Haier

Intelligent Buildings

MRV

2024 Europe

Haier

General MRV

2024

Haier

Intelligent Buildings

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Haier Brand Story

Established in 1984, Haier Group is a world-leading provider of a better life and digital transformation solutions.

With users at the center of all we do, we have deployed 10 R&D centers, 71 research institutes, 33 industrial parks, 133 manufacturing centers and more than 230,000 sales networks worldwide. We are the world's only IoT ecosystem brand that has been ranked on the list of BrandZ Top 100 Most Valuable Global Brands for four years straight and topped Global Major Appliances Brand Rankings by Euromonitor International for 13 consecutive years. In 2021, our global revenue reached USD 52.2 billion, and our brand value reached USD 74.3 billion.

We own three listed companies. Our subsidiary Haier Smart Home is among the list of Fortune Global 500 and Fortune World's Most Admired Companies. We own seven global high-end brands, namely Haier, Casarte, Leader, GE Appliances, Fisher & Paykel, AQUA and Candy; and the world's first smart home scenario brand - THREE WINGED BIRD. In addition, we have built the world's leading Industrial Internet platform COSMOPlat and the great healthcare brand Yingkang Healthcare. Our entrepreneurship acceleration platform HCH has successfully incubated 7 unicorn companies, 102 gazelle companies, and 80 specialized and sophisticated enterprises.

As a representative of the real economy, we have been constantly focusing on the industry and develop businesses in smart home and living, Industrial Internet, and great healthcare sectors; and have been building high-end, scenario and ecosystem brands. Through technological innovation, we aim to customize a personalized smart living experience for global users, help corporate clients with digital transformation, and promote high-quality and sustainable economic and social development.

Haier Global Network

Haier has owned 10+N R&D centers, 35 industrial park, 138 factories, 108 marketing centers across the world, and the sales network over 200 countries or regions.

Haier has seven major household appliance brands across the world: Haier, Casarte, Leader, AQUA, Fisher & Paykel, GE Appliances (GEA) and CANDY. All these brands together have constituted Haier's global brand cluster, which can fully meet the best experience of different consumer groups in different regions all across the world.

The World's Only IoT Ecosystem Brand For 4 Years

Global No.1 Major Appliance Brand * 14 Consecutive Years

Haier Smart Home was named one of Fortune's most admired companies in the world.

In 2020,Haier Smart Home was once again listed on the Fortune Global 500, ranking 13 up from last year.

CANDY Turkey Factory

CANDY Italy Factory

Haier Refrigerator Factory in Romania

Haier Russia Smart Ecosystem Industrial Park

Japan R&D Center

Japan IoT Laundry Factory

Haier Pakistan Economic Zone

Haier Thailand Factory

Haier Indonesia Factory

GE Appliance Park, Louisville, U.S.

Haier Nigeria Factory

Haier India Pune Industrial Park

Haier India Greater Noida Industrial Park

AQUA Vietnam Factory

Haier AC Factory in Egypt

FISHER & PAYKEL New Zealand R&D Center

200+ Countries or Regions

10+N R&D Centers

35 Industrial Parks

138 Manufacturing Centers

108 Marketing Centers

Haier Global Manufacturing Capacity

In China, Haier owns 8 air conditioner factories, 1 of which is MHAQ, a JV between Haier and Mitsubishi Heavy. Besides China, Haier runs another 8 overseas air conditioner factories. These factories have a total production capacity of over 27.2 million units per year.

The First Batch of Chinese Local Enterprise Selected as

"Lighthouse Factory"

in the world

Haier R&D Center

Haier Air Conditioning R&D Center, located in Qingdao, China, completed in December 2013, covers 20,000 square meters. It has more than 120 laboratories, including testing laboratories, key part research laboratories and all-weather user experience simulation laboratories. The R&D center also has the world tallest "drop tower" for testing long refrigerant piping tests(106 meters tall).

Haier & Mitsubishi
Joint Laboratory

Haier & HIGHLY
Joint Laboratory

In April 2014, Haier established joint laboratories with Highly for research in heating & cooling technology and with Mitsubishi Electric for innovative technology for user experience. Research by the user experience center covers the fields of user comfort evaluation, aerodynamics, acoustics, EMC(Electro-Magnetic Compatibility) and mechanics etc. The labs can carry out more than 600 international tests as per ISO, IEC, EN, CISPR and ANSI etc. to meet the requirements of Europe, Asia, America, Australia, Middle East and other 100 countries and regions.

The user experience center gains recognition by domestic well-known certification and testing institutions, also is recognized by international organizations like TUV and Intertek etc. At Haier, we believe that the best air conditioning is one that builds on uncompromising quality control worldwide, developing and manufacturing fine products and delivering them to customers everywhere.

R&D Labs


EMC Test Lab


Water-spray Test Lab


Psychrometric Test Lab


Safety Test Lab


Full-anechoic Test Lab


Centralized Control


Simulated Snow Test Lab


Simulated Sunshine Test Lab


Environmental Evaluation Test Lab


Humidity Evaluation Test Lab


Double 85 Test Lab


Height Drop Test Lab

Global Certification

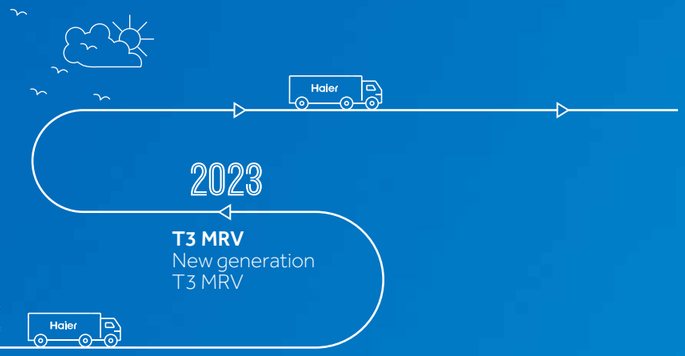
Haier MRV Milestone

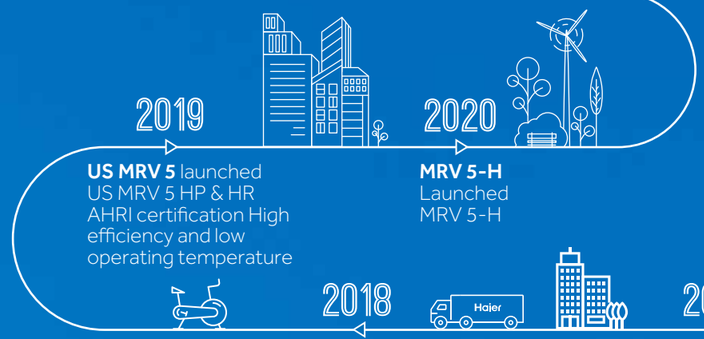
Haier AC has been holding No.1 market share in Pakistan for 5 consecutive years from 2009.

Haier AC was ranked NO.5 in Italy by market share in volume in 2012 & 2013 by DATABANK.

Haier B2C website in Italy was awarded "Interactive Key Award 2013".

Haier AC entered Winter Olympics in Sochi Russia in 2013.





