/3	15/9/8	20/16/15	30/22/16
Heating	Capacity (H/M/L)	kW	2.81/2.23/1.54	3.58/3.09/2.35	4.56/3.89/3.08	5.44/4.66/3.58	6.94/5.75/4.58
	Water flow rate(H/M/L)	m^3/h	0.51/0.41/0.28	0.65/0.56/0.43	0.83/0.71/0.56	0.99/0.85/0.65	1.26/1.04/0.83
	Water pressure drop(H/M/L)	kPa	5/3.5/5	10/5.5/3.5	15/9.5/8	22.6/20/15	28/20/15
Power input (H/M/L)		W	92/50/43	76/62/52	90/78/68	110/90/77	142/124/109
Electric heater (AEH)		W	500	600	1000	1000	1500
Sound power level		dB(A)	56/52/47	56/52/44	62/58/50	63/59/53	65/60/54
Fan motor	Type		Low noise 3-speed fan motor				
	Quantity		1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades				
	Quantity		1	2	2	2	2
Coil	Row		4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522
Packing size (W×H×D)		mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550
Net weight		kg	15.3	17.5	20.7	20.7	23.5
Gross weight		kg	17.6	20	23.1	23.1	26.5
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Model			MDVF-800D304E	MDVF-1000D304E	MDVF-1200D304E	MDVF-1400D304E
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1447/1119/857	1868/1397/1026	2213/1692/1074	2311/1756/1095
		CFM	851/658/504	1099/822/603	1302/995/632	1359/1033/644
Standard external static pressure		Pa	30	30	30	30
Cooling	Capacity (H/M/L)	kW	6.31/5.1/4.14	7.79/6.13/4.87	10.17/8.57/5.44	11.7/9.43/6.47
	Water flow rate(H/M/L)	m^3/h	1.14/0.92/0.75	1.4/1.1/0.88	1.83/1.54/0.98	2.11/1.7/1.16
	Water pressure drop(H/M/L)	kPa	15/7.5/5	18.3/12.1/8	33/24.8/11.4	35/23.9/15
Heating	Capacity (H/M/L)	kW	7.78/6.4/4.9	9.86/7.73/6.01	11.76/10.31/6.76	13.55/10.96/7.12
	Water flow rate(H/M/L)	m^3/h	1.41/1.16/0.89	1.79/1.4/1.09	2.14/1.87/1.23	2.46/1.99/1.29
	Water pressure drop(H/M/L)	kPa	15/10/6	20.6/13.9/8.2	36.1/20.9/13.2	37/26/17
Power input (H/M/L)		W	166/134/113	223/164/139	277/228/174	325/240/193
Electric heater (AEH)		W	2000	2000	3000	3000
Sound power level		dB(A)	62/57/51	66/61/55	68/63/56	69/63/57
Fan motor	Type		Low noise 3-speed fan motor			
	Quantity		2	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		4	4	4	4
Coil	Row		4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	1461×241×522	1566×241×522	1856×241×522	2022×241×522
Packing size (W×H×D)		mm	1510×260×550	1615×260×550	1905×260×550	2070×260×550
Net weight		kg	32.9	35.4	40.5	44.1
Gross weight		kg	36.5	39.1	44	49.4
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room."
4. The external static pressure test condition is 0 Pa.

A4 Type Duct

Model				MDVF-800A44E	MDVF-1000A44E	MDVF-1200A44E	MDVF-1400A44E
Air flow		H/M/L	m^3/h	1922/1862/1672	2137/2047/1931	2311/2123/1951	2480/1939/1777
		H/M/L	CFM	1130/1096/984	1257/1204/1136	1359/1249/1147	1459/1141/1045
External Static pressure			Pa	50	50	50	50
Cooling	Capacity	H/M/L	kW	9.59/9.35/8.92	9.84/9.66/9.37	11.5/10.65/10.02	12.6/10.88/10.28
	Water flow rate	H/M/L	m^3/h	1.73/1.68/1.61	1.77/1.74/1.69	2.07/1.92/1.8	2.27/1.96/1.85
	Water pressure drop	H/M/L	kPa	79.5/73.7/67.5	42.1/39.2/36.4	62/52.5/47.6	42.6/32.3/28.8
	Power input	H/M/L	W	208/185/164	224/195/183	455/389/347	469/326/288
Heating	Capacity	H/M/L	kW	10.96/10.68/10.01	11.56/11.24/10.81	12.22/11.51/10.78	13.51/11.32/10.69
	Water flow rate	H/M/L	m^3/h	1.97/1.92/1.8	2.08/2.02/1.95	2.2/2.07/1.94	2.43/2.04/1.92
	Water pressure drop	H/M/L	kPa	79.1/76.9/69.2	46.1/44.6/41.5	52/47.8/41.8	39.8/28.7/25.5
	Power input	H/M/L	W	208/194/172	224/206/193	455/389/347	469/331/290
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Sound pressure level		H/M/L	dB(A)	48.4/47.9/46.6	49.5/48.1/47.3	50.9/50/48.5	51.7/50/49.5
Fan motor	Type			Low noise 3-speed fan motor			
	Model			YSK105-6SC	YSK150-6SC	YSK230-4SC	YSK230-4SC
	Quantity			1	1	1	1
Fan	Type			Centrifugal, forward-curved Blades			
	Quantity			2	2	2	2
Coil	Row			4	4	4	4
	Max. Working pressure		MPa	1.6	1.6	1.6	1.6
	Coil length x height		mm	885x305	885x305	1085x305	1085x305
	Fin spacing		mm	2.2	2.2	2.2	2.2
	Fin type			Hydrophilic aluminum			
	Number of circuits			4	6	8	8
	Diameter		mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Body	Dimensions	W×H×D	mm	1180x340x612	1180x340x612	1369x340x612	1369x340x612
	Packing	W×H×D	mm	1310x380x693	1310x380x693	1490x380x693	1490x380x693
	Net weight		kg	39.3	40.8	46.3	46.3
	Gross weight		kg	47	49.6	56.4	56.4
Pipe connection	Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
	Drain pipe		mm	ODΦ24	ODΦ24	ODΦ24	ODΦ24

Model				MDVF-1600A44E	MDVF-1800A44E	MDVF-2000A44E
Air flow		H/M/L	m^3/h	2695/2164/1997	3490/2641/2310	3686/2780/2307
		H/M/L	CFM	1585/1273/1175	2053/1554/1359	2168/1635/1357
External Static pressure			Pa	50	50	50
Cooling	Capacity	H/M/L	kW	13.16/11.24/10.61	16.51/12.59/11.07	19.15/15.64/13.67
	Water flow rate	H/M/L	m^3/h	2.37/2.02/1.91	2.97/2.27/1.99	3.45/2.82/2.46
	Water pressure drop	H/M/L	kPa	70.9/54.1/49.1	239.6/150.4/117.8	283.3/199.2/159.7
	Power input	H/M/L	W	573/391/341	637/416/358	696/444/384
Heating	Capacity	H/M/L	kW	14.66/11.46/10.76	17.54/13.21/11.67	19.31/15.69/13.63
	Water flow rate	H/M/L	m^3/h	2.64/2.06/1.94	3.16/2.38/2.1	3.48/2.83/2.45
	Water pressure drop	H/M/L	kPa	65.5/49.8/43.7	241.9/146.1/115.5	283/193.9/151.5
	Power input	H/M/L	W	573/391/341	637/416/358	696/444/384
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Sound pressure level		H/M/L	dB(A)	52.9/50.7/50	53.6/51.1/50.2	54.4/52.7/51.6
Fan motor	Type			Low noise 3-speed fan motor		
	Model			YSK230-4SC	YSK360-4SC	YSK360-4SC
	Quantity			1	1	1
Fan	Type			Centrifugal, forward-curved Blades		
	Quantity			2	3	3
Coil	Row			4	4	4
	Max. Working pressure		MPa	1.6	1.6	1.6
	Coil length x height		mm	1085x305	1277x305	1277x305
	Fin spacing		mm	2.2	2.2	2.2
	Fin type			Hydrophilic aluminum		
	Number of circuits			8	8	8
	Diameter		mm	Φ9.52	Φ9.52	Φ9.52
Body	Dimensions	W×H×D	mm	1369x340x612	1500x340x612	1500x340x612
	Packing	W×H×D	mm	1490x380x693	1620x380x693	1620x380x693
	Net weight		kg	46.3	54.8	54.8
	Gross weight		kg	56.4	64.6	64.6
Pipe connection	Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4
	Drain pipe		mm	ODΦ24	ODΦ24	ODΦ24

Note:
1.H: high fan speed; M: medium fan speed; L: low fan speed.
2.Cooling conditions: Entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB,19°C WB.
  Heating conditions: Entering water 45°C, leaving water 40°C,enter air temperature 20°C.
3.Noise is tested in semi-anechoic test room.
4. The external static pressure test condition is 0 Pa.

District Cooling Duct

Model			MDVF-200D304DE	MDVF-300D304DE	MDVF-400D304DE	MDVF-500D304DE	MDVF-600D304DE	MDVF-800A44DE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	430/380/340	600/540/480	700/630/520	900/810/720	1160/1040/930	1400/1342/1200
		CFM	253/224/200	353/318/282	412/370/305	530/476/424	682/612/547	824/789/705
Standard external static pressure		Pa	30	30	30	30	30	50
Cooling	Capacity (H/M/L)	kW	2.05/1.742/1.55	2.61/2.21/1.98	4.03/3.42/3.06	4.57/3.88/3.47	6.39/5.43/4.85	6.93/5.89/5.26
	Water flow rate	L/h	196	249	385	437	610.6	662
	Water pressure drop	kPa	10	10	21	25	53.8	13.3
Power input (H/M/L)		W	47/38/33	65/52/46	78/62/55	92/74/64	116/93/81	144/115/101
Sound pressure level		dB(A)	38/33/27	39/34/28	39/35/29	41/35/30	42/36/31	48/47/46
Fan motor	Type		Low noise 3-speed fan motor					
	Quantity		1					
Fan	Type		Centrifugal, forward-curved blades					
	Quantity		1	2	2	2	2	2
Coil	Row		4					
	Max. working pressure	MPa	1.6					
	Diameter	mm	Φ9.52					
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522	1180x340x612
Packing size (W×H×D)		mm	790×260×550	890×260×550	990×260×550	990×260×550	1210×260×550	1310x380x693
Net weight		kg	15.3	17.5	20.7	20.7	23.5	39.3
Gross weight		kg	17.6	20	23.1	23.1	26.5	47
Water inlet/outlet pipe		inch	RC3/4					
Drain pipe		inch	ZG3/4					

Model			MDVF-1000A44DE	MDVF-1200A44DE	MDVF-1400A44DE	MDVF-1600A44DE	MDVF-1800A44DE	MDVF-2000A44DE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	1650/1527/1405	2040/1851/1666	2420/1850/1657	2430/1917/1742	3380/2239/1878	3660/2544/2199
		CFM	970/898/826	1200/1089/980	1424/1088/975	1431/1128/1025	1988/1317/1105	2153/1496/1295
Standard external static pressure		Pa	50	50	50	50	50	50
Cooling	Capacity (H/M/L)	kW	7.57/6.43/5.75	10.11/8.59/7.68	11.5/9.7/8.74	11.74/9.97/8.92	14.74/12.52/11.2	16.1/13.68/12.23
	Water flow rate	L/h	723	966	1099	1122	1408	1538
	Water pressure drop	kPa	16.3	21	25.3	27.8	37.9	48.1
Power input (H/M/L)		W	176/141/123	320/256/224	392/314/274	482/386/337	538/430/376	583/466/408
Sound pressure level		dB(A)	49/48/47	51/50/48	52/50/49	53/51/50	54/51/50	54/52/51
Fan motor	Type		Low noise 3-speed fan motor					
	Quantity		1					
Fan	Type		Centrifugal, forward-curved blades					
	Quantity		2	2	2	2	3	3
Coil	Row		4					
	Max. working pressure	MPa	1.6					
	Diameter	mm	Φ9.52					
Net dimensions (W×H×D)		mm	1180x340x612	1369x340x612	1369x340x612	1369x340x612	1500x340x612	1500x340x612
Packing size (W×H×D)		mm	1310x380x693	1490x380x693	1490x380x693	1490x380x693	1620x380x693	1620x380x693
Net weight		kg	40.8	46.3	46.3	46.3	54.8	54.8
Gross weight		kg	49.6	56.4	56.4	56.4	64.6	64.6
Water inlet/outlet pipe		inch	RC3/4					
Drain pipe		inch	ZG3/4					

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. The data are test under standard external static pressure.
3. Cooling conditions: entering water 5.5℃, temperature rise 9℃, entering air temperature 27℃ DB/19℃ WB.
4. Noise is tested in a semi-anechoic test room.
5. The external static pressure test condition is 0 Pa.

4-Pipe Duct

Model			MDVF-200D303FE	MDVF-300D303FE	MDVF-400D303FE	MDVF-500D303FE	MDVF-600D303FE
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	470/382/285	639/493/374	751/628/457	955/779/589	1204/955/719
		CFM	200/150/100	300/225/150	400/300/200	500/375/250	600/450/300
Standard external static pressure		Pa	G30 models: 30				
Cooling	Capacity (H/M/L)	kW	2.01/1.76/1.44	2.76/2.34/1.97	3.37/3.03/2.33	3.49/3.1/2.53	4.82/4.29/3.61
	Water flow rate(H/M/L)	m^3/h	0.36/0.32/0.26	0.5/0.42/0.35	0.61/0.55/0.42	0.63/0.56/0.46	0.87/0.77/0.65
	Water pressure drop(H/M/L)	kPa	11/9/6.5	23/17.3/12.7	58.7/55.2/51	142.2/113.4/79.7	24.7/19.9/14.8
Heating	Capacity (H/M/L)	kW	2.33/2.1/1.79	3.07/2.72/2.37	3.8/3.49/2.98	4.51/4.03/3.43	5.5/4.99/4.35
	Water flow rate(H/M/L)	m^3/h	0.21/0.19/0.16	0.28/0.25/0.22	0.35/0.32/0.27	0.41/0.37/0.32	0.5/0.46/0.4
	Water pressure drop(H/M/L)	kPa	8.5/7.2/5.8	13.8/11.3/9	18.4/16.2/12.3	31/22.7/17.8	50/42.2/33
Power input	30Pa (H/M/L)	W	61/53/47	76/65/57	88/81/72	108/89/77	136/121/106
Sound power level	30Pa (H/M/L)	dB(A)	60/55/46	56/51/44	59/55/48	62/58/52	63/58/52
Fan motor	Type		Low noise 3-speed fan motor				
	Quantity		1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades				
	Quantity		1	2	2	2	2
Coil	Row		3	3	3	3	3
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522	1161×241×522
Packing size (W×H×D)		mm	790×260×555	890×260×555	990×260×555	990×260×555	1210×260×555
Net weight		kg	15.1	17.5	20.7	20.7	23.5
Gross weight		kg	17.4	20	23.1	23.1	26.5
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Model			MDVF-800D303FE	MDVF-1000D303FE	MDVF-1200D303FE	MDVF-1400D303FE
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1349/1062/820	1749/1350/1006	2099/1698/1145	2226/1720/1173
		CFM	800/600/400	1000/750/500	1200/900/600	1400/1050/700
Standard external static pressure		Pa	G30 models: 30			
Cooling	Capacity (H/M/L)	kW	6.16/5.38/4.55	7.15/6.17/5.21	7.36/6.72/5.54	10.16/8.85/7.02
	Water flow rate(H/M/L)	m^3/h	1.11/0.97/0.82	1.29/1.11/0.94	1.32/1.21/1	1.83/1.59/1.26
	Water pressure drop(H/M/L)	kPa	26.3/20.6/15.5	32/24.4/18.1	41.3/34.9/24.7	74.8/58.3/39
Heating	Capacity (H/M/L)	kW	6.04/5.41/4.73	7.22/6.43/5.62	8.89/8.09/6.73	9.84/8.78/7.28
	Water flow rate(H/M/L)	m^3/h	0.55/0.5/0.43	0.66/0.59/0.52	0.82/0.74/0.62	0.9/0.81/0.67
	Water pressure drop(H/M/L)	kPa	11/8.9/10.4	17.3/14.2/11	27.6/23.3/16.9	33.6/27.6/20
Power input	30Pa (H/M/L)	W	169/144/127	224/197/177	270/234/195	308/238/197
Sound power level	30Pa (H/M/L)	dB(A)	62/57/50	66/60/54	66/62/56	66/62/57
Fan motor	Type		Low noise 3-speed fan motor			
	Quantity		2	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		4	4	4	4
Coil	Row		3	3	3	3
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	1461×241×522	1566×241×522	1856×241×522	2022×241×522
Packing size (W×H×D)		mm	1510×260×555	1615×260×555	1905×260×555	2070×260×555
Net weight		kg	32.4	34.9	40	43.6
Gross weight		kg	36	38.6	43.5	48.9
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 65℃, leaving water 55℃, Entering air temperature 20℃ DB.
3. Noise is tested in a reverberation chamber test room.
4. The external static pressure test condition is 0 Pa.

High Static Pressure Duct

Model: 800/1000/1200/1400/1600/1800/2200CFM

RM05+FCU KIT
Optional

KJRP-86I/MFK-E (Optional)
KJRP-86A/BMFNKD-E (Optional)

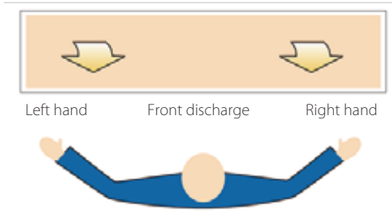
Features

- Large air volume and capacity, high static pressure(Up to 100Pa).
- Easy to clean and change air filter.
- EAH is optional.
- Air return flange and air plenum with filter are standard, air return from the back side.
- 220V wired controller is optional.
- Standard extended drainage pan for protecting ceiling better.
- Four-speed motor with super-high speed reserved.
- Pipe connection from left or right.

High external static pressure with long duct distribution, ideal for large sized spaces.

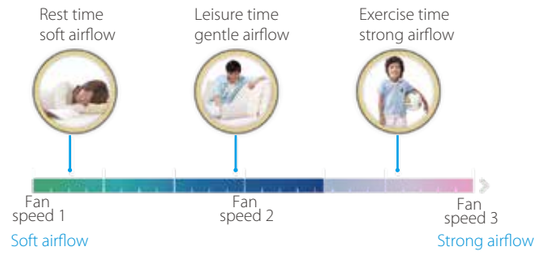
Flexible Installation

Left and right hand piping connections are optional, flexible installation.



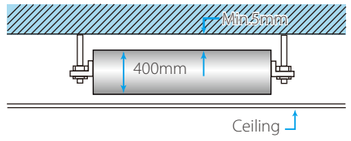
Multiple Fan Speeds

The AC Series comes with 3 fan speed option to meet the needs of different indoor conditions.



Compact Size

All the units are 400mm high, easy for limited space installation.

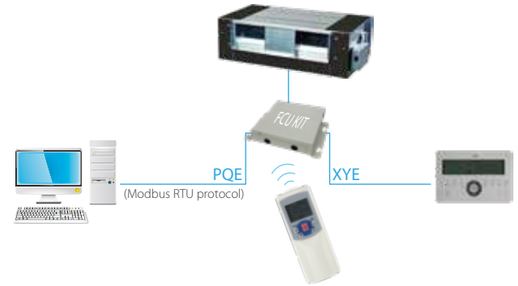


Easy to clean and change air filter

Changing the air filter only needs to loosen a screw at the air supply side to pull out the air filter, easy and effective operation.

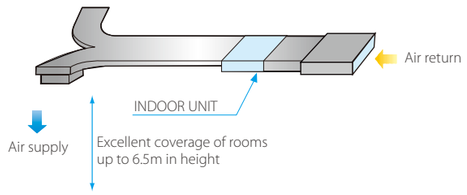
Control solutions

The duct series controlled by Wired controller, Centralized controller or BMS need to be customization FCU KIT.



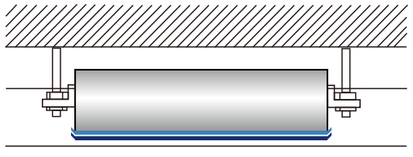
Flexible Duct Design

High Static Pressure Duct supplies a wide static pressure from 0Pa to 100Pa which can support short to long duct with high ceiling air supply.



Double-skin Drainage Pan

A double-skin drainage pan provides double protection for ceilings.



Electric heater is optional

Different models can be customized with different electrical auxiliary heat capacity.

High Static Pressure Duct

Model			MDVF-800D70E	MDVF-1000D70E	MDVF-1200D70E	MDVF-1400D70E
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1464/1453/1408	1507/1491/1397	1601/1557/1500	1659/1590/1501
		CFM	861/855/828	887/877/822	942/916/882	976/935/883
Standard external static pressure		Pa	70	70	70	70
Cooling	Capacity (H/M/L)	kW	5.4/5.27/5.08	7.75/7.56/6.98	8.03/7.8/7.49	10.41/10.11/9.69
	Water flow rate(H/M/L)	m^3/h	0.97/0.95/0.91	1.39/1.36/1.26	1.45/1.4/1.35	1.87/1.82/1.74
	Water pressure drop(H/M/L)	kPa	14.5/11.7/13.2	35.1/34/30.8	35.3/33.5/31.4	52.1/48.1/44.3
Heating	Capacity (H/M/L)	kW	8.09/7.82/7.42	9.62/9.28/8.85	10.33/10.02/9.17	11.15/10.46/9.65
	Water flow rate(H/M/L)	m^3/h	1.47/1.42/1.35	1.75/1.69/1.61	1.88/1.82/1.67	2.03/1.9/1.75
	Water pressure drop(H/M/L)	kPa	25.5/24.2/22.8	42.8/40.8/36.5	55.5/52.8/48.1	47.3/45.5/41.9
Power input (H/M/L)		W	391/375/348	382/363/343	386/372/355	380/364/347
Auxiliary electric heater (AEH)		W	5000	5000	5000	5000
Sound power level	Inlet	dB(A)	74/73/71	72/71/70	73/71/70	73/71/70
	Outlet	dB(A)	72/71/69	70/70/69	71/70/69	71/70/69
Fan motor	Type		Low noise 3-speed fan motor			
	Quantity		1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	1	1	1
Coil	Row		2	3	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions(W×H×D)		mm	946×400×816	946×400×816	946×400×816	946×400×816
Packing size (non-AEH/with-AEH) (W×H×D)		mm	Left connection: 1075×480×857/1075×480×925 Right connection: 1015×480×857/1015×480×925			
Net weight (non-AEH/with-AEH)		kg	50/53	52/55	52/55	54/57
Gross weight (non-AEH/with-AEH)		kg	55/58	57/60	57/60	59/62
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room."
4. The external static pressure test condition is the same as Eurovent conditions (External static pressure is different for each models).

Model			MDVF-1600D100E	MDVF-1800D100E	MDVF-2200D100E
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	2272/2126/1911	3177/2983/2327	3411/3034/2588
		CFM	1336/1251/1124	1869/1755/1369	2007/1785/1522
Standard external static pressure		Pa	100	100	100
Cooling	Capacity (H/M/L)	kW	12.99/12.02/11.04	15.25/13.42/12.38	16.71/15.15/13.58
	Water flow rate(H/M/L)	m^3/h	2.34/2.16/1.99	2.74/2.42/2.23	3.01/2.73/2.44
	Water pressure drop(H/M/L)	kPa	86/73.4/60.7	129/113/100.1	147.9/124.2/98.6
Heating	Capacity (H/M/L)	kW	14.07/12.91/11.78	18.23/16.84/14.76	19.94/17.26/15.25
	Water flow rate(H/M/L)	m^3/h	2.56/2.35/2.14	3.31/3.06/2.68	3.62/3.14/2.77
	Water pressure drop(H/M/L)	kPa	87.8/75.1/63	168/147/127.2	163.7/130.9/102
Power input (H/M/L)		W	546/475/415	782/683/606	887/755/628
Auxiliary electric heater (AEH)		W	9500	9500	9500
Sound power level	Inlet	dB(A)	68/67/65	74/72/70	75/72/69
	Outlet	dB(A)	66/65/62	72/70/68	73/70/67
Fan motor	Type		Low noise 3-speed fan motor		
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		2	2	2
Coil	Row		3	3	3
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52
Net dimensions(W×H×D)		mm	1290×400×809	1290×400×809	1290×400×809
Packing size (non-AEH/with-AEH) (W×H×D)		mm	Left connection: 1448×460×877/1448×460×950 Right connection: 1383×422×877/1368×460×950		
Net weight (non-AEH/with-AEH)		kg	76/82	76/82	76/82
Gross weight (non-AEH/with-AEH)		kg	83/89	83/89	83/89
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room."
4. The external static pressure test condition is the same as Eurovent conditions (External static pressure is different for each models).

Wall Mounted Series

Model: 250/300/400/500/600 CFM

R51
Standard

Features

- Display shut off (for Type A and P panels though Wireless Remote Controllers RM12F/BGF-E)
- Built-in 3-way electromagnetic valve.
- Remote controller as standard, wired controller is optional.
- Easy and low cost installation.
- The panel can be easily removed, simple maintenance and easy to change filter.
- Multi-directional outlet pipe feature: left\right\rear, to meet the needs of different rooms.
- Compatible with 0-10V output function(Customized).
- EAH is optional

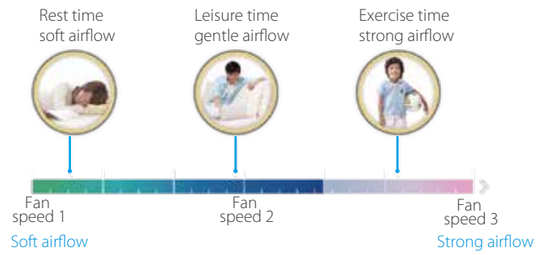
Stylish panel, ideal for rooms with no or narrow ceilings.

