



2010
Midea Commercial Air Conditioners

R22 Digital Scroll VRF Commercial A/C 50Hz



GD Midea Refrigeration Equipment Co., Ltd.
Have received ISO 9001 certification for quality assurance.
Certificate Registration
NO.01 100 015209



GD Midea Refrigeration Equipment Co., Ltd.
Have received environmental management system
Standard ISO 14001 certification
Certificate NO.CC 1417



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Note: The data in this book may be changed without notice for further improvement on quality and performance.

CLIMATE SOLUTION
FOR GREEN ENVIRONMENT



Midea Commercial Aircon
Climate Solution for Green Environment

2010 MIDEA R22 DIGITAL SCROLL VRF COMMERCIAL A/C

Series	1.8kW	2.2kW	2.8kW	3.6kW	4.5kW	5.6kW
One-way Cassette						
Four-way Cassette (Compact)						
Four-way Cassette						
Low Static Pressure Duct						
Slim Duct (A3)						
Duct						
High Static Pressure Duct (A Type)						
Ceiling & Floor						
Wall-mounted (E Type)						
Wall-mounted (EXV Integrated)						

7.1kW	8.0kW	9.0kW	10.0kW	11.2kW	14.0kW	28.0kW

Digital Scroll VRF Outdoor Unit

MDV Pro MDV Pro (EVI Tech)		25.2/28/33.5/40/45kW
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- 18 Indoor Unit**
- 37 HRV**
- 43 Refrigerant Distributors**



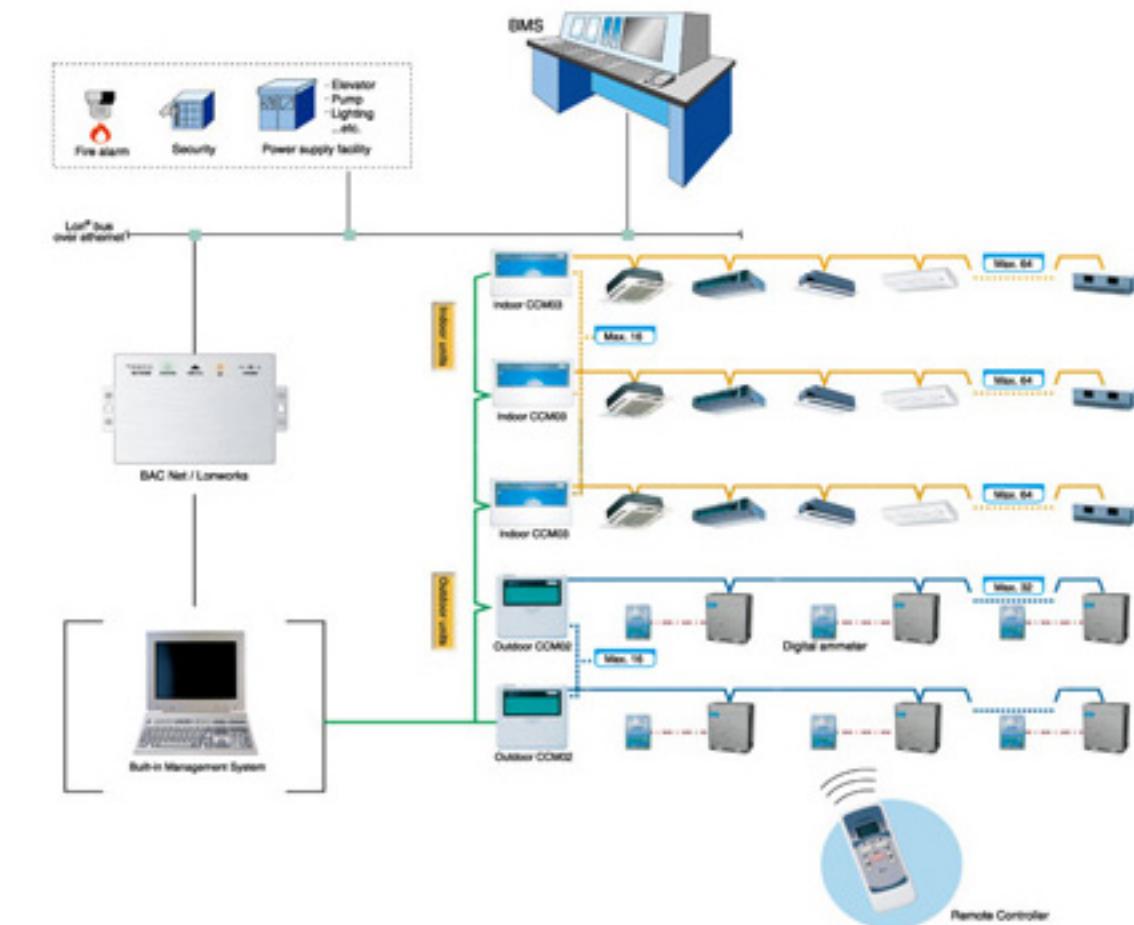
Intelligent Built-in Management System

Intelligent management is an integrated building managements system (BMS) that uses our independent, high-speed multi-transmission method. It has a centralized controller function that can perform high-speed centralized control of our commercial A/C for buildings.

MDV System Has Various Control Solutions

Individual control, Group control, Network, etc.

- 1 computer can control max. 16 indoor central controllers and max. 16 outdoor central controllers.
- 1 indoor central controller can control max. 64 indoor units.
- 1 outdoor central controller can monitor max. 32 outdoor units, max. 8 system.
- 1 computer can control max. 1024 indoor units and 512 outdoor units.



Power Consumption Calculating System



Power Consumption Calculating Report

Easy to know the charge of the A/C



Group Setting, Simple and Efficient Control

One group consists of on-line A/Cs in different central controllers, maximum 1024 units.

One system can be set by 16 groups to manage a huge A/C system. The group setting can control each on-line unit, unionize them to be ON/OFF or change the parameters. It's so convenient and easy.



Schedule Management

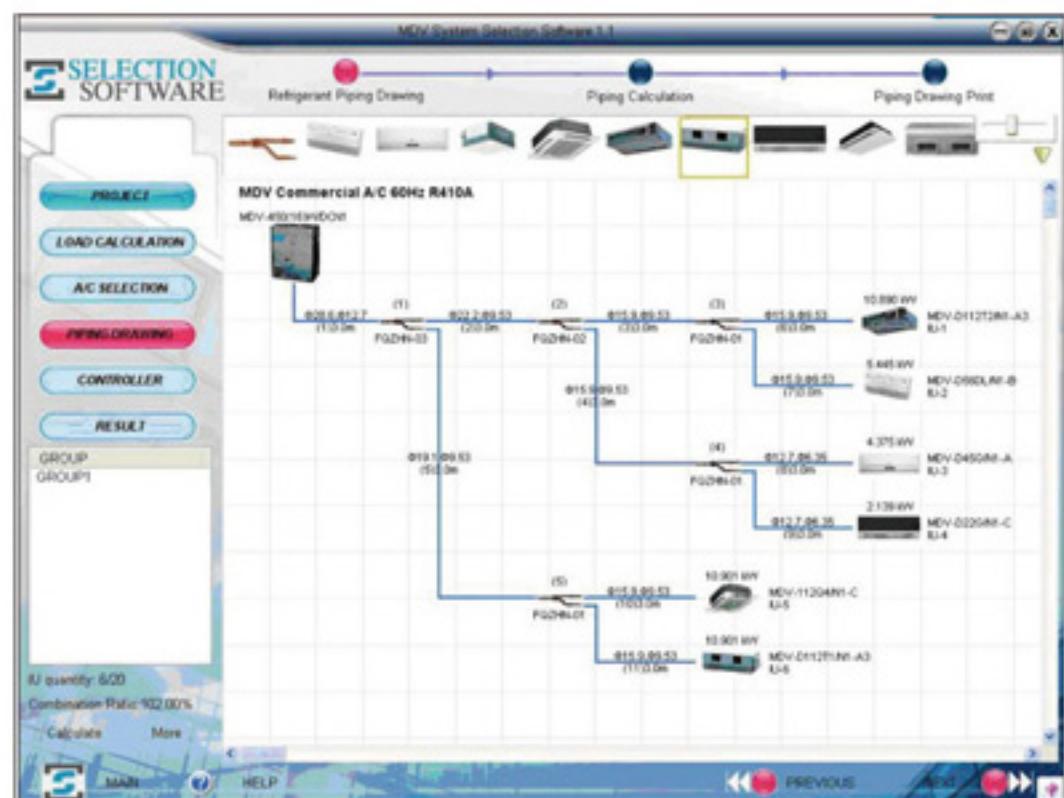
With the advanced schedule setting mode, the PC can easily manage the daily work of A/C. The system can set the weekly plan of A/C and operate automatically in cycle.



Model Selection Software

Windows Version

Operate directly on Windows interface; Main functions includes load calculation, multi-split and chilled water system selection, explicit quotation table output, hydraulic calculation, capacity inquire with changeable outdoor environment (for multi-split) or nonstandard working criteria (for chiller), etc. Update with product change.



Brief Introduction

■ What is Digital Scroll System

Digital Scroll A/C System is a VRF system with Digital Scroll Compressor. Digital Scroll Compressor's refrigerant output is adjusted and controlled by the variable volume mode. This technology is the most advanced in the industry.



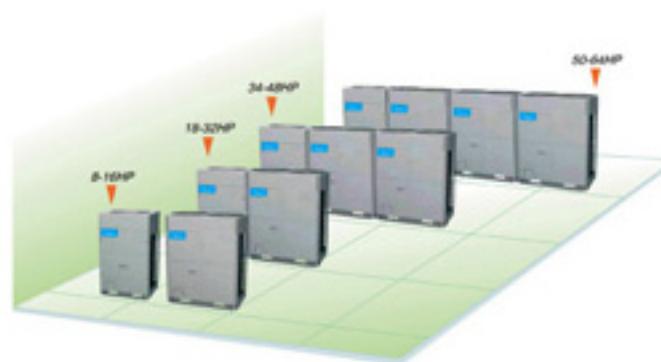
■ Basic Modules

5 basic Modules, 8HP, 10HP, 12HP, 14HP, 16HP, 2HP increments of capacity.