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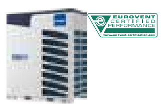
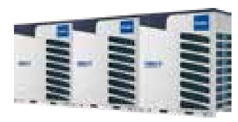
PRODUCT LINE-UP

Outdoor Units

T1 Eurovent Line-up

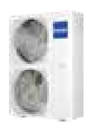
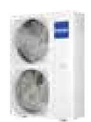
MRV 5	3/380~415/50 3/380~415/60	 8/10/12/14/16HP	 10/20/22/24/26HP	 28/30/32HP	 34HP		 36/38/40/42/46/48/50/52HP	 54/56/58/60/62/64/66/68/70/72/74/76/78HP	 80/82/84/86/88/90/92/96/98/100/102/104HP
MRV 5-H	3/380~415/50 3/380~415/60	 8/10/12/14/16HP	 10/20/22/24/26HP	 28/30/32HP	 34HP		 36/38/40/42/46/48/50/52HP	 54/56/58/60/62/64/66/68/70/72/74/76/78HP	 80/82/84/86/88/90/92/96/98/100/102/104HP
MRV 5-RC	3/380~415/50 3/380~415/60	 8/10/12/14HP	 16/18/20/22HP	 24/26/28HP	 30HP	 32/34/36/38/40/42/44HP	 46HP	 48/50/52/54/56/58/60/62/64/66HP	 68/70/72/74/76/78/80/82/84/86/88HP

Series	HP	3	4	5	6	7	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
MRV SII	1/220~240/50 1/220~240/60																				
	1/220~240/50 1/220~240/60																				
	3/380~415/50 3/380~415/60																				
	3/380~415/50 3/380~415/60																				

PRODUCT LINE-UP

T1 Line-up

Series	Power supply	Models
MRV 5-T	3/380~415/50/60	8~16HP, 18~26HP, 28~32HP, 34HP, 36~52HP, 54~78HP, 80~104HP, 106HP, 108HP, 110HP, 112~136HP
NEW MRV 5-T Coming Soon	3/380~415/50/60	8~18HP, 20~28HP, 30~42HP, 44~54HP, 56~62HP, 64~84HP, 86~126HP
MRV 5	3/380~415/50/60	8~16HP, 18~26HP, 28~32HP, 34HP, 36~52HP, 54~78HP, 80~104HP
MRV 5-C	3/380~415/50/60	8~18HP, 20~28HP, 30~36HP, 38HP, 40~56HP, 58HP, 60~84HP, 86~112HP

Series	HP	3	4	5	6	7	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
MRV SI	1/220~240/50/60																				
	3/380~415/50/60																				
MRV SII	1/220~240/50/60																				
	1/220~240/50/60 3/380~415/50/60																				
MRV W	3/380~415/50/60																				

PRODUCT LINE-UP

T3 Line-up

MRV 5 T3	3/380~415/50/60	 8~12HP	 14~20HP	 22~24HP	 26HP	 28~40HP	 42~60HP	 62~80HP	

Series	HP	3	4	5	6	7	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
MRV SII T3	3/380~415/50/60																				
	3/380~415/50/60																				

Connection Kit

	EASY MRV				DX AHU² Connection kit				
Model	MS1-036A	MS1-060A	MS3-036A	Model	AH1-070B	AH1-140B	AH1-280B	AH1-560B	AH1-730B
Match with indoor	1 by 1	1 by 1	1 by 3	Capacity	3.5≤x≤7kW	7<x≤14kW	14<x≤28kW	28<x≤56kW	56<x≤73kW
EASY MRV Connection Kit									
Capacity(Btu/h)	≤36K	36K<X≤60K	Every indoor capacity ≤36K						
MRV series	MRV 5-H, MRV 5, MRV SII (4/5/6/8/10/12HP Double fan)			MRV series	MRV 5-H, MRV 5, MRV SII (4/5/6/8/10/12HP Double fan)				

PRODUCT LINE-UP

Indoor Units

Series	KBTU/h		24	48	96
	kW		7	14	28
Hydro Box		HU**2WVLNA	■	■	■

Series	KBTU/h		5	7	9	12	16	18	24	28	30	38	42	48	54	72	96
	kW		1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0
1-way Cassette		AB**2MAERA	■	■	■	■											
	NEW 	AB**2MAERAD	■	■	■	■	■	■	■								
2- way Cassette	NEW 	AB**2MBERAD		■	■	■	■	■	■	■	■	■		■			
Compact Cassette		AB**2MCERA(M)	■	■	■	■	■	■									
New Round Way Cassette	NEW 	AB**2MNERAB		■	■	■	■	■	■	■	■	■		■	■		
Round Way Cassette		AB**2MRERA		■	■	■	■	■	■	■	■	■		■	■		
4- way Cassette		AB**2MCERA	■	■	■	■	■	■									
Convertible		AC**2MDERA				■	■	■	■	■	■	■		■			
Slim Duct (0/15/30Pa) (Air Guard)		AD**2MSERA(H)	■	■	■	■	■	■	■								
Slim Duct (0/15/30Pa)		AD**2MSERA(D) AD**2MSERA	■	■	■	■	■	■	■								
High ESP Duct (20/200Pa) (Air Guard)		AD**2MJERA(H)	■	■	■	■	■	■	■	■	■	■		■	■		

PRODUCT LINE-UP

Indoor Units

Series	KBTU/h		5	7	9	12	16	18	24	28	30	38	42	48	54	72	96
	kW		1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0
Medium ESP Duct (50/150Pa)		AD**2MJERAB AD**2MJERA	■	■	■	■	■	■	■	■	■	■		■	■		
High ESP Duct(20/200Pa)		AD**2MJERAD	■	■	■	■	■	■	■	■	■	■		■	■		
Compact Air Duct(50/120)		AD**2MJERN									■	■		■			
High ESP Duct (0-300Pa)		AD**2MTERAD														■	■
High ESP Duct (0-250Pa)		AD**2MTERAB														■	■
Built-in Floor Standing		AE**2MLERA		■	■	■	■	■	■								
Console		AF**2MBERA	■	■	■	■	■	■									
High Wall		AS**2MNERAB AS**2MNERA AS**2MNERAC	■	■	■	■	■	■	■	■	■						
		AS**2MFERAB AS**2MFERA AS**2MFERAC	■	■	■	■	■	■	■								
Fresh Air Duct (Comming soon)		AD**2MJERAF AD**2MTERAF												■		■	■
HRV (Heat ReclaimVentalation) **ERV***ANW**		150m³/h 500m³/h 250m³/h 800m³/h 350m³/h 1000m³/h 2000m³/h	**HRV (Heat ReclaimVentalation)** **ERV***BNN**									150m³/h 500m³/h 2000m³/h 250m³/h 800m³/h 350m³/h 1000m³/h					

MRV 5
DC INVERTER

015 Features & Benefits
020 MRV 5 Outdoor
033 Dimensions

MRV5

Advanced Technology | High Efficiency | Super Comfort | Easy Installation

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Advanced Technology

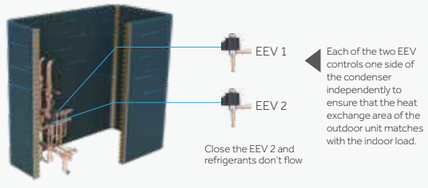
Smart link

Wireless connection and communication between indoor units.

- Labor saving
- Automatic network connection
- Convenient maintenance
- Stable performance
- Total cost saving is about 30%

Design of control condenser with electronic expansion valve

The condenser is controlled by two electronic expansion valves respectively, which can reasonably use the heat exchanger area according to the demand of IDU heat exchange temperature, distribute the refrigerant flow according to the load demand, to ensure high-performance heat exchange efficiency.