Digital Display On/Off

Indoor unit displays can be shut off at night, creating a better environment for rest.

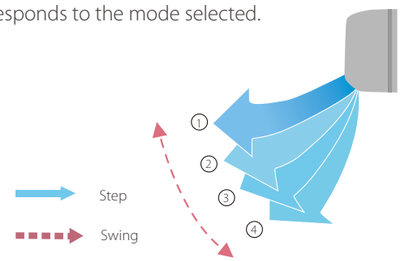
Multiple Fan Speeds

The AC Series supplies 3 indoor fan speeds to meet the needs of different indoor conditions.



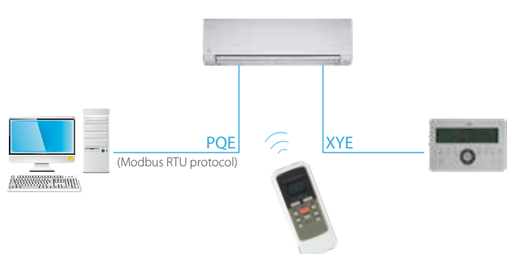
Auto Swing Louver

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



Control solutions

The fan coil units can be connected to MDV centralized controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.

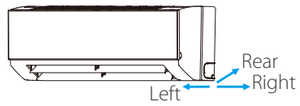


Variety stylish Panel

Variety stylish panel with three options (A Type, P Type and S Type), perfect fusion in all kinds of decoration.

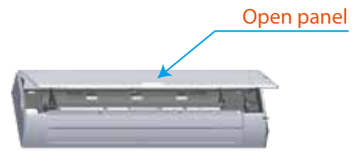
Flexible Pipe Outlet Direction

Multi-outlet pipe method for both water pipe and drain pipe: left/right/rear, more flexible for installation.



Easy Maintenance

Removable front panel making maintenance convenient.



Exposed Installation, No Need Ceilings

The Wall Mounted can be installed against a wall, no need ceilings, simplifying installation.

Wall Mounted（A Type）

Model			MDVF-250WMAE	MDVF-300WMAE	MDVF-400WMAE	MDVF-500WMAE	MDVF-600WMAE
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	435/396/342	523/426/351	660/534/480	841/723/594	915/836/714
		CFM	256/233/201	308/251/206	388/314/282	495/425/349	538/492/420
Cooling	Capacity (H/M/L)	kW	1.94/1.84/1.68	2.64/2.4/1.99	2.94/2.58/2.34	4.01/3.61/3.1	4.61/4.33/3.84
	Water flow rate(H/M/L)	m^3/h	0.35/0.33/0.3	0.47/0.43/0.36	0.53/0.46/0.42	0.72/0.65/0.56	0.83/0.78/0.69
	Water pressure drop(H/M/L)	kPa	31.6/28.6/25.2	37.5/30/24	57.2/47.6/38.7	47.1/33.5/29.7	51/39.5/34
Heating	Capacity (H/M/L)	kW	2.34/2.15/1.94	2.9/2.6/2.22	3.46/2.75/2.52	4.39/3.8/3.27	4.55/4.2/3.82
	Water flow rate(H/M/L)	m^3/h	0.43/0.39/0.35	0.53/0.47/0.4	0.63/0.5/0.46	0.8/0.69/0.6	0.83/0.76/0.69
	Water pressure drop(H/M/L)	kPa	35.2/34.9/30	39.3/31.5/25	70.8/55.1/46.2	48.6/40.8/31.7	48/43/33
Power input (H/M/L)		W	35/32/31	47/43/39	50/51/47	60/54/48	72/60/55
Auxiliary electric heater (AEH)		W	750	750	750	900	900
Sound power level		dB(A)	44/42/40	48/43/39	57/51/47	54/50/45	59/55/50
Fan motor	Type		Low noise 3-speed fan motor				
	Quantity		1	1	1	1	1
Fan	Type		Tangential fan	Tangential fan	Tangential fan	Tangential fan	Tangential fan
	Quantity		1	1	1	1	1
Coil	Row		2	2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ7
Net dimensions (WxHxD)		mm	915×290×233	915×290×233	915×290×233	1072×315×237	1072×315×237
Packing size (WxHxD)		mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315	1180×415×315
Net weight		kg	13	13	13.3	15.8	15.8
Gross weight		kg	16.3	16.3	16.7	19.4	19.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ20	ODΦ20	ODΦ20	ODΦ20	ODΦ20

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room.

Wall Mounted（P Type）

Model			MDVF-250WMPE	MDVF-300WMPE	MDVF-400WMPE	MDVF-500WMPE	MDVF-600WMPE
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	435/396/342	523/426/351	660/534/480	841/723/594	915/836/714
		CFM	256/233/201	308/251/206	388/314/282	495/425/349	538/492/420
Cooling	Capacity (H/M/L)	kW	1.94/1.84/1.68	2.64/2.4/1.99	2.94/2.58/2.34	4.01/3.61/3.1	4.61/4.33/3.84
	Water flow rate(H/M/L)	m^3/h	0.35/0.33/0.3	0.47/0.43/0.36	0.53/0.46/0.42	0.72/0.65/0.56	0.83/0.78/0.69
	Water pressure drop(H/M/L)	kPa	31.6/28.6/25.2	37.5/30/24	57.2/47.6/38.7	47.1/33.5/29.7	51/39.5/34
Heating	Capacity (H/M/L)	kW	2.34/2.15/1.94	2.9/2.6/2.22	3.46/2.75/2.52	4.39/3.8/3.27	4.55/4.2/3.82
	Water flow rate(H/M/L)	m^3/h	0.43/0.39/0.35	0.53/0.47/0.4	0.63/0.5/0.46	0.8/0.69/0.6	0.83/0.76/0.69
	Water pressure drop(H/M/L)	kPa	35.2/34.9/30	39.3/31.5/25	70.8/55.1/46.2	48.6/40.8/31.7	48/43/33
Power input (H/M/L)		W	35/32/31	47/43/39	50/51/47	60/54/48	72/60/55
Auxiliary electric heater (AEH)		W	750	750	750	900	900
Sound power level		dB(A)	44/42/40	48/43/39	57/51/47	54/50/45	59/55/50
Fan motor	Type		Low noise 3-speed fan motor				
	Quantity		1	1	1	1	1
Fan	Type		Tangential fan	Tangential fan	Tangential fan	Tangential fan	Tangential fan
	Quantity		1	1	1	1	1
Coil	Row		2	2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ7
Net dimensions (WxHxD)		mm	915×290×229	915×290×229	915×290×229	1072×315×232	1072×315×232
Packing size (WxHxD)		mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315	1180×415×315
Net weight		kg	13	13	13.3	15.8	15.8
Gross weight		kg	16.3	16.3	16.7	19.4	19.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ20	ODΦ20	ODΦ20	ODΦ20	ODΦ20

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room.

Wall Mounted (S Type)

Model			MDVF-250WMSE	MDVF-300WMSE	MDVF-400WMSE	MDVF-500WMSE	MDVF-600WMSE
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	435/396/342	523/426/351	660/534/480	841/723/594	915/836/714
		CFM	256/233/201	308/251/206	388/314/282	495/425/349	538/492/420
Cooling	Capacity (H/M/L)	kW	1.94/1.84/1.68	2.64/2.4/1.99	2.94/2.58/2.34	4.01/3.61/3.1	4.61/4.33/3.84
	Water flow rate(H/M/L)	m^3/h	0.35/0.33/0.3	0.47/0.43/0.36	0.53/0.46/0.42	0.72/0.65/0.56	0.83/0.78/0.69
	Water pressure drop(H/M/L)	kPa	31.6/28.6/25.2	37.5/30/24	57.2/47.6/38.7	47.1/33.5/29.7	51/39.5/34
Heating	Capacity (H/M/L)	kW	2.34/2.15/1.94	2.9/2.6/2.22	3.46/2.75/2.52	4.39/3.8/3.27	4.55/4.2/3.82
	Water flow rate(H/M/L)	m^3/h	0.43/0.39/0.35	0.53/0.47/0.4	0.63/0.5/0.46	0.8/0.69/0.6	0.83/0.76/0.69
	Water pressure drop(H/M/L)	kPa	35.2/34.9/30	39.3/31.5/25	70.8/55.1/46.2	48.6/40.8/31.7	48/43/33
Power input (H/M/L)		W	35/32/31	47/43/39	50/51/47	60/54/48	72/60/55
Auxiliary electric heater (AEH)		W	750	750	750	900	900
Sound power level		dB(A)	44/42/40	48/43/39	57/51/47	54/50/45	59/55/50
Fan motor	Type		Low noise 3-speed fan motor				
	Quantity		1	1	1	1	1
Fan	Type		Tangential fan	Tangential fan	Tangential fan	Tangential fan	Tangential fan
	Quantity		1	1	1	1	1
Coil	Row		2	2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ7
Net dimensions (W×H×D)		mm	915×290×230	915×290×230	915×290×230	1072×315×230	1072×315×230
Packing size (W×H×D)		mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315	1180×415×315
Net weight		kg	13	13	13.3	15.8	15.8
Gross weight		kg	16.3	16.3	16.7	19.4	19.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ20	ODΦ20	ODΦ20	ODΦ20	ODΦ20

Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB.
3. Noise is tested in a reverberation chamber test room."

2nd Generation Ceiling&Floor series

Model: 150/250/350/500/700/800 CFM

KJRP-86I/MFK-E (Optional)
KJRP-86A/BMFNKD-E(Optional)

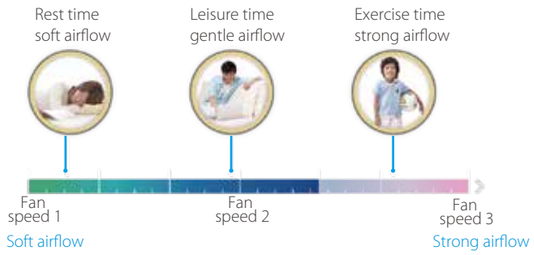
Features

- 3 or 4 rows coil are optional for whole series .
- 2-Pipe and 4-Pipe are optional for whole series.
- Ultra-thin with 200 mm thickness.
- Floor standing/Horizontal/ Concealed type installation available (For floor standing : The footing is optional).
- The wired controller(KJRP-86I/MFK-E or KJRP-86A/BMFNKD-E) can be installed inside the unit.

Floor standing unit with multi casing options can be installed quickly and easily in new or existing facilities in a variety of applications

Multiple Fan Speeds

The AC Series comes with 3 fan speed option to meet the needs of different indoor conditions.



Multiple Appearance Options

The Floor Standing Unit has three appearance options to meet different installation requirement, the H3 (concealed) unit is designed to be concealed in walls while the H1 (front air intake) and H2 (underside air intake) offer a choice of air intake options.

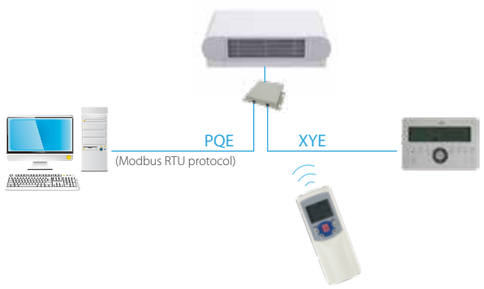
Concealed Type
H3 Series

Exposed Type
(air return from bottom)
H2 Series

Exposed Type
(air return from side)
H1 Series

Control solutions

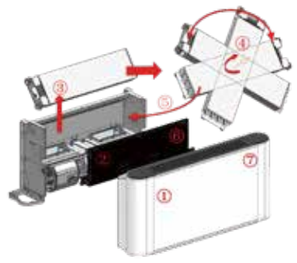
The fan coil units can be connected to MDV centralized controllers or BMS through the customized FCU KIT.



Wired Controller Easy Installation

A place for wired controller is reserved on the surface of the unit, KJRP-86I/MFK-E and KJRP-86A/BMFNKD-E can be perfectly installed.

Right/Left connection easy change



①Remove the cover

②Remove the drain pan

③Remove the heat changer

④Turn heat changer over 180°

⑤Install heat changer

⑥Install the drain pan

⑦Install the cover

Ease of Installation and Maintenance

The ceiling and floor unit offers exposed installation. The installation and maintenance is easy. The maintenance of the machine is quite easy and the key components can be accessed from the bottom of the machine.

Ceiling and Floor Installation Option

The unit is uniquely designed with the possibility to be installed beneath the ceiling or sitting on the floor to suit any interior design requirements.

2- Pipe 2nd Generation Ceiling&Floor

Model			MDVF-150CF13E	MDVF-150CF14E	MDVF-250CF13E	MDVF-250CF14E	MDVF-350CF13E	MDVF-350CF14E
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	245/160/135	245/180/130	380/245/140	380/250/160	580/435/310	580/430/310
		CFM	144/94/79	144/106/76	224/144/82	224/147/94	341/256/182	341/253/182
External static pressure		Pa	0					
Cooling	Total Capacity (H/M/L)	kW	1.58/1.17/1.04	2.16/1.78/1.35	2.51/1.92/1.32	2.72/2.02/1.41	3.75/3.10/2.40	4.09/3.29/2.41
	Water flow rate (H/M/L)	m^3/h	0.27/0.20/0.18	0.37/0.31/0.23	0.43/0.33/0.23	0.47/0.35/0.24	0.64/0.53/0.41	0.70/0.56/0.41
	Water pressure drop (H/M/L)	kPa	15.1/9.0/7.1	31.9/23.2/14.1	17.1/11.7/5.2	23.9/14.0/7.5	37.3/26.4/16.5	40.1/26.4/15.3
Heating	Capacity (H/M/L)	kW	1.77/1.24/1.08	2.26/1.79/1.36	2.80/2.01/1.38	2.81/2.04/1.43	3.99/3.21/2.41	4.19/3.34/2.45
	Water flow rate (H/M/L)	m^3/h	0.30/0.21/0.19	0.39/0.31/0.23	0.48/0.34/0.24	0.48/0.35/0.25	0.68/0.55/0.41	0.72/0.57/0.42
	Water pressure drop (H/M/L)	kPa	15.0/7.9/6.4	31.9/21.5/14.1	16.6/9.8/5.2	22.5/12.6/6.1	34.6/24.2/15.4	36.3/25.4/14.5
Power input (H/M/L)		W	35/17/14	40/24/15	47/26/14	47/26/15	51/32/19	51/32/19
Sound power level	(H/M/L)	dB(A)	47/36/34	52/47/39	47/38/32	48/39/33	52/45/37	52/45/37
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	790×495×211	790×495×211	1020×495×211	1020×495×211	1240×495×211	1240×495×211
	Packing size (WxHxD)	mm	895×595×300	895×595×300	1125×595×300	1125×595×300	1345×595×300	1345×595×300
	Net weight	kg	16.3	16.7	20.0	20.8	24.0	25.4
	Gross weight	kg	21.8	22.7	26.8	26.8	31.0	32.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-500CF13E	MDVF-500CF14E	MDVF-700CF13E	MDVF-700CF14E	MDVF-800CF13E	MDVF-800CF14E
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	780/550/380	780/560/390	1050/750/490	1050/800/520	1100/920/660	1050/910/670
		CFM	459/324/224	459/329/229	618/441/288	618/471/306	647/541/388	618/535/394
External static pressure		Pa	0					
Cooling	Total Capacity (H/M/L)	kW	4.59/3.75/2.88	5.21/4.14/3.22	5.29/4.43/3.27	6.16/5.29/3.87	6.22/5.50/4.36	6.66/6.07/4.74
	Water flow rate (H/M/L)	m^3/h	0.79/0.64/0.49	0.89/0.71/0.55	0.91/0.76/0.56	1.06/0.91/0.66	1.07/0.94/0.75	1.14/1.04/0.81
	Water pressure drop (H/M/L)	kPa	56.1/39.5/25.0	59.9/40.4/26.0	47.5/32.6/18.7	36.8/26.7/14.8	38.4/31.4/19.7	52.3/44.5/28.2
Heating	Capacity (H/M/L)	kW	5.13/3.90/2.96	5.33/4.25/3.23	5.42/4.50/3.35	6.53/5.30/3.92	6.94/6.00/4.62	6.86/6.13/4.76
	Water flow rate (H/M/L)	m^3/h	0.88/0.67/0.51	0.91/0.73/0.55	0.93/0.77/0.57	1.12/0.91/0.67	1.19/1.03/0.79	1.18/1.05/0.82
	Water pressure drop (H/M/L)	kPa	56.0/36.8/23.0	59.4/36.8/21.2	51.0/34.0/18.6	38.5/26.2/13.4	40.7/28.8/17.0	50.0/38.3/23.3
Power input (H/M/L)		W	91/54/34	92/54/35	124/98/68	117/93/66	118/93/65	110/81/70
Sound power level	(H/M/L)	dB(A)	61/52/43	61/52/43	65/57/46	65/57/47	66/61/52	65/61/52
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	1240×495×211	1240×495×211	1360×495×211	1360×495×211	1360×591×211	1360×591×211
	Packing size (WxHxD)	mm	1345×595×300	1345×595×300	1465×595×300	1465×595×300	1465×695×300	1465×695×300
	Net weight	kg	25.5	26.3	27.3	28.5	31.7	34.0
	Gross weight	kg	32.0	33.4	34.8	36.0	40.2	42.0
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
3. Noise is tested in a reverberation chamber.

2- Pipe 2nd Generation Ceiling&Floor

Model			MDVF-150CF23E	MDVF-150CF24E	MDVF-250CF23E	MDVF-250CF24E	MDVF-350CF23E	MDVF-350CF24E
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/165/142	255/192/139	400/273/180	425/284/184	595/447/319	595/450/319
		CFM	150/97/84	150/113/82	235/161/106	250/167/109	350/263/188	350/265/188
External static pressure		Pa	0					
Cooling	Total Capacity (H/M/L)	kW	1.65/1.22/1.09	2.25/1.85/1.40	2.65/2.02/1.40	3.05/2.26/1.58	3.85/3.19/2.46	4.20/3.38/2.48
	Water flow rate (H/M/L)	L/h	283/209/186	386/317/241	454/346/240	523/387/272	660/546/422	720/580/425
	Water pressure drop (H/M/L)	kPa	15.75/9.33/7.37	33.19/22.37/14.64	18.03/11.18/5.48	26.71/15.66/8.42	38.23/27.11/16.96	41.15/27.07/15.71
Heating	Capacity (H/M/L)	kW	1.85/1.29/1.13	2.35/1.87/1.42	3.05/2.24/1.52	3.15/2.28/1.60	4.10/3.30/2.48	4.30/3.43/2.52
	Water flow rate (H/M/L)	L/h	317/222/194	403/320/244	523/384/260	540/392/275	705/568/427	740/590/433
	Water pressure drop (H/M/L)	kPa	15.13/8.22/6.64	33.19/22.37/14.64	17.56/10.28/5.43	23.31/12.57/6.11	35.52/24.83/14.91	37.20/24.50/13.75
Power input (H/M/L)		W	35/17/14	40/24/15	47/26/14	47/26/14	51/32/19	51/32/19
Sound power level	(H/M/L)	dB(A)	47/35/34	53/47/39	46/37/31	47/38/32	52/44/36	52/45/37
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	790×495×200	790×495×200	1020×495×200	1020×495×200	1240×495×200	1240×495×200
	Packing size (WxHxD)	mm	895×595×300	895×595×300	1125×595×300	1125×595×300	1345×595×300	1345×595×300
	Net weight	kg	16.3	16.7	20.0	20.8	24.0	25.4
	Gross weight	kg	21.8	22.7	26.8	26.8	31.0	32.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-500CF23E	MDVF-500CF24E	MDVF-700CF23E	MDVF-700CF24E	MDVF-800CF23E	MDVF-800CF24E
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	790/560/392	800/574/404	1190/855/555	1150/885/591	1300/1088/782	1300/1132/836
		CFM	465/330/231	471/338/238	700/503/327	677/521/348	766/641/461	766/667/492
External static pressure		Pa	0					
Cooling	Total Capacity (H/M/L)	kW	4.65/3.80/2.92	5.35/4.25/3.31	6.00/5.03/3.71	6.75/5.80/4.24	7.35/6.51/5.15	8.25/7.52/5.87
	Water flow rate (H/M/L)	L/h	797/652/500	917/729/567	1029/862/636	1157/995/727	1260/1116/884	1414/1289/1007
	Water pressure drop (H/M/L)	kPa	56.85/40.02/25.31	61.48/41.44/26.62	53.79/36.96/21.16	40.26/29.20/16.15	45.43/37.06/23.29	64.72/55.03/34.88
Heating	Capacity (H/M/L)	kW	5.20/3.95/3.00	5.70/4.36/3.31	6.15/5.10/3.80	7.15/5.81/4.30	8.20/7.09/5.46	8.50/7.60/5.90
	Water flow rate (H/M/L)	L/h	894/679/516	977/747/569	1054/877/654	1226/996/740	1406/1216/937	1457/1302/1015
	Water pressure drop (H/M/L)	kPa	56.68/37.31/23.25	60.89/37.73/21.79	57.85/38.53/21.1	42.16/28.68/14.66	44.60/34.09/19.98	61.96/47.46/28.84
Power input (H/M/L)		W	91/54/34	91/54/35	123/98/68	110/89/64	123/109/83	118/104/82
Sound power level	(H/M/L)	dB(A)	59/51/43	59/51/43	64/56/45	62/56/46	63/58/50	63/58/50
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	1240×495×200	1240×495×200	1360×495×200	1360×495×200	1360×591×200	1360×591×200
	Packing size (WxHxD)	mm	1345×595×300	1345×595×300	1465×595×300	1465×595×300	1465×695×300	1465×695×300
	Net weight	kg	25.5	26.3	27.3	28.5	31.7	34.0
	Gross weight	kg	32.0	33.4	34.8	36.0	40.2	42.0
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
3. Noise is tested in a reverberation chamber.

Model			MDVF-150CF33E	MDVF-150CF34E	MDVF-250CF33E	MDVF-250CF34E	MDVF-350CF33E	MDVF-350CF34E
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/165/142	255/192/139	400/273/180	425/284/184	595/447/319	595/450/319
		CFM	150/97/84	150/113/82	235/161/106	250/167/109	350/263/188	350/265/188
External static pressure		Pa	12					
Cooling	Total Capacity (H/M/L)	kW	1.65/1.22/1.09	2.25/1.85/1.40	2.65/2.02/1.40	3.05/2.26/1.58	3.85/3.19/2.46	4.20/3.38/2.48
	Water flow rate (H/M/L)	L/h	283/209/186	386/317/241	454/346/240	523/387/272	660/546/422	720/580/425
	Water pressure drop (H/M/L)	kPa	15.75/9.33/7.37	33.19/22.37/14.64	18.03/11.18/5.48	26.71/15.66/8.42	38.23/27.11/16.96	41.15/27.07/15.71
Heating	Capacity (H/M/L)	kW	1.85/1.29/1.13	2.35/1.87/1.42	3.05/2.24/1.52	3.15/2.28/1.60	4.10/3.30/2.48	4.30/3.43/2.52
	Water flow rate (H/M/L)	L/h	317/222/194	403/320/244	523/384/260	540/392/275	705/568/427	740/590/433
	Water pressure drop (H/M/L)	kPa	15.13/8.22/6.64	33.19/22.37/14.64	17.56/10.28/5.43	23.31/12.57/6.11	35.52/24.83/14.91	37.20/24.50/13.75
Power input (H/M/L)		W	35/17/14	40/24/15	47/26/14	47/26/14	51/32/19	51/32/19
Sound power level	(H/M/L)	dB(A)	47/35/34	53/47/39	46/37/31	47/38/32	52/44/36	52/45/37
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	607×455×200	607×455×200	837×455×200	837×455×200	1057×455×200	1057×455×200
	Packing size (WxHxD)	mm	755×555×255	755×555×255	985×555×255	985×555×255	1205×555×255	1205×555×255
	Net weight	kg	11.6	12.0	13.9	14.8	17.3	18.2
	Gross weight	kg	15.9	16.3	19.4	20.3	24.0	24.9
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-500CF33E	MDVF-500CF34E	MDVF-700CF33E	MDVF-700CF34E	MDVF-800CF33E	MDVF-800CF34E
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	790/560/392	800/574/404	1190/855/555	1150/885/591	1300/1088/782	1300/1132/836
		CFM	465/330/231	471/338/238	700/503/327	677/521/348	766/641/461	766/667/492
External static pressure		Pa	12					
Cooling	Total Capacity (H/M/L)	kW	4.65/3.80/2.92	5.35/4.25/3.31	6.00/5.03/3.71	6.75/5.80/4.24	7.35/6.51/5.15	8.25/7.52/5.87
	Water flow rate (H/M/L)	L/h	797/652/500	917/729/567	1029/862/636	1157/995/727	1260/1116/884	1414/1289/1007
	Water pressure drop (H/M/L)	kPa	56.85/40.02/25.31	61.48/41.44/26.62	53.79/36.96/21.16	40.26/29.20/16.15	45.43/37.06/23.29	64.72/55.03/34.88
Heating	Capacity (H/M/L)	kW	5.20/3.95/3.00	5.70/4.36/3.31	6.15/5.10/3.80	7.15/5.81/4.30	8.20/7.09/5.46	8.50/7.60/5.90
	Water flow rate (H/M/L)	L/h	894/679/516	977/747/569	1054/877/654	1226/996/740	1406/1216/937	1457/1302/1015
	Water pressure drop (H/M/L)	kPa	56.68/37.31/23.25	60.89/37.73/21.79	57.85/38.53/21.1	42.16/28.68/14.66	44.60/34.09/19.98	61.96/47.46/28.84
Power input (H/M/L)		W	91/54/34	91/54/35	123/98/68	110/89/64	123/109/83	118/104/82
Sound power level	(H/M/L)	dB(A)	59/51/43	59/51/43	64/56/45	62/56/46	63/58/50	63/58/50
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (WxHxD)	mm	1057×455×200	1057×455×200	1177×455×200	1177×455×200	1177×500×200	1177×500×200
	Packing size (WxHxD)	mm	1205×555×255	1205×555×255	1325×555×255	1325×555×255	1325×650×255	1325×650×255
	Net weight	kg	17.9	18.8	20.5	21.7	24.0	25.2
	Gross weight	kg	24.6	25.5	27.3	28.5	31.1	32.3
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
3. Noise is tested in a reverberation chamber.
4. This series test with concealed tooling.