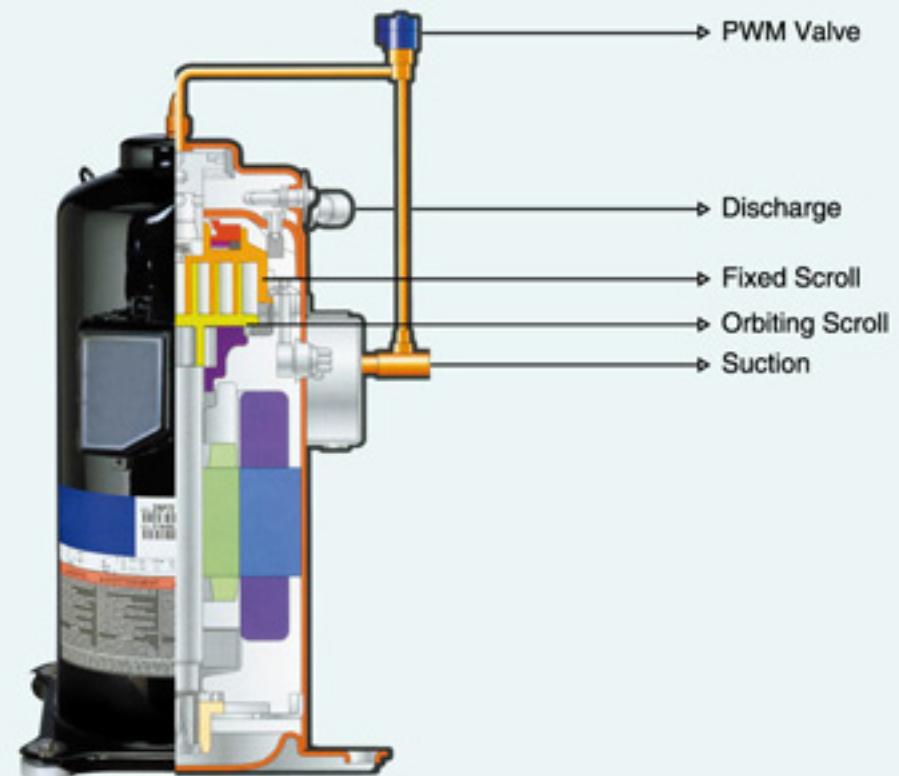


■ Free Combination, Wide Range

5 basic modules, which can freely combined.
2HP increments of capacity range, which meets customers' needs accurately.
Maximum capacity is 64HP.



Digital Scroll Compressor

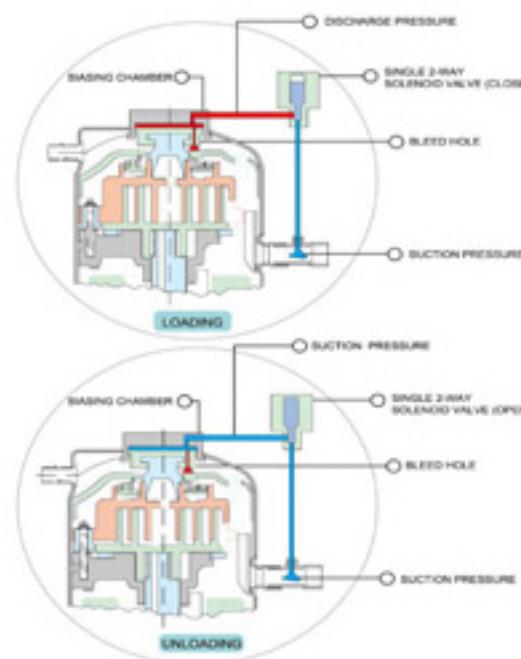


Features

- Enlarged energy adjustment range: from 10%-100%.
- Real stepless energy adjustment.
- Long life: PWM solenoid valve can be used 40 billion times on average, equal to 30 years lifespan.
- High efficiency and stability of the refrigerant compressed by applying the axial compliant sealing technology.

Operation Principle of Digital Scroll Compressor

- The digital scroll compressor which utilizes the axial compliant sealing technology precisely adjust the axial moving range of the stator scroll pan. And there is an additional connecting by-pass between the suction inlet and the pressure bore at the floating sealing point of axial stator.
- When the PWM solenoid valve is open, the pressure in the pressure bore is released. The pressure in the compression bore is higher than that top of the stator, then the stator axis of the compressor will move upward a little. So high pressure bore and low pressure inlet is connected and the unloading is achieved.
- When the PWM solenoid valve is closed, two stators engaged. Then the airproof and loading is achieved. The compressor can adjust the ratio of ONs to OFFs freely to control the refrigerant output of the compressor.



Low Electromagnetic Interference

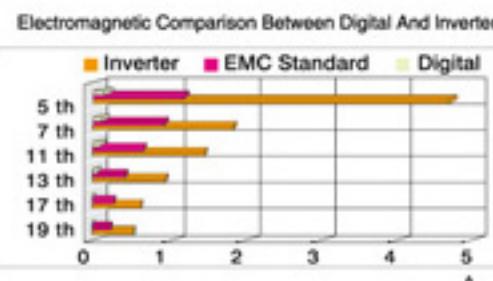
- MDV Digital Scroll System causes low electromagnetic interference, since the loading and unloading of compressor are merely mechanical movement. This special feature makes the Digital Scroll System applicable to telecommunication companies, power stations, and all kinds of precise science labs.



Precise Science Lab



Communication Computer Lab



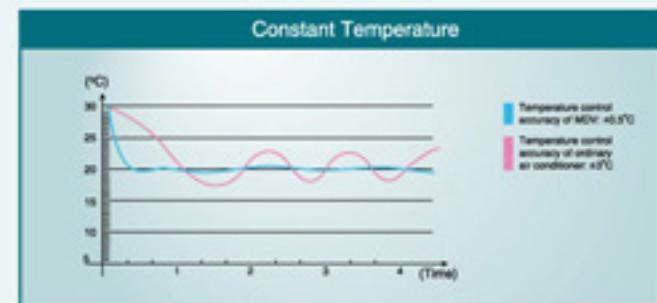
TV & Radio Receiver Station

Advanced Oil Return Technology

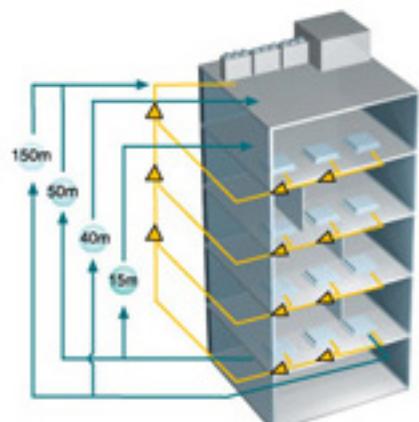
- The Digital Scroll Compressor is in the state of loading or unloading. In the loading state, the full speed operation of the compressor motor ensures the refrigerant has enough power to bring the oil back to the compressor. In the unloading state, there is no oil moving out of the compressor since there is no refrigerant output, the inertia of the refrigerant can also bring some oil back to the compressor.
- Combining the electronic control and the mechanical control, the oil level controller keeps an appropriate oil level in the compressor crankcase. Equipped with alarm system, it is applicable to both low-pressure & high pressure oil cycling system.

Accurate Temperature Control

- Compared with the traditional central air conditioning system, MDV System can reach a 0.5 Degree Centigrade accuracy.



Long Pipe, Wide Height Difference



- Digital Scroll system is the only system that is free of oil separator and oil recycling equipment. In the loading status, the speed of the refrigerant is enough to move oil back to the compressor. In the unloading status, no refrigerant pump out, no oil out of compressor.

- the max. pipe length between indoor unit and outdoor unit.
- the max. height difference between indoor unit and outdoor unit.
- the max. distance between the first branch to the farthest indoor unit.
- the max. height difference between indoor units.

HOW TO READ THE MODELS

MDV - D 28 Q4 / C

► Product Designed Sequence
A 1st Designed B 2nd Designed C 3rd Designed

► Indoor Unit
Q1 One-way Cassette Type
Q4-A Compact Four-way Cassette Type
Q4 Four-way Cassette Type
T2 Duct Type
T1 High Static Pressure Duct Type
DL Ceiling & Floor Type
G Wall-mounted Type
G-C Wall-mounted Type of C Panel
G-E1 Wall-mounted Type of E1 Panel

► Cooling Capacity (x100W)

► Digital Scroll

► Multi-Digital-Variable

MDV - D 280 W / S

► Power Supply
-- 220-240V, 50Hz, 1ph
S 380V~, 50Hz, 3ph
B 208-230V, 60Hz, 1ph
C 380-415V, 60Hz, 3ph
S1 208-230V, 60Hz, 3ph

► Outdoor Unit

► Cooling Capacity (x100W)

► Digital Scroll

► Multi-Digital-Variable

DIGITAL SCROLL VRF OUTDOOR UNIT

MDV Pro Outdoor Unit



25.2/28/33.5/40/45kW

MDV Pro Outdoor Unit Combination

Design	Power supply V~, Hz, ph	Capacity (HP)	Model	Recommend combination	Max. connection indoor units
	380, 50, 3	8	MDV-D252W/S	8	13
	380, 50, 3	10	MDV-D280W/S	10	16
	380, 50, 3	12	MDV-D335W/S	12	16
	380, 50, 3	14	MDV-D400W/S	14	16
	380, 50, 3	16	MDV-D450W/S	16	20
	380, 50, 3	18	MDV-D532W/S	8+10	20
	380, 50, 3	20	MDV-D560W/S	10+10	24
	380, 50, 3	22	MDV-D615W/S	10+12	24
	380, 50, 3	24	MDV-D680W/S	10+14	28
	380, 50, 3	26	MDV-D730W/S	10+16	28
	380, 50, 3	28	MDV-D785W/S	12+16	28
	380, 50, 3	30	MDV-D850W/S	14+16	32
	380, 50, 3	32	MDV-D900W/S	16+16	32
	380, 50, 3	34	MDV-D960W/S	10x2+14	36
	380, 50, 3	36	MDV-D1010W/S	10x2+16	36
	380, 50, 3	38	MDV-D1065W/S	10+12+16	36
	380, 50, 3	40	MDV-D1130W/S	10+14+16	42
	380, 50, 3	42	MDV-D1180W/S	10+16x2	42
	380, 50, 3	44	MDV-D1235W/S	12+16x2	42
	380, 50, 3	46	MDV-D1300W/S	14+16x2	48
	380, 50, 3	48	MDV-D1350W/S	16x3	48
	380, 50, 3	50	MDV-D1432W/S	16x2+10+8	54
	380, 50, 3	52	MDV-D1460W/S	16x2+10x2	54
	380, 50, 3	54	MDV-D1515W/S	16x2+10+12	54
	380, 50, 3	56	MDV-D1580W/S	16x2+10+14	58
	380, 50, 3	58	MDV-D1630W/S	10+16x3	58
	380, 50, 3	60	MDV-D1685W/S	12+16x3	58
	380, 50, 3	62	MDV-D1750W/S	14+16x3	64
	380, 50, 3	64	MDV-D1800W/S	16x4	64

Features

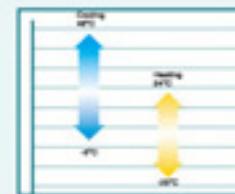
- Variable-capacity compressor.
- Free combination, wide capacity range.
- High efficiency.
- Long piping system.
- Patented design, reliable running.
- High efficient heat-exchanger & precisely refrigerant control.
- Patented double four-way valve designed.
- Accurate temperature control.
- Space saving.
- Simple installation and easy maintenance.
- Low electromagnetic interference.

MDV Pro Outdoor Unit (EVI Tech)



Features

- Adopt the digital scroll compressor with EVI technology.
- Enhanced heating performance from patent technology.
- High efficiency and save energy.
- Excellent heating capacity in low ambient temperature.