* Class 3000 EEV customized for outdoor unit and Class 2000 EEV customized for indoor unit

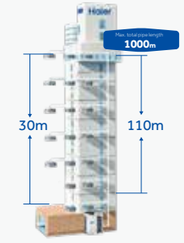
Advanced Technology

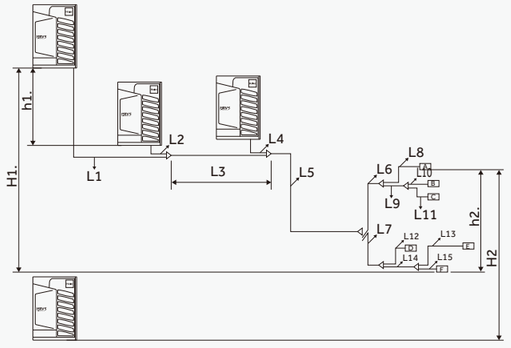
Total pipe length 1000m, height drop 110m

- Max. total pipe length 1000m
- Max. actual pipe length 220m
- Max. equivalent pipe length 260m
- Max. drop between IDU&ODU / 90m (outdoor unit up) / 110m (outdoor unit down)
- Max. drop between IDU&IDU 30m*

* If the total pipe length is between 300m and 1100m or the drop between IDU and ODU more than 50m, please contact your local dealer.

No1 High Drop Tower





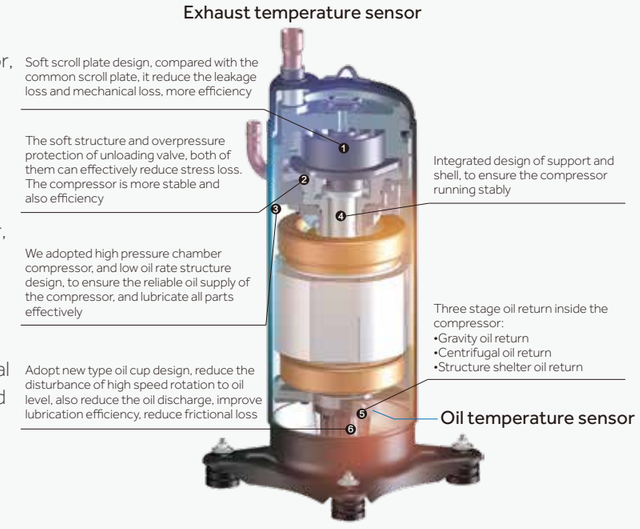
		Max. length	Pipe in left figure
Single way total pipe length (=total liquid pipe length)		1000m	L1+L2+L3+L4+L5+L6+L7+L8 +L9+L10+L11+L12+L13+L14+L15
Single way Max. pipe length (max. length between outdoor & indoor) actual length		220m	L1+ L3+ L5+ L7+ L14+ L13
Main pipe actual length (length between first gather pipe & first branch pipe)		130m	L5
Pipe length after first branch pipe (length between first branch & farthest indoor)		90m	L7+L13+L14
The distance between the nearest indoor unit and the farthest indoor		40m	L13+L14-L12
Pipe length among outdoor units (length between first gather pipe & farthest outdoor unit)		10m	L1+L3
Height difference between indoors		18m	h2
Height difference between outdoors		5m	h1
Height difference between indoor & outdoor	Indoor below outdoor (between highest outdoor & lowest indoor)	50m	H1
	Indoor above outdoor (between lowest outdoor & highest indoor)	40m	H2

High Efficiency

Supper efficiency with full DC inverter compressor

Matches up inverter with step less compressor, the durability and stability of the compressor are guaranteed, fault can be reduced.

Each compressor is adopted oil temperature sensor and the discharge temperature sensor, detecting the discharge temperature and oil temperature of compressor, cooperated with the compressor frequency and the EEV control, to ensure exhaust heat and oil temperature superheat kept within the optimal range. Ensure that the oil dilution is maintained at a safe level at all times.



High Efficiency

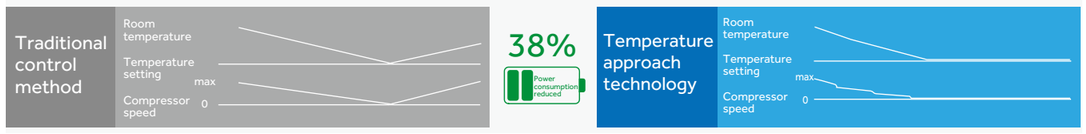
Speedless inverter DC-motor

Outdoor unit matches efficient variable-speed DC-motor. drived by sine wave, wider efficiency range and torque range, motor efficiency is increased by 17%. air fan of outdoor unit can achieve 0~91Hz stepless frequency.

New one-piece of four-way heat exchanger

Temperature approaching technology

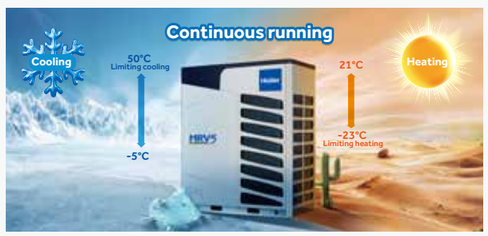
The main problem of an ordinary inverter VRF system lies in that its compressor starts and stops frequently, stopping when the room temperature reaches the setting temperature and restarting when the same becomes higher than the setting temperature. Though the inverter technology has improved such a problem greatly, the energy consumption caused by system restart is still a problem that cannot be ignored.
Haier MRV 5 series units adopts the temperature approaching technology, which enables the VRF system to maintain a low-frequency operating state all the time when the room temperature is close to the setting temperature but don't reach the setting temperature, thus avoiding the energy waste caused by frequent on/off.



Super Comfort

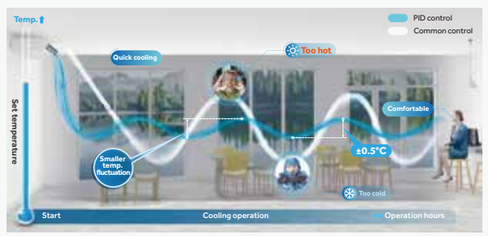
Wide operation temperature

The heating operation temperature can be as low as -23°C, and the heating is more powerful in winter. The cooling operation temperature can reach 50°C, better in summer.



Precise temperature control at ±0.5°C

With twin pressure sensors and twin EEVS, the refrigerant volume can be adjusted automatically to realize precise temperature control, improving indoor comfort.



Super Comfort

Intelligent triple backup operation technology

•For the double-compressor system, when one compressor breakdown, the other compressor can be put into backup operation immediately to ensure the user needs.
•For the multi-module combination, in case of breakdown of one outdoor unit, this unit can be interrupted from the system so that the other modules can continue to operate.
•Super-long backup operation time, which can reach up to 8 hours.

Multiple modes available to meet the needs of different users

Operation mode:
Cooling priority, heating priority, cooling only, heating only, and VIP priority

Silent mode:
Seven-position silent mode available (nighttime silent mode and six-position silent mode)

Static pressure mode:
No static pressure mode, low static pressure mode, medium static pressure mode, and high static pressure mode

Rotary electric control box design

Rotary electric control box design, while maintaining the internal space, maintainer only need to rotate the box, do not need to dismantle the box, easy and fast maintenance.

Easy Installation

4-way pipe connection

You can freely choose the front, back, left side, right side of the unit to connect the pipe, easy to install and design.

Easy Installation

Auto addressing indoor units

The ODU can automatically address to the indoor unit through the module on PCB, and the controller can search and set the address of the indoor unit, more convenient.

Automatic oil balancing

Without oil balancing pipe, the oil is balanced automatically. This simplifies system design and improves reliability.

Automatic snow clearing and dust removal function

According to the ash accumulation on the outdoor heat exchanger, the unit will blow away the dust, according to the reverse operation of the fan.

Piping refrigerant storage technology

Advanced refrigerant control technology, the refrigerant is stored in the indoor and outdoor machine piping, remove the high pressure tank, less refrigerant filling in unit, high efficiency.