4-Pipe 2nd Generation Ceiling&Floor

Model			MDVF-150CF14FE	MDVF-250CF14FE	MDVF-350CF14FE	MDVF-500CF14FE	MDVF-700CF14FE	MDVF-800CF14FE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	245/180/130	380/250/160	580/430/310	780/560/390	1050/800/520	1050/910/670
		CFM	144/106/76	224/147/94	341/253/182	459/329/229	618/471/306	618/535/394
External static pressure		Pa	0					
Cooling	Total Capacity (H/M/L)	kW	1.87/1.54/1.10	2.58/1.83/1.12	3.99/3.27/2.29	4.92/3.95/3.12	5.84/5.10/3.65	6.18/5.65/4.44
	Water flow rate (H/M/L)	m^3/h	0.321/0.26/0.19	0.44/0.31/0.19	0.68/0.56/0.39	0.84/0.68/0.54	1.00/0.87/0.63	1.06/0.97/0.76
	Water pressure drop (H/M/L)	kPa	26.4/18.0/11.5	19.1/10.7/4.5	46.5/32.2/17.8	69.3/46.6/31.2	57.6/44.3/24.9	40.8/35.3/22.8
Heating	Capacity (H/M/L)	kW	1.62/1.35/1.10	2.19/1.52/1.06	2.88/2.44/1.95	3.55/2.97/2.44	4.25/3.74/2.91	5.90/5.8/5.05
	Water flow rate (H/M/L)	m^3/h	0.14/0.12/0.10	0.19/0.13/0.09	0.25/0.21/0.17	0.31/0.26/0.21	0.37/0.32/0.25	0.51/0.50/0.44
	Water pressure drop (H/M/L)	kPa	15.0/10.6/7.7	28.6/15.1/8.5	56.7/42.3/28.5	80.0/59.8/41.8	123.45/102.03/64.74	54.8/53.1/43.3
Power input (H/M/L)		W	40/24/15	47/26/15	51/32/19	92/54/35	117/93/66	110/81/70
Sound power level	(H/M/L)	dB(A)	52/47/39	48/39/33	52/45/37	61/52/43	65/57/47	65/61/52
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	790×495×211	1020×495×211	1020×495×211	1020×495×211	1360×495×211	1360×591×211
	Packing size (W×H×D)	mm	895×595×300	1125×595×300	1125×595×300	1125×595×300	1465×595×300	1465×695×300
	Net weight	kg	17.2	21.3	25.9	26.8	29.0	34.5
	Gross weight	kg	23.2	27.3	32.9	33.9	36.5	42.5
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-150CF24FE	MDVF-250CF24FE	MDVF-350CF24FE	MDVF-500CF24FE	MDVF-700CF24FE	MDVF-800CF24FE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/192/139	425/284/184	595/450/319	800/574/404	1150/885/591	1300/1132/836
		CFM	150/113/82	250/167/109	350/265/188	471/338/238	677/521/348	766/667/492
External static pressure		Pa	0					
Cooling	Sensible Capacity(H/M/L)	kW	1.50/1.20/0.78	2.05/1.39/0.84	2.94/2.38/1.60	3.80/2.95/2.25	4.90/4.25/2.95	5.85/5.28/4.05
	Total Capacity (H/M/L)	kW	1.95/1.60/1.15	2.89/2.05/1.25	4.09/3.35/2.35	5.05/4.05/3.20	6.40/5.59/4.00	7.65/7.00/5.50
	Water flow rate (H/M/L)	m^3/h	0.33/0.28/0.20	0.50/0.35/0.21	0.70/0.57/0.40	0.87/0.69/0.55	1.10/0.96/0.69	1.31/1.20/0.94
	Water pressure drop (H/M/L)	kPa	27.47/19.63/12.54	21.38/11.95/4.99	47.7/33.04/18.22	71.09/47.81/31.95	63.05/48.47/27.23	50.47/43.72/28.23
Heating	Capacity (H/M/L)	kW	1.69/1.40/1.15	2.45/1.70/1.19	2.95/2.50/2.00	3.64/3.05/2.50	4.65/4.09/3.19	7.30/7.19/6.25
	Water flow rate (H/M/L)	m^3/h	0.14/0.12/0.10	0.21/0.15/0.10	0.25/0.21/0.17	0.31/0.26/0.21	0.40/0.35/0.27	0.63/0.62/0.54
	Water pressure drop (H/M/L)	kPa	15.60/11.01/8.04	31.95/16.83/9.52	58.17/43.35/29.20	82.01/61.29/42.87	135.21/111.75/70.91	67.86/65.78/53.61
Power input (H/M/L)		W	40/24/15	47/26/14	51/32/19	91/54/35	110/89/64	118/104/82
Rated current		A	0.17/0.10/0.07	0.20/0.11/0.06	0.22/0.14/0.08	0.40/0.24/0.15	0.48/0.39/0.28	0.51/0.45/0.36
Sound power level	(H/M/L)	dB(A)	53/47/39	47/38/32	52/45/37	59/51/43	62/56/46	63/58/50
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	790×495×200	1020×495×200	1020×495×200	1020×495×200	1360×495×200	1360×591×200
	Packing size (W×H×D)	mm	895×595×300	1125×595×300	1125×595×300	1125×595×300	1465×595×300	1465×695×300
	Net weight	kg	17.2	21.3	25.9	26.8	29.0	34.5
	Gross weight	kg	23.2	27.3	32.9	33.9	36.5	42.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 65℃, leaving water 55℃, Entering air temperature 20℃ DB/15℃ WB.
3. Noise is tested in a reverberation chamber.

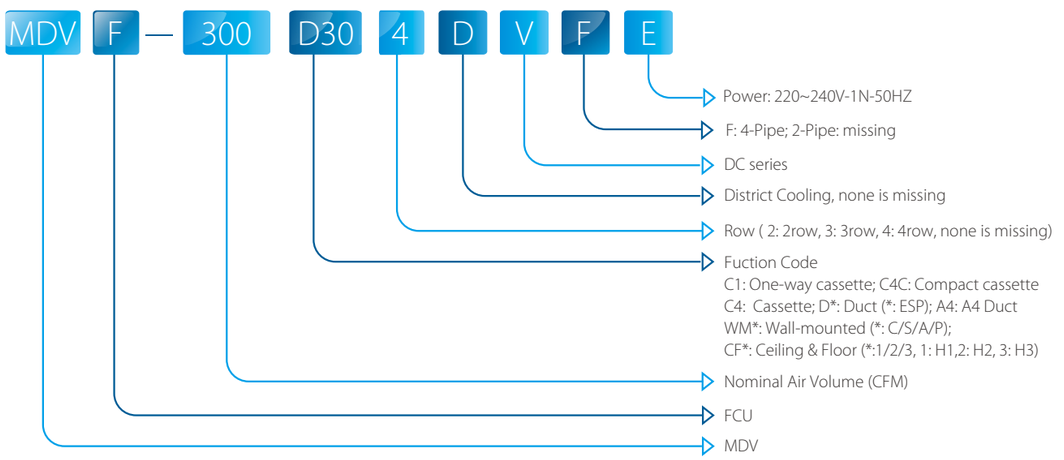
Model			MDVF-150CF34FE	MDVF-250CF34FE	MDVF-350CF34FE	MDVF-500CF34FE	MDVF-700CF34FE	MDVF-800CF34FE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/192/139	425/284/184	595/450/319	800/574/404	1150/885/591	1300/1132/836
		CFM	150/113/82	250/167/109	350/265/188	471/338/238	677/521/348	766/667/492
External static pressure		Pa	12					
Cooling	Sensible Capacity(H/M/L)	kW	1.50/1.20/0.78	2.05/1.39/0.84	2.94/2.38/1.60	3.80/2.95/2.25	4.90/4.25/2.95	5.85/5.28/4.05
	Total Capacity (H/M/L)	kW	1.95/1.60/1.15	2.89/2.05/1.25	4.09/3.35/2.35	5.05/4.05/3.20	6.40/5.59/4.00	7.65/7.00/5.50
	Water flow rate (H/M/L)	m^3/h	0.33/0.28/0.20	0.50/0.35/0.21	0.70/0.57/0.40	0.87/0.69/0.55	1.10/0.96/0.69	1.31/1.20/0.94
	Water pressure drop (H/M/L)	kPa	27.47/19.63/12.54	21.38/11.95/4.99	47.7/33.04/18.22	71.09/47.81/31.95	63.05/48.47/27.23	50.47/43.72/28.23
Heating	Capacity (H/M/L)	kW	1.69/1.40/1.15	2.45/1.70/1.19	2.95/2.50/2.00	3.64/3.05/2.50	4.65/4.09/3.19	7.30/7.19/6.25
	Water flow rate (H/M/L)	m^3/h	0.14/0.12/0.10	0.21/0.15/0.10	0.25/0.21/0.17	0.31/0.26/0.21	0.40/0.35/0.27	0.63/0.62/0.54
	Water pressure drop (H/M/L)	kPa	15.60/11.01/8.04	31.95/16.83/9.52	58.17/43.35/29.20	82.01/61.29/42.87	135.21/111.75/70.91	67.86/65.78/53.61
Power input (H/M/L)		W	40/24/15	47/26/14	51/32/19	91/54/35	110/89/64	118/104/82
Rated current		A	0.17/0.10/0.07	0.20/0.11/0.06	0.22/0.14/0.08	0.40/0.24/0.15	0.48/0.39/0.28	0.51/0.45/0.36
Sound power level	(H/M/L)	dB(A)	53/47/39	47/38/32	52/45/37	59/51/43	62/56/46	63/58/50
Fan motor	Type		AC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	607×455×200	837×455×200	1057×455×200	1057×455×200	1177×455×200	1177×550×200
	Packing size (W×H×D)	mm	895×595×300	1125×595×300	1345×595×300	1345×595×300	1465×595×300	1465×695×300
	Net weight	kg	12.5	15.3	18.7	19.3	22.2	25.7
	Gross weight	kg	16.8	20.8	25.4	26.0	29.0	32.8
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODΦ18.5					

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 65℃, leaving water 55℃, Entering air temperature 20℃ DB/15℃ WB.
3. Noise is tested in a reverberation chamber.
4. This series test with concealed tooling.

DC Fan Coil Units

MDV DC Fan Coil Units operate in high efficiency and low sound level due to the DC brushless fan motor. It contains cassette units, ceiling & floor units with or without cabinet, wall-mounted units and duct units. The air volume ranges from 150CFM to 1500CFM. It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.

Nomenclature



Product Lineup

2-Pipe FCUs

Model		150	200	250	300	350	400	450	500		600	700	750	800	850	900	950	1000	1200	1500
1-way cassette					●		●				●									
4-way cassette											○		○		○		○		○	○
Compact 4-way cassette					●		●		●											
Duct			○		○		○		○		○			○				○	○	
Wall mounted				●	●		●		●		●									
2nd generation Ceiling&floor		○		○		○			○			○		○						

4-Pipe FCUs

Model		150	200	250	300	350	400	500		600	700	750	800	850	950	1000	1200	1500
4-way cassette										●		●		●	●		●	●
Compact 4-way cassette					○		○	○										
2nd generation Ceiling&floor		●		●		●		●			●		●					

Notes:
The standard power supply for all fan coil units is 220V-240V/50Hz; 208-230V/60Hz can be customized for some series fan coil units. For further information, please contact with our salesmen.

DC Series Functions

Functions				One-way Cassette	Compact Four-way Cassette	Four-way Cassette	Wall Mounted	2nd Generation Ceiling & Floor	Duct
Control Customization	Follow me	With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in the wireless remote controller.		○(KJR-29B)	○(KJR-29B)	○(KJR-29B)	○(KJR-29B)	○(KJR-29B)	×
	Anti cold air	Prevent the unit from cold supply air when starting in winter.		●	●	●	●	●	×
	Auto-restart	The unit restarts automatically with the previous settings after power failure.		●	●	●	●	●	×
	Forced fan running	After reaching the set temperature, the valve body closes and the fan operates according to the setting.		√	○	√	√	√	×
	Heat	Only electric auxiliary heating.		×	×	×	×	×	×
	Temperature compensation	Heating mode:T2=T1+ΔT; Cooling mode:T2=T1-ΔT T2: Indoor Temperature, T1: Setting Temperature, ΔT: Temperature Compensation		√	○	√	√	√	×
	XYE Port	Communicate with central controllers or BMS.		○(XYE)	○(XYE)	○(XYE)	●	○(XYE)	○(FCU-kit)
	PQE Port	Communicate with Modbus.		○	○	○	○	○	×
	CCM18/CCM08/ CCM15/BMS/IMM	Central controllers and BMS.		○(XYE)	○(XYE)	○(XYE)	●	○(XYE)	○(FCU-kit)
	0-10V output control	By outputting a 0-10 V level, the opening of the valve body is controlled to meet different energy requirements.		×	×	×	○	×	×
	0-10V intput control	By inputting a 0- 10 V level to PCB, the fan motor speed is controlled to meet different energy requirements.		○	×	○	○	○	×
Structrue Customization	Right/Left piping connection	Left and right hand piping connections are optional, flexible installation.		×	×	×	×	●	●
	Electric auxiliary heating	Increase heating capacity with additional electric heater.		×	×	×	×	×	×
	Extended drainage pan	Drainage pan accessory.		×	×	×	×	×	○
	Auxiliary drainage pan			×	○	○	×	○	○

Note:
●: equipped as standard; ○: customization option; ×: without this function; √: switch setting

Advantage of Fan Coil Units with

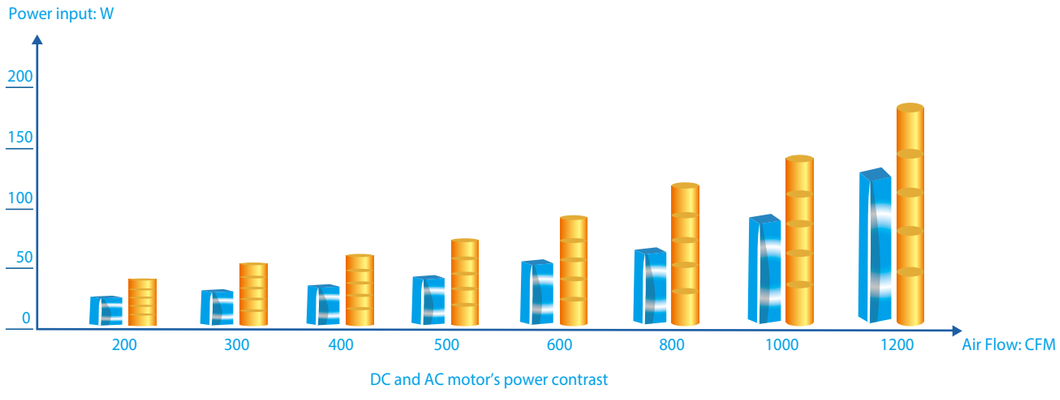
DC Brushless Fan Motor

The DC fan coil units are the new energy saving products improved with advanced DC driven technology. The DC fan coil units have advanced technology of high energy efficiency, low noise operation and precise temperature control, so are ideal for hospitals, office building, hotels, airports and various other applications.

DC driven motor

Energy Efficiency, Comply with CE Regulation

The power consumption of DC driven fan coil units can be reduced up to 30% in comparison to corresponding AC type.



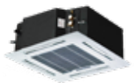
DC and AC motor's power contrast

Quiet Operation

Unit noise is 2-5dB(A) lower compared to an AC motor fan coil unit, creating a quiet living environment.

Versatile Selection

MDV DC Fan Coil Units contain cassette units, ceiling & floor units with or without cabinet, wall-mounted units and duct units. The air volume ranges from 150CFM to 1500CFM. It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.



Cassette unit

Wall-mounted unit

Duct unit

2nd Generation Ceiling&Floor

1-way cassette

One-way Cassette

Model: 300/400/600 CFM

RM05
Standard

KJR-75A
Optional

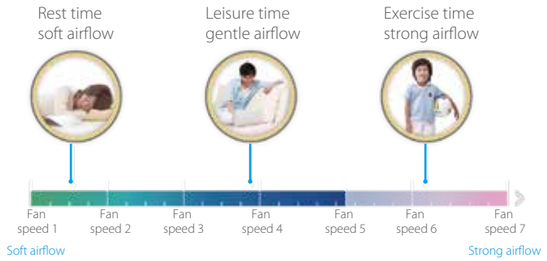
Features

- Auto mode and 7 fan speed (by 75A wired controller).
- Hysteresis temperature can be set in heating and cooling mode by PCB switch, field adjustable.
- With/without forced fan on can be set by PCB switch, field adjustable.
- The centralized control function can be connected through the XYE port (customized).
- Remote on/off function can be applied to turn on/off the unit.
- The Gateway(Modbus) can be connected through the PQE port(customized).
- Wired controller KJR-75A is optional.
- Compatible with 0-10V input function(customized).

One way cassette has a compact size, it's suitable for applicaion in narrow space such as the aisle, small office, elevator space etc.

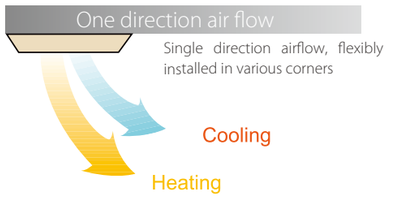
Multiple Fan Speeds

The DC Series comes with 3 fan speed option to meet the needs of different indoor conditions. (7 fan speed should be used KIR-75A wired controller)



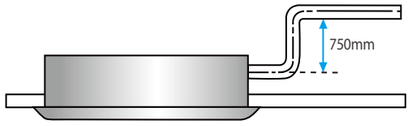
One Direction Air Flow

One direction air flow guarantees quick cooling, flexible installation positioning.



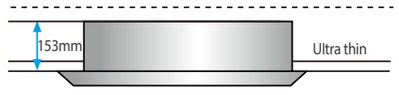
High-lift Pump

Standard built-in drain pump with 750mm pump head.



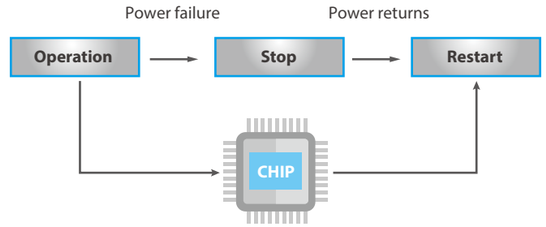
Min. 153mm Thickness

Compact design, ultra slim body with a minimum thickness of 153mm, especially suitable for narrow ceiling, such as in lobbies and small meeting rooms.



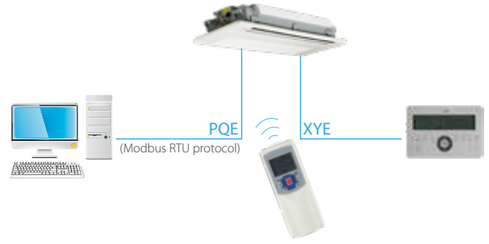
Auto restart

In the event of a sudden power failure during operation,unit restarts automatically and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



Control solutions

The fan coil units can be connected to MDV central controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.

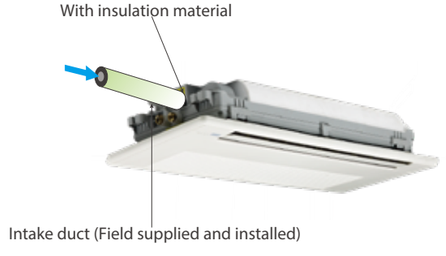


Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

Knock out hole is available in the unit.

Installation and accessories such as booster fan is f ield supplied and installed.

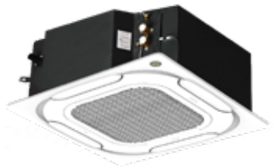


Specifications

Model			MDVF-300C1VE	MDVF-400C1VE	MDVF-600C1VE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	510/432/330	630/509/428	1000/786/583
		CFM	300/254/194	371/299/252	588/462/343
Cooling	Capacity (H/M/L)	kW	2.64/2.23/1.68	3.94/3.43/3.07	5.09/4.36/3.58
	Water flow rate(H/M/L)	m^3/h	0.49/0.42/0.33	0.6/0.52/0.45	0.87/0.7/0.55
	Water pressure drop(H/M/L)	kPa	8.63/6.26/3.69	23.85/18.07/14.8	38.22/28.95/19.41
	Power input(H/M/L)	W	22/18/14	23/19/17	38/27/19
Heating	Capacity (H/M/L)	kW	3.85/3.27/2.53	4.86/3.94/3.24	6.49/5.3/4.01
	Water flow rate(H/M/L)	m^3/h	0.5/0.42/0.32	0.59/0.49/0.42	0.86/0.67/0.48
	Water pressure drop(H/M/L)	kPa	7.72/5.75/3.28	20.12/15.50/12.42	32.36/24.57/16.37
	Power input(H/M/L)	W	16/11/8	16/12/10	31/20/12
Sound pressure level (H/M/L)		dB(A)	44.3/40.6/33.5	36.6/32.6/30.4	44.6/38.6/33.1
Fan motor	Type		DC motor	DC motor	DC motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	1180x25x465	1350x25x505	1350x25x505
	Packing size (W×H×D)	mm	1232x107x517	1410x95x560	1410x95x560
	Net weight	kg	3.5	4	4
	Gross weight	kg	5.2	5.4	5.4
Body	Net dimensions (W×H×D)	mm	1054x153x428	1275x189x450	1275x189x450
	Packing size (W×H×D)	mm	1155x245x490	1400×295×505	1400×295×505
	Net weight	kg	12.5	17.5	17.5
	Gross weight	kg	16.5	23.5	23.5
Pipe connections	Water inlet/outlet pipe	inch	G1/2	G1/2	G1/2
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB.
3. Noise is tested in a semi-anechoic test room.

Four-way Cassette



Model: 600/750/850/950/1200/1500 CFM

R05
Standard

KJR-29B
Optional

Features

- 4-way air supply panel as standard, new 360°air supply panel is optional.
- Fresh air intake. also supply to side room.
- Built-in PCB and drain pump with pump head-750mm.
- Remote controller with LED display is standard, wired controller is optional.
- Safety grill for safety maintenance.
- Optional extended drainage pan for protecting your ceiling better.
- Compatible with 0-10V input function(customized).
- Available for 2/4 pipe system

360° airflow for immediate, equal distribution of wider-angle cooling and heating, ideal for standard ceilings.

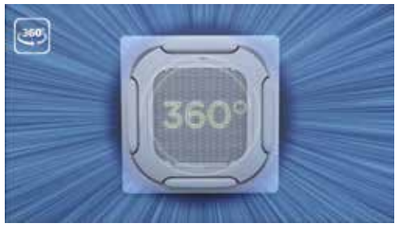
Stylish Panel with Large Airflow Outlet

4-way air supply panel is standard for 4-way cassette.
360°air supply panel is optional for 4-way cassette.

4-way panel **360°panel** **NEW 360°panel**

NEW 360° panel

New design, round air flow path ensures uniform air flow and temperature distribution.

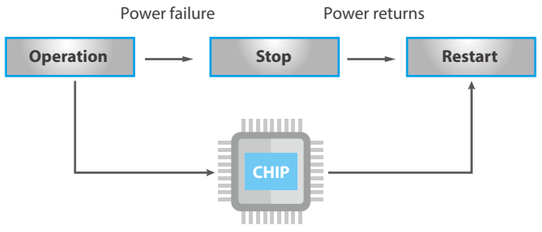


Individual louver control

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.

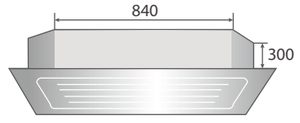
Auto restart

In the event of a sudden power failure during operation,unit restarts automatically and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



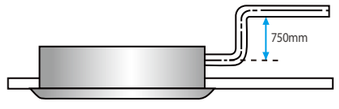
Various Selections

The height of models is 300mm,making the Four-way Cassette ideal for standard ceilings.



High-lift Drain Pump

A drain pump with a 750mm pump head is fitted as standard, simplifying installation of the drain piping.

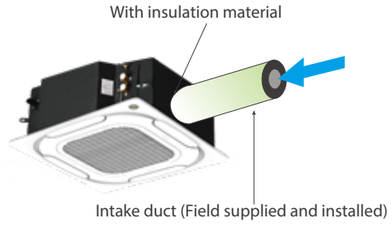


Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

Knock out hole is available in the unit.