Specification

Model	MDV-D252W/S	MDV-D280W/S	MDV-D335W/S	MDV-D400W/S	MDV-D450W/S
Cooling Capacity	kW	25.2	28	33.5	40
Cooling Input Power	kW	6.77	7.98	10	11.59
Heating Capacity	kW	27	31.5	37.5	45
Heating Input Power	kW	6.51	7.68	9.66	11.11
Operating Range-Cooling	°C	-5-48	-5-48	-5-48	-5-48
Operating Range-Heating	°C	-15-24	-15-24	-15-24	-15-24
Power	V-ph-Hz	380-3-50	380-3-50	380-3-50	380-3-50
Noise Level	dB(A)	58	58	58	60
Airflow	m³/h	6000x2	6000x2	6000x2	7000x2
Vertical Pipe Length	m	Upper Outdoor: ≤ 50m; Lower Outdoor: ≤ 30m			
Actual Pipe Length	m	130	130	130	130
Equivalent Pipe Length	m	150	150	150	150
Total Pipe Length	m	300	300	300	300
Max. No. of Indoor Units		13	16	16	20
Connection Ratio	%	50-130	50-130	50-130	50-130
Net Weight	kg	319	326	326	399
Gross Weight	kg	342	349	349	422
Net Dimension (WxHxD)	mm	1380x1615x830	1380x1615x830	1380x1615x830	1380x1615x830
Packing Dimension (WxHxD)	mm	1434x1790x860	1434x1790x860	1434x1790x860	1434x1790x860
Qty/Per 20'/40'/40HQ	Pieces	8/16/16	8/16/16	8/16/16	8/16/16

Specification

Model	MDV-D252W/SC	MDV-D280W/SC	MDV-D335W/SC	MDV-D400W/SC	MDV-D450W/SC
Cooling Capacity	kW	25.2	28	33.5	40
Cooling Input Power	kW	7.6	8.5	10.2	12.2
Heating Capacity	kW	27	31.5	37.5	45
Jet Heating Capacity	kW	31	36.2	40.2	49.4
Heating Input Power	kW	7.3	8.4	9.5	11.7
Jet Heating Power	kW	8.4	9.7	11	13.5
Operating Range-Cooling	°C	-5-48	-5-48	-5-48	-5-48
Operating Range-Heating	°C	-25-24	-25-24	-25-24	-25-24
Power	V-ph-Hz	380-3-50	380-3-50	380-3-50	380-3-50
Noise Level	dB(A)	60	60	60	62
Airflow	m³/h	6000x2	6000x2	6000x2	7000x2
Vertical Pipe Length	m	Upper Outdoor: ≤ 50m; Lower Outdoor: ≤ 30m			
Actual Pipe Length	m	130	130	130	130
Equivalent Pipe Length	m	150	150	150	150
Total Pipe Length	m	300	300	300	300
Max. No. of Indoor Units		13	16	16	20
Connection Ratio	%	50-130	50-130	50-130	50-130
Net Weight	kg	328	328	328	380
Gross Weight	kg	351	351	351	403
Net Dimension (WxHxD)	mm	1380x1615x830	1380x1615x830	1380x1615x830	1380x1615x830
Packing Dimension (WxHxD)	mm	1434x1790x860	1434x1790x860	1434x1790x860	1434x1790x860
Qty/Per 20'/40'/40HQ	Pieces	8/16/16	8/16/16	8/16/16	8/16/16



INDOOR UNIT

Model (kW)	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	14.0	28.0
 One-way Cassette				★	★	★	★	★					
 Four-way Cassette (Compact)				★	★	★							
 Four-way Cassette				★	★	★	★	★	★	★	★	★	★
 Low Static Pressure Duct	★	★	★	★	★	★							
 Slim Duct (A3)							★	★	★	★	★	★	★
 Duct		★	★	★	★	★	★	★	★	★	★	★	★
 High Static Pressure Duct (A Type)								★	★	★	★	★	★
 Ceiling & Floor				★	★	★	★	★	★	★	★	★	★
 Wall-mounted	★	★	★	★	★								
 Wall-mounted (EXV Integrated)	★	★	★	★	★	★							

INDOOR UNITS

One-way Cassette



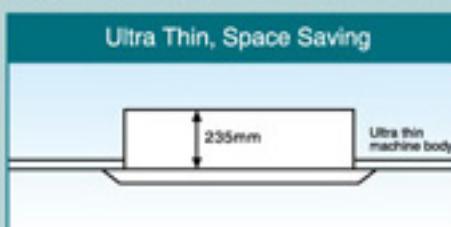
Indoor Unit

Features

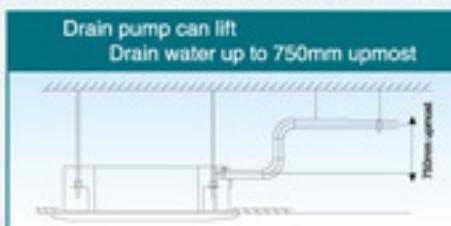
- Lower noise level.
- Smooth air flow with less turbulence.
- One direction air flow guarantees quick cooling, flexible installation position.



- Ultra thin body, space saving (only 235mm (28, 36 models), only 198mm (45, 56, 71 models)).



- Built-in water pump with 750mm pumping head.



- Three speeds.
- Fresh air makes life more healthy and comfortable.

Specification

Model		MDV-D28Q1-B	MDV-D36Q1-B	MDV-D45Q1-B	MDV-D56Q1-B	MDV-D71Q1-B
Capacity	Cooling	kW	2.8	3.6	4.5	5.6
	Heating	kW	3.2	4	5	6.3
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Rated power		W	50	50	70	73
Performance	Air flow volume	m³/h	500	500	780	780
	Noise level	dB(A)	30	30	35	35
Refrigerant	Type		R22	R22	R22	R22
Net dimension	Body (WxHxD)	mm	850x235x400	850x235x400	1200x198x655	1200x198x655
	Panel (WxHxD)	mm	1050x18x470	1050x18x470	1420x10x755	1420x10x755
Packing dimension	Body (WxHxD)	mm	1080x310x510	1080x310x510	1380x265x775	1380x265x775
	Panel (WxHxD)	mm	1120x172x540	1120x172x540	1500x110x870	1500x110x870
Net weight	Body	kg	25	25	34	34
	Panel	kg	4	4	9	9
Gross weight	Body	kg	28	28	41	41
	Panel	kg	7	7	12	12
Qty/Per 20'/40'/40HQ	Indoor unit	Pieces	115/238/268	115/238/268	69/145/165	69/145/165
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4	Φ6.4	Φ9.5
	Gas side	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drainage water side	mm	Φ32	Φ32	Φ32	Φ32

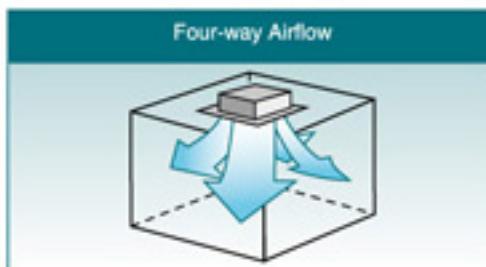
Four-way Cassette (Compact)

Indoor Unit

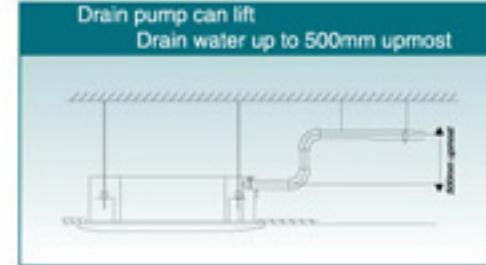


Features

- Four-way air outlet makes equal, fast and wide-range cooling.
- 3-Dimensional screw fan reduces the air resistance.



- Compact design, simple installation and easy maintenance.
- Three speeds.
- Built-in water pump with 500mm pumping head.



Specification

Model	MDV-D28Q4-A		MDV-D36Q4-A		MDV-D45Q4-A
Capacity	Cooling	kW	2.8	3.6	4.5
	Heating	kW	3.2	4	5
Power supply		V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50
Rated power		W	63	63	63
	Air flow volume	m³/h	860	860	860
Performance	Noise level	dB(A)	37	37	37
	Refrigerant	Type	R22	R22	R22
Net dimension	Body (WxHxD)	mm	580x254x580	580x254x580	580x254x580
	Panel (WxHxD)	mm	650x30x650	650x30x650	650x30x650
Packing dimension	Body (WxHxD)	mm	750x340x750	750x340x750	750x340x750
	Panel (WxHxD)	mm	715x115x715	715x115x715	715x115x715
Net weight	Body	kg	22	22	22
	Panel	kg	3	3	3
Gross weight	Body	kg	30	30	30
	Panel	kg	5	5	5
Qty/Per 20'/40'/40'HQ	Indoor unit	Pieces	110/245/252	110/245/252	110/245/252
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4	Φ6.4
	Gas side	mm	Φ12.7	Φ12.7	Φ12.7
	Drainage water side	mm	Φ32	Φ32	Φ32

Four-way Cassette

Indoor Unit

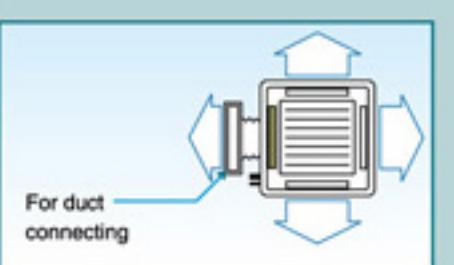


Features

■ Adding digital tube displaying on the display board. LED can display the Error Code to make the malfunction checking easier.

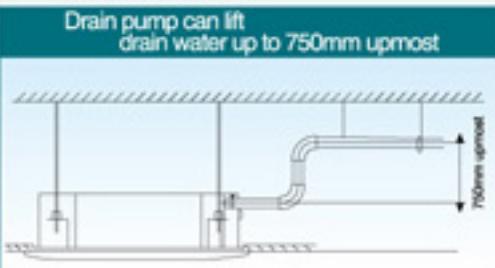


■ Reserve spaces for air side-outlet, it is available to connect duct pipe hence air supplying from the four sides to nearby small room.



■ Stylish design is harmonious with any interior decoration and creates an elegant environment.

■ Built-in water pump with 750mm pumping head.



■ Fresh air makes life more healthy and comfortable.



Specification

Model		MDV-D28Q4-C	MDV-D36Q4-C	MDV-D45Q4-C	MDV-D56Q4-C	MDV-D71Q4-C
Capacity	Cooling	kW	2.8	3.6	4.5	5.6
	Heating	kW	3.2	4	5	6.3
Power supply		V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50
		W	90	90	90	115
Rated power	Air flow volume	m³/h	950	950	950	950
	Noise level	dB(A)	35	35	35	39
Refrigerant	Type		R22	R22	R22	R22
	Net dimension	Body (WxHxD)	mm	840x230x840	840x230x840	840x230x840
Packing dimension	Panel (WxHxD)	mm	950x46x950	950x46x950	950x46x950	950x46x950
	Body (WxHxD)	mm	955x247x955	955x247x955	955x247x955	955x247x955
Net weight	Panel (WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Body	kg	24	24	25.7	26
Gross weight	Panel	kg	6	6	6	6
	Body	kg	30	30	31.6	31.8
Qty/Per 20'/40'/40'HQ	Panel	kg	9	9	9	9
	Indoor unit	Pieces	72/149/168	72/149/168	72/149/168	72/149/168
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4	Φ6.4	Φ9.5
	Gas side	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drainage water side	mm	Φ32	Φ32	Φ32	Φ32

Model		MDV-D80Q4-C	MDV-D90Q4-C	MDV-D100Q4-C	MDV-D112Q4-C	MDV-D140Q4-C
Capacity	Cooling	kW	8	9	10	11.2
	Heating	kW	9	10	11	12.5
Power supply		V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50
		W	115	160	160	180
Rated power	Air flow volume	m³/h	1220	1540	1540	1540
	Noise level	dB(A)	39	43	43	44
Refrigerant	Type		R22	R22	R22	R22
	Net dimension	Body (WxHxD)	mm	840x230x840	840x300x840	840x300x840
Packing dimension	Panel (WxHxD)	mm	950x46x950	950x46x950	950x46x950	950x46x950
	Body (WxHxD)	mm	955x247x955	955x317x955	955x317x955	955x317x955
Net weight	Panel (WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Body	kg	26.2	32	32	32
Gross weight	Panel	kg	6	6	6	6
	Body	kg	31.8	38.7	38.7	38.7
Qty/Per 20'/40'/40'HQ	Panel	kg	9	9	9	9
	Indoor unit	Pieces	72/149/168	48/102/122	48/102/122	48/102/122
Pipe diameter	Liquid side	mm	Φ9.5	Φ9.5	Φ9.5	Φ9.5
	Gas side	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
	Drainage water side	mm	Φ32	Φ32	Φ32	Φ32

Low Static Pressure Duct

Indoor Unit



Features

- Compact design, saving space.
- Comfortable air flow design.
- Slim body-190mm height.
- Concealed installation.
- Low noise to 24dB thanks to cross fan.