110Pa external static pressure design

The static pressure of the air outlet is up to 110Pa, which can meet the cooling effect of the layered arrangement of the outdoor unit.

Installation of duct

The outdoor unit is hidden inside the building without affecting the overall image of the building

AV08IMVEVA
AV10IMVEVA
AV12IMVEVA
AV14IMVEVA
AV16IMVEVA

AV18IMVEVA
AV20IMVEVA
AV22IMVEVA
AV24IMVEVA
AV26IMVEVA

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

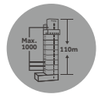
Model				AV08IMVEVA	AV10IMVEVA	AV12IMVEVA	AV14IMVEVA	AV16IMVEVA
	Combination model			/	/	/	/	/
				/	/	/	/	/
				/	/	/	/	/
				/	/	/	/	/
Capacity	Capacity range		HP	8	10	12	14	16
	Cooling		kW	25.2	28	33.5	40	45
	Heating		kW	25.2	28	33.5	40	45
Electrical Parameters	Power supply		Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	6.24	7.37	10.15	11.94	13.24
		Max. power input	kW	10.08	11.56	13.80	16.40	19.20
		Rated current	A	10.53	12.44	17.14	20.16	22.34
		Max. current	A	17.02	19.52	23.30	27.69	32.41
	Heating	Rated power input	kW	5.73	6.51	8.59	10.00	11.25
		Max. power input	kW	9.90	11.25	12.50	15.10	18.40
		Rated current	A	9.67	10.99	14.52	16.88	18.99
		Max. current	A	16.71	18.99	21.10	25.49	31.06
	EER			4.04	3.80	3.30	3.35	3.40
	COP			4.40	4.30	3.90	4.00	4.00
	SEER			7.25	7.09	6.69	6.6	6.36
	SCOP			4.41	4.31	4.31	4.12	4.05
	ηsc		%	287	280.6	264.6	261	251.4
	ηsh		%	173.4	169.4	169.4	161.8	159
Performance	Air flow (H)		m^3/h	11000	11000	12000	13500	13500
	Sound pressure level (H)		dB(A)	56	56	59	59	60
	Sound power level (H)		dB(A)	81	82	88	88	88
Installation	Dimension(W*H*D)		mm	980/1690/750	980/1690/750	980/1690/750	980/1690/750	980/1690/750
	Packing (W*H*D)		mm	1070/1858/850	1070/1858/850	1070/1858/850	1070/1858/850	1070/1858/850
	Net weight		kg	224	224	224	244	244
	Gross weight		kg	250	250	250	270	270
	Compressor brand			MITSUBISHI ELECTRIC				
	Compressor type			DC INV. SCROLL				
	Compressor quantity			1INV	1INV	1INV	1INV	1INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charged volume*3		kg	8.5	8.5	8.5	10	10
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	12.7
	Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4	28.58
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/ actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum indoor units		Piece	13	16	20	24	27
Working Temp.	Cooling		℃	-5~50				
	Heating		℃	-23~21				

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor temp. is 27℃ DB/19℃ WB;Outdoor Temp 35℃ DB/24WB;in heating, indoor temp.is 20℃ DB;in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08IMVEVA
AV10IMVEVA
AV12IMVEVA
AV14IMVEVA
AV16IMVEVA

AV18IMVEVA
AV20IMVEVA
AV22IMVEVA
AV24IMVEVA
AV26IMVEVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV18IMVEVA	AV20IMVEVA	AV22IMVEVA	AV24IMVEVA	AV26IMVEVA	AV28IMVEVA	AV30IMVEVA	AV32IMVEVA
	Combination model			/	/	/	/	/	AV14IMVEVA	AV14IMVEVA	AV16IMVEVA
				/	/	/	/	/	AV14IMVEVA	AV16IMVEVA	AV16IMVEVA
				/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	18	20	22	24	26	28	30	32
	Cooling		kW	50.4	56	61.5	68	73.5	80	85	90
	Heating		kW	50.4	56	61.5	68	73.5	80	85	90
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	15.60	16.62	20.16	22.67	27.22	23.88	25.18	26.47
		Max. power input	kW	21.40	25.10	28.50	29.10	37.80	32.80	35.60	38.40
		Rated current	A	26.34	28.05	34.06	38.27	45.96	40.32	42.50	44.69
		Max. current	A	36.13	42.37	48.11	49.13	61.91	55.37	60.10	64.83
	Heating	Rated power input	kW	13.19	14.66	18.64	19.43	26.25	20.00	21.25	22.50
		Max. power input	kW	17.70	22.70	25.50	26.50	30.40	30.20	33.50	36.80
		Rated current	A	22.27	24.75	31.49	32.80	45.68	33.76	35.87	37.98
		Max. current	A	29.88	38.32	43.05	44.74	51.32	50.98	56.55	62.13
	EER			3.23	3.37	3.05	3.00	2.70	3.35	3.38	3.40
	COP			3.82	3.82	3.30	3.50	2.80	4.00	4.00	4.00
	SEER			6.78	6.75	6.54	5.83	4.9	6.6	6.36	6.36
	SCOP			4.15	4.2	4.21	4.17	3.5	4.12	4.05	4.05
	ηsc		%	268.2	267	258.6	230.2	193	261	251.4	251.4
	ηsh		%	163	165	165.4	163.8	137	161.8	159	159
Performance	Air flow (H)		m^3/h	17000	17000	18000	18000	19000	27000	27000	27000
	Sound pressure level (H)		dB(A)	61	61	61	62	62	62	63	63
	Sound power level (H)		dB(A)	88	88	90	90	90	91	91	91
Installation	Dimension(W*H*D)		mm	1410/1690/750	1410/1690/750	1410/1690/750	1410/1690/750	1410/1690/750	980/1690/750+980/1690/750		
	Packing (W*H*D)		mm	1515/1858/850	1515/1858/850	1515/1858/850	1515/1858/850	1515/1858/850	1070/1858/850+1070/1858/850		
	Net weight		kg	287	370	370	370	370	488	488	488
	Gross weight		kg	317	400	400	400	400	540	540	540
	Compressor bBrand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC					
	Compressor type			DC INV. SCROLL		DC INV. SCROLL					
	Compressor quantity			1INV	2INV	2INV	2INV	2INV	2INV	2INV	2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charged volume*3		kg	10	10	10	10	10	20	20	20
	Refrigerant liquid pipe		mm	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05
	Refrigerant gas pipe		mm	28.58	28.58	28.58	28.58	28.58	28.58	31.8	31.8
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/ Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum indoor units		Piece	30	33	36	40	43	47	50	53
Working Temp.	Cooling		℃	-5~50		-5~50					
	Heating		℃	-23~21		-23~21					

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4

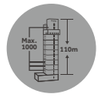
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB,Outdoor temp 35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08IMVEVA
AV10IMVEVA
AV12IMVEVA
AV14IMVEVA
AV16IMVEVA