Accessories such as booster fan must be supplied on field and installed.



Control solutions

The fan coil units can be connected to MDV central controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.

2-Pipe 4-Way Cassette

Model			MDVF-600C4VE	MDVF-750C4VE	MDVF-850C4VE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1175/987/768	1229/1020/810	1451/1146/1012
		CFM	691/580/451	722/600/476	853/674/595
Cooling[1]	Capacity (H/M/L)	kW	5.93/5.3/4.4	6.12/5.45/4.6	7.52/6.46/5.89
	Water flow rate(H/M/L)	m^3/h	1.06/0.92/0.77	1.10/0.96/0.81	1.37/1.18/1.07
	Water pressure drop(H/M/L)	kPa	19.2/15.4/11	21.3/21.3/12.4	20.1/15.3/12.6
	Power input(H/M/L)	W	41/27/17	49/31/20	68/37/30
Heating[2]	Capacity (H/M/L)	kW	6.06/5.72/5.32	6.27/5.88/5.43	7.88/7.48/6.76
	Water flow rate(H/M/L)	m^3/h	1.30/1.14/1.13	1.39/1.20/1.00	1.66/1.39/1.25
	Water pressure drop(H/M/L)	kPa	25.9/20.1/19.9	30/22.7/16.3	26.7/18.8/15.6
	Power input(H/M/L)	W	42/28/17	44/32/21	66/37/28
Heating[3]	Capacity (H/M/L)	kW	8.42/7.37/6.06	8.62/7.49/6.27	10.37/8.72/7.88
	Water flow rate(H/M/L)	m^3/h	1.06/0.92/0.77	1.10/0.96/0.81	1.37/1.18/1.07
	Water pressure drop(H/M/L)	kPa	16.9/12.7/8.6	19.1/14.8/10.6	18.2/13.6/11.1
	Power input(H/M/L)	W	42/28/17	49/31/19	67/37/28
Sound pressure level (H/M/L)		dB(A)	43/39/33	44/40/34	45/40/37
Fan motor	Type		DC Motor	DC Motor	DC Motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. Working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×230×840	840×230×840	840×300×840
	Packing size (W×H×D)	mm	900×237×900	900×237×900	900×330×900
	Net weight	kg	23	23	27
	Gross weight	kg	28	28	33
Pipe connections	Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Model			MDVF-950C4VE	MDVF-1200C4VE	MDVF-1500C4VE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1530/1224/1101	1581/1371/1236	1871/1415/1198
		CFM	900/720/647	930/806/727	1100/832/704
Cooling[1]	Capacity (H/M/L)	kW	7.84/6.84/6.35	7.87/7.12/6.67	11.19/8.82/7.48
	Water flow rate(H/M/L)	m^3/h	1.43/1.24/1.13	1.44/1.28/1.22	1.96/1.53/1.28
	Water pressure drop(H/M/L)	kPa	22/17/14.1	22.3/18.1/16.3	36.6/22.7/16.4
	Power input(H/M/L)	W	75/42/34	85/59/45	126/58/39
Heating[2]	Capacity (H/M/L)	kW	8.49/8/7.35	9.16/8.54/7.9	10.07/9.37/8.68
	Water flow rate(H/M/L)	m^3/h	1.71/1.45/1.33	1.73/1.57/1.46	2.35/1.86/1.59
	Water pressure drop(H/M/L)	kPa	28.1/20.7/17.4	28.8/24/20.7	49.2/31.2/23.3
	Power input(H/M/L)	W	76/43/33	86/59/45	128/58/38
Heating[3]	Capacity (H/M/L)	kW	10.86/9.24/8.49	10.92/9.84/9.16	14.92/11.73/10.07
	Water flow rate(H/M/L)	m^3/h	1.43/1.24/1.13	1.44/1.28/1.22	1.96/1.53/1.28
	Water pressure drop(H/M/L)	kPa	19.9/15.2/12.6	20/16.2/14.7	34.3/21.3/15
	Power input(H/M/L)	W	76/42/33	85/58/45	127/58/39
Sound pressure level (H/M/L)		dB(A)	46/42/39	48/44/41	49/43/39
Fan motor	Type		DC Motor	DC Motor	DC Motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	3
	Max. Working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Packing size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Net weight	kg	27	27	29.5
	Gross weight	kg	33	33	34.5
Pipe connections	Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Notes:
H:High fan speed; M: Medium fan speed; L: Low fan speed.
1:Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/19°C WB, entering/leaving water temperature 7°C /12°C.
2:Heating mode(1): (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C.
3:Heating mode(2): (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)
4:Noise is tested in a semi-anechoic test room.

4-Pipe 4-Way Cassette

Model			MDVF-600C4VFE	MDVF-750C4VFE	MDVF-850C4VFE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1184/997/783	1278/1057/855	1328/1052/927
		CFM	696/586/460	751/621/502	780/618/545
Cooling[1]	Capacity (H/M/L)	kW	4.96/4.383/3.642	5.178/4.563/3.875	5.129/4.413/4.06
	Water flow rate(H/M/L)	m^3/h	0.9/0.8/0.67	0.94/0.83/0.71	0.93/0.81/0.75
	Water pressure drop(H/M/L)	kPa	14.8/11.5/8.1	15.9/12.4/9	16/14.2/10.4
	Power input(H/M/L)	W	62/44/30	72/50/35	80/49/40
Heating[2]	Capacity (H/M/L)	kW	6.148/5.43/4.614	6.519/5.785/4.944	6.684/5.748/5.283
	Water flow rate(H/M/L)	m^3/h	0.58/0.52/0.45	0.61/0.55/0.47	0.62/0.54/0.50
	Water pressure drop(H/M/L)	kPa	25.3/20.5/14.5	32/25.7/19.1	32.6/24.7/21.2
	Power input(H/M/L)	W	56/36/21	67/42/25	75/41/31
Heating[3]	Capacity (H/M/L)	kW	6.94/6.217/5.266	7.374/6.533/5.6	7.657/6.584/6.033
	Water flow rate(H/M/L)	m^3/h	0.64/0.58/0.50	0.68/0.61/0.53	0.71/0.61/0.57
	Water pressure drop(H/M/L)	kPa	37.2/26.1/19.3	39.5/32.5/23.8	41.6/31.5/26.8
	Power input(H/M/L)	W	55/36/21	68/43/25	76/42/31
Sound power level	(H/M/L)	dB(A)	54/49/43	56/51/45	57/51/48
Sound pressure level	(H/M/L)	dB(A)	42/37/31	44/39/33	45/39/36
Rated current		A	0.48	0.6	0.72
Fan motor	Type		7	DC motor	DC motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Packing size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Net weight	kg	27.5	27.5	27.5
	Gross weight	kg	33.5	33.5	33.5
Pipe connections	Water inlet/outlet pipe	inch	Cold water: RC3/4; Hot water: RC1/2		
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Model			MDVF-950C4VFE	MDVF-1200C4VFE	MDVF-1500C4VFE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1403/1115/1001	1642/1421/1285	1708/1297/1096
		CFM	824/655/588	965/835/755	1004/762/644
Cooling[1]	Capacity (H/M/L)	kW	5.306/4.593/4.279	7.984/7.245/6.697	8.038/6.623/5.837
	Water flow rate(H/M/L)	m^3/h	0.96/0.84/0.78	1.42/1.29/1.2	1.43/1.19/1.05
	Water pressure drop(H/M/L)	kPa	16.4/12.6/10.9	33.9/30/24	33/22.6/17.7
	Power input(H/M/L)	W	90/54/43	121/83/66	139/70/49
Heating[2]	Capacity (H/M/L)	kW	6.736/5.833/5.442	9.746/8.962/8.422	9.93/8.326/7.512
	Water flow rate(H/M/L)	m^3/h	0.63/0.55/0.52	0.89/0.82/0.77	0.90/0.76/0.69
	Water pressure drop(H/M/L)	kPa	34/26.6/23.5	42.4/36.6/32.6	48.7/32.5/27
	Power input(H/M/L)	W	84/46/35	118/79/61	125/64/42
Heating[3]	Capacity (H/M/L)	kW	7.659/6.646/6.204	11.045/10.149/9.527	11.342/9.596/8.683
	Water flow rate(H/M/L)	m^3/h	0.71/0.62/0.58	1.0/0.92/0.87	1.02/0.87/0.79
	Water pressure drop(H/M/L)	kPa	43.8/33.5/29.3	52.1/44.9/40.6	62.1/45.7/38.3
	Power input(H/M/L)	W	84/45/35	118/79/61	125/64/42
Sound power level	(H/M/L)	dB(A)	58/53/50	60/56/54	61/55/50
Sound pressure level	(H/M/L)	dB(A)	46/41/38	48/44/42	49/43/38
Rated current		A	0.72	1.08	1.32
Fan motor	Type		DC motor	DC motor	DC motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	3	3
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Packing size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Net weight	kg	27.5	30	30
	Gross weight	kg	32.4	35	35
Pipe connections	Water inlet/outlet pipe	inch	Cold water: RC3/4; Hot water: RC1/2		
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Notes:

H: High fan speed; M: Medium fan speed; L: Low fan speed.

1: Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C.

2: Heating mode(1): (4-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 65/55°C.

3: Heating mode(2): (4-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 70/60°C.

4.Sound pressure level is tested in a semi-anechoic test room.

5.Sound power level is tested in a reverberation chamber.

Compact Four-way Cassette

Model: 300/400/500 CFM

R05
Standard

KJR-29B
Optional

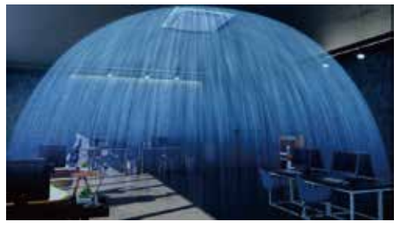
Features

- 360° air supply panel is standard
- Fresh air intake, also supply to side room.
- Built-in PCB and drain pump with pump head-500mm.
- Remote controller with LED display is standard, wired controller is optional.
- Safety grill for safety maintenance.
- Optional extended drainage pan for protecting your ceiling better.
- Available for 2/4 pipe system.

Compact design allows installation in shallow ceilings.

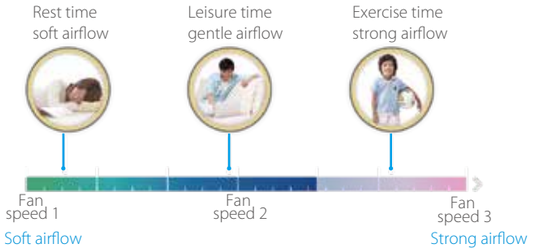
360 ° Airflow

The Compact Four-way Cassette's 360 ° air outlets provide strong airflow circulation to cool or heat every corner of a room and evenly control temperature.



Multiple Fan Speeds

The DC Series comes with 3 fan speed option to meet the needs of different indoor conditions.

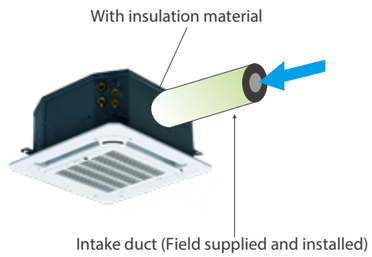


Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

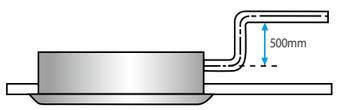
Knock out hole is available in the unit.

Accessories such as booster fan must be supplied on field and installed.



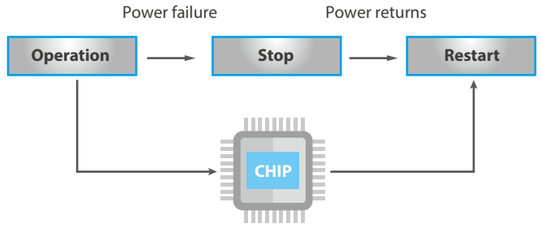
High-lift Drain Pump

A drain pump with a 500mm pump head is fitted as standard, simplifying installation of the drain piping.



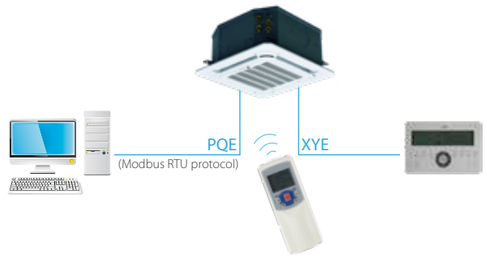
Auto restart

In the event of a sudden power failure during operation,unit restarts automatically and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).



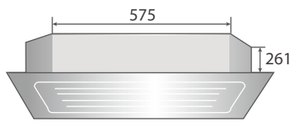
Control solutions

The fan coil units can be connected to MDV central controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.

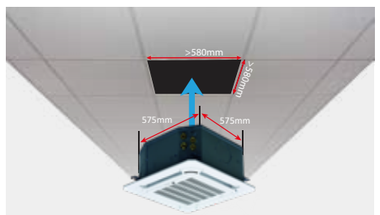


Compact design

The height of models 300 to 500 is just 261mm, making the Compact Four-way Cassette ideal for standard ceilings.



Compact Four-way Cassette body dimension is only 575 mm x 575 mm which can easily fits into less to 585 mm ceiling grid.



2-Pipe Compact 4-Way Cassette

Model			MDVF-300C4CVE	MDVF-400C4CVE	MDVF-500C4CVE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	535/429/322	610/477/381	781/611/494
		CFM	314/252/189	359/281/224	459/359/290
Cooling[1]	Capacity (H/M/L)	kW	2.98/2.53/2	3.96/3.26/2.76	4.2/3.48/3.01
	Water flow rate(H/M/L)	m^3/h	0.53/0.45/0.35	0.7/0.58/0.51	0.75/0.61/0.54
	Water pressure drop(H/M/L)	kPa	10/7/5	11.48/8.2/6.54	12.32/8.62/7.4
	Power input(H/M/L)	W	15/9/5	28/15/9	43/28/21
Heating[2]	Capacity (H/M/L)	kW	2.61/2.31/2.24	4.08/3.34/2.73	4.95/3.99/3.26
	Water flow rate(H/M/L)	m^3/h	0.64/0.54/0.42	0.83/0.67/0.56	0.87/0.70/0.58
	Water pressure drop(H/M/L)	kPa	12.1/8.5/5.3	9.2/8.6/6	9.4/8.23/6.1
	Power input(H/M/L)	W	15/9/5	28/16/10	33/18/11
Heating[3]	Capacity (H/M/L)	kW	4.01/3.35/2.61	4.78/3.84/3.18	5.76/4.69/3.84
	Water flow rate(H/M/L)	m^3/h	0.53/0.45/0.35	0.7/0.58/0.51	0.75/0.61/0.54
	Water pressure drop(H/M/L)	kPa	8.2/6/3.8	12.68/6.4/4.92	11.41/6.5/5.41
	Power input(H/M/L)	W	14/9/5	28/16/10	33/18/11
Sound pressure level	(H/M/L)	dB(A)	39/33/27	42/36/30	43/38/32
Fan motor	Type		DC Motor	DC Motor	DC Motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	647×50×647	647×50×647	647×50×647
	Packing size (W×H×D)	mm	715×123×715	715×123×715	715×123×715
	Net weight	kg	2.5	2.5	2.5
	Gross weight	kg	4.5	4.5	4.5
Body	Net dimensions (W×H×D)	mm	575×261×575	575×261×575	575×261×575
	Packing size (W×H×D)	mm	670×290×670	670×290×670	670×290×670
	Net weight	kg	16.5	16.5	16.5
	Gross weight	kg	22.5	22.5	22.5
Pipe connections	Water inlet/outlet pipe	inch	G3/4	G3/4	G3/4
	Drain pipe	mm	ODΦ25	ODΦ25	ODΦ25

4-Pipe Compact 4-Way Cassette

Model			MDVF-300C4CVFE	MDVF-400C4CVFE	MDVF-500C4CVFE
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	493/395/295	669/523/415	673/526/425
		CFM	290/232/173	393/307/244	395/309/250
Cooling[1]	Capacity (H/M/L)	kW	2.161/1.861/1.485	2.777/2.375/2.045	2.771/2.382/2.069
	Water flow rate(H/M/L)	m^3/h	0.42/0.37/0.3	0.53/0.46/0.4	0.56/0.49/0.43
	Water pressure drop(H/M/L)	kPa	17.4/13.5/9.3	13.15/9.4/7	16.8/13.1/10.3
	Power input(H/M/L)	W	15/10/6	30/26/21	35/19/12
Heating[2]	Capacity (H/M/L)	kW	3.131/2.628/2.077	3.711/3.138/2.65	3.942/3.296/2.826
	Water flow rate(H/M/L)	m^3/h	0.32/0.28/0.23	0.37/0.32/0.28	0.42/0.36/0.32
	Water pressure drop(H/M/L)	kPa	23.5/17.1/11.3	24.1/17.9/13.1	26.8/19.2/14.5
	Power input(H/M/L)	W	17/10/6	32/18/11	35/18/11
Heating[3]	Capacity (H/M/L)	kW	3.564/2.989/2.356	4.251/3.584/3.023	4.508/3.789/3.222
	Water flow rate(H/M/L)	m^3/h	0.36/0.31/0.25	0.41/0.36/0.31	0.47/0.40/0.36
	Water pressure drop(H/M/L)	kPa	29.8/21.7/14.3	30.4/22.2/16.7	36.1/25.9/19
	Power input(H/M/L)	W	17/10/6	31/18/11	35/19/11
Sound power level	(H/M/L)	dB(A)	51/45/39	54/47/42	56/51/43
Sound pressure level	(H/M/L)	dB(A)	39/33/27	42/35/30	44/39/31
Rated current		A	0.24	0.36	0.48
Fan motor	Type		DC motor	DC motor	DC motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	647×50×647	647×50×647	647×50×647
	Packing size (W×H×D)	mm	715×123×715	715×123×715	715×123×715
	Net weight	kg	2.5	2.5	2.5
	Gross weight	kg	4.5	4.5	4.5
Body	Net dimensions (W×H×D)	mm	575×261×575	575×261×575	575×261×575
	Packing size (W×H×D)	mm	675×320×675	675×320×675	675×320×675
	Net weight	kg	16.7	16.7	16.7
	Gross weight	kg	22.7	22.7	22.7
Pipe connections	Water inlet/outlet pipe	inch	Cold water: G3/4; Hot water: G1/2		
	Drain pipe	mm	ODΦ25	ODΦ25	ODΦ25

Notes:

H: High fan speed; M: Medium fan speed; L: Low fan speed.

1: Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C.

2: Heating mode(1): (4-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 65/55°C.

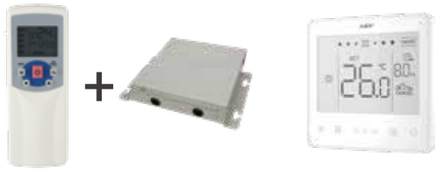
3: Heating mode(2): (4-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 70/60°C.

4.Sound pressure level is tested in a semi-anechoic test room.

5.Sound power level is tested in a reverberation chamber.

Duct series

Model: 200/300/400/600/800/1000/1200CFM



RM05+FCU KIT
Optional

KJRP-86I/MFK-E (Optional)
KJRP-86A/BMFNvKD-E (Optional)

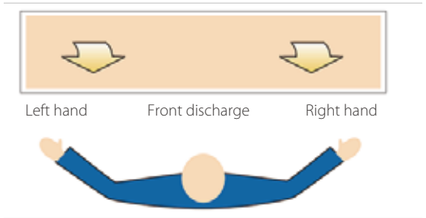
Features

- 2, 3 or 4 row for 2-pipe system and 3 row can be customization for 4-pipe system.
- Different static pressures (12/30/50Pa) can be selected by dialing the PCB.
- Washable filter: Iron frame filter is standard, and aluminum frame filter can be customized.
- Compatible with two types of air return: Back return is standard, bottom return is optional.
- Left or right hand piping connections are easily change in filed.
- Available for fresh air intake.

Slim, compact design for limited space with duct distribution to the indoor space.

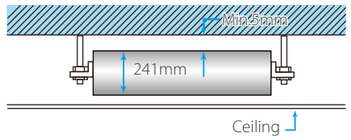
Flexible Installation

Left and right hand piping connections are optional, flexible installation.



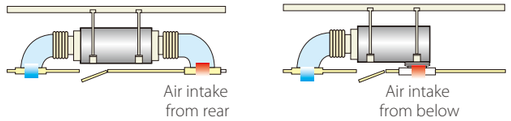
Compact Size

All the units are 241mm hight，easy for limited space to installation.



Flexible Air Inlet Port Installation

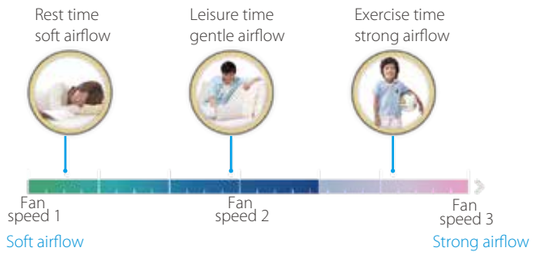
To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.



Extension water pan are optional to protect the ceiling from moisture.

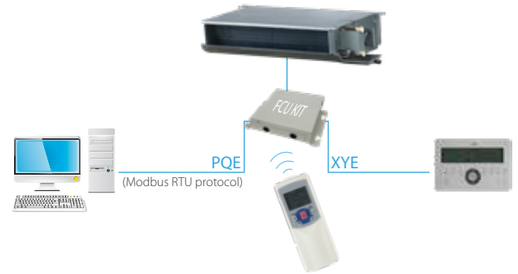
Multiple Fan Speeds

The DC Series comes with 3 fan speed option to meet the needs of different indoor conditions.



Control solutions

The duct series controlled by Wired controller, Central controller or BMS need to be customization FCU KIT.



Fresh Air Intake

A reserved outside air intake port allows outdoor air to be induced directly into the unit, negating the need for a separate ventilation system.

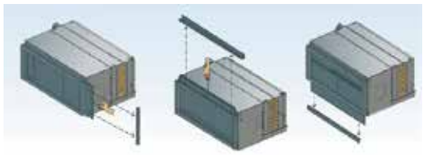
Knock out hole is available in the unit.

Accessories such as booster fan must be supplied on field and installed.

Washable filter

Iron frame filter is standard, and aluminum frame filter can be customized.

Air outlet flange and multi-direction pull-out filter can be customized.



2-Pipe 2-Row Duct

Model			MDVF-200D2VE	MDVF-300D2VE	MDVF-400D2VE	MDVF-500D2VE
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	439/295/221	615/439/310	792/622/413	887/620/443
		CFM	258/173/130	361/258/182	465/365/242	521/364/260
Standard external static pressure		Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB			
Cooling[1]	Capacity (H/M/L)	kW	2.02/1.52/1.17	2.82/2.33/1.79	3.31/2.78/2.14	3.83/3.16/2.55
	Water flow rate(H/M/L)	m^3/h	0.37/0.28/0.22	0.51/0.41/0.32	0.59/0.50/0.38	0.68/0.56/0.46
	Water pressure drop(H/M/L)	kPa	6.3/3.62/2.17	14.16/10.5/7.33	19.37/14.79/9.57	23.7/17.1/11.9
	Power input(H/M/L)	W	18/9/6	25/15/11	29/16/9	42/20/11
Heating[2]	Capacity (H/M/L)	kW	2.57/1.89/1.47	3.56/2.8/2.08	4.19/3.42/2.49	4.84/3.9/3.01
	Water flow rate(H/M/L)	m^3/h	0.47/0.34/0.27	0.62/0.50/0.37	0.72/0.6/0.45	0.84/0.69/0.53
	Water pressure drop(H/M/L)	kPa	5.64/4.5/2.9	10.54/10.3/6.3	16.20/16.6/10	30.8/32.4/20
	Power input(H/M/L)	W	19/9/7	25/15/11	32/17/9	45/22/12
Heating[3]	Capacity (H/M/L)	kW	2.98/2.22/1.73	4.12/3.26/2.39	4.91/4.1/3.02	5.6/4.49/3.45
	Water flow rate(H/M/L)	m^3/h	0.37/0.28/0.22	0.51/0.41/0.32	0.59/0.50/0.38	0.68/0.56/0.46
	Water pressure drop(H/M/L)	kPa	7.91/3.5/2.3	15.39/7.41/4.83	23/12.09/7.81	29.04/14.16/9.71
	Power input(H/M/L)	W	19/9/7	25/15/11	31/18/9	45/21/11
Sound pressure level	0Pa (H/M/L)	dB(A)	37.5/27.4/24.0	40.3/33.1/26.7	41.1/34.7/26.8	44.6/36.8/29.4
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	2	2	2
Coil	Row		2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522
Packing size (W×H×D)		mm	790×260×555	890×260×560	990×260×560	990×260×560
Net weight		kg	16.5	18.5	20	20
Gross weight		kg	19	21.4	23.2	23.2
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Model			MDVF-600D2VE	MDVF-800D2VE	MDVF-1000D2VE	MDVF-1200D2VE
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1081/821/586	1492/1071/797	1824/1332/906	2327/1669/1135
		CFM	635/482/344	877/630/468	1072/783/532	1368/981/667
Standard external static pressure		Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB			
Cooling[1]	Capacity (H/M/L)	kW	4.78/4.01/3.09	6.7/5.49/4.45	7.92/6.62/5.15	9.83/8.5/6.46
	Water flow rate(H/M/L)	m^3/h	0.85/0.69/0.54	1.19/0.96/0.80	1.43/1.17/0.91	1.74/1.42/1.12
	Water pressure drop(H/M/L)	kPa	14.2/9.8/6.1	15.1/10.89/7.82	23.2/16.44/10.94	50.33/30.4/21.71
	Power input(H/M/L)	W	53/25/12	62/28/16	93/42/19	111/53/24
Heating[2]	Capacity (H/M/L)	kW	6.25/5.17/4.03	8.39/6.64/5.2	9.92/7.94/5.86	12.58/10.24/7.57
	Water flow rate(H/M/L)	m^3/h	1.10/0.91/0.7	1.46/1.17/0.91	1.69/1.38/1.01	2.17/1.79/1.34
	Water pressure drop(H/M/L)	kPa	12.36/14.2/8.9	13.26/13.1/8.28	19.72/18.87/11.07	38.30/41.81/26.5
	Power input(H/M/L)	W	58/27/13	66/30/16	100/44/19	118/55/24
Heating[3]	Capacity (H/M/L)	kW	7.19/5.92/4.55	9.87/7.83/6.29	11.63/9.37/6.96	14.58/11.82/8.83
	Water flow rate(H/M/L)	m^3/h	0.85/0.69/0.54	1.19/0.96/0.80	1.43/1.17/0.91	1.74/1.42/1.12
	Water pressure drop(H/M/L)	kPa	19.88/8.56/5.4	19.36/9.03/6.4	26.68/13.96/9.1	60.7/26.5/17.8
	Power input(H/M/L)	W	58/27/13	66/30/17	99/45/19	119/55/24
Sound pressure level	0Pa (H/M/L)	dB(A)	46.1/38.9/29.9	47.7/39.4/31.1	50.2/43.0/33.0	50.9/44.0/33.8
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	4	4	4
Coil	Row		2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	1161×241×522	1461×241×522	1566×241×522	1856×241×522
Packing size (W×H×D)		mm	1210×260×560	1510×260×560	1615×260×560	1905×260×560
Net weight		kg	22.2	31.4	32.5	37.5
Gross weight		kg	26	35.8	37.2	42.8
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Notes:
H: High fan speed; M: Medium fan speed; L: Low fan speed.
1. Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/19°C WB, entering/leaving water temperature 7°C /12°C.
2. Heating mode（1）: (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C.
3. Heating mode（2）: (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)
4. Sound pressure level is tested in a semi-anechoic test room.
5. The external static pressure test condition is 0 Pa.