- The connection pipe is flexible pipe.



Change the connection direction conveniently



- The design of air outlet is downwards radii, mostly improve the cooling/heating performance.



- Air blow straightly, the heating air blow updown hardly.



Specification

Model		MDV-D18T3-A	MDV-D22T3-A	MDV-D28T3-A
Capacity	Cooling	kW	1.8	2.2
	Heating	kW	2.2	2.6
Power supply		V·ph·Hz	220-240-1-50	220-240-1-50
Rated power		W	40	40
Performance	Air flow volume	m³/h	512	512
	Static pressure	Pa	5	5
	Noise level	dB(A)	21	21
Refrigerant	Type		R22	R22
Net dimension	Body (WxHxD)	mm	850x190x405	850x190x405
Packing dimension	Body (WxHxD)	mm	903x277x445	903x277x445
Net weight	Body	kg	11.5	11.5
Gross weight	Body	kg	13.5	13.5
Qty/Per 20'/40'/40'HQ	Indoor unit	Pieces	210/474/562	210/474/562
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4
	Gas side	mm	Φ12.7	Φ12.7
	Drainage water side	mm	Φ16	Φ16

Model		MDV-D36T3-A	MDV-D45T3-A	MDV-D56T3-A
Capacity	Cooling	kW	3.6	4.5
	Heating	kW	4.0	5.0
Power supply		V·ph·Hz	220-240-1-50	220-240-1-50
Rated power		W	40	56
Performance	Air flow volume	m³/h	586	906
	Static pressure	Pa	5	5
	Noise level	dB(A)	30	31
Refrigerant	Type		R22	R22
Net dimension	Body (WxHxD)	mm	850x190x405	1030x190x430
Packing dimension	Body (WxHxD)	mm	903x277x445	1084x277x472
Net weight	Body	kg	11.5	14
Gross weight	Body	kg	13.5	16
Qty/Per 20'/40'/40'HQ	Indoor unit	Pieces	210/474/562	169/378/452
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4
	Gas side	mm	Φ12.7	Φ12.7
	Drainage water side	mm	Φ16	Φ16

Slim Duct (A3)

Indoor Unit

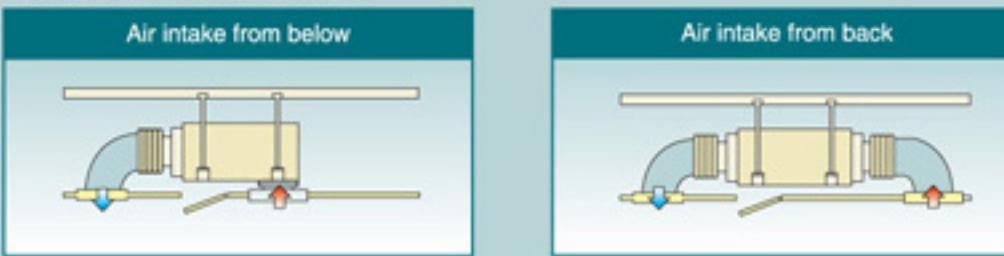


Features

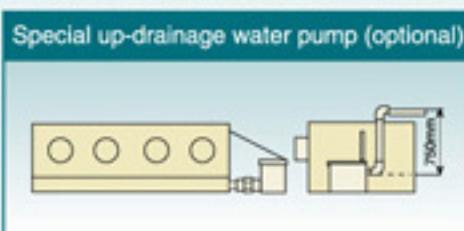
■ Optional accessories.



■ Optional two air intake ways.



■ Outside water pump with 750mm pumping head.



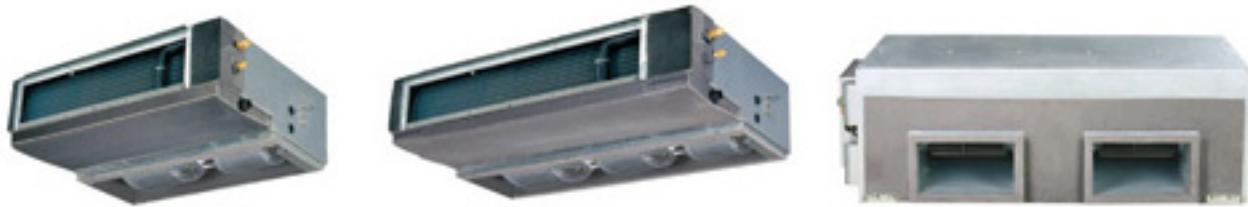
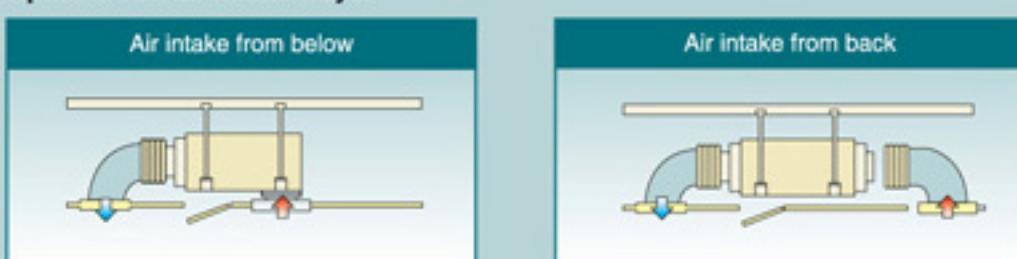
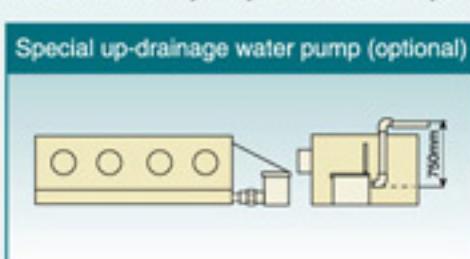
■ Compact design 298mm height, saving space, easier for installation and maintenance.

■ Three speeds.

Specification

Model	MDV-D45T2-A3		MDV-D56T2-A3		MDV-D71T2-A3
Capacity	Cooling	kW	4.5	5.6	7.1
	Heating	kW	5	6.3	8
Power supply	V-ph-Hz		220~240-1-50	220~240-1-50	220~240-1-50
Rated power	W		110	110	150
Performance	Air flow volume	m³/h	1200	1200	1400
	Static pressure	Pa	40	40	40
	Noise level	dB(A)	38	38	42
Refrigerant	Type		R22	R22	R22
Net dimension	Body (WxHxD)	mm	1000x298x800	1000x298x800	1000x298x800
Packing dimension	Body (WxHxD)	mm	1205x370x940	1205x370x940	1205x370x940
Net weight	Body	kg	38.2	38	38
Gross weight	Body	kg	44	45	45
Qty/Per 20'/40'/40'HQ	Indoor unit	Pieces	60/140/164	60/140/164	60/140/164
Pipe diameter	Liquid side	mm	Φ6.4	Φ9.5	Φ9.5
	Gas side	mm	Φ12.7	Φ15.9	Φ15.9
	Drainage water side	mm	Φ32	Φ32	Φ32

Model	MDV-D80T2-A3		MDV-D90T2-A3		MDV-D112T2-A3	MDV-D140T2-A3
Capacity	Cooling	kW	8	9	11.2	14
	Heating	kW	9	10	12.5	16
Power supply	V-ph-Hz		220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50
Rated power	W		150	215	215	215
Performance	Air flow volume	m³/h	1400	1800	1800	1800
	Static pressure	Pa	40	70	70	70
	Noise level	dB(A)	42	43	43	43
Refrigerant	Type		R22	R22	R22	R22
Net dimension	Body (WxHxD)	mm	1000x298x800	1350x298x800	1350x298x800	1350x298x800
Packing dimension	Body (WxHxD)	mm	1205x370x940	1555x370x940	1555x370x940	1555x370x940
Net weight	Body	kg	38	48	48	51
Gross weight	Body	kg	45	57	57	58
Qty/Per 20'/40'/40'HQ	Indoor unit	Pieces	60/140/164	48/100/112	48/100/112	48/100/112
Pipe diameter	Liquid side	mm	Φ9.5	Φ9.5	Φ9.5	Φ9.5
	Gas side	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
	Drainage water side	mm	Φ32	Φ32	Φ32	Φ32

Duct**Indoor Unit****Features****Optional accessories.****Optional two air intake ways.****Outside water pump with 750mm pumping head.****Easy installation and maintenance.****Three speeds.****Specification**

Model		MDV-D22T2-B	MDV-D28T2-B	MDV-D36T2-B	MDV-D45T2-B	MDV-D56T2-B	MDV-D71T2-B
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	kW	2.6	3.2	4	5	6.3
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Rated power		W	125	125	125	200	200
Performance	Air flow volume	m³/h	570	570	570	1160	1160
	Static pressure	Pa	40	40	40	40	40
	Noise level	dB(A)	35	35	35	38	42
Refrigerant	Type		R22	R22	R22	R22	R22
Net dimension	Body (WxHxD)	mm	550x320x800	550x320x800	550x320x800	1000x320x800	1000x320x800
Packing dimension	Body (WxHxD)	mm	755x420x930	755x420x930	755x420x930	1205x420x930	1205x420x930
Net weight	Body	kg	26	26	30	43.2	46
Gross weight	Body	kg	34	34	34	49.6	54
Qty/Per 20/40/40HQ	Indoor unit	Pieces	61/134/164	61/134/164	61/134/164	60/140/164	60/140/164
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4	Φ6.4	Φ6.4	Φ9.5
	Gas side	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drainage water side	mm	Φ32	Φ32	Φ32	Φ32	Φ32