AV18IMVEVA
AV20IMVEVA
AV22IMVEVA
AV24IMVEVA
AV26IMVEVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV34IMVEVA	AV36IMVEVA	AV38IMVEVA	AV40IMVEVA	AV42IMVEVA	AV44IMVEVA	AV46IMVEVA	AV48IMVEVA
	Combination model			AV16IMVEVA	AV18IMVEVA	AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV24IMVEVA
				AV18IMVEVA	AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV24IMVEVA	AV24IMVEVA
				/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	34	36	38	40	42	44	46	48
	Cooling		kW	95.4	100.8	106.4	112	117.5	123	129.5	136
	Heating		kW	95.4	100.8	106.4	112	117.5	123	129.5	136
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	28.84	31.21	32.22	33.23	36.78	40.32	42.83	45.34
		Max. power input	kW	40.60	42.80	46.50	50.20	53.60	57.00	57.60	58.20
		Rated current	A	48.69	52.68	54.40	56.11	62.11	68.12	72.33	76.54
		Max. current	A	68.54	72.26	78.50	84.75	90.49	96.23	97.24	98.25
	Heating	Rated power input	kW	24.44	26.39	27.85	29.32	33.30	37.28	38.07	38.86
		Max. power input	kW	36.10	35.40	40.40	45.40	48.20	51.00	52.00	53.00
		Rated current	A	41.27	44.55	47.02	49.50	56.24	62.98	64.29	65.60
		Max. current	A	60.94	59.76	68.20	76.64	81.37	86.10	87.79	89.48
	EER			3.31	3.23	3.30	3.37	3.19	3.05	3.02	3.00
	COP			3.90	3.82	3.82	3.82	3.53	3.30	3.40	3.50
	SEER			6.36	6.78	6.75	6.75	6.54	6.54	5.83	5.83
	SCOP			4.05	4.15	4.15	4.2	4.2	4.21	4.17	4.17
	ηsc		%	251.4	268.2	267	267	258.6	258.6	230.2	230.2
	ηsh		%	159	163	163	165	165	165.4	163.8	163.8
Performance	Air flow (H)		m^3/h	30500	34000	34000	34000	35000	36000	36000	36000
	Sound pressure level (H)		dB(A)	64	64	64	64	64	64	65	65
	Sound power level (H)		dB(A)	91	91	91	91	92	93	93	93
Installation	Dimension(W*H*D)		mm	980/1690/750+1410/1690/750	1410/1690/750+1410/1690/750						
	Packing (W*H*D)		mm	1070/1858/850+1515/1858/850	1515/1858/850+1515/1858/850						
	Net weight		kg	531	574	657	740	740	740	740	740
	Gross weight		kg	587	634	717	800	800	800	800	800
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC						
	Compressor type			DC INV. SCROLL	DC INV. SCROLL						
	Compressor quantity			2INV	2INV	3INV	4INV	4INV	4INV	4INV	4INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charged volume*3		kg	20	20	20	20	20	20	20	20
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/ actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum indoor units		Piece	56	59	63	64	64	64	64	64
Working Temp.	Cooling		℃	-5~50	-5~50						
	Heating		℃	-23~21	-23~21						

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4

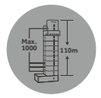
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB;Outdoor temp 35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08IMVEVA
AV10IMVEVA
AV12IMVEVA
AV14IMVEVA
AV16IMVEVA

AV18IMVEVA
AV20IMVEVA
AV22IMVEVA
AV24IMVEVA
AV26IMVEVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

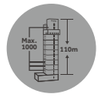
Model				AV50IMVEVA	AV52IMVEVA	AV54IMVEVA	AV56IMVEVA	AV58IMVEVA	AV60IMVEVA	AV62IMVEVA	AV64IMVEVA
	Combination model			AV24IMVEVA	AV26IMVEVA	AV18IMVEVA	AV18IMVEVA	AV18IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA
				AV26IMVEVA	AV26IMVEVA	AV18IMVEVA	AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA
				/	/	AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV20IMVEVA
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	50	52	54	56	58	60	62	64
	Cooling		kW	141.5	147	151.2	156.8	162.4	168	173.5	179
	Heating		kW	141.5	147	151.2	156.8	162.4	168	173.5	179
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	49.89	54.44	46.81	47.82	48.84	49.85	53.39	56.94
		Max. power input	kW	66.90	75.60	64.20	67.90	71.60	75.30	78.70	82.10
		Rated current	A	84.23	91.91	79.03	80.74	82.45	84.16	90.17	96.17
		Max. current	A	111.04	123.82	108.38	114.63	120.88	127.12	132.86	138.60
	Heating	Rated power input	kW	45.68	52.50	39.58	41.05	42.51	43.98	47.96	51.94
		Max. power input	kW	56.90	60.80	53.10	58.10	63.10	68.10	70.90	73.70
		Rated current	A	78.48	91.36	66.82	69.30	71.77	74.25	80.99	87.73
		Max. current	A	96.06	102.64	89.64	98.08	106.53	114.97	119.69	124.42
	EER			2.84	2.70	3.23	3.28	3.33	3.37	3.25	3.14
	COP			3.10	2.80	3.82	3.82	3.82	3.82	3.62	3.45
	SEER			4.9	4.9	6.78	6.75	6.75	6.75	6.54	6.54
	SCOP			3.5	3.5	4.15	4.15	4.15	4.2	4.2	4.2
	ηsc		%	193	193	268.2	267	267	267	258.6	258.6
	ηsh		%	137	137	163	163	163	165	165	165
Performance	Air flow (H)		m^3/h	37000	38000	51000	51000	51000	51000	52000	53000
	Sound pressure level (H)		dB(A)	65	65	66	66	66	66	66	66
	Sound power level (H)		dB(A)	93	93	93	93	93	94	94	94
Installation	Dimension(W*H*D)		mm	1410/1690/750+1410/1690/750		1410/1690/750+1410/1690/750+1410/1690/750					
	Packing (W*H*D)		mm	1515/1858/850+1515/1858/850		1515/1858/850+1515/1858/850+1515/1858/850					
	Net weight		kg	740	740	861	944	1027	1110	1110	1110
	Gross weight		kg	800	800	951	1034	1117	1200	1200	1200
	Compressor brand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC					
	Compressor type			DC INV. SCROLL		DC INV. SCROLL					
	Compressor quantity			4INV	4INV	3INV	4INV	5INV	6INV	6INV	6INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charged volume*3		kg	20	20	30	30	30	30	30	30
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	41.3	41.3	41.3	41.3
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/ actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum indoor units		Piece	64	64	64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~50		-5~50					
	Heating		℃	-23~21		-23~21					

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB;Outdoor temp 35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08IMVEVA
AV10IMVEVA
AV12IMVEVA
AV14IMVEVA
AV16IMVEVA