2-Pipe 3-Row Duct

Model			MDVF-200D3VE	MDVF-300D3VE	MDVF-400D3VE	MDVF-500D3VE
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	411/273/171	531/442/311	734/564/389	865/626/441
		CFM	241/160/100	312/260/182	431/331/228	508/368/259
Standard external static pressure		Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB			
Cooling[1]	Capacity (H/M/L)	kW	2.35/1.72/1.32	3.12/2.72/2.1	3.99/3.26/2.5	4.46/3.59/2.83
	Water flow rate(H/M/L)	m^3/h	0.43/0.31/0.25	0.6/0.48/0.37	0.69/0.57/0.43	0.79/0.63/0.50
	Water pressure drop(H/M/L)	kPa	13.6/8.6/6.3	23.8/16.4/11.3	13/9.3/5.8	16.4/11.3/7.6
	Power input(H/M/L)	W	17/9/7	23/15/10	26/15/9	39/19/11
Heating[2]	Capacity (H/M/L)	kW	2.68/1.99/1.42	3.82/3.08/2.28	4.7/3.85/2.77	5.27/4.21/3.21
	Water flow rate(H/M/L)	m^3/h	0.49/0.35/0.26	0.67/0.54/0.41	0.82/0.67/0.50	0.92/0.73/0.57
	Water pressure drop(H/M/L)	kPa	12.6/7.6/4.9	25/17.6/11.3	13/10.5/6.2	18.4/12.4/8.1
	Power input(H/M/L)	W	18/9/7	23/15/10	26/16/9	43/21/11
Heating[3]	Capacity (H/M/L)	kW	3.17/2.27/1.75	4.51/3.61/2.71	5.52/4.55/3.27	6.26/4.99/3.81
	Water flow rate(H/M/L)	m^3/h	0.43/0.31/0.25	0.60/0.48/0.37	0.69/0.57/0.43	0.79/0.63/0.50
	Water pressure drop(H/M/L)	kPa	10.3/6.1/4.2	19.2/12.9/8.5	10.8/7.7/4.8	13.7/9.5/6.3
	Power input(H/M/L)	W	18/9/7	23/15/10	28/16/9	43/21/11
Sound pressure level	0Pa (H/M/L)	dB(A)	38.1/28.4/23.4	36.4/29.5/20.7	38.4/32.2/24.0	44.3/36.3/27.9
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	2	2	2
Coil	Row		3	3	3	3
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522
Packing size (W×H×D)		mm	790×260×555	890×260×560	990×260×560	990×260×560
Net weight		kg	16.7	19	21	21
Gross weight		kg	19.7	22	24	24
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Model			MDVF-600D3VE	MDVF-800D3VE	MDVF-1000D3VE	MDVF-1200D3VE
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1022/760/544	1452/1038/781	1824/1332/906	2134/1581/1083
		CFM	601/447/320	854/610/459	1072/783/532	1255/930/637
Standard external static pressure		Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB			
Cooling[1]	Capacity (H/M/L)	kW	5.85/4.82/3.78	8.02/6.36/5.08	8.96/7.37/5.66	10.79/8.86/6.79
	Water flow rate(H/M/L)	m^3/h	1.05/0.85/0.65	1.42/1.11/0.89	1.59/1.29/0.98	1.93/1.57/1.20
	Water pressure drop(H/M/L)	kPa	31.4/22/14.2	31.6/20.5/13.9	24.1/16.9/10.8	26.3/18.8/12.8
	Power input(H/M/L)	W	49/24/12	60/28/16	96/43/19	106/49/24
Heating[2]	Capacity (H/M/L)	kW	6.62/5.38/4	9.15/7.08/5.58	10.74/8.55/6.35	12.62/10.15/7.47
	Water flow rate(H/M/L)	m^3/h	1.15/0.94/0.71	1.59/1.26/0.98	1.88/1.51/1.13	2.23/1.78/1.31
	Water pressure drop(H/M/L)	kPa	31.7/22.2/13.6	32.9/21.6/13.9	28.3/19.4/12	29.4/20/11.9
	Power input(H/M/L)	W	53/26/12	65/30/17	100/45/20	115/52/22
Heating[3]	Capacity (H/M/L)	kW	7.84/6.35/4.81	10.88/8.46/6.68	12.61/10.04/7.35	14.9/11.92/8.89
	Water flow rate(H/M/L)	m^3/h	1.05/0.85/0.65	1.42/1.11/0.89	1.59/1.29/0.98	1.93/1.57/1.20
	Water pressure drop(H/M/L)	kPa	26.4/18.2/11.4	26.3/16.9/11.5	21.1/14.8/9.5	22.6/16/10.2
	Power input(H/M/L)	W	52/25/13	65/30/17	99/44/19	114/51/22
Sound pressure level	0Pa (H/M/L)	dB(A)	46.1/39.0/30.3	44.9/36.1/27.7	47.8/40.7/30.7	48.9/41.8/31.7
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	4	4	4
Coil	Row		3	3	3	3
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	1161×241×522	1461×241×522	1566×241×522	1856×241×522
Packing size (W×H×D)		mm	1210×260×560	1510×260×560	1615×260×560	1905×260×560
Net weight		kg	23.7	33	34.7	39.2
Gross weight		kg	27.2	37.2	39.2	44.4
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Notes:
H: High fan speed; M: Medium fan speed; L: Low fan speed.
1. Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/19°C WB, entering/leaving water temperature 7°C /12°C.
2. Heating mode（1）: (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C.
3. Heating mode（2）: (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)
4. Sound pressure level is tested in a semi-anechoic test room.
5. The external static pressure test condition is 0 Pa.

2-Pipe 4-Row Duct

Model			MDVF-200D4VE	MDVF-300D4VE	MDVF-400D4VE	MDVF-500D4VE
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	441/297/227	627/468/338	778/537/349	884/642/461
		CFM	259/174/133	368/275/198	458/316/205	520/377/271
Standard external static pressure		Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB			
Cooling[1]	Capacity (H/M/L)	kW	2.22/1.59/1.2	3.19/2.58/1.87	4.06/3.26/2.41	4.46/3.56/2.78
	Water flow rate(H/M/L)	m^3/h	0.40/0.30/0.23	0.57/0.47/0.34	0.72/0.59/0.43	0.80/0.63/0.50
	Water pressure drop(H/M/L)	kPa	2.44/1.52/1	5.24/3.61/2.36	8.4/5.9/3.49	11.6/8.1/5.6
	Power input(H/M/L)	W	17/9/6	21/12/7	29/16/9	43/23/14
Heating[2]	Capacity (H/M/L)	kW	2.81/2/1.54	3.88/3.09/2.35	4.19/3.42/2.49	5.44/4.23/3.23
	Water flow rate(H/M/L)	m^3/h	0.51/0.37/0.29	0.67/0.56/0.42	0.84/0.68/0.51	0.96/0.76/0.57
	Water pressure drop(H/M/L)	kPa	2/1.76/1.2	4.3/4.29/2.8	6.99/6.4/3.8	10.64/9.83/6.68
	Power input(H/M/L)	W	18/9/7	23/13/8	32/18/10	41/22/12
Heating[3]	Capacity (H/M/L)	kW	3.23/2.32/1.75	4.5/3.6/2.68	5.6/4.59/3.36	6.25/4.88/3.74
	Water flow rate(H/M/L)	m^3/h	0.40/0.30/0.23	0.57/0.47/0.34	0.72/0.59/0.43	0.80/0.63/0.50
	Water pressure drop(H/M/L)	kPa	2.99/1.2/0.71	5.85/3.1/1.9	9.1/4.9/2.8	14.06/7.6/5.5
	Power input(H/M/L)	W	19/9/6	23/13/8	32/18/10	42/21/11
Sound pressure level	0Pa (H/M/L)	dB(A)	37.3/27.4/22.2	39.6/32.5/25.0	41.1/34.5/26.4	44.8/37.2/29.8
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	2	2	2
Coil	Row		4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522
Packing size (W×H×D)		mm	790×260×555	890×260×560	990×260×560	990×260×560
Net weight		kg	17.8	20	21.9	21.9
Gross weight		kg	20.4	22.9	25.1	25.1
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Model			MDVF-600D4VE	MDVF-800D4VE	MDVF-1000D4VE	MDVF-1200D4VE
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1056/793/575	1506/1084/822	1813/1341/932	2134/1617/1119
		CFM	621/466/338	885/637/483	1066/788/548	1255/951/658
Standard external static pressure		Pa	12Pa (default); 30/50Pa can be set through dial switch on PCB			
Cooling[1]	Capacity (H/M/L)	kW	5.87/4.78/3.68	6.65/5.04/3.61	7.98/6.19/4.37	9.76/7.81/5.72
	Water flow rate(H/M/L)	m^3/h	1.06/0.86/0.65	1.19/0.88/0.64	1.47/1.12/0.78	1.78/1.41/1.02
	Water pressure drop(H/M/L)	kPa	19.4/13.6/8.5	8.8/5.09/2.8	13.81/8.63/4.75	22.31/15/8.98
	Power input(H/M/L)	W	51/25/12	61/27/16	93/49/21	109/50/22
Heating[2]	Capacity (H/M/L)	kW	6.47/5.18/3.91	8.36/6.32/4.77	9.92/7.94/5.86	11.76/9.32/6.76
	Water flow rate(H/M/L)	m^3/h	1.11/0.90/0.67	1.43/1.12/0.86	1.68/1.35/1.00	2.01/1.60/1.15
	Water pressure drop(H/M/L)	kPa	16.31/12.6/7.41	7.7/6.97/4.3	19.72/18.9/11.1	20.04/16.93/9.62
	Power input(H/M/L)	W	56/27/13	66/30/16	102/46/20	119/55/24
Heating[3]	Capacity (H/M/L)	kW	7.72/6.19/4.68	9.55/7.14/5.23	11.55/9/6.46	14.34/11.31/8.3
	Water flow rate(H/M/L)	m^3/h	1.06/0.86/0.65	1.19/0.88/0.64	1.47/1.12/0.78	1.78/1.41/1.02
	Water pressure drop(H/M/L)	kPa	17.92/11.31/7	10.9/4.49/2.5	15.42/7.5/4.1	24.94/13.46/13.48
	Power input(H/M/L)	W	56/27/13	67/29/16	103/46/20	121/54/23
Sound pressure level	0Pa (H/M/L)	dB(A)	46.1/39.4/30.7	47.4/39.1/32.1	50.4/42.7/33.1	50.7/43.8/34.5
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	4	4	4
Coil	Row		4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Net dimensions (W×H×D)		mm	1161×241×522	1461×241×522	1566×241×522	1856×241×522
Packing size (W×H×D)		mm	1210×260×560	1510×260×560	1615×260×560	1905×260×560
Net weight		kg	25	34.8	36.4	41.9
Gross weight		kg	28.8	39.2	41.9	47.2
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		inch	ZG3/4	ZG3/4	ZG3/4	ZG3/4

Notes:
H: High fan speed; M: Medium fan speed; L: Low fan speed.
1. Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C.
2. Heating mode（1）: (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C.
3. Heating mode（2）: (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)
4. Sound pressure level is tested in a semi-anechoic test room.
5. The external static pressure test condition is 0 Pa.

Wall Mounted Series

Model: 250/300/400/500/600 CFM

R05
Standard

Features

- Display shut off (for Type A and P panels though Wireless Remote Controllers RM12F/BGF-E).
- Built-in 3-way electromagnetic valve.
- Remote controller as standard, wired controller is optional.
- Easy and low cost installation.
- The panel can be easily removed, simple maintenance and easy to change filter.
- Multi-directional outlet pipe feature: left\right\rear, to meet the needs of different rooms.
- Compatible with 0-10V input/output function(customized).

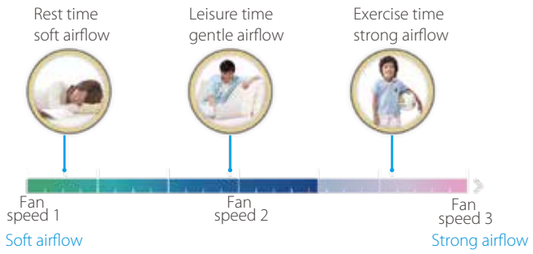
Stylish panel, ideal for rooms with no or narrow ceilings.

Digital Display On/Off

Indoor unit displays can be shut off at night, creating a better environment for rest.

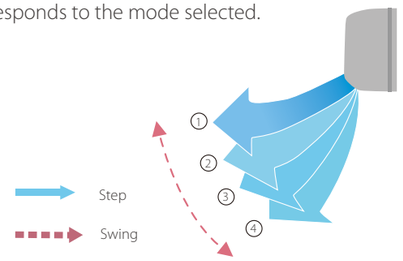
Multiple Fan Speeds

The DC Series comes with 3 fan speed option to meet the needs of different indoor conditions.



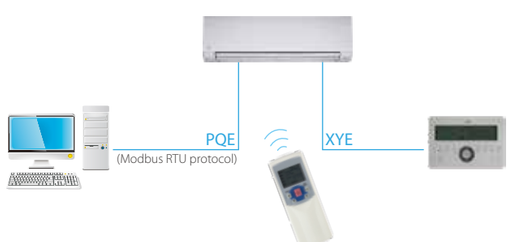
Auto Swing Louver

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



Control solutions

The fan coil units can be connected to MDV central controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.

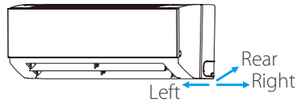


Variety stylish Panel

Variety stylish panel with three options (A Type, P Type and S Type), perfect fusion in all kinds of decoration.

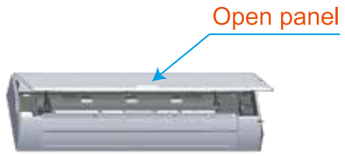
Flexible Pipe Outlet Direction

Multi-outlet pipe method for both water pipe and drain pipe: left/right/rear, more flexible for installation.



Easy Maintenance

Removable front panel making maintenance convenient.



Exposed Installation, No Need Ceilings

The Wall Mounted can be installed against a wall, no need ceilings, simplifying installation.

Wall Mounted (A Type)

Model			MDVF-250WMAVE	MDVF-300WMAVE	MDVF-400WMAVE	MDVF-500WMAVE	MDVF-600WMAVE
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	492/454/400	585/485/413	825/689/590	862/741/634	979/849/717
		CFM	289/267/235	344/285/242	485/405/347	507/435/372	575/499/421
Cooling[1]	Capacity (H/M/L)	kW	2.7/2.59/2.39	2.91/2.54/2.19	3.81/3.3/2.88	4.47/3.98/3.48	4.87/4.26/3.79
	Water flow rate(H/M/L)	m^3/h	0.48/0.46/0.42	0.51/0.45/0.38	0.67/0.57/0.51	0.77/0.68/0.61	0.85/0.72/0.65
	Water pressure drop(H/M/L)	kPa	31.61/28.63/25.36	37.2/29.73/23.36	56.75/41.23/33.02	41.17/33.54/27.05	50.68/39.47/33.66
	Power input(H/M/L)	W	13/11/10	15/11/9	34/22/15	26/18/13	38/26/18
Heating[2]	Capacity (H/M/L)	kW	2.94/2.8/2.58	3.23/2.77/2.42	4.3/3.65/3.09	4.84/4.23/3.62	5.26/4.68/3.96
	Water flow rate(H/M/L)	m^3/h	0.51/0.49/0.46	0.56/0.49/0.42	0.73/0.64/0.56	0.84/0.73/0.64	0.89/0.80/0.68
	Water pressure drop(H/M/L)	kPa	32.66/34.89/30.24	34.12/31.53/25.1	51.86/47.53/35.69	36.82/33.83/26.26	47.12/42.75/32.95
	Power input(H/M/L)	W	11/11/9	14/10/8	31/20/14	22/16/12	33/23/16
Heating[3]	Capacity (H/M/L)	kW	3.29/3.03/2.63	3.76/3.22/2.77	5.08/4.33/3.77	5.68/4.94/4.24	6.31/5.57/4.77
	Water flow rate(H/M/L)	m^3/h	0.48/0.46/0.42	0.51/0.45/0.38	0.67/0.57/0.51	0.77/0.68/0.61	0.85/0.72/0.65
	Water pressure drop(H/M/L)	kPa	37.49/30.25/26.53	40.64/27.03/20.98	61.94/37.88/30.34	43.74/29.69/23.98	51.65/36.3/30.3
	Power input(H/M/L)	W	12/10/8	14/10/8	31/20/14	23/16/12	33/23/16
Sound power level (H/M/L)		dB(A)	44/42/39	44/39/35	57/51/47	50/46/42	56/52/47
Rated current		A	0.16	0.19	0.28	0.32	0.39
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1	1
Fan	Type		Tangential fan	Tangential fan	Tangential fan	Tangential fan	Tangential fan
	Quantity		1	1	1	1	1
Coil	Row		2	2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ7
Net dimensions (W×H×D)		mm	915×290×233	915×290×233	915×290×233	1072×315×237	1072×315×237
Packing size (W×H×D)		mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315	1180×415×315
Net weight		kg	12.7	12.7	12.7	15.1	14.9
Gross weight		kg	17.3	17.6	16.3	19	18.6
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ20	ODΦ20	ODΦ20	ODΦ20	ODΦ20

Notes:
Based on Eurovent conditions:
H: High fan speed; M: Medium fan speed; L: Low fan speed.
1 :Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C, high fan speed.
2 :Heating mode (1): (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C, high fan speed.
3 :Heating mode (2): (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)

Wall Mounted (P Type)

Model			MDVF-250WMPVE	MDVF-300WMPVE	MDVF-400WMPVE	MDVF-500WMPVE	MDVF-600WMPVE
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	492/454/400	585/485/413	825/689/590	862/741/634	979/849/717
		CFM	289/267/235	344/285/242	485/405/347	507/435/372	575/499/421
Cooling[1]	Capacity (H/M/L)	kW	2.7/2.59/2.39	2.91/2.54/2.19	3.81/3.3/2.88	4.47/3.98/3.48	4.87/4.26/3.79
	Water flow rate(H/M/L)	m^3/h	0.48/0.46/0.42	0.51/0.45/0.38	0.67/0.57/0.51	0.77/0.68/0.61	0.85/0.72/0.65
	Water pressure drop(H/M/L)	kPa	31.61/28.63/25.36	37.2/29.73/23.36	56.75/41.23/33.02	41.17/33.54/27.05	50.68/39.47/33.66
	Power input(H/M/L)	W	13/11/10	15/11/9	34/22/15	26/18/13	38/26/18
Heating[2]	Capacity (H/M/L)	kW	2.94/2.8/2.58	3.23/2.77/2.42	4.3/3.65/3.09	4.84/4.23/3.62	5.26/4.68/3.96
	Water flow rate(H/M/L)	m^3/h	0.51/0.49/0.46	0.56/0.49/0.42	0.73/0.64/0.56	0.84/0.73/0.64	0.89/0.80/0.68
	Water pressure drop(H/M/L)	kPa	32.66/34.89/30.24	34.12/31.53/25.1	51.86/47.53/35.69	36.82/33.83/26.26	47.12/42.75/32.95
	Power input(H/M/L)	W	11/11/9	14/10/8	31/20/14	22/16/12	33/23/16
Heating[3]	Capacity (H/M/L)	kW	3.29/3.03/2.63	3.76/3.22/2.77	5.08/4.33/3.77	5.68/4.94/4.24	6.31/5.57/4.77
	Water flow rate(H/M/L)	m^3/h	0.48/0.46/0.42	0.51/0.45/0.38	0.67/0.57/0.51	0.77/0.68/0.61	0.85/0.72/0.65
	Water pressure drop(H/M/L)	kPa	37.49/30.25/26.53	40.64/27.03/20.98	61.94/37.88/30.34	43.74/29.69/23.98	51.65/36.3/30.3
	Power input(H/M/L)	W	12/10/8	14/10/8	31/20/14	23/16/12	33/23/16
Sound power level (H/M/L)		dB(A)	44/42/39	44/39/35	57/51/47	50/46/42	56/52/47
Rated current		A	0.16	0.19	0.28	0.32	0.39
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1	1
Fan	Type		Tangential fan	Tangential fan	Tangential fan	Tangential fan	Tangential fan
	Quantity		1	1	1	1	1
Coil	Row		2	2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ7
Net dimensions (W×H×D)		mm	915×290×229	915×290×229	915×290×229	1072×315×232	1072×315×232
Packing size (W×H×D)		mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315	1180×415×315
Net weight		kg	12.7	12.7	12.7	15.1	14.9
Gross weight		kg	17.3	17.6	16.3	19	18.6
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ20	ODΦ20	ODΦ20	ODΦ20	ODΦ20

Notes:
Based on Eurovent conditions:
H: High fan speed; M: Medium fan speed; L: Low fan speed.
1 :Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C, high fan speed.
2 :Heating mode (1): (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C, high fan speed.
3 :Heating mode (2): (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)

Wall Mounted (S Type)

Model			MDVF-250WMSVE	MDVF-300WMSVE	MDVF-400WMSVE	MDVF-500WMSVE	MDVF-600WMSVE
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	492/454/400	585/485/413	825/689/590	862/741/634	979/849/717
		CFM	289/267/235	344/285/242	485/405/347	507/435/372	575/499/421
Cooling[1]	Capacity (H/M/L)	kW	2.7/2.59/2.39	2.91/2.54/2.19	3.81/3.3/2.88	4.47/3.98/3.48	4.87/4.26/3.79
	Water flow rate(H/M/L)	m^3/h	0.48/0.46/0.42	0.51/0.45/0.38	0.67/0.57/0.51	0.77/0.68/0.61	0.85/0.72/0.65
	Water pressure drop(H/M/L)	kPa	31.61/28.63/25.36	37.2/29.73/23.36	56.75/41.23/33.02	41.17/33.54/27.05	50.68/39.47/33.66
	Power input(H/M/L)	W	13/11/10	15/11/9	34/22/15	26/18/13	38/26/18
Heating[2]	Capacity (H/M/L)	kW	2.94/2.8/2.58	3.23/2.77/2.42	4.3/3.65/3.09	4.84/4.23/3.62	5.26/4.68/3.96
	Water flow rate(H/M/L)	m^3/h	0.51/0.49/0.46	0.56/0.49/0.42	0.73/0.64/0.56	0.84/0.73/0.64	0.89/0.80/0.68
	Water pressure drop(H/M/L)	kPa	32.66/34.89/30.24	34.12/31.53/25.1	51.86/47.53/35.69	36.82/33.83/26.26	47.12/42.75/32.95
	Power input(H/M/L)	W	11/11/9	14/10/8	31/20/14	22/16/12	33/23/16
Heating[3]	Capacity (H/M/L)	kW	3.29/3.03/2.63	3.76/3.22/2.77	5.08/4.33/3.77	5.68/4.94/4.24	6.31/5.57/4.77
	Water flow rate(H/M/L)	m^3/h	0.48/0.46/0.42	0.51/0.45/0.38	0.67/0.57/0.51	0.77/0.68/0.61	0.85/0.72/0.65
	Water pressure drop(H/M/L)	kPa	37.49/30.25/26.53	40.64/27.03/20.98	61.94/37.88/30.34	43.74/29.69/23.98	51.65/36.3/30.3
	Power input(H/M/L)	W	12/10/8	14/10/8	31/20/14	23/16/12	33/23/16
Sound pressure level (H/M/L)		dB(A)	32/30/27	32/27/23	45/39/35	38/34/30	44/40/35
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1	1
Fan	Type		Tangential fan	Tangential fan	Tangential fan	Tangential fan	Tangential fan
	Quantity		1	1	1	1	1
Coil	Row		2	2	2	2	2
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ7
Net dimensions (W×H×D)		mm	915×290×230	915×290×230	915×290×230	1072×315×230	1072×315×230
Packing size (W×H×D)		mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315	1180×415×315
Net weight		kg	12.7	12.7	12.7	15.1	14.9
Gross weight		kg	17.3	17.6	16.3	19	18.6
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ20	ODΦ20	ODΦ20	ODΦ20	ODΦ20

Notes:
Based on Eurovent conditions:
H: High fan speed; M: Medium fan speed; L: Low fan speed.
1 :Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C, high fan speed.
2 :Heating mode (1): (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C, high fan speed.
3 :Heating mode (2): (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)

2nd Generation Ceiling&Floor series

Model: 150/250/350/500/700/800 CFM

KJR-75A
Optional

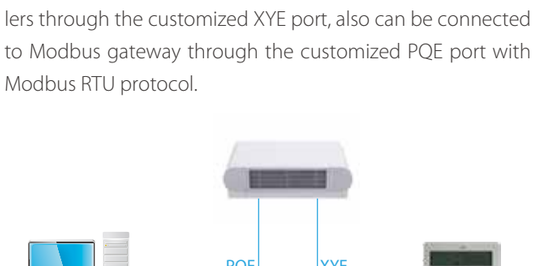
Features

- 3 or 4 rows coil are optional for whole series .
- 2-Pipe and 4-Pipe are optional for whole series.
- Ultra-thin with 200 mm thickness.
- Hysteresis temperature can be set in heating and cooling mode by PCB switch, field adjustable.
- With/without forced fan on can be set by PCB switch, field adjustable.
- The XYE port(Centralized) and PQE port (Modbus) are can be customized.
- Compatible with 0-10V input/output function(customized).
- Floor standing/Horizontal/ Concealed type installation available (For floor standing : The footing is optional).
- Auto mode and 7 fan speed (by 75A wired controller).