Model		MDV-D80T2-B	MDV-D90T2-B	MDV-D112T2-B	MDV-D140T2-B	MDV-D280T2-C
Capacity	Cooling	kW	8	9	11.2	14
	Heating	kW	9	10	12.5	16
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Rated power		W	200	280	280	600
Performance	Air flow volume	m³/h	1320	1680	1680	2040
	Static pressure	Pa	40	70	70	100
	Noise level	dB(A)	42	44	44	45
Refrigerant	Type		R22	R22	R22	R22
Net dimension	Body (WxHxD)	mm	1000x320x800	1350x320x800	1350x320x800	1350x320x800
Packing dimension	Body (WxHxD)	mm	1205x420x930	1555x420x930	1555x420x930	1549x476x917
Net weight	Body	kg	47	54.5	60	60
Gross weight	Body	kg	55	62	70	110
Qty/Per 20/40/40HQ	Indoor unit	Pieces	60/140/164	36/84/98	36/84/98	36/84/98
Pipe diameter	Liquid side	mm	Φ9.5	Φ9.5	Φ9.5	Φ12.7
	Gas side	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
	Drainage water side	mm	Φ32	Φ32	Φ32	Φ32

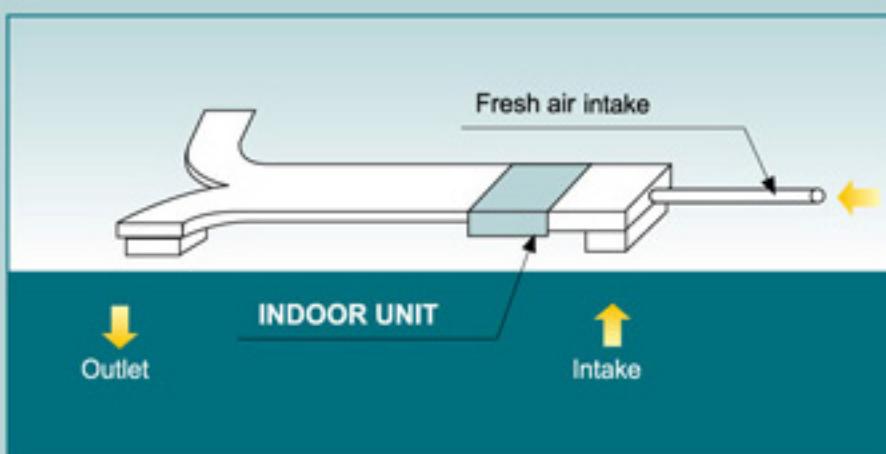
High Static Pressure Duct (A Type)

Indoor Unit



Features

- Esp: 196Pa.
- Multi-blowing outlets satisfy your fitment's needs.
- Fresh air supply.
- Three speeds.



Specification

Model		MDV-D71T1	MDV-D80T1	MDV-D90T1	MDV-D112T1	MDV-D140T1	MDV-D280T1-C
Capacity	Cooling	kW	7.1	8	9	11.2	14
	Heating	kW	8	9	10	12.5	16
Power supply	V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Rated power	W	360	360	600	600	600	2200
Performance	Air flow volume	m³/h	1800	1800	2900	2900	7000
	Static pressure	Pa	196	196	196	196	196
	Noise level	dB(A)	41	41	44	44	53
Refrigerant	Type		R22	R22	R22	R22	R22
Net dimension	Body (WxHxD)	mm	850x380x660	850x380x660	1200x380x660	1200x380x660	1200x380x660
Packing dimension	Body (WxHxD)	mm	1075x478x775	1075x478x775	1425x478x775	1425x478x775	1549x496x917
Net weight	Body	kg	48.5	48.5	62	62	115
Gross weight	Body	kg	53.5	53.5	72	72	138
Qty/Per 20'/40'/40HQ	Indoor unit	Pieces	81/166/166	81/166/166	60/123/123	60/123/123	60/123/123
Pipe diameter	Liquid side	mm	Φ9.5	Φ9.5	Φ9.5	Φ9.5	Φ12.7
	Gas side	mm	Φ15.9	Φ15.9	Φ15.9	Φ19.1	Φ19.1
	Drainage water side	mm	Φ32	Φ32	Φ32	Φ32	Φ32

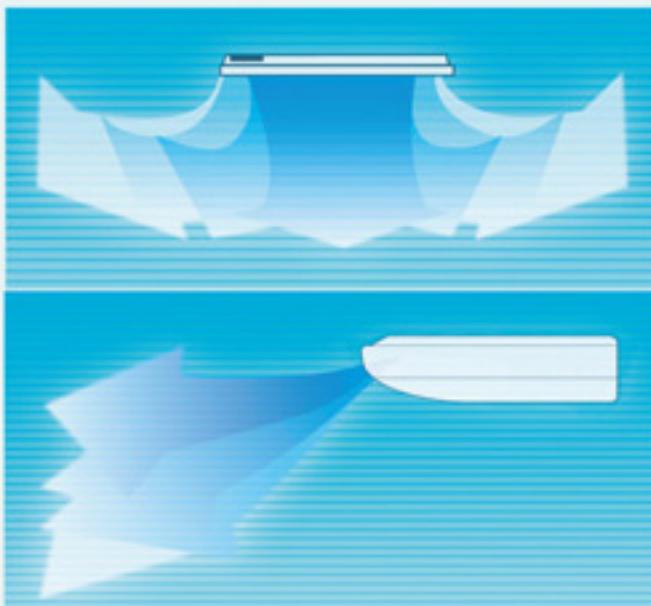
Ceiling & Floor

Indoor Unit



Features

- Modern and elegant appearance.
- Auto swing and wide-angle, horizontal and vertical auto swing ways.



- Drain pipe connection: left or right.
- Optional built-in water pump.
- Built-in autorestart.
- Three speeds.

Specification

Model		MDV-D36DL/B	MDV-D45DL/B	MDV-D56DL/B	MDV-D71DL/B
Capacity	Cooling	kW	3.6	4.5	5.6
	Heating	kW	4	5	6.3
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50
					220-240-1-50
Rated power		W	120	120	122
	Air flow volume	m³/h	800	800	800
Performance	Noise level	dB(A)	Ceiling type 38	Ceiling type 38	Ceiling type 38
		dB(A)	Floor type 40	Floor type 40	Floor type 40
Refrigerant	Type		R22	R22	R22
Net dimension	Body (WxHxD)	mm	990x660x206	990x660x206	990x660x206
Packing dimension	Body (WxHxD)	mm	1089x744x296	1089x744x296	1089x744x296
Net weight	Body	kg	29	29	28.4
Gross weight	Body	kg	35	35	35
Qty/Per 20/40/40HQ	Indoor unit	Pieces	127/224/295	127/224/295	127/224/295
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4	Φ9.5
	Gas side	mm	Φ12.7	Φ12.7	Φ15.9
	Drainage water side	mm	Φ32	Φ32	Φ32

Model		MDV-D80DL/B	MDV-D90DL/B	MDV-D112DL/B	MDV-D140DL/B
Capacity	Cooling	kW	8	9	11.2
	Heating	kW	9	10	12.5
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50
					220-240-1-50
Rated power		W	130	130	182
	Air flow volume	m³/h	1200	1400	1800
Performance	Noise level	dB(A)	Ceiling type 40	Ceiling type 40	Ceiling type 42
		dB(A)	Floor type 42	Floor type 42	Floor type 44
Refrigerant	Type		R22	R22	R22
Net dimension	Body (WxHxD)	mm	1280x660x206	1280x660x206	1670x680x244
Packing dimension	Body (WxHxD)	mm	1379x744x296	1379x744x296	1764x760x329
Net weight	Body	kg	37	36	54
Gross weight	Body	kg	42	41.2	61
Qty/Per 20/40/40HQ	Indoor unit	Pieces	96/175/226	96/175/226	63/132/151
Pipe diameter	Liquid side	mm	Φ9.5	Φ9.5	Φ9.5
	Gas side	mm	Φ15.9	Φ15.9	Φ19.1
	Drainage water side	mm	Φ32	Φ32	Φ32

Wall-mounted (E Type)

Indoor Unit

**Features**

- The evaporator employs a multi-bend structure which enlarges the heat exchange surface.
- The front panel is tightly fixed with the front frame by simply buckling the latter with a buckle mechanism on the panel.
- The manual force switch employs comfortable switch push buttons.

Specification

Model		MDV-D22G/E1	MDV-D28G/E1	MDV-D36G/E1	MDV-D45G/E1	MDV-D56G/E1
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.6	3.2	4	5
Power supply	V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Rated power	W	40	40	40	50	50
Performance	Air flow volume	m³/h	520	520	585	660
	Noise level	dB(A)	35	35	35	40
Refrigerant	Type		R22	R22	R22	R22
Net dimension	Body (WxHxD)	mm	790x265x195	790x265x195	790x265x195	920x292x225
Packing dimension	Body (WxHxD)	mm	875x445x290	875x445x290	875x445x290	1015x465x295
Net weight	Body	kg	11	9.3	11	15
Gross weight	Body	kg	14	14	14	17
Qty/Per 20'/40'/40'HQ	Indoor unit	Pieces	312/668/780	312/668/780	312/668/780	288/578/653
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4	Φ6.4	Φ6.4
	Gas side	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Drainage water side	mm	Φ25	Φ25	Φ25	Φ25

Wall-mounted (EXV Integrated)

Indoor Unit

**Features**

- The evaporator employs a multi-bend structure which enlarges the heat exchange surface.
- LED display.
- Built-in the electronic throttle kit.

Specification

Model		MDV-D22G/Y MDV-D22G/DY	MDV-D28G/Y MDV-D28G/DY	MDV-D36G/Y MDV-D36G/DY	MDV-D45G/Y MDV-D45G/DY	MDV-D56G/Y MDV-D56G/DY	MDV-D71G/Y MDV-D71G/DY
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	kW	2.6	3.2	4	5	6.3
Power supply	V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
Rated power	W	30	30	30	45	45	60
Performance	Air flow volume	m³/h	580	580	580	900	900
	Noise level	dB(A)	29	29	29	34	34
Refrigerant	Type		R22	R22	R22	R22	R22
Net dimension	Body (WxHxD)	mm	915x290x210	915x290x210	915x290x210	1070x315x210	1070x315x210
Packing dimension	Body (WxHxD)	mm	1020x385x300	1020x385x300	1020x385x300	1180x410x300	1180x410x300
Net weight	Body	kg	12.5	12.5	12.5	14.6	14.6
Gross weight	Body	kg	16.3	16.3	16.3	18.4	18.5
Qty/Per 20'/40'/40'HQ	Indoor unit	Pieces	268/540/641	268/540/641	268/540/641	220/413/510	220/413/510
Pipe diameter	Liquid side	mm	Φ6.4	Φ6.4	Φ6.4	Φ9.5	Φ9.5
	Gas side	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drainage water side	mm	Φ20	Φ20	Φ20	Φ20	Φ20

Heat Recovery Ventilator (HRV)



Features

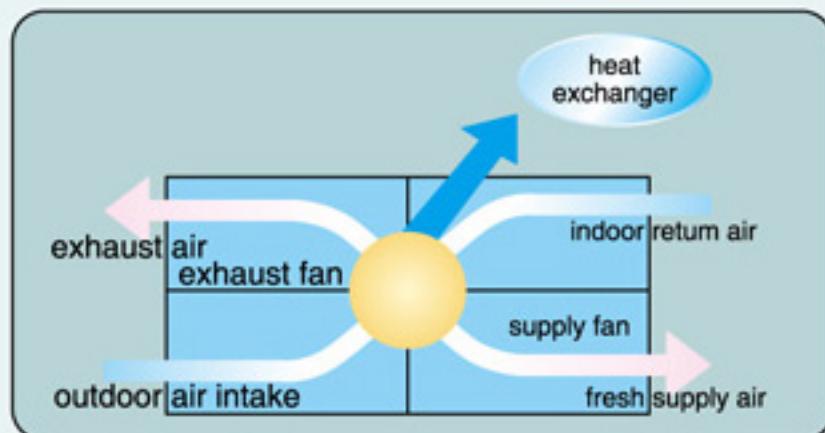
■ HRV (Heat Recovery Ventilator) adopt high efficiency heat exchanged core.