AV18IMVEVA
AV20IMVEVA
AV22IMVEVA
AV24IMVEVA
AV26IMVEVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

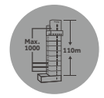
Model				AV66IMVEVA	AV68IMVEVA	AV70IMVEVA	AV72IMVEVA	AV74IMVEVA	AV76IMVEVA	AV78IMVEVA
	Combination model			AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	AV26IMVEVA
				AV22IMVEVA	AV22IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA
				AV22IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA
				/	/	/	/	/	/	/
Capacity	Capacity range		HP	66	68	70	72	74	76	78
	Cooling		kW	184.5	191	197.5	204	209.5	215	220.5
	Heating		kW	184.5	191	197.5	204	209.5	215	220.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	60.48	62.99	65.50	68.01	72.56	77.11	81.67
		Max. power input	kW	85.50	86.10	86.70	87.30	96.00	104.70	113.40
		Rated current	A	102.18	106.39	110.60	114.82	122.50	130.19	137.87
		Max. current	A	144.34	145.35	146.37	147.38	160.16	172.95	185.73
	Heating	Rated power input	kW	55.92	56.71	57.50	58.29	65.11	71.93	78.75
		Max. power input	kW	76.50	77.50	78.50	79.50	83.40	87.30	91.20
		Rated current	A	94.47	95.78	97.09	98.40	111.28	124.16	137.04
		Max. current	A	129.15	130.84	132.52	134.21	140.80	147.38	153.96
	EER			3.05	3.03	3.02	3.00	2.89	2.79	2.70
	COP			3.30	3.37	3.43	3.50	3.22	2.99	2.80
	SEER			6.54	5.83	5.83	5.83	4.9	4.9	4.9
	SCOP			4.21	4.17	4.17	4.17	3.5	3.5	3.5
	ηsc		%	258.6	230.2	230.2	230.2	193	193	193
	ηsh		%	165.4	163.8	163.8	163.8	137	137	137
Performance	Air flow (H)		m^3/h	54000	54000	54000	54000	55000	56000	57000
	Sound pressure level (H)		dB(A)	66	66	66	67	67	67	67
	Sound power level (H)		dB(A)	95	95	95	95	95	95	95
Installation	Dimension(W*H*D)		mm	1410/1690/750+1410/1690/750+1410/1690/750	1410/1690/750+1410/1690/750+1410/1690/750					
	Packing (W*H*D)		mm	1515/1858/850+1515/1858/850+1515/1858/850	1515/1858/850+1515/1858/850+1515/1858/850					
	Net weight		kg	1110	1110	1110	1110	1110	1110	1110
	Gross weight		kg	1200	1200	1200	1200	1200	1200	1200
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC					
	Compressor type			DC INV. SCROLL	DC INV. SCROLL					
	Compressor quantity			6INV	6INV	6INV	6INV	6INV	6INV	6INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charged volume*3		kg	30	30	30	30	30	30	30
	Refrigerant liquid pipe		mm	19.05	22.2	22.2	22.2	22.2	22.2	22.2
	Refrigerant gas pipe		mm	41.3	44.5	44.5	44.5	44.5	44.5	44.5
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/ actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum indoor units		Piece	64	64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~50	-5~50					
	Heating		℃	-23~21	-23~21					

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB,Outdoor temp.35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08IMVEVA
AV10IMVEVA
AV12IMVEVA
AV14IMVEVA
AV16IMVEVA

AV18IMVEVA
AV20IMVEVA
AV22IMVEVA
AV24IMVEVA
AV26IMVEVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

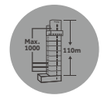
Model				AV80IMVEVA	AV82IMVEVA	AV84IMVEVA	AV86IMVEVA	AV88IMVEVA	AV90IMVEVA	AV92IMVEVA
	Combination model			AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV24IMVEVA	AV24IMVEVA
				AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV24IMVEVA
				AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA
				AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA
Capacity	Capacity range		HP	80	82	84	86	88	90	92
	Cooling		kW	224	229.5	235	240.5	246	252.5	259
	Heating		kW	224	229.5	235	240.5	246	252.5	259
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	66.47	70.01	73.55	77.10	80.64	83.15	85.66
		Max. power input	kW	100.40	103.80	107.20	110.60	114.00	114.60	115.20
		Rated current	A	112.21	118.22	124.23	130.23	136.24	140.45	144.66
		Max. current	A	169.50	175.24	180.98	186.72	192.46	193.47	194.48
	Heating	Rated power input	kW	58.64	62.62	66.60	70.58	74.56	75.35	76.14
		Max. power input	kW	90.80	93.60	96.40	99.20	102.00	103.00	104.00
		Rated current	A	98.99	105.74	112.48	119.22	125.96	127.27	128.58
		Max. current	A	153.29	158.02	162.74	167.47	172.20	173.89	175.57
	EER			3.37	3.28	3.19	3.12	3.05	3.04	3.02
	COP			3.82	3.67	3.53	3.41	3.30	3.35	3.40
	SEER			6.75	6.54	6.54	6.54	6.54	5.83	5.83
	SCOP			4.2	4.2	4.2	4.2	4.21	4.17	4.17
	ηsc		%	267	258.6	258.6	258.6	258.6	230.2	230.2
	ηsh		%	165	165	165	165	165.4	163.8	163.8
Performance	Air flow (H)		m^3/h	68000	69000	70000	71000	72000	72000	72000
	Sound pressure level (H)		dB(A)	67	67	67	67	67	67	68
	Sound power level (H)		dB(A)	94	95	95	96	96	96	96
Installation	Dimension(W*H*D)		mm	1410/1690/750+1410/1690/750+1410/1690/750+1410/1690/750	1410/1690/750+1410/1690/750+1410/1690/750+1410/1690/750					
	Packing (W*H*D)		mm	1515/1858/850+1515/1858/850+1515/1858/850+1515/1858/850	1515/1858/850+1515/1858/850+1515/1858/850+1515/1858/850					
	Net weight		kg	1480	1480	1480	1480	1480	1480	1480
	Gross weight		kg	1600	1600	1600	1600	1600	1600	1600
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC					
	Compressor type			DC INV. SCROLL	DC INV. SCROLL					
	Compressor quantity			8INV	8INV	8INV	8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charged volume*3		kg	40	40	40	40	40	40	40
	Refrigerant liquid pipe		mm	22.2	22.2	22.2	25.4	25.4	25.4	25.4
	Refrigerant gas pipe		mm	44.5	44.5	44.5	50.8	50.8	50.8	50.8
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/ actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum indoor units		Piece	64	64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~50	-5~50					
	Heating		℃	-23~21	-23~21					

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB,Outdoor temp.35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08IMVEVA
AV10IMVEVA
AV12IMVEVA
AV14IMVEVA
AV16IMVEVA