Floor standing unit with multi casing options can be installed quickly and easily in new or existing facilities in a variety of applications

Multiple Fan Speeds

The DC Series comes with 3 fan speed option to meet the needs of different indoor conditions. (7 fan speed should be used KIR-75A wired controller)



Auto restart

In the event of a sudden power failure during operation,unit restarts automatically and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed).

Control solutions

The fan coil units can be connected to MDV central controllers through the customized XYE port, also can be connected to Modbus gateway through the customized PQE port with Modbus RTU protocol.

Multiple Appearance Options

The Floor Standing Unit has three appearance options to meet different installation requirement, the H3 (concealed) unit is designed to be concealed in walls while the H1 (front air intake) and H2 (underside air intake) offer a choice of air intake options.

Concealed Type
H3 Series

Exposed Type
(air return from bottom)
H2 Series

Exposed Type
(air return from side)
H1 Series

Ease of Installation and Maintenance

The ceiling and floor unit offers exposed installation. The installation and maintenance is easy. The maintenance of the machine is quite easy and the key components can be accessed from the bottom of the machine.

Ceiling and Floor Installation Option

The unit is uniquely designed with the possibility to be installed beneath the ceiling on the floor to suit any interior design requirements.

2- Pipe 2nd Generation Ceiling&Floor

Model			MDVF-150CF13VE	MDVF-150CF14VE	MDVF-250CF13VE	MDVF-250CF14VE	MDVF-350CF13VE	MDVF-350CF14VE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	245/160/135	245/180/130	380/245/140	380/240/110	580/435/310	580/430/300
		CFM	144/94/79	144/106/76	224/144/82	224/141/65	341/256/182	341/253/176
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	1.44/1.01/0.88	1.87/1.59/1.16	2.23/1.84/1.13	2.55/1.90/1.26	3.41/2.81/2.16	3.80/3.11/2.36
	Water flow rate(H/M/L)	m^3/h	0.25/0.17/0.15	0.32/0.27/0.2	0.38/0.32/0.19	0.44/0.33/0.22	0.58/0.48/0.37	0.65/0.53/0.40
	Water pressure drop(H/M/L)	kPa	13.4/7.9/6.0	26.1/20.1/11.8	12.7/9.5/4.4	23.2/13.5/6.6	33.4/24.0/15.0	36.5/25.3/15.0
He ating	Capacity (H/M/L)	kW	1.50/1.02/0.88	1.97/1.68/1.20	2.47/2.00/1.27	2.63/1.92/1.27	3.70/3.02/2.29	3.90/3.13/2.43
	Water flow rate(H/M/L)	m^3/h	0.26/0.17/0.15	0.34/0.29/0.21	0.42/0.34/0.22	0.45/0.33/0.22	0.63/0.52/0.39	0.67/0.54/0.40
	Water pressure drop(H/M/L)	kPa	14.5/7.3/5.6	24.0/18.8/9.9	13.6/9.8/4.3	21.8/12.2/5.9	34.2/23.8/14.5	35.6/24.7/13.9
Power input (H/M/L)		W	19/15/10	20/16/11	20/13/10	21/12/8	27/18/11	30/18/12
Sound power level	(H/M/L)	dB(A)	47/36/34	52/46/39	43/35/27	46/38/30	52/45/37	52/45/37
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	790×495×211	790×495×211	1020×495×211	1020×495×211	1240×495×211	1240×495×211
	Packing size (W×H×D)	mm	895×595×300	895×595×300	1125×595×300	1125×595×300	1345×595×300	1345×595×300
	Net weight	kg	18.0	18.5	21.5	22.0	25.5	26.5
	Gross weight	kg	23.5	24.0	27.5	28.0	32.5	33.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-500CF13VE	MDVF-500CF14VE	MDVF-700CF13VE	MDVF-700CF14VE	MDVF-800CF13VE	MDVF-800CF14VE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	780/550/380	780/560/390	1050/750/450	1050/770/460	1150/850/570	1150/860/600
		CFM	459/324/224	459/329/229	618/441/265	618/453/271	676/500/335	676/506/353
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	4.25/3.43/2.67	4.73/3.82/2.85	4.94/3.94/2.77	5.60/4.58/3.19	6.21/5.17/3.86	7.30/5.88/4.28
	Water flow rate(H/M/L)	m^3/h	0.73/0.59/0.46	0.81/0.65/0.49	0.85/0.68/0.47	0.96/0.79/0.55	1.06/0.89/0.66	1.25/1.01/0.73
	Water pressure drop(H/M/L)	kPa	53.5/35.8/24.1	53.0/35.9/21.2	44.7/29.5/15.6	28.9/19.2/10.1	37.3/28.5/16.4	63.0/40.8/22.5
Heating	Capacity (H/M/L)	kW	4.64/3.65/2.77	5.12/3.98/2.96	5.29/4.20/2.96	6.22/4.95/3.37	6.80/5.46/3.98	7.70/6.02/4.29
	Water flow rate(H/M/L)	m^3/h	0.80/0.63/0.47	0.88/0.68/0.51	0.91/0.72/0.51	1.07/0.85/0.58	1.17/0.94/0.68	1.32/1.03/0.74
	Water pressure drop(H/M/L)	kPa	53.6/36.4/22.0	52.0/35.6/20.0	49.0/33.2/17.0	33.2/22.5/11.0	39.7/27.0/15.4	55.0/36.4/19.2
Power input (H/M/L)		W	50/26/15	52/28/15	98/45/18	99/50/20	105/50/24	105/50/23
Sound power level	(H/M/L)	dB(A)	59/52/43	59/52/43	65/57/45	65/56/46	66/59/49	65/59/49
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	1240×495×211	1240×495×211	1360×495×211	1360×495×211	1360×495×211	1360×495×211
	Packing size (W×H×D)	mm	1345×595×300	1345×595×300	1465×595×300	1465×595×300	1465×595×300	1465×595×300
	Net weight	kg	25.5	26.5	28.5	29.5	32.5	34.5
	Gross weight	kg	32.5	33.5	36.0	37.0	41.0	42.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
3. Noise is tested in a reverberation chamber.

2- Pipe 2nd Generation Ceiling&Floor

Model			MDVF-150CF23VE	MDVF-150CF24VE	MDVF-250CF23VE	MDVF-250CF24VE	MDVF-350CF23VE	MDVF-350CF24VE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/170/150	255/210/150	400/315/190	425/300/190	595/470/340	595/450/310
		CFM	150/100/88	150/124/88	235/185/112	250/176/112	350/276/200	350/265/182
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	1.50/1.06/0.92	1.95/1.66/1.21	2.35/1.94/1.19	2.85/2.13/1.41	3.50/2.89/2.22	3.90/3.20/2.43
	Water flow rate(H/M/L)	m^3/h	0.26/0.18/0.16	0.33/0.28/0.21	0.40/0.34/0.21	0.49/0.37/0.24	0.60/0.50/0.38	0.67/0.55/0.42
	Water pressure drop(H/M/L)	kPa	13.9/8.21/6.16	27.2/20.88/12.2	13.3/9.98/4.59	26/15.06/7.41	34.1/24.63/15.39	37.4/25.91/15.37
Heating	Capacity (H/M/L)	kW	1.57/1.07/0.92	2.05/1.75/1.25	2.60/2.11/1.34	2.95/2.15/1.42	3.80/3.10/2.35	4.00/3.22/2.50
	Water flow rate(H/M/L)	m^3/h	0.27/0.19/0.16	0.35/0.30/0.22	0.45/0.37/0.23	0.51/0.37/0.24	0.65/0.53/0.40	0.70/0.56/0.43
	Water pressure drop(H/M/L)	kPa	15.1/7.63/5.84	25.3/19.65/10.25	14.3/10.33/4.5	24.4/13.65/6.64	35.1/24.41/14.82	36.5/25.34/14.22
Power input (H/M/L)		W	15/9/8	20/14/9	17/12/7	20/11/8	26/17/10	29/17/11
Sound power level	(H/M/L)	dB(A)	47/36/34	52/46/38	43/37/29	46/37/29	52/44/36	52/45/36
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	790×495×200	790×495×200	1020×495×200	1020×495×200	1240×495×200	1240×495×200
	Packing size (W×H×D)	mm	895×595×300	895×595×300	1125×595×300	1125×595×300	1345×595×300	1345×595×300
	Net weight	kg	18.0	18.5	21.5	22.0	25.5	26.5
	Gross weight	kg	23.5	24.0	27.5	28.0	32.5	33.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-500CF23VE	MDVF-500CF24VE	MDVF-700CF23VE	MDVF-700CF24VE	MDVF-800CF23VE	MDVF-800CF24VE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	790/580/410	800/600/420	1190/855/505	1190/875/530	1360/1015/685	1300/980/680
		CFM	488/359/253	471/353/247	700/503/297	700/515/312	800/597/403	765/576/400
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	4.30/3.48/2.71	4.85/3.92/2.93	5.60/4.47/3.14	6.35/5.19/3.62	7.35/6.12/4.57	8.25/6.65/4.84
	Water flow rate(H/M/L)	m^3/h	0.74/0.60/0.47	0.83/0.67/0.51	0.96/0.77/0.54	1.09/0.90/0.63	1.27/1.05/0.79	1.43/1.14/0.83
	Water pressure drop(H/M/L)	kPa	54.2/36.22/22.78	54.3/36.81/21.77	50.7/33.38/17.73	32.8/21.75/11.43	44.1/33.7/19.41	71.4/46.17/25.39
Heating	Capacity (H/M/L)	kW	4.70/3.70/2.81	5.25/4.09/3.04	6.00/4.77/3.36	7.05/5.61/3.83	8.05/6.46/4.71	8.70/6.81/4.85
	Water flow rate(H/M/L)	m^3/h	0.81/0.64/0.48	0.91/0.71/0.53	1.04/0.83/0.59	1.22/0.98/0.67	1.39/1.12/0.82	1.51/1.18/0.83
	Water pressure drop(H/M/L)	kPa	54.3/36.87/22.32	53.4/36.54/20.47	55.5/37.66/19.27	37.6/25.47/12.5	46.9/31.9/18.16	62.6/41.06/21.68
Power input (H/M/L)		W	50/25/14	52/28/15	96/44/17	92/46/19	113/53/22	102/49/22
Sound power level	(H/M/L)	dB(A)	59/51/43	59/51/43	64/56/45	62/56/46	63/58/49	63/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type			Centrifugal, forward-curved Blades				
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	1240×495×200	1240×495×200	1360×495×200	1360×495×200	1360×591×200	1360×591×200
	Packing size (W×H×D)	mm	1345×595×300	1345×595×300	1465×595×300	1465×595×300	1465×695×300	1465×695×300
	Net weight	kg	25.5	26.5	28.5	29.5	32.5	34.5
	Gross weight	kg	32.5	33.5	36.0	37.0	41.0	42.5
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
   Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
3. Noise is tested in a reverberation chamber.

2- Pipe 2nd Generation Ceiling&Floor

Model			MDVF-150CF33VE	MDVF-150CF34VE	MDVF-250CF33VE	MDVF-250CF34VE	MDVF-350CF33VE	MDVF-350CF34VE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/170/150	255/210/150	400/315/190	425/300/190	595/470/340	595/450/310
		CFM	150/100/88	150/124/88	235/185/112	250/176/112	350/276/200	350/265/182
External static pressure		Pa	12					
Cooling	Capacity (H/M/L)	kW	1.50/1.06/0.92	1.95/1.66/1.21	2.35/1.94/1.19	2.85/2.13/1.41	3.50/2.89/2.22	3.90/3.20/2.43
	Water flow rate(H/M/L)	m^3/h	0.26/0.18/0.16	0.33/0.28/0.21	0.40/0.34/0.21	0.49/0.37/0.24	0.60/0.50/0.38	0.67/0.55/0.42
	Water pressure drop(H/M/L)	kPa	13.9/8.21/6.16	27.2/20.88/12.2	13.3/9.98/4.59	26/15.06/7.41	34.1/24.63/15.39	37.4/25.91/15.37
Heating	Capacity (H/M/L)	kW	1.57/1.07/0.92	2.05/1.75/1.25	2.60/2.11/1.34	2.95/2.15/1.42	3.80/3.10/2.35	4.00/3.22/2.50
	Water flow rate(H/M/L)	m^3/h	0.27/0.19/0.16	0.35/0.30/0.22	0.45/0.37/0.23	0.51/0.37/0.24	0.65/0.53/0.40	0.70/0.56/0.43
	Water pressure drop(H/M/L)	kPa	15.1/7.63/5.84	25.3/19.65/10.25	14.3/10.33/4.5	24.4/13.65/6.64	35.1/24.41/14.82	36.5/25.34/14.22
Power input (H/M/L)		W	15/9/8	20/14/9	17/12/7	20/11/8	26/17/10	29/17/11
Sound power level	(H/M/L)	dB(A)	47/36/34	52/46/38	43/37/29	46/37/29	52/44/36	52/45/36
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	1	2	2	2	2
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	637×455×200	637×455×200	867×455×200	867×455×200	1087×455×200	1087×455×200
	Packing size (W×H×D)	mm	755×555×255	755×555×255	985×555×255	985×555×255	1205×555×255	1205×555×255
	Net weight	kg	11.8	12.1	13.9	14.8	17.3	18.2
	Gross weight	kg	16.1	16.4	19.4	20.3	24.0	24.9
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-500CF33VE	MDVF-500CF34VE	MDVF-700CF33VE	MDVF-700CF34VE	MDVF-800CF33VE	MDVF-800CF34VE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	790/580/410	800/600/420	1190/855/505	1190/875/530	1360/1015/685	1300/980/680
		CFM	488/359/253	471/353/247	700/503/297	700/515/312	800/597/403	765/576/400
External static pressure		Pa	12					
Cooling	Capacity (H/M/L)	kW	4.30/3.48/2.71	4.85/3.92/2.93	5.60/4.47/3.14	6.35/5.19/3.62	7.35/6.12/4.57	8.25/6.65/4.84
	Water flow rate(H/M/L)	m^3/h	0.74/0.60/0.47	0.83/0.67/0.51	0.96/0.77/0.54	1.09/0.90/0.63	1.27/1.05/0.79	1.43/1.14/0.83
	Water pressure drop(H/M/L)	kPa	54.2/36.22/22.78	54.3/36.81/21.77	50.7/33.38/17.73	32.8/21.75/11.43	44.1/33.7/19.41	71.4/46.17/25.39
Heating	Capacity (H/M/L)	kW	4.70/3.70/2.81	5.25/4.09/3.04	6.00/4.77/3.36	7.05/5.61/3.83	8.05/6.46/4.71	8.70/6.81/4.85
	Water flow rate(H/M/L)	m^3/h	0.81/0.64/0.48	0.91/0.71/0.53	1.04/0.83/0.59	1.22/0.98/0.67	1.39/1.12/0.82	1.51/1.18/0.83
	Water pressure drop(H/M/L)	kPa	54.3/36.87/22.32	53.4/36.54/20.47	55.5/37.66/19.27	37.6/25.47/12.5	46.9/31.9/18.16	62.6/41.06/21.68
Power input (H/M/L)		W	50/25/14	52/28/15	96/44/17	92/46/19	113/53/22	102/49/22
Sound power level	(H/M/L)	dB(A)	59/51/43	59/51/43	64/56/45	62/56/46	63/58/49	63/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		2	2	3	3	3	3
Coil	Row		3	4	3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	1087×455×200	1087×455×200	1207×455×200	1207×455×200	1207×550×200	1207×550×200
	Packing size (W×H×D)	mm	1205×555×255	1205×555×255	1325×555×255	1325×555×255	1325×650×255	1325×650×255
	Net weight	kg	17.3	18.2	19.6	20.8	23.1	24.3
	Gross weight	kg	24.0	24.9	26.4	27.6	30.2	31.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 45°C, leaving water 40°C, Entering air temperature 20°C DB/15°C WB.
3. Noise is tested in a reverberation chamber.
4. H3 series test with concealed tooling.

4- Pipe 2nd Generation Ceiling&Floor

Model			MDVF-150CF14VFE	MDVF-250CF14VFE	MDVF-350CF14VFE	MDVF-500CF14VFE	MDVF-700CF14VFE	MDVF-800CF14VFE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	245/180/130	380/240/110	580/430/300	780/560/390	1050/770/460	1150/860/600
		CFM	144/106/76	224/141/65	341/253/176	459/329/229	618/453/271	676/506/353
External static pressure		Pa	0					
Cooling	Capacity (H/M/L)	kW	1.63/1.38/0.91	2.41/1.73/0.99	3.70/3.10/2.26	4.49/3.66/2.76	5.34/4.41/3.02	6.77/5.48/4.02
	Water flow rate(H/M/L)	m^3/h	0.279/0.24/0.16	0.41/0.30/0.17	0.63/0.53/0.38	0.77/0.63/0.47	0.92/0.76/0.52	1.16/0.94/0.69
	Water pressure drop(H/M/L)	kPa	17.5/13.2/7.2	15.2/8.7/3.1	38.2/27.6/16.5	54.8/38.1/23.2	47.4/32.6/16.8	42.5/28.8/16.2
Heating	Capacity (H/M/L)	kW	1.35/1.18/0.91	2.06/1.45/1.02	2.81/2.43/1.95	3.27/2.81/2.30	4.06/3.48/2.66	6.63/5.7/4.62
	Water flow rate(H/M/L)	m^3/h	0.12/0.10/0.08	0.18/0.13/0.09	0.24/0.21/0.17	0.28/0.24/0.20	0.35/0.3/0.23	0.57/0.49/0.40
	Water pressure drop(H/M/L)	kPa	10.3/8.2/5.3	25.2/15.0/8.5	54.0/41.9/28.5	67.8/53.3/37.3	116.76/91.94/56.23	63.4/49.7/33.1
Power input (H/M/L)		W	20/16/11	21/12/8	30/18/12	52/28/15	99/50/20	105/50/23
Sound power level	(H/M/L)	dB(A)	52/46/39	46/38/30	52/45/37	59/52/43	65/56/46	65/59/49
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	790×495×211	1020×495×211	1240×495×211	1240×495×211	1360×495×211	1360×591×211
	Packing size (W×H×D)	mm	895×595×300	1125×595×300	1345×595×300	1345×595×300	1465×595×300	1465×695×300
	Net weight	kg	19.0	22.5	27.0	27.0	30.0	35.0
	Gross weight	kg	24.5	28.5	34.0	34.0	37.5	43.0
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Model			MDVF-150CF24VFE	MDVF-250CF24VFE	MDVF-350CF24VFE	MDVF-500CF24VFE	MDVF-700CF24VFE	MDVF-800CF24VFE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/206/134	425/280/158	595/461/324	800/595/417	1190/887/564	1300/969/661
		CFM	150/121/79	250/165/93	350/271/191	471/350/245	700/522/332	765/570/389
External static pressure		Pa	0					
Cooling	Sensible Capacity(H/M/L)	kW	1.30/1.07/0.64	1.90/1.30/0.70	2.80/2.30/1.61	3.50/2.75/2.01	4.80/3.88/2.53	5.90/4.60/3.30
	Capacity (H/M/L)	kW	1.70/1.44/0.95	2.70/1.94/1.10	3.80/3.18/2.32	4.60/3.75/2.83	6.05/5.00/3.43	7.65/6.19/4.54
	Water flow rate	m^3/h	0.29/0.25/0.16	0.46/0.33/0.19	0.65/0.55/0.40	0.79/0.64/0.49	1.04/0.86/0.59	1.31/1.06/0.78
	Water pressure drop	kPa	18.16/13.74/7.50	16.97/9.73/3.51	39.17/28.35/16.91	56.18/39.04/23.84	53.66/36.96/19.07	48.07/32.56/18.32
Heating	Capacity (H/M/L)	kW	1.40/1.23/0.95	2.30/1.78/1.22	2.88/2.49/2.00	3.35/2.88/2.36	4.60/3.95/3.02	7.50/6.44/5.22
	Water flow rate	m^3/h	0.12/0.11/0.08	0.20/0.15/0.10	0.25/0.21/0.17	0.29/0.25/0.20	0.39/0.34/0.26	0.64/0.55/0.45
	Water pressure drop	kPa	10.74/8.50/5.49	28.16/18.45/10.08	55.37/43.00/29.20	69.57/54.65/38.21	132.32/104.19/63.73	71.63/56.17/37.44
Power input (H/M/L)		W	20/14/9	20/11/8	29/17/11	52/28/15	92/46/19	102/49/22
Rated current		A	0.21	0.22	0.28	0.51	0.79	0.87
Sound power level	(H/M/L)	dB(A)	52/46/38	46/37/29	52/45/36	59/52/43	63/58/46	64/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	790×495×200	1020×495×200	1240×495×200	1240×495×200	1360×495×200	1360×591×200
	Packing size (W×H×D)	mm	895×595×300	1125×595×300	1345×595×300	1345×595×300	1465×595×300	1465×695×300
	Net weight	kg	19.0	22.5	27.0	27.0	30.0	35.0
	Gross weight	kg	24.5	28.5	34.0	34.0	37.5	43.0
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODΦ18.5					

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7 ℃, leaving water 12 ℃, Entering air temperature 27 ℃ DB/19 ℃ WB.
   Heating conditions: Entering water 65 ℃, leaving water 55 ℃, Entering air temperature 20 ℃ DB/15 ℃ WB.
3. Noise is tested in a reverberation chamber.