The heat exchanged core forming by special paper that be processed with chemical treatment, which could create the optimum result in temperature, humidity and cooling recovery.

■ Energy saving

Fresh-air and exhaust air are crossed through the exchanger. Temperature exchange happened in the heat recovery ventilator. Fresh-air can produce a great deal of energy from exhaust air.

■ Adopt centrifugal fan with lower power consumption and longer air supply distance; Easy control, operation friendly.



■ High efficiency

Adopt high quality paper-core heat-exchange. Less air resistance.

■ Low noise

Add sound absorption material, quiet operation.

■ Different modes for your choice

- Exhausting mode (Hi Mid Low fan speed can be chosen)
- Air supply mode (Hi Mid Low fan speed can be chosen)
- By pass mode (Hi Mid Low fan speed can be chosen)

In this mode, there's no heat exchanging happened, so saving energy.

For example:

If outdoor temp. is lower than indoor, we don't need heat exchanging, but we need fresh air.

We can choose by pass mode.

Remark: this mode only available for HRV-200~1000.

- Heat exchanging mode (Hi Mid Low fan speed can be chosen)

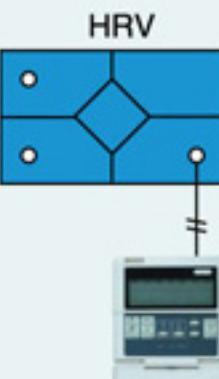
In this mode, supply air flow = exhaust air flow.

- Auto mode

In this mode, the unit will run at heat exchange mode or by pass mode judge by outdoor temp. and indoor temp. with low speed air flow.

■ Flexible multi control ways

Wired controller KJR-27B/E standard to choose different mode and timer function.



Can be controlled together with other indoor units by central controller.

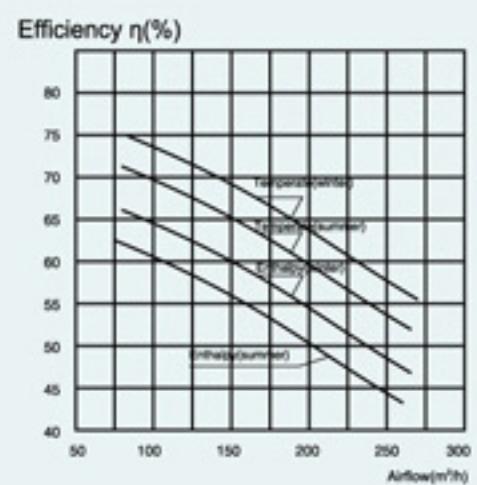
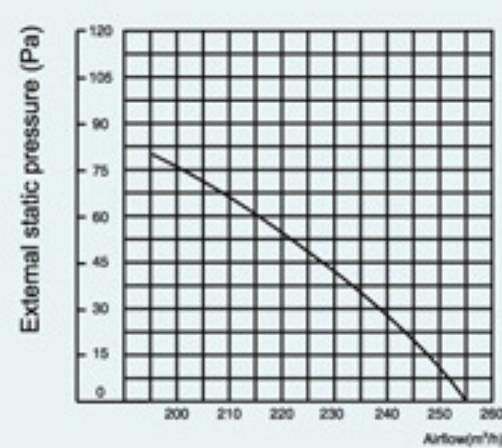


Note: Due to there is no Auto mode and Exhaust mode on the CCM03 central Controller, the function of HRV can not exert completely.

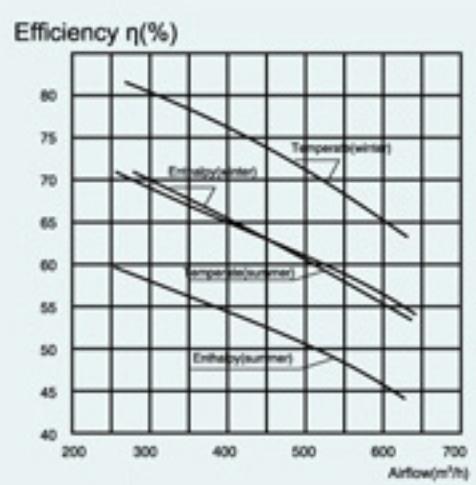
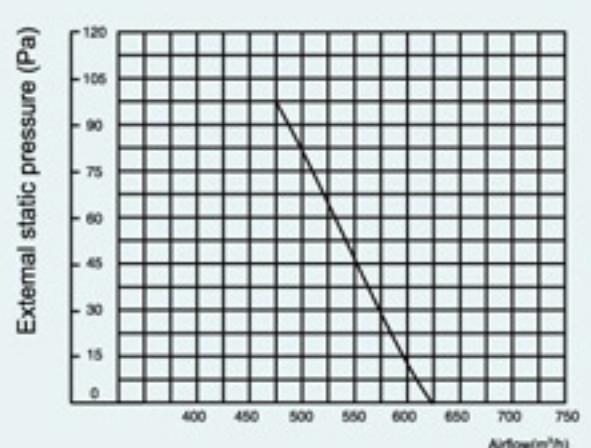
■ Compact design, easy installation and maintenance.

■ Capacity curve

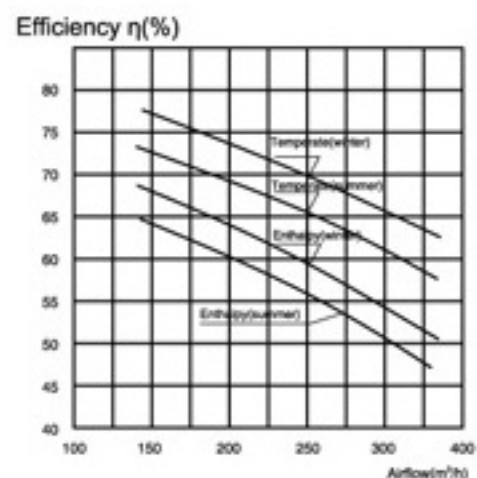
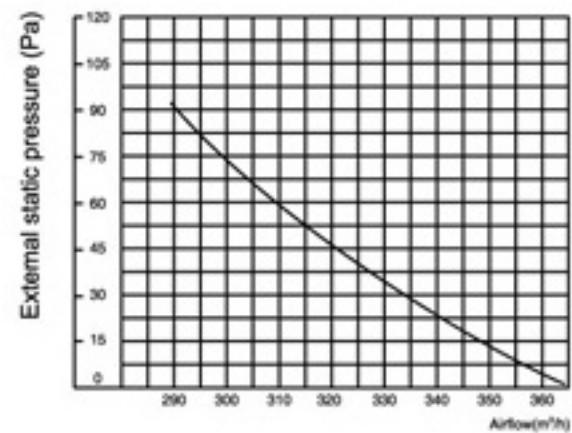
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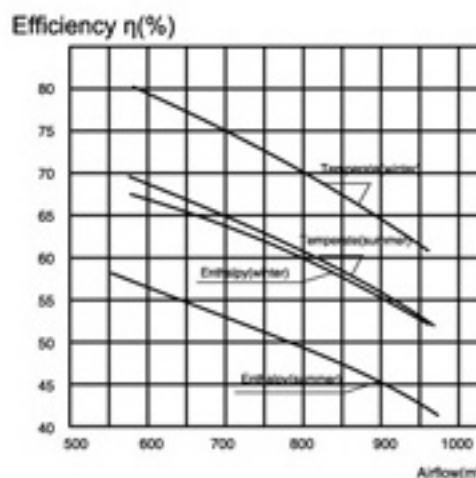
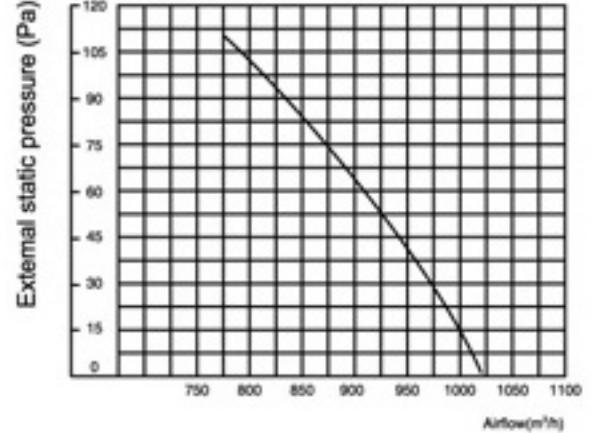
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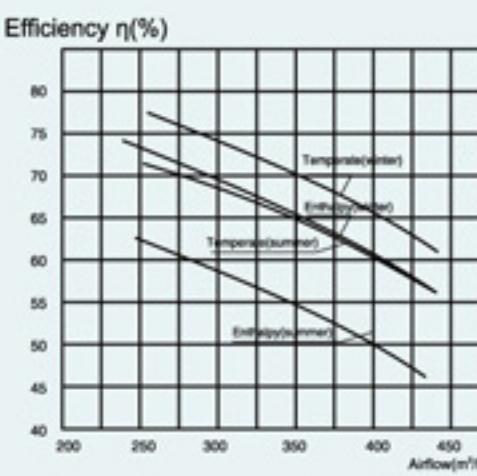
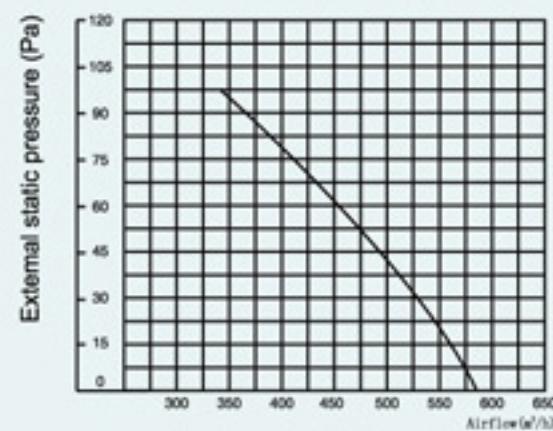
For HRV-300:



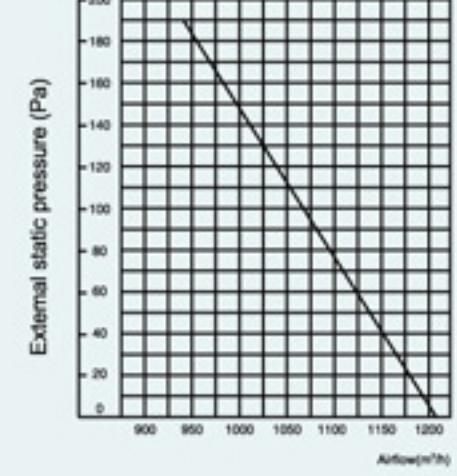
For HRV-800:



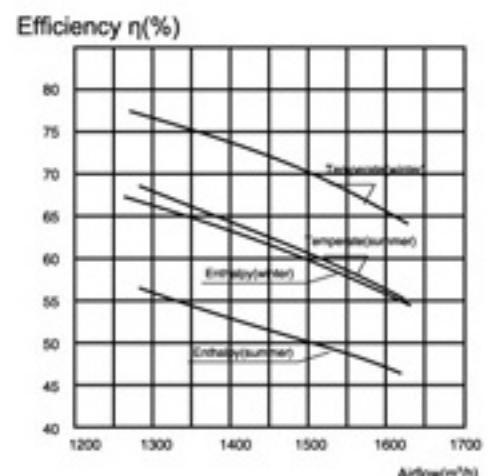
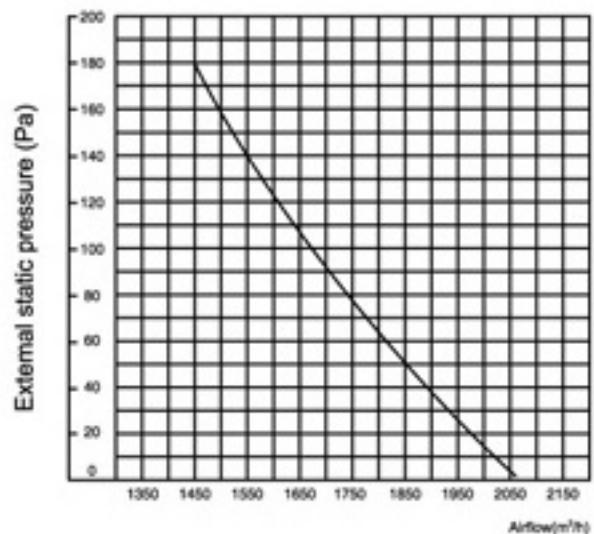
For HRV-400:



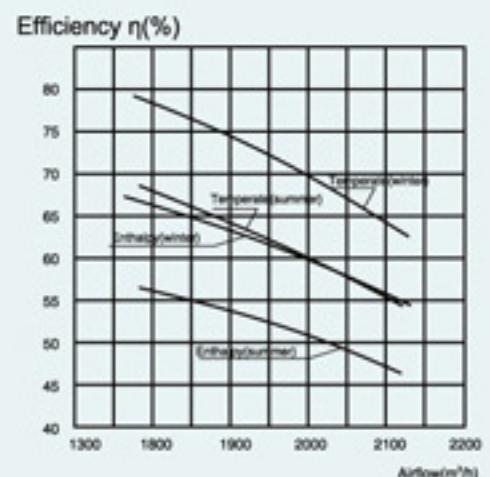
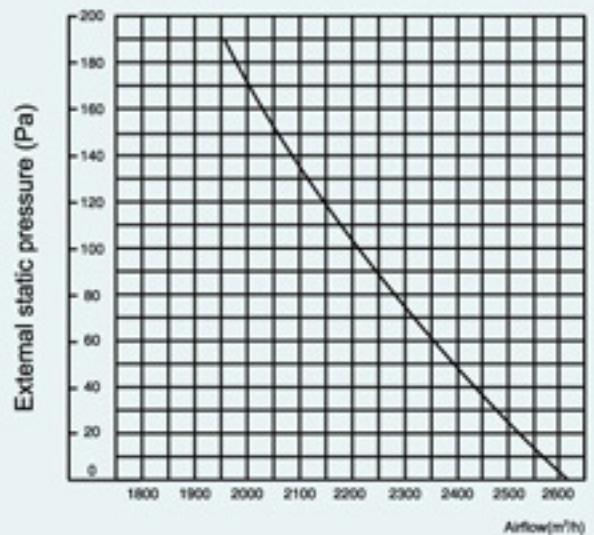
For HRV-1000:



For HRV-1500:



For HRV-2000:

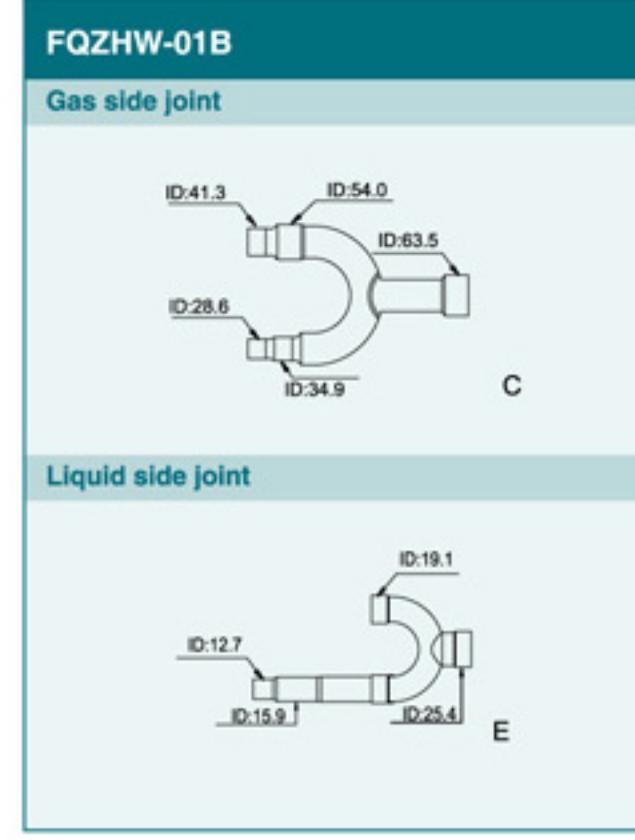
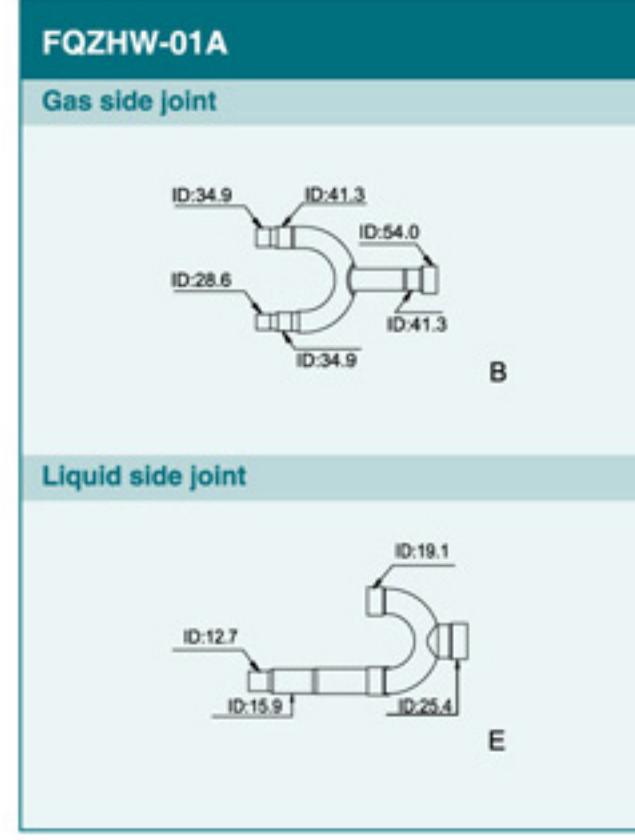
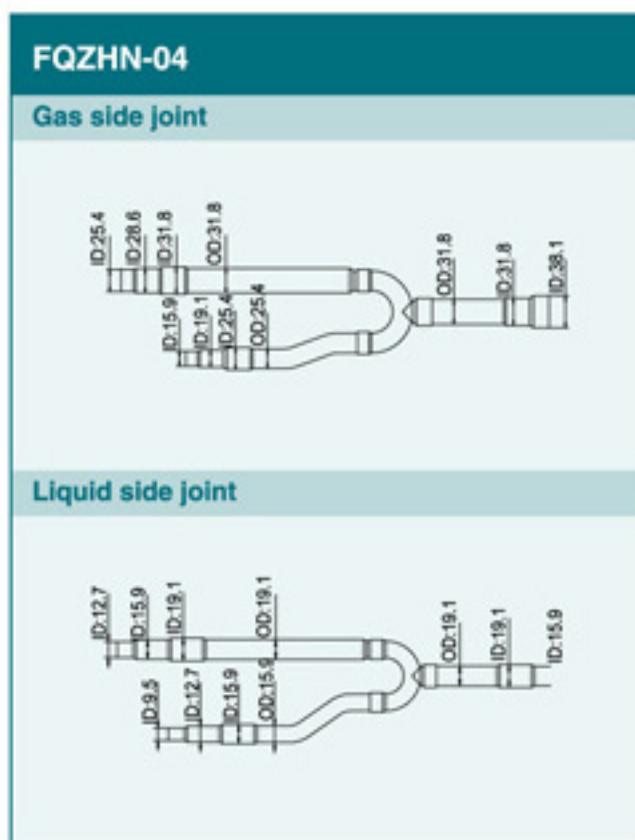
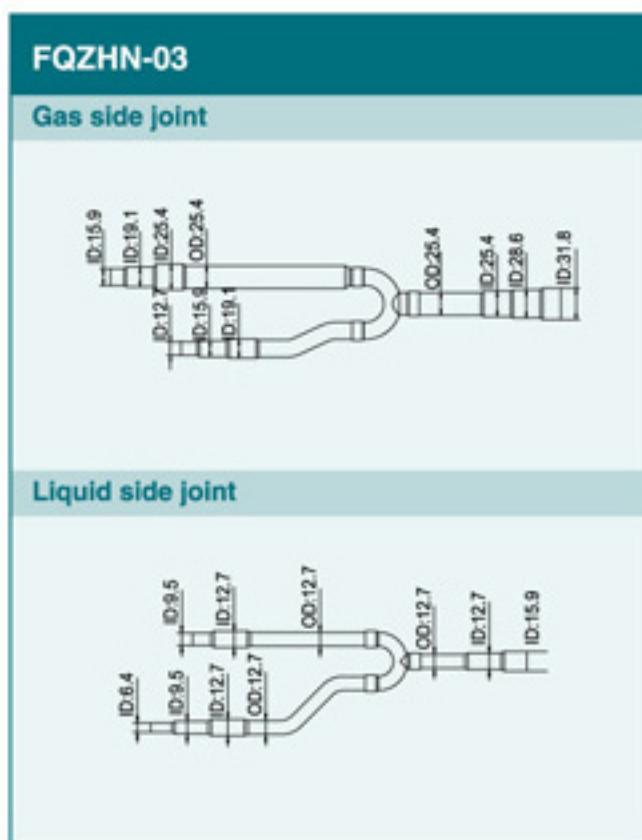
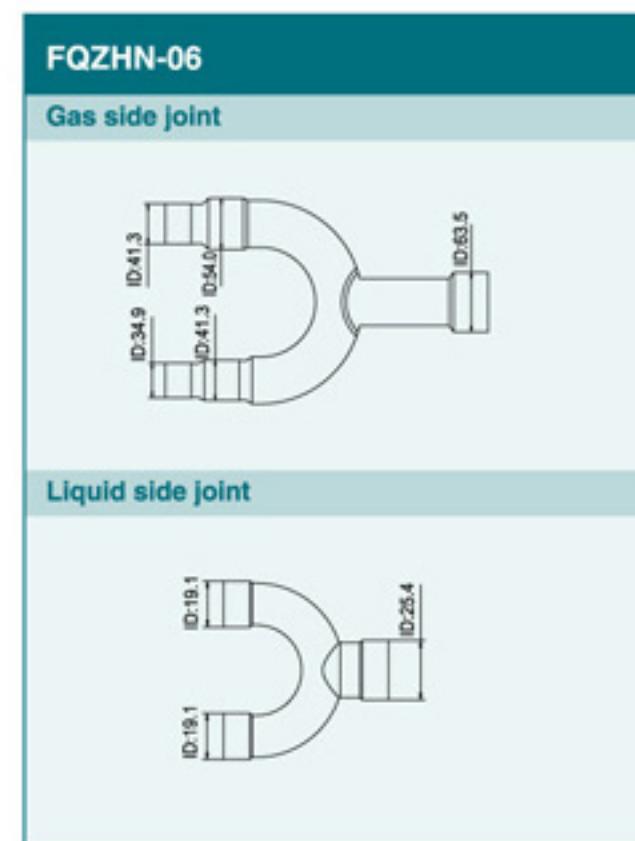
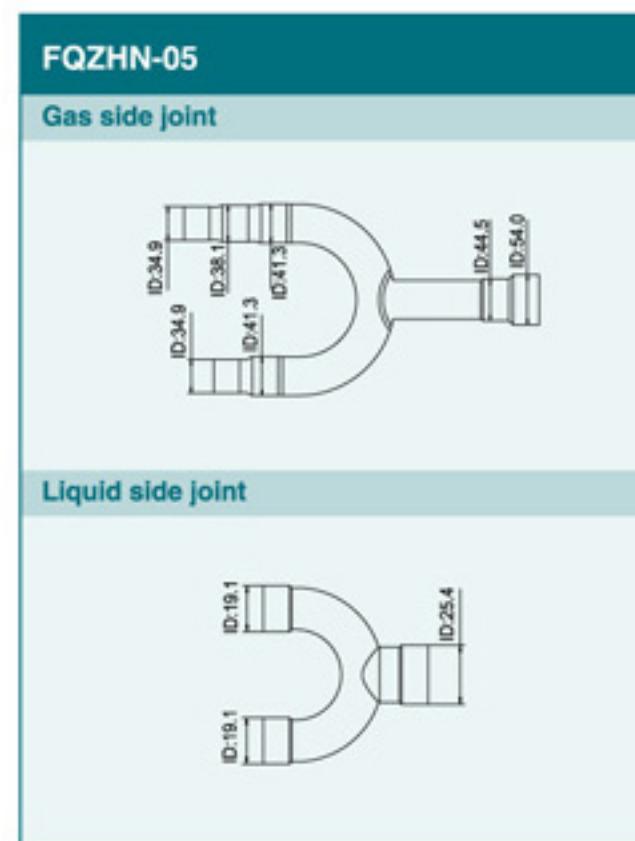
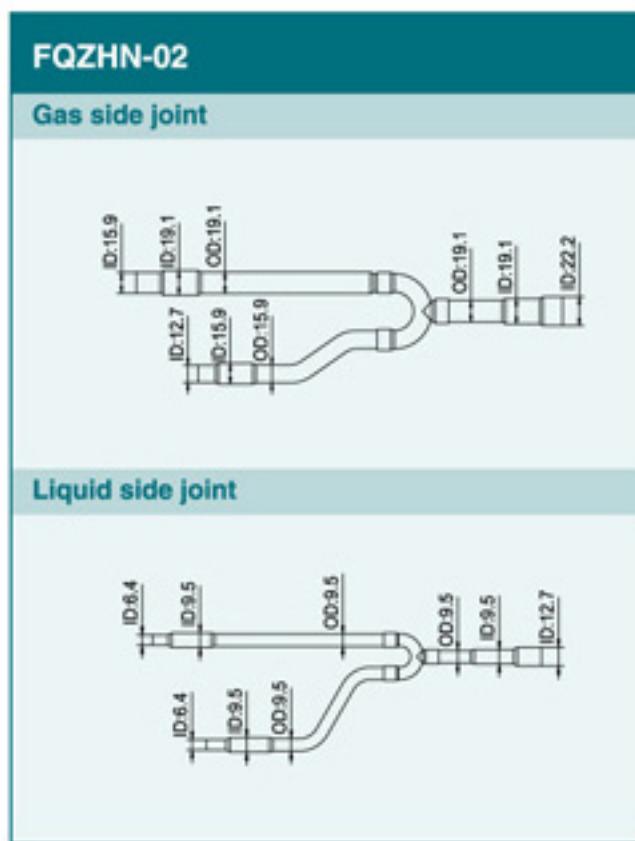
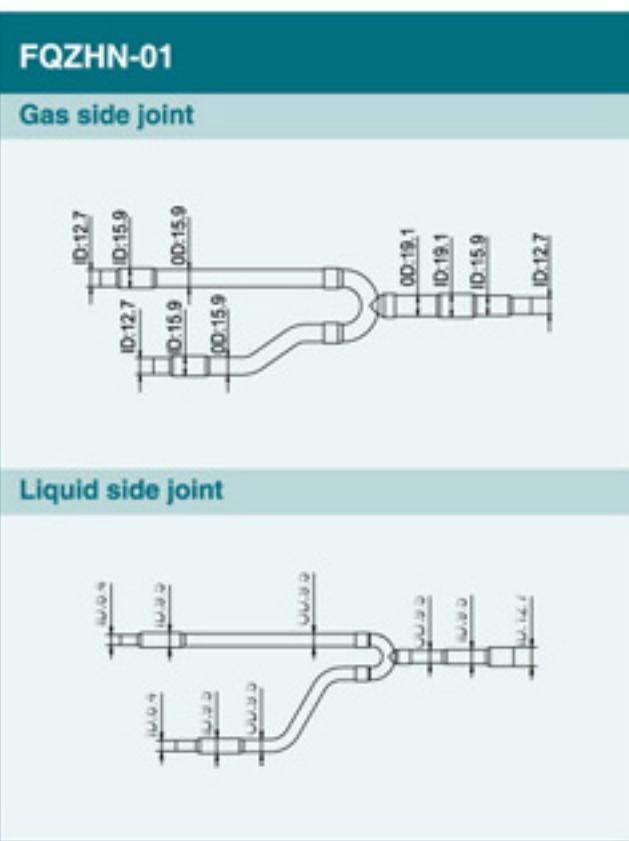