AV18IMVEVA
AV20IMVEVA
AV22IMVEVA
AV24IMVEVA
AV26IMVEVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

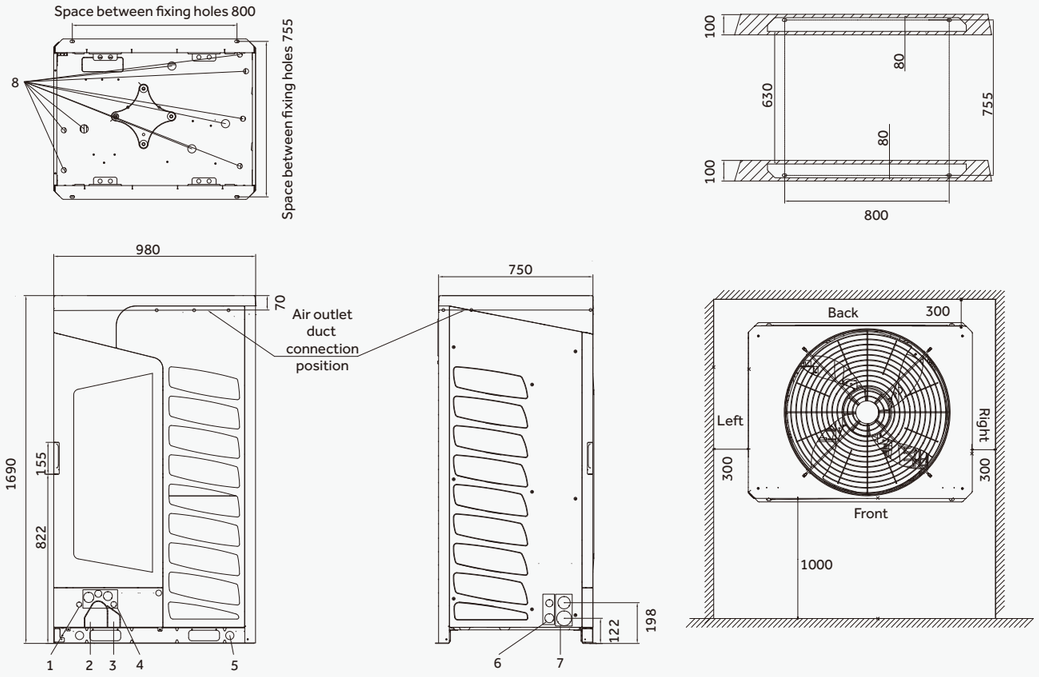
Model				AV94IMVEVA	AV96IMVEVA	AV98IMVEVA	AV100IMVEVA	AV102IMVEVA	AV104IMVEVA
	Combination model			AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	AV26IMVEVA	AV26IMVEVA
				AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	AV26IMVEVA
				AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA
				AV22IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA
Capacity	Capacity range		HP	94	96	98	100	102	104
	Cooling		kW	265.5	272	277.5	283	288.5	294
	Heating		kW	265.5	272	277.5	283	288.5	294
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	88.17	90.68	95.23	99.78	104.34	108.89
		Max. power input	kW	115.80	116.40	125.10	133.80	142.50	151.20
		Rated current	A	148.88	153.09	160.77	168.46	176.14	183.83
		Max. current	A	195.49	196.51	209.29	222.07	234.86	247.64
	Heating	Rated power input	kW	76.93	77.71	84.54	91.36	98.18	105.00
		Max. power input	kW	105.00	106.00	109.90	113.80	117.70	121.60
		Rated current	A	129.89	131.20	144.08	156.96	169.84	182.72
		Max. current	A	177.26	178.95	185.53	192.12	198.70	205.29
	EER			3.01	3.00	2.91	2.84	2.77	2.70
	COP			3.45	3.50	3.28	3.10	2.94	2.80
	SEER			5.83	5.83	4.9	4.9	4.9	4.9
	SCOP			4.17	4.17	3.5	3.5	3.5	3.5
	ηsc		%	230.2	230.2	193	193	193	193
	ηsh		%	163.8	163.8	137	137	137	137
Performance	Air flow (H)		m^3/h	72000	72000	73000	74000	75000	76000
	Sound pressure level (H)		dB(A)	68	67	67	68	68	68
	Sound power level (H)		dB(A)	96	96	96	96	96	96
Installation	Dimension(W*H*D)		mm	1410/1690/750+1410/1690/750+1410/1690/750+1410/1690/750	1410/1690/750+1410/1690/750+1410/1690/750+1410/1690/750				
	Packing (W*H*D)		mm	1515/1858/850+1515/1858/850+1515/1858/850+1515/1858/850	1515/1858/850+1515/1858/850+1515/1858/850+1515/1858/850				
	Net weight		kg	1480	1480	1480	1480	1480	1480
	Gross weight		kg	1600	1600	1600	1600	1600	1600
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC				
	Compressor type			DC INV. SCROLL	DC INV. SCROLL				
	Compressor quantity			8INV	8INV	8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charged volume*3		kg	40	40	40	40	40	40
	Refrigerant liquid pipe		mm	25.4	25.4	25.4	25.4	25.4	25.4
	Refrigerant gas pipe		mm	50.8	50.8	54.1	54.1	54.1	54.1
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/ Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum indoor units		Piece	64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~50	-5~50				
	Heating		℃	-23~21	-23~21				

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB,Outdoor temp.35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

Dimensions

AV08IMVEVA AV10IMVEVA AV12IMVEVA AV14IMVEVA AV16IMVEVA

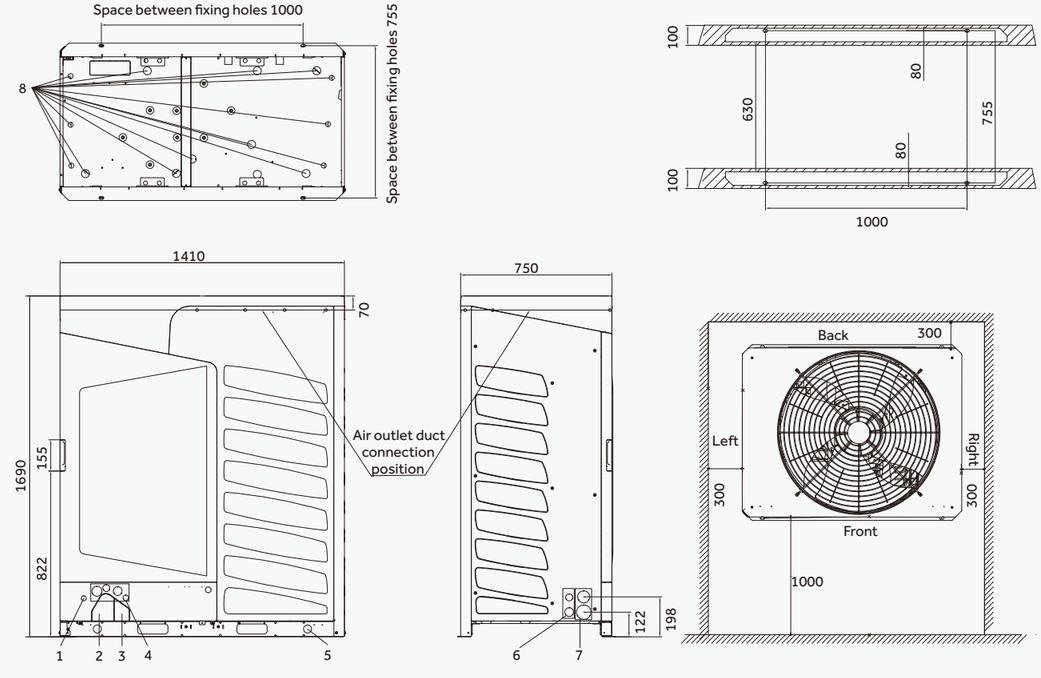
Unit:mm



No.	Name	Remark
1	Signal line hole Ø25	Using the rubber plug in the unit's attachment for protection
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection
5	Hoisting hole	
6	Power supply of signal line hole	
7	Refrigerant pipe outlet	
8	Drain hole	

AV18IMVEVA AV20IMVEVA AV22IMVEVA AV24IMVEVA AV26IMVEVA

Unit:mm



No.	Name	Remark
1	Signal line hole Ø25	Using the rubber plug in the unit's attachment for protection
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection
5	Hoisting hole	
6	Power supply of signal line hole	
7	Refrigerant pipe outlet	
8	Drain hole	

MRV5-H DC INVERTER

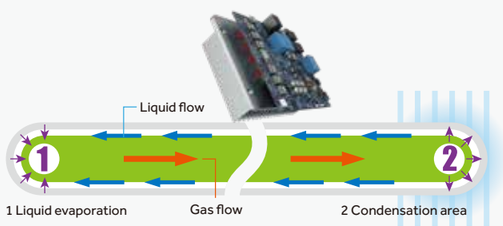
037 Features & Benefits

041 MRV 5-H Outdoor

High Efficiency

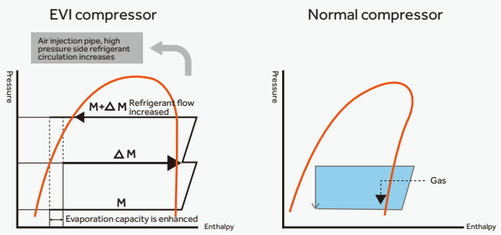
Super conducting refrigerant cooling technology

Adopt innovative super heat conduction cooling PCB technology, heat transfer media conduct heat 100 times better than copper. Does not occupy the refrigerant amount of the system, no additional refrigerant loss. At the same time, this cooling mode will not affect the rotation of the electric control box, easy maintain.



EVI compressor

Standard with EVI compressor, increase the refrigerant circulation by 15%, strong output.



High Efficiency

2 stage sub-cooling

Sub-cooling degree is up to 30°C, improve the cooling and heating capacity.

Speed-less DC fan motor

Standard with speed-less DC fan motor, compared with normal type, the motor efficiency is increased by 17%.

Super Comfort

Continuous heating technology

Intelligent defrosting technology, realizing continuous heating.

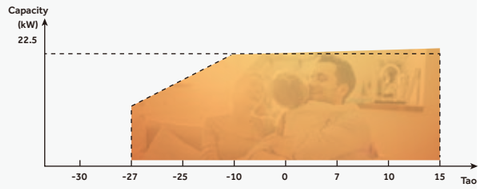
Super Comfort

Wide operation Temp.

Cooling: -5°C~52°C Heating: -27°C~21°C

Reliable performance in low temperature

In the low temperature, compared with the standard series, the heating capacity increased by 10%.
The heating capacity is 100% under -10°C.



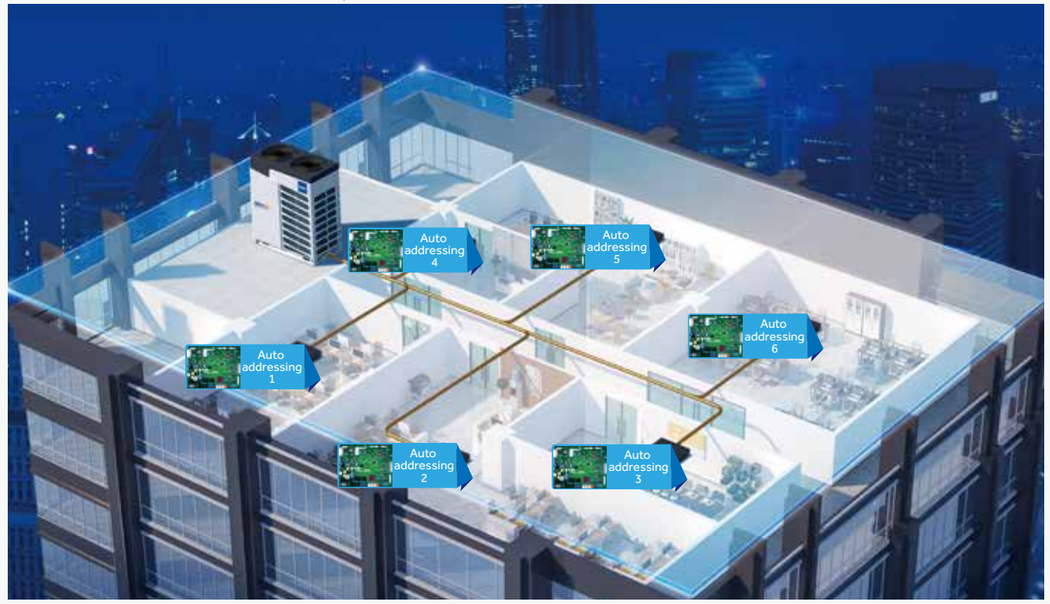
Precise temperature control at ±0.5°C

With twin pressure sensors and twin EEVS, the refrigerant volume can be adjusted automatically to realize precise temperature control, improving indoor comfort.

Super Convenience

Auto addressing indoor units

The ODU can automatically address to the indoor unit through the module on PCB, and the controller can search and set the address of the indoor unit, more convenient.



Rotary electric control box design

Rotary electric control box design, while maintaining the internal space, maintainer only need to rotate the box, do not need to dismantle the box, easy and fast maintenance.

4-way pipe connection

You can freely choose the front, back, left side, right side of the unit to connect the pipe, easy to install and design.

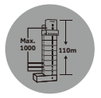
Long pipe length, high height drop

Total pipe length 1000m;
Drop length 110m.

AV08NMVETA
AV10NMVETA
AV12NMVETA
AV14NMVETA
AV16NMVETA

AV18NMVETA
AV20NMVETA
AV22NMVETA
AV24NMVETA
AV26NMVETA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Single Module 26HP, Maximum Combination 104HP

Intelligent Defrosting Technology

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Model				AV08NMVETA	AV10NMVETA	AV12NMVETA	AV14NMVETA	AV16NMVETA	AV18NMVETA	AV20NMVETA	AV22NMVETA	AV24NMVETA	AV26NMVETA
	Combination model			/	/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	8	10	12	14	16	18	20	22	24	26
	Cooling		kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.5
	Heating		kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	6.24	7.37	10.15	11.76	13.24	15.60	16.62	20.16	22.67	27.22
		Max. power input	kW	14.3	15.1	16.32	17.58	20.69	25.9	28.91	31.82	32.81	37.8
		Rated current	A	10.53	12.44	17.14	19.86	22.34	26.34	28.05	34.04	38.27	45.96
		Max. current	A	23.81	25.14	27.17	29.27	34.50	40.30	46.30	51.91	54.12	61.91
	Heating	Rated power input	kW	5.25	5.96	8.59	10.00	10.47	13.19	14.66	18.64	19.43	22.97
		Max. power input	kW	11.69	12.19	12.69	16.10	19.56	21.93	24.70	25.69	30.40	32.45
		Rated current	A	8.86	10.06	14.50	16.88	17.67	22.27	24.75	31.46	32.80	38.78
		Max. current	A	19.47	20.30	21.13	26.81	32.57	36.51	41.13	42.78	50.62	54.03
	SEER			7.25	7.09	6.69	6.6	6.36	6.78	6.75	6.54	5.83	5.15
	SCOP			4.41	4.31	4.31	4.12	4.05	4.15	4.2	4.21	4.17	3.5
	ηsc		%	287	281	265	261	251	268	267	259	230	203
	ηsh		%	173	169	169	162	159	163	165	165	164	137
Performance	Air flow (H)		m^3/h	11000	11000	12000	13500	13500	17000	17000	18000	18000	19000
	Sound power level (H)		dB(A)	81	82	88	88	88	88	88	88	90	90
Installation	External dimensions(W/D/H)		mm	980/750/1690	980/750/1690	980/750/1690	980/750/1690	980/750/1690	1410/750/1690	1410/750/1690	1410/750/1690	1410/750/1690	1410/750/1690
	Shipping dimensions(W/D/H)		mm	1070/850/1858	1070/850/1858	1070/850/1858	1070/850/1858	1070/850/1858	1515/850/1858	1515/850/1858	1515/850/1858	1515/850/1858	1515/850/1858
	Net/Shipping weight		kg	255/280	255/280	255/280	255/280	255/280	385/410	385/410	385/410	385/410	385/410
	Compressor type			DC INV. SCROLL		DC INV. SCROLL							
	Compressor brand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC							
	Compressor quantity			1INV	1INV	1INV	1INV	1INV	2INV	2INV	2INV	2INV	2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge (follow specification)		kg	10	10	10	10	10	10	10	10	10	10
	Refrigerant liquid pipe (follow specification)		mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88
	Refrigerant gas pipe(follow specification)		mm	19.05	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58	28.58
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			13	16	20	24	27	30	33	36	40	43
Working Temp.	Cooling		°C	-5~52		-5~52							
	Heating		°C	-27~21		-27~21							

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4

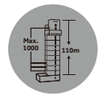
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.

* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor temp 35°C DB/24WB;in heating, indoor temp.is 20°C DB,in heating, outdoor temp.is 7°C DB/6°CWB)

AV08NMVETA
AV10NMVETA
AV12NMVETA
AV14NMVETA
AV16NMVETA

AV18NMVETA