Model			MDVF-150CF34VFE	MDVF-250CF34VFE	MDVF-350CF34VFE	MDVF-500CF34VFE	MDVF-700CF34VFE	MDVF-800CF34VFE
Power supply		V/Ph/Hz	220-240/1/50					
Air flow (H/M/L)		m^3/h	255/206/134	425/280/158	595/461/324	800/595/417	1190/887/564	1300/969/661
		CFM	150/121/79	250/165/93	350/271/191	471/350/245	700/522/332	765/570/389
External static pressure		Pa	12					
Cooling	Sensible Capacity(H/M/L)	kW	1.30/1.07/0.64	1.90/1.30/0.70	2.80/2.30/1.61	3.50/2.75/2.01	4.80/3.88/2.53	5.90/4.60/3.30
	Capacity (H/M/L)	kW	1.70/1.44/0.95	2.70/1.94/1.10	3.80/3.18/2.32	4.60/3.75/2.83	6.05/5.00/3.43	7.65/6.19/4.54
	Water flow rate	m^3/h	0.29/0.25/0.16	0.46/0.33/0.19	0.65/0.55/0.40	0.79/0.64/0.49	1.04/0.86/0.59	1.31/1.06/0.78
	Water pressure drop	kPa	18.16/13.74/7.50	16.97/9.73/3.51	39.17/28.35/16.91	56.18/39.04/23.84	53.66/36.96/19.07	48.07/32.56/18.32
Heating	Capacity (H/M/L)	kW	1.40/1.23/0.95	2.30/1.78/1.22	2.88/2.49/2.00	3.35/2.88/2.36	4.60/3.95/3.02	7.50/6.44/5.22
	Water flow rate	m^3/h	0.12/0.11/0.08	0.20/0.15/0.10	0.25/0.21/0.17	0.29/0.25/0.20	0.39/0.34/0.26	0.64/0.55/0.45
	Water pressure drop	kPa	10.74/8.50/5.49	28.16/18.45/10.08	55.37/43.00/29.20	69.57/54.65/38.21	132.32/104.19/63.73	71.63/56.17/37.44
Power input (H/M/L)		W	20/14/9	20/11/8	29/17/11	52/28/15	92/46/19	102/49/22
Rated current		A	0.21	0.22	0.28	0.51	0.79	0.87
Sound power level	(H/M/L)	dB(A)	52/46/38	46/37/29	52/45/36	59/51/43	62/56/46	63/57/47
Fan motor	Type		Low noise DC fan motor					
	Quantity		1	1	1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades					
	Quantity		1	2	2	2	3	3
Coil	Row		4	4	4	4	4	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×H×D)	mm	637×455×200	867×455×200	1087×455×200	1087×455×200	1207×455×200	1207×550×200
	Packing size (W×H×D)	mm	895×595×300	1125×595×300	1345×595×300	1345×595×300	1465×595×300	1465×695×300
	Net weight	kg	12.6	15.3	18.7	18.7	21.3	24.8
	Gross weight	kg	16.9	20.8	25.4	25.4	28.1	31.9
Water inlet/outlet pipe		inch	Cold water: G3/4; Hot water: G1/2					
Drain pipe		mm	ODΦ18.5					

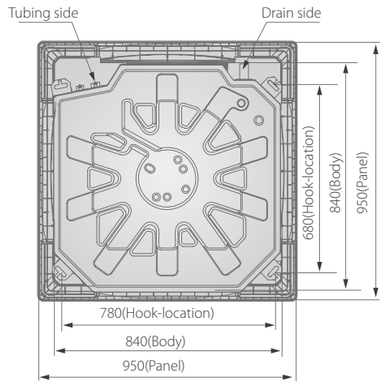
Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7°C, leaving water 12°C, Entering air temperature 27°C DB/19°C WB.
   Heating conditions: Entering water 65°C, leaving water 55°C, Entering air temperature 20°C DB/15°C WB.
3. Noise is tested in a reverberation chamber.
4. This series test with concealed tooling.

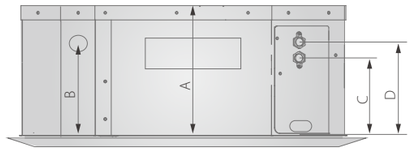
Dimensions

4-way cassette

2-pipe 4-way cassette

Dimensions (unit:mm)

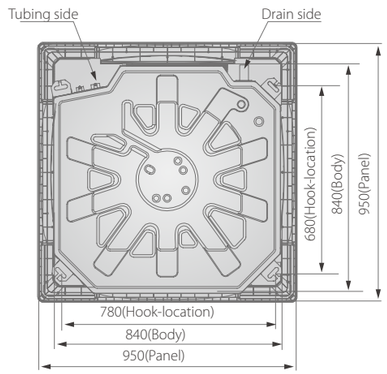




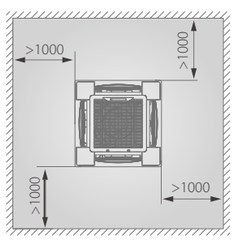
Model \ Size	A	B	C	D
MDVF-600C4E MDVF-750C4E	230	170	135	185
MDVF-850C4E MDVF-950C4E MDVF-1200C4E MDVF-1500C4E	300	190	145	195

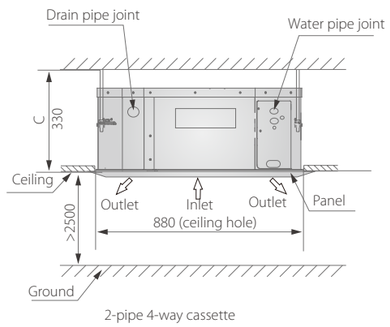
4-Pipe 4-way cassette

Dimensions (unit:mm)

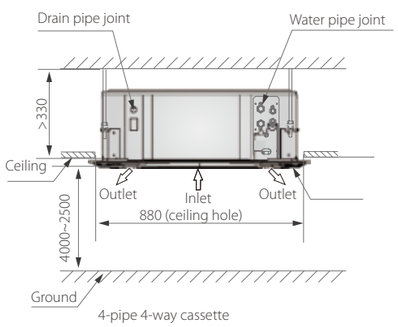


Service Spaces (unit:mm)





2-pipe 4-way cassette

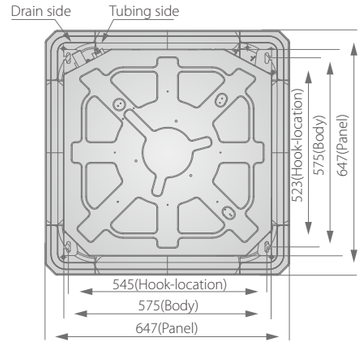


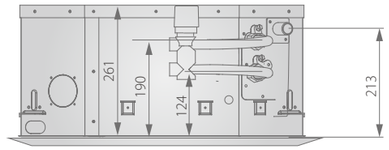
4-pipe 4-way cassette

Compact 4-way cassette

2-pipe compact 4-way cassette

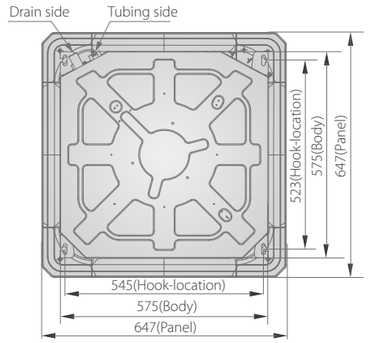
Dimensions (unit: mm)

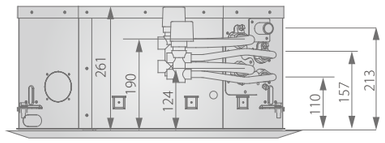




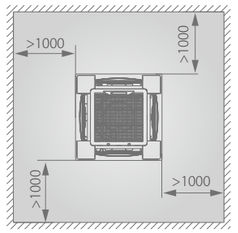
4-pipe compact 4-way cassette

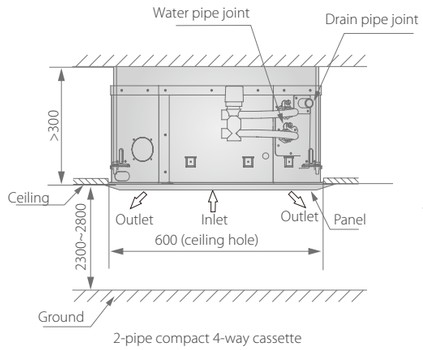
Dimensions (unit: mm)



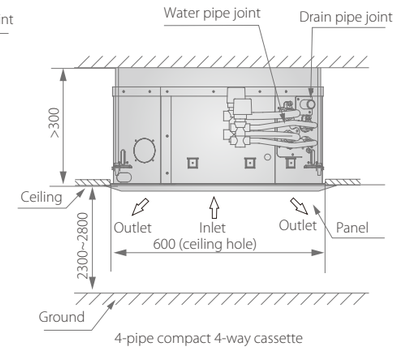


Service Space (unit: mm)



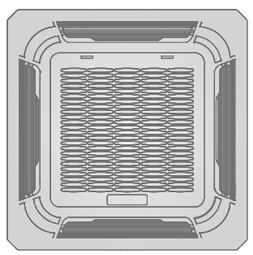


2-pipe compact 4-way cassette



4-pipe compact 4-way cassette

Thickness of the front panel

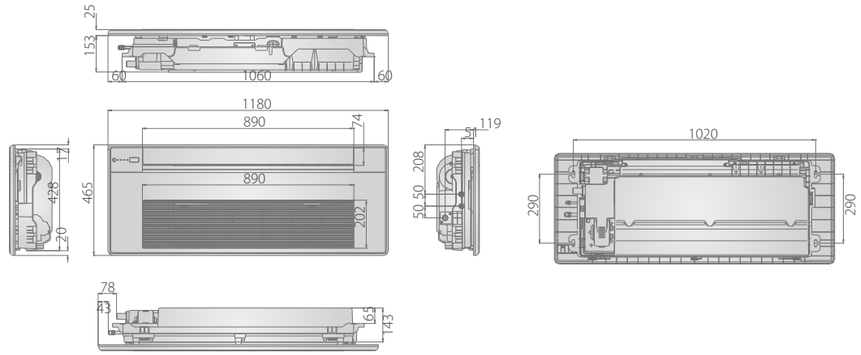


Type	H (mm)
4-way cassette	45
Compact 4-way cassette	50

1-way cassette

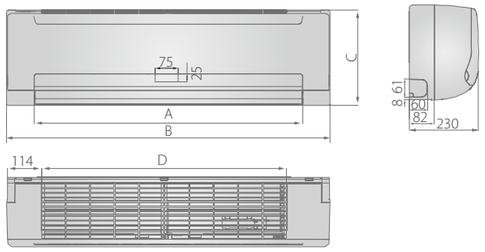
Dimensions (unit: mm)

MDVF-300C1E



Wall mounted - S type

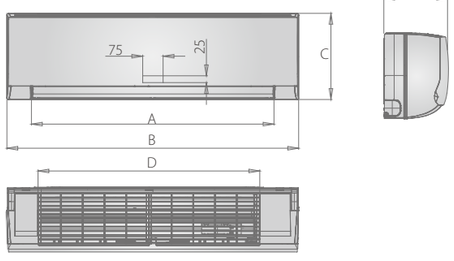
Dimensions (unit: mm)



Size \ Model	MDVF-250WMSE MDVF-300WMSE MDVF-400WMSE	MDVF-500WMSE MDVF-600WMSE
A	732	892
B	915	1072
C	290	315
D	663	813

Wall mounted - A type

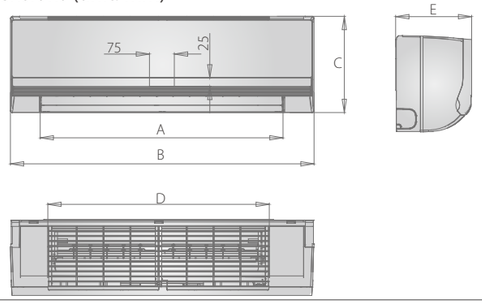
Dimensions (unit: mm)



Size \ Model	MDVF-250WMAE MDVF-300WMAE MDVF-400WMAE	MDVF-500WMAE MDVF-600WMAE
A	732	892
B	915	1072
C	290	315
D	663	813
E	233	237

Wall mounted - P type

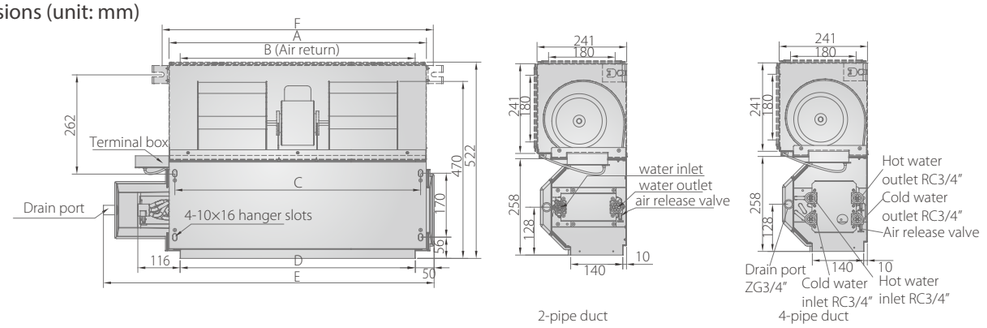
Dimensions (unit: mm)



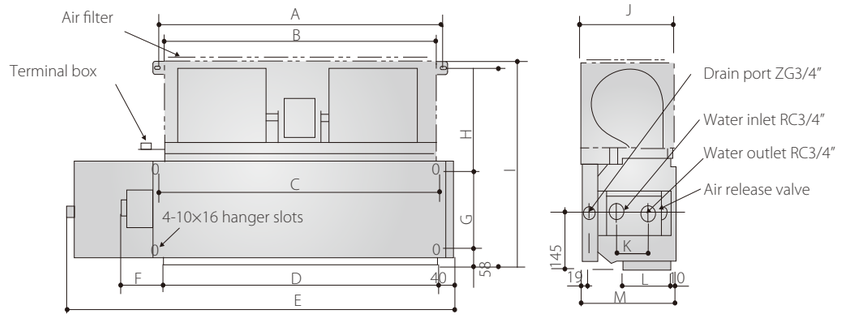
Size \ Model	MDVF-250WMPE MDVF-300WMPE MDVF-400WMPE	MDVF-500WMPE MDVF-600WMPE
A	732	892
B	915	1072
C	290	315
D	663	813
E	229	232

Duct

Dimensions (unit: mm)



Size	A	B	C	D	E	F
200CFM	545	485	513	485	741	583
300CFM	645	585	613	585	841	683
400CFM	745	685	713	685	941	783
500CFM	745	685	713	685	941	783
600CFM	965	905	933	905	1161	1003
800CFM	1265	1205	1233	1205	1461	1303
1000CFM	1370	1310	1338	1310	1566	1408
1200CFM	1660	1600	1628	1600	1856	1698
1400CFM	1826	1766	1794	1766	2022	1864



Notes:

This figure is for reference only, actual product may differ.

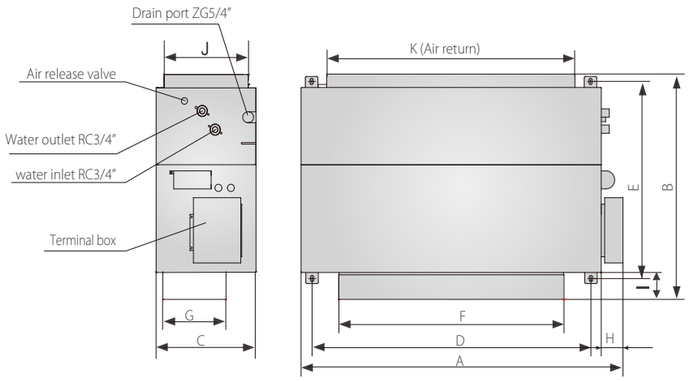
The dotted line in the figure is the dimension for air return plenum.

Units with air return plenum is standard, unis without air return plenum can be customized.

Size \ Model	MDVF-800/1000A44E	MDVF-1200/1400/ 1500/1600A44E	MDVF-1800/2000A44E
A	960	1085	1277
B	900	1135	1327
C	910	1112	1308
D	885	1085	1277
E	1180	1369	1500
F	150	160	160
G	195	195	195
H	335	335	335
I	612	612	612
J	342	342	342
K	231	231	231
L	230	230	230
M	340	340	340

High static pressure duct

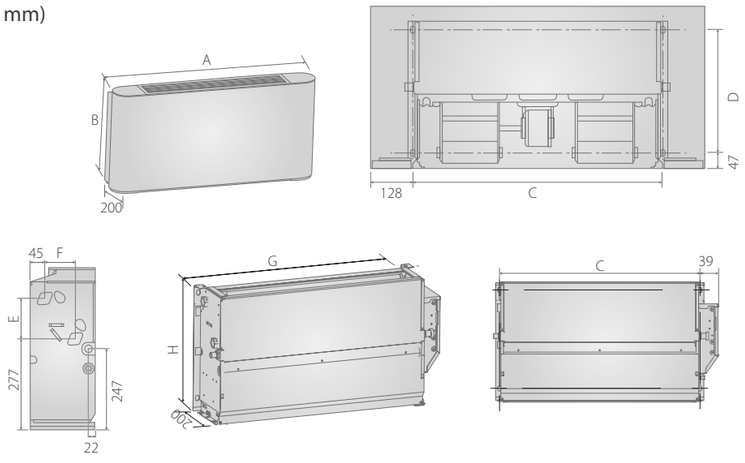
Dimensions (unit:mm)



Size \ Model	MDVF-800D70E MDVF-1000D70E MDVF-1200D70E MDVF-1400D70E	MDVF-1600D100E MDVF-1800D100E MDVF-2200D100E
A	946	1290
B	816	809
C	400	400
D	778	1118
E	767	765
F	306	900
G	219	249
H	88	88
I	37	39
J	338	320
K	512	995

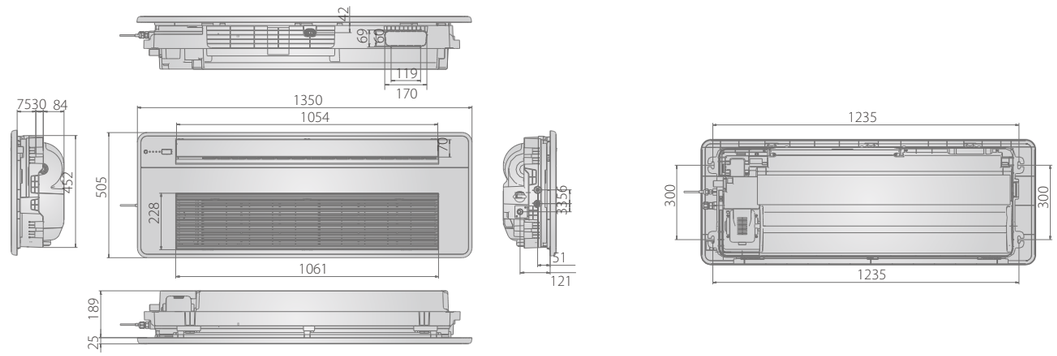
2nd generation Ceiling&Floor

Dimensions (unit: mm)

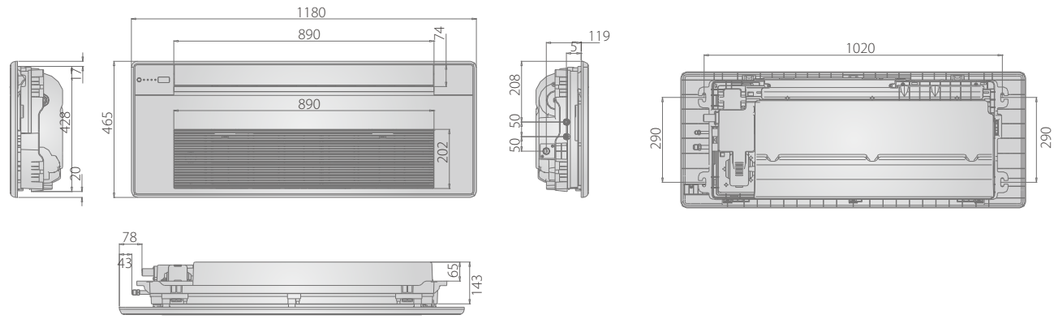


Model	150	250	300	500	700	800
A(mm)	790	1020	1240	1240	1360	1360
B(mm)	495	495	495	495	495	591
C(mm)	534	764	984	984	1104	1104
D(mm)	375	375	375	375	375	319
E(mm)	123	123	123	123	123	219
F(mm)	93	93	93	93	93	102
G(mm)	628	858	1078	1078	1198	1198
H(mm)	455	455	455	455	455	551

1-way cassette



MDVF-400C1VE
MDVF-600C1VE

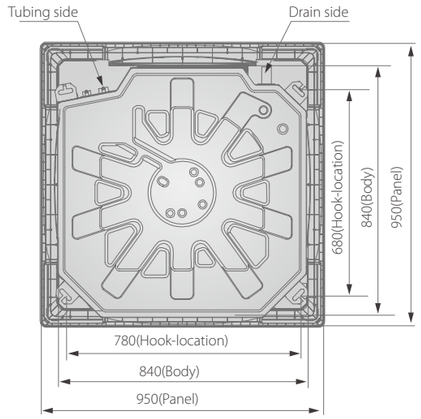


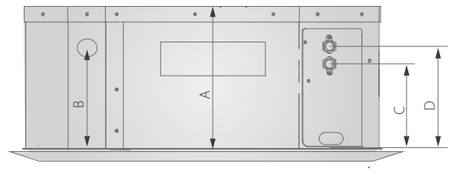
MDVF-300C1VE

4-way cassette

2-pipe 4-way cassette

Dimensions (unit:mm)

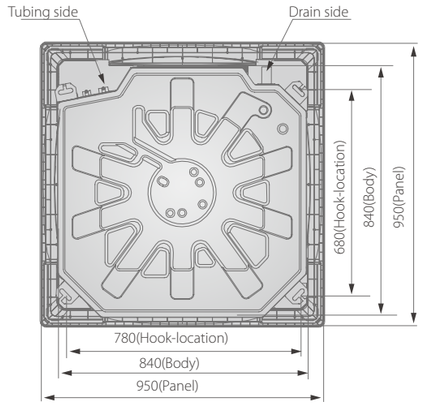


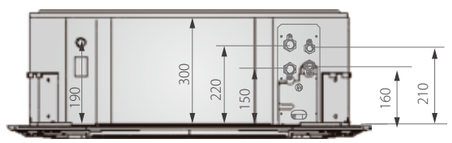


Model \ Size	A	B	C	D
MDVF-600C4VE MDVF-750C4VE	230	170	135	185
MDVF-850C4VE MDVF-950C4VE MDVF-1200C4VE MDVF-1500C4VE	300	190	145	195

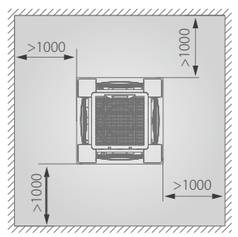
4-Pipe 4-way cassette

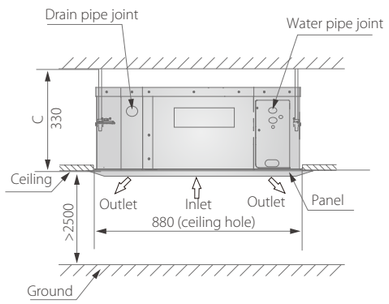
Dimensions (unit:mm)



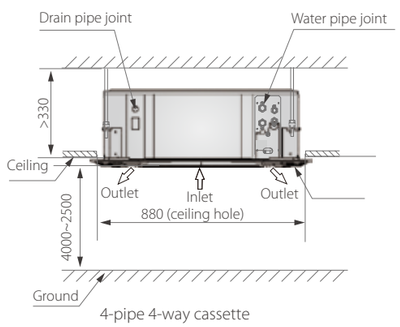


Service Spaces (unit:mm)





2-pipe 4-way cassette

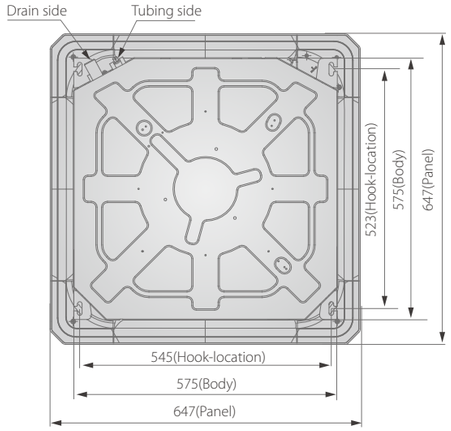


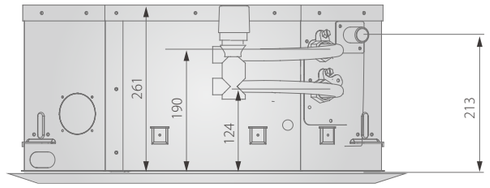
4-pipe 4-way cassette

Compact 4-way cassette

2-pipe compact 4-way cassette

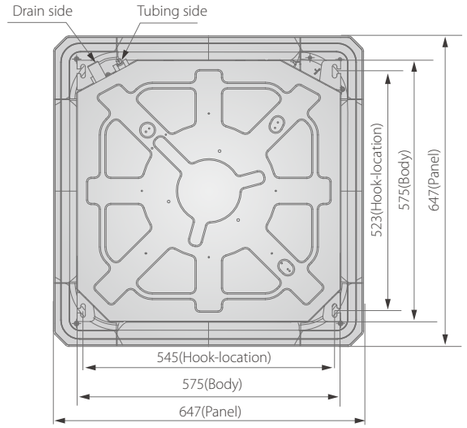
Dimensions (unit: mm)



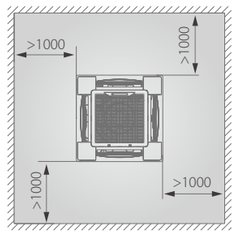


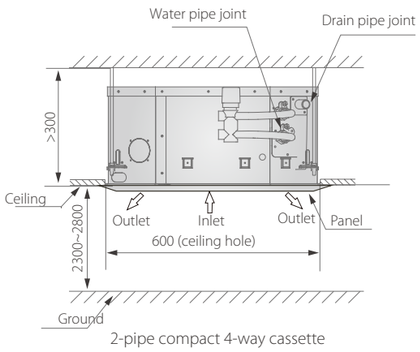
4-pipe compact 4-way cassette

Dimensions (unit: mm)

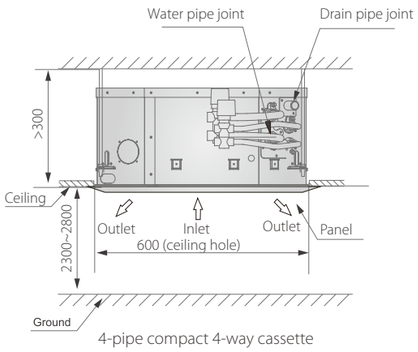


Service Spaces (unit: mm)



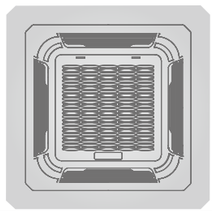


2-pipe compact 4-way cassette



4-pipe compact 4-way cassette

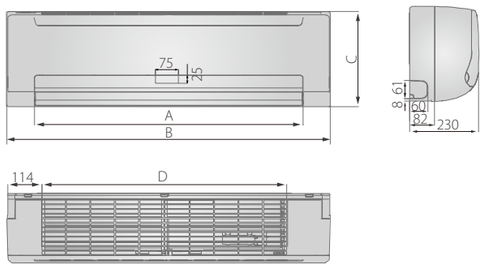
Height of the front panel



Type	H (mm)
4-way cassette	45
Compact 4-way cassette	50

Wall mounted - S type

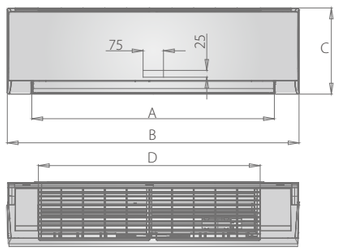
Dimensions (unit: mm)

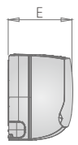


Size \ Model	MDVF-250WMSVE MDVF-300WMSVE MDVF-400WMSVE	MDVF-500WMSVE MDVF-600WMSVE
A	732	892
B	915	1072
C	290	315
D	663	813

Wall mounted - A type

Dimensions (unit: mm)

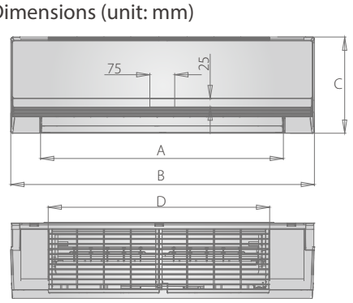




Size \ Model	MDVF-250WMAVE MDVF-300WMAVE MDVF-400WMAVE	MDVF-500WMAVE MDVF-600WMAVE
A	732	892
B	915	1072
C	290	315
D	663	813
E	233	237

Wall mounted - P type

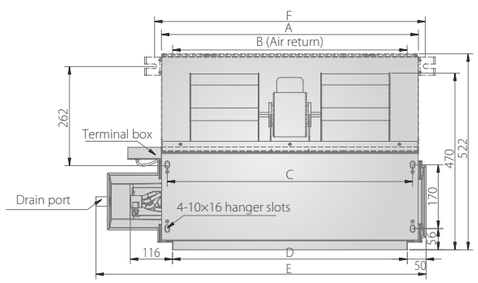
Dimensions (unit: mm)

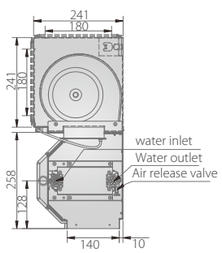


Size \ Model	MDVF-250WMPVE MDVF-300WMPVE MDVF-400WMPVE	MDVF-500WMPVE MDVF-600WMPVE
A	732	892
B	915	1072
C	290	315
D	663	813
E	229	232

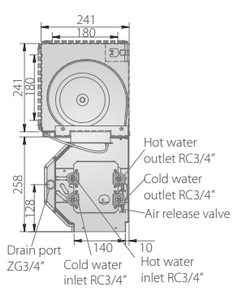
Duct

Dimensions (unit: mm)





2-pipe duct



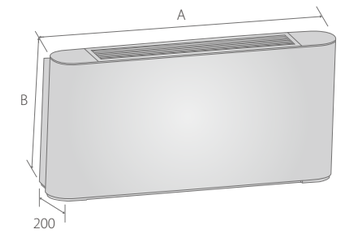
4-pipe duct

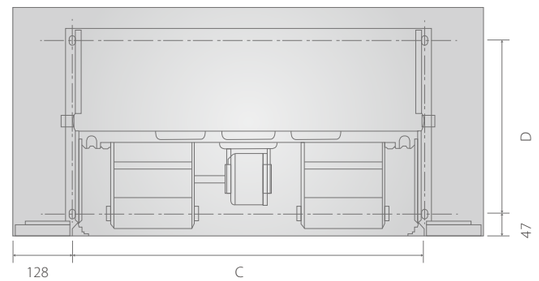
(continued: duct units dimensions)

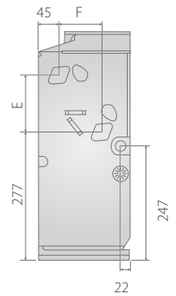
Size	A	B	C	D	E	F
200CFM	545	485	513	485	741	583
300CFM	645	585	613	585	841	683
400CFM	745	685	713	685	941	783
500CFM	745	685	713	685	941	783
600CFM	965	905	933	905	1161	1003
800CFM	1265	1205	1233	1205	1461	1303
1000CFM	1370	1310	1338	1310	1566	1408
1200CFM	1660	1600	1628	1600	1856	1698

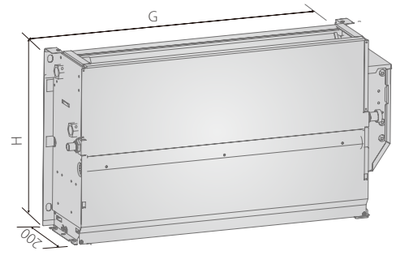
2nd generation Ceiling&Floor

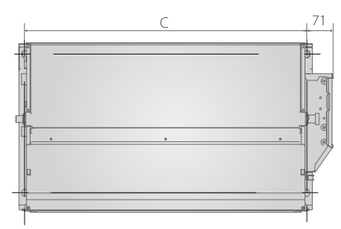
Dimensions (unit: mm)











Model	150	250	300	500	700	800
A(mm)	790	1020	1240	1240	1360	1360
B(mm)	495	495	495	495	495	591
C(mm)	534	764	984	984	1104	1104
D(mm)	375	375	375	375	375	319
E(mm)	123	123	123	123	123	219
F(mm)	93	93	93	93	93	102
G(mm)	628	858	1078	1078	1198	1198
H(mm)	455	455	455	455	455	551

CONTROL SOLUTIONS

MDV HBT provides a variety of control schemes:

Embedded wall-mounted comes with standard remote controller. Similarly the other models have their respective series of controllers. The units can also be made to connect with BMS systems by undergoing some customizations.

- Control Devices
- Accessories
- ApplApplication of Central Control & BMS Control
- AC Selection Software
- DC Selection Software

FCU-KIT Functions

Functions				FCUKZ-01	FCUKZ-02	FCUKZ-03	FCUKZ-04
Control Customization	Follow me	With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in the wireless remote controller.		×	×	×	×
	Anti cold air	Prevent the unit from cold supply air when starting in winter.		●	●	●	●
	Auto-restart	The unit restarts automatically with the previous settings after power failure		●	●	●	●
	Forced fan running	After reaching the set temperature, the valve body closes and the fan operates according to the setting.		√	√	○	○
	Heat	Only electric auxiliary heating.		√	√	○	○
	Temperature compensation	Heating mode:T2=T1+ΔT; Cooling mode:T2=T1-ΔT T2: Indoor Temperature, T1: Setting Temperature, ΔT: Temperature Compensation		√	√	○	○
	XYE Port	Communicate with central controllers or BMS.		●	●	●	●
	PQE Port	Communicate with Modbus.		○	○	●	●
	CCM18/CCM08/ CCM15/BMS/IMM	Central controllers and BMS.		●	●	●	●
	0-10V output control	By outputting a 0-10 V level, the opening of the valve body is controlled to meet different energy requirements.		×	×	×	×
	0-10V intput control	By inputting a 0- 10 V level to PCB, the fan motor speed is controlled to meet different energy requirements.		×	×	×	×
	Display board	-		●	●	×	×

Note:
●: equipped as standard; ○: customization option; ×: without this function; √: switch setting

Control Devices

Wireless Remote Controllers

Model	Appearance	Function Descriptions	Applicable FCUs
R05/BGE		● LCD display screen ● Mode control ● Fan speeds control ● Time setting / Temp. setting / Swing setting	4-way Cassette (standard) 1-way Cassette (standard)
R51/E			Compact 4-way cassette (standard) Wall-mounted (standard)
RM12F		● Display panel (Digital Tube) off	Wall-mounted （New）
		● Individual louver control	4-way Cassette(New)

Wired Controllers

Model	Appearance	Function Descriptions	Applicable FCUs
KJR-18B/E		● Mechanical thermostat ● Mode control ● Fan speeds control ● Temp. setting	AC Ceiling& Floor and Duct without electric heater (optional)
KJR-29B		● Receiving remote signal ● Mode control ● Fan speeds control ● Temp. setting	AC Cassette / Wall-mounted (optional) DC Cassette / Wall-mounted (optional)
KJR-75A/BK		● LED display screen ● Mode control ● Seven speed fan control ● Temp. setting	DC 2nd generation Ceiling&Floor(optional) DC one-way cassette (optional)
KJRP-86I/MFK-E		● LCD display screen ● Mode control ● Fan speeds control ● Timer / Temp. setting ● ECO setting/reminder	AC Ceiling& Floor and AC&DC Duct without electric heater (optional)
KJRP-86A/BMFNKD-E		● LCD display screen ● Mode/Electric heater control ● Fan speeds control ● Timer / Temp. setting ● ECO setting/reminder ● Compatible with Modbus	AC Ceiling& Floor and AC&DC Duct (optional)

Centralized Controllers

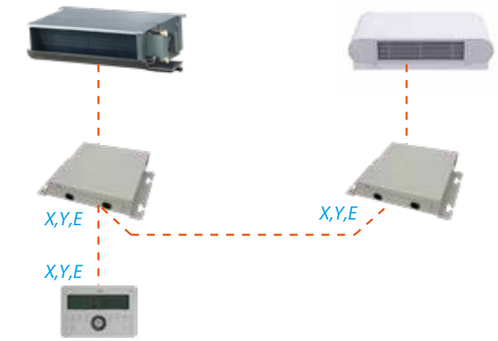
Model	Appearance	Function Descriptions	Applicable FCUs
CCM09		● Weekly schedule function ● Large LCD display screen ● Max. of 64 FCUs can be controlled by a CCM09 ● Mode control / fan speed control ● Time setting / temp. setting / swing setting	All FCUs (AC 1-way cassette FCUs need adding NIM01 module, non-PCB FCUs need adding PC board control kit)
CCM30		● Touch-style keys ● Large LCD display screen ● Max. of 64 FCUs can be controlled by a CCM30 ● Mode control / fan speed control ● Time setting / temp. setting / swing setting	

Accessories

PC Board Control Kit for FCU

- Available for all non-PCB FCUs.
- Flexibility installation: can be attached to the unit, mounted on a wall or hung under a ceiling.
- External installation making maintenance more convenient.
- Functions: three fan speeds control, Water pump control, Long-distance ON/OFF control, ALARM function, electric heater control.
- Operating status can be displayed by wired controller lamp indicator.
- Centralized control function.
- BMS control function through Modbus protocol.

Centralized control



Centralized controller

Note：The ceiling&floor of AC and duct series of AC and DC need PCB kit to connect Centralized controller.

Model			CE-FCUKZ-01	CE-FCUKZ-02
Applicable appliance			2-pipe FCUs	4-pipe FCUs
Power supply		V-Ph-Hz	220~240-1-50/60	
Operation range	Room temp.	℃	17-30	
	Inlet water temp.	℃	3-75	
Temp. controlling precision		℃	±1	
Net dimension	W×H×D	mm	310x76x290	
Packing size	W×H×D	mm	384x174x359	
Net weight		kg	2.5	
Gross weight		kg	4.6	

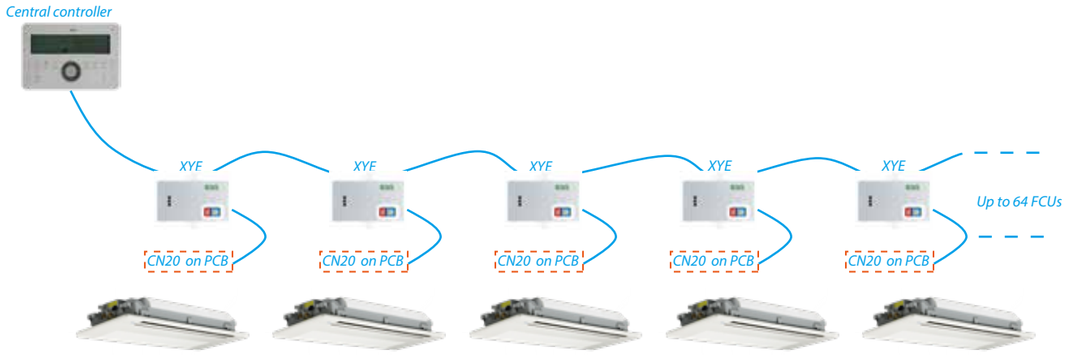
Model			CE-FCUKZ-03	CE-FCUKZ-04
Applicable appliance			2-pipe FCUs	4-pipe FCUs
Power supply		V-Ph-Hz	220~240-1-50/60	
Operation range	Room temp.	℃	17-30	
	Inlet water temp.	℃	3-75	
Temp. controlling precision		℃	±1	
Net dimension	W×H×D	mm	296×66×212	
Packing size	W×H×D	mm	410×115×262	
Net weight		kg	1.4	
Gross weight		kg	2.5	

Network Module

- Achieve centralized control through XYE connection.
- Only available for one way Cassette of AC.
- Address setting should be same as connecting FCU.
- There LEDs display: operation indicator lamp, communication indicator lamp and malfunction indicator lamp.

MD-NIM01

Central wiring



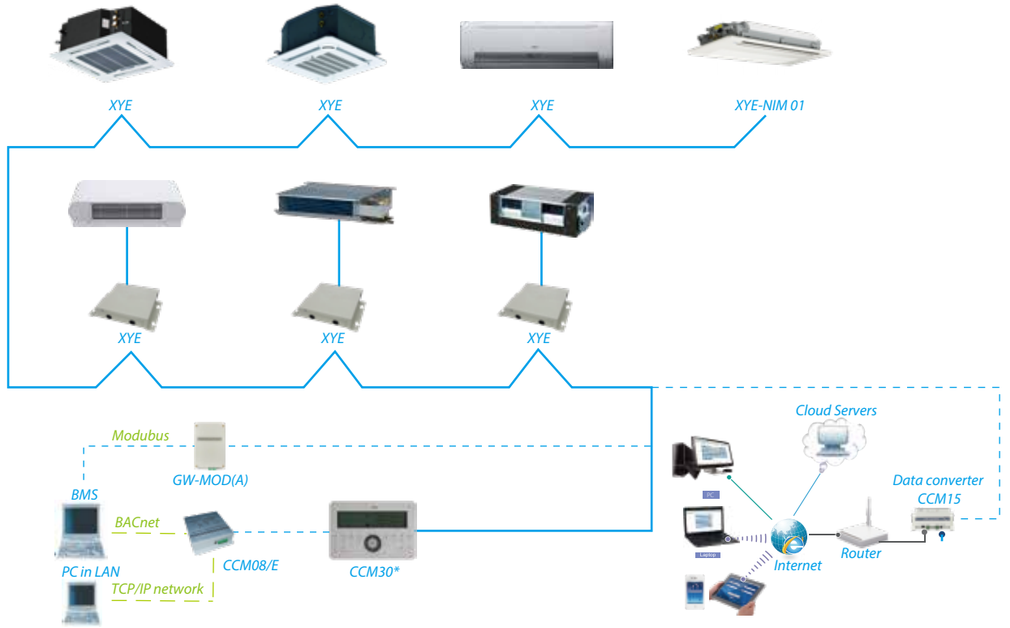
Valve kit

DN(mm)	Inner Screw Thead	Applicable Appliance
15	1/2"	For 4-pipe cassette and ceiling&floor (for cold water),
20	3/4"	For 2-pipe FCU,4-pipe duct, 4-pipe cassette and ceiling&floor (for cold water).

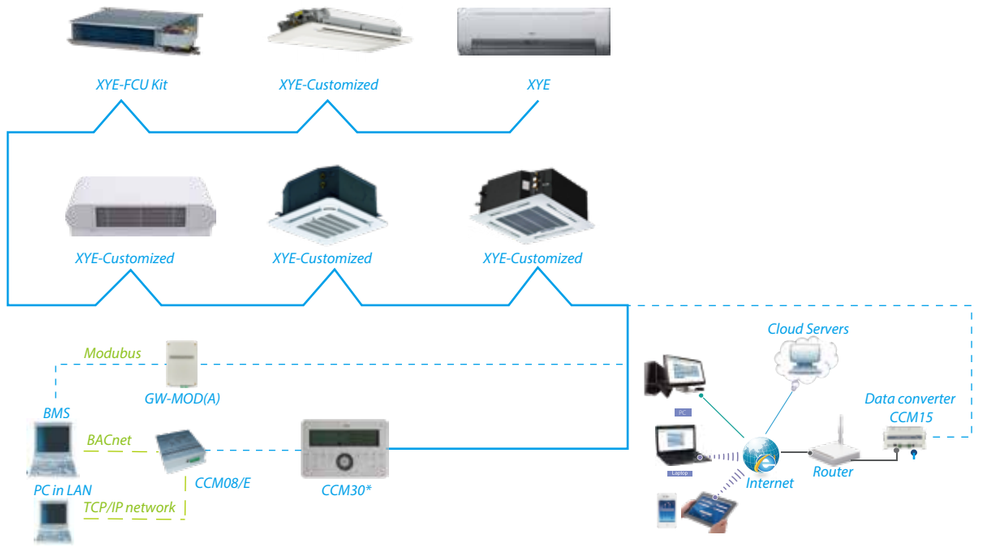
Note:
The valve kit includes valve, actuator and connecting pipe. For different model of units, the models of valve kit are difference.

Application of Central Control & BMS Control

AC Series



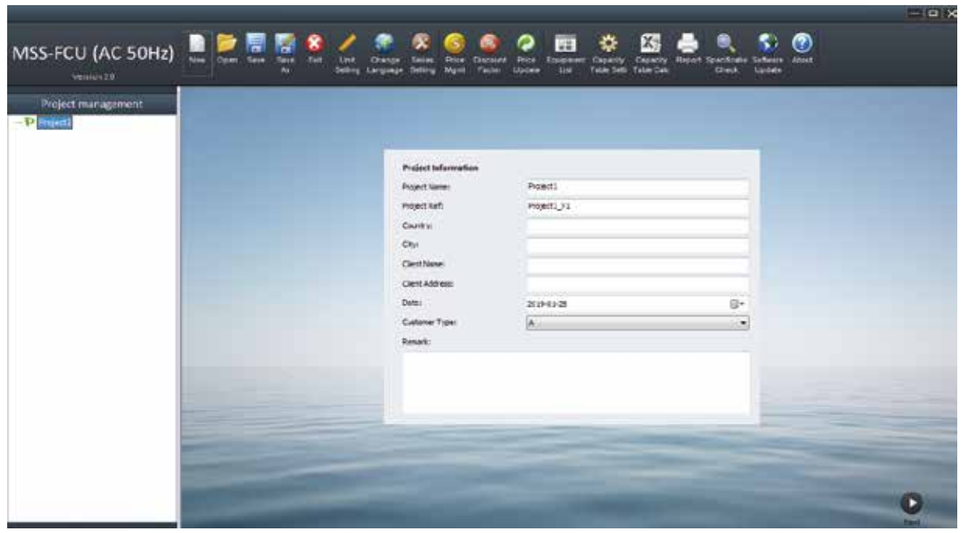
DC Series



*Note: When connecting to BMS through the BACnet protocol gateway, a customized version of CCM30 is required.

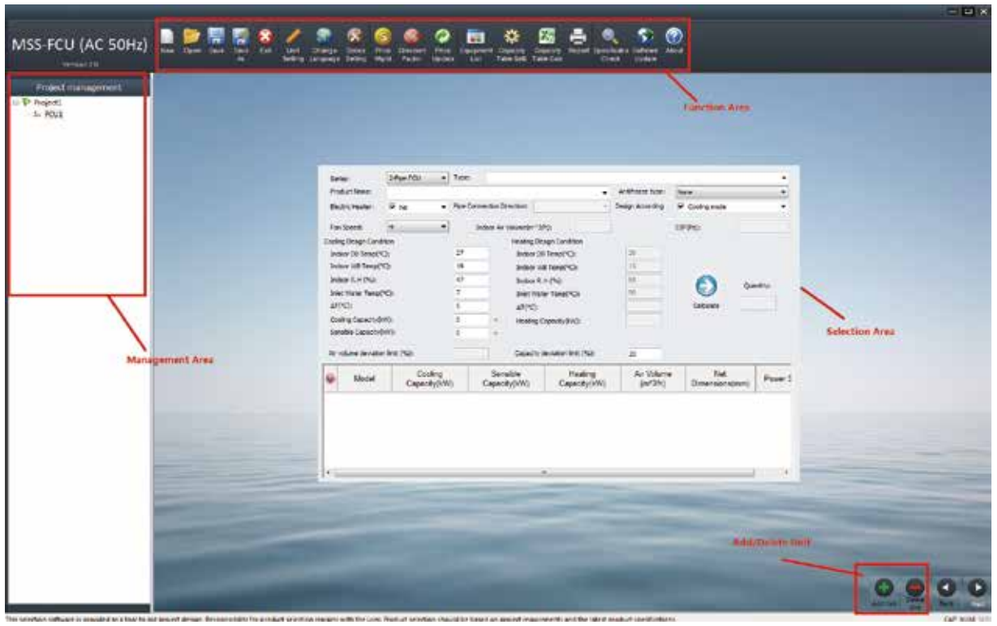
AC/DC Selection Software

Features

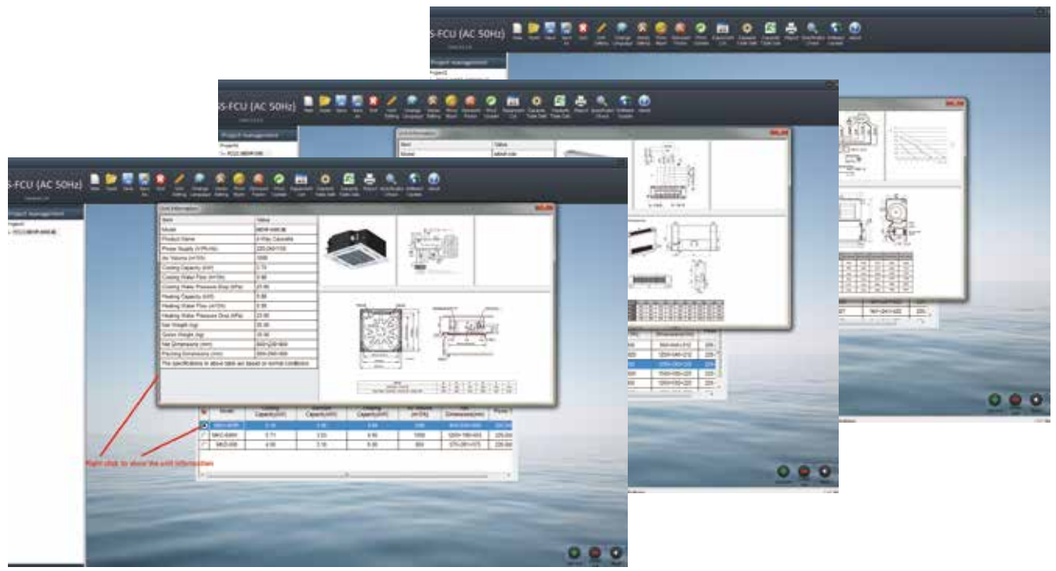
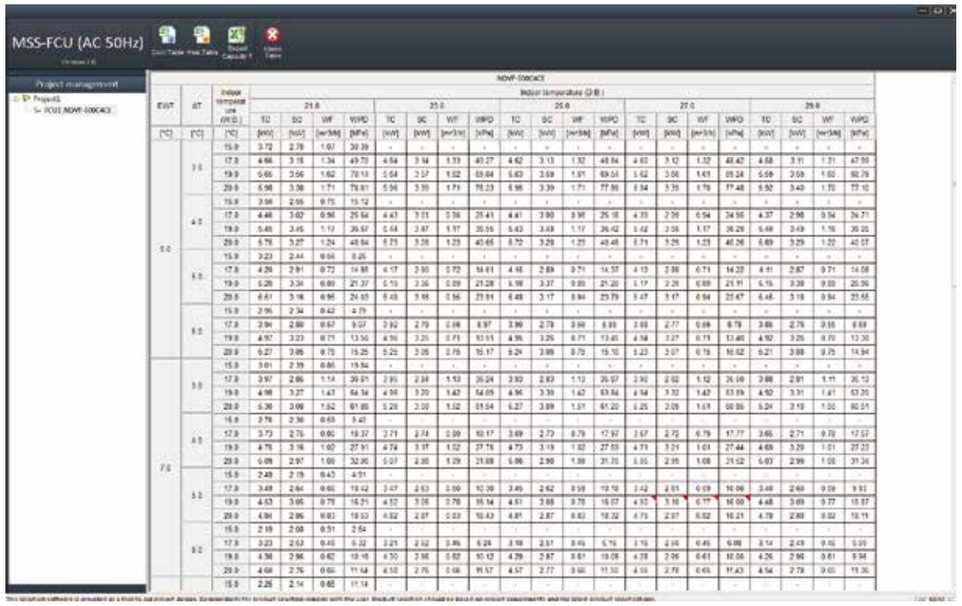


- Select by entering air and water conditions as well as fan speed.
- Easy to operate interface and visual display.
- Powerful project management function.

Main Interface



Selection Interface



Report Data Interface