Specification

Model		HRV-200	HRV-300	HRV-400	HRV-500	
Air flow volume	m³/h	200	300	400	500	
Static pressure	Pa	75	75	80	80	
Cooling	Temp. efficiency	%	60	60	60	
	Enthalpy efficiency	%	50	50	50	
Heating	Temp. efficiency	%	65	65	70	
	Enthalpy efficiency	%	55	55	60	
Power supply	V- Ph-Hz	220-1-50	220-1-50	220-1-50	220-1-50	
Motor	Type			Single-phase asynchronous motor		
	Power	W	20	40	80	120
	Current	A	0.5	0.56	1	1
Fan type				Centrifugal fan		
Net dimension	WxHxD	mm	666x264x580	744x270x599	744x270x804	824x270x904
Packing dimension	WxHxD	mm	968x456x835	1046x462x855	1046x462x1059	1126x462x1159
Net weight	Kg	22	23	30	35.5	
Gross weight	Kg	46	48	57	65.5	
Noise level	dB(A)	27	30	32	35	
Qty/Per 20'/40'/40'HQ	Pieces	65/146/174	58/130/154	46/104/124	40/89/106	
Controller				Wired controller (KJR-27B/E)		

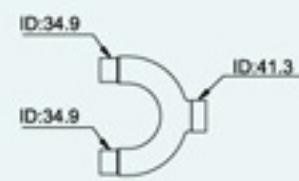
Model		HRV-800	HRV-1000	HRV-1500	HRV-2000	
Air flow volume	m³/h	800	1000	1500	2000	
Static pressure	Pa	100	100	160	170	
Cooling	Temp. efficiency	%	60	60	60	
	Enthalpy efficiency	%	50	50	50	
Heating	Temp. efficiency	%	70	70	70	
	Enthalpy efficiency	%	60	60	60	
Power supply	V- Ph-Hz	220-1-50	220-1-50	380-3-50	380-3-50	
Motor	Type			Single-phase asynchronous motor		
	Power	W	360	360	900	1100
	Current	A	2	2.4	3.2	3.6
Fan type				Centrifugal fan		
Net dimension	WxHxD	mm	1116x388x884	1116x388x1134	1500x540x1200	1550x540x1400
Packing dimension	WxHxD	mm	1418x580x1139	1418x580x1389	1672x716x1372	1722x716x1572
Net weight	Kg	57.5	59	160	175	
Gross weight	Kg	91.5	95	200	215	
Noise level	dB(A)	39	40	51	53	
Qty/Per 20'/40'/40'HQ	Pieces	25/56/68	20/40/49	14/28/33	9/21/21	
Controller				Wired controller (KJR-27B/E)		

REFRIGERANT DISTRIBUTORS



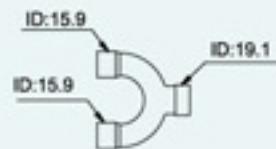
FQZHW-02

Gas side joint



A

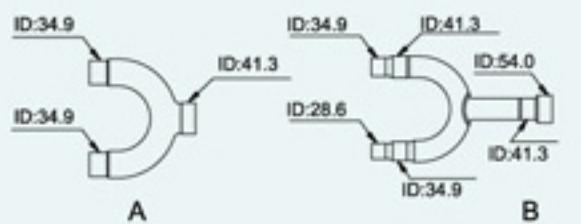
Liquid side joint



D

FQZHW-03

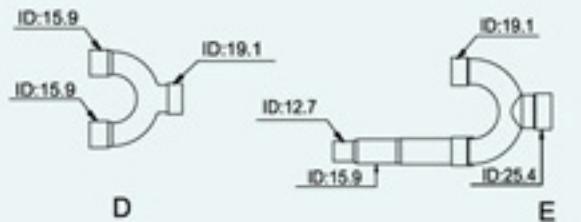
Gas side joint



A

B

Liquid side joint

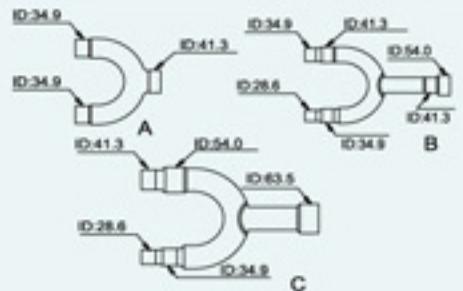


D

E

FQZHW-04

Gas side joint

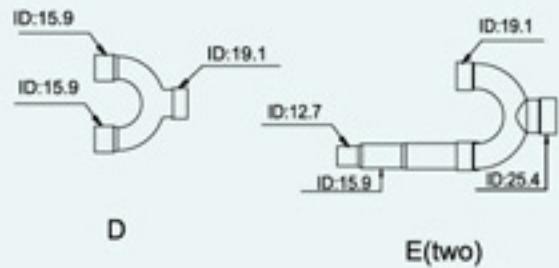


A

B

C

Liquid side joint



Note: FQZHW-01A and FQZHW-01B can not be used individually, which must be cooperated with FQZHW-02 and FQZHW-03.

FQZHW-03=FQZHW-02+FQZHW-01A;
FQZHW-04=FQZHW-03+FQZHW-01B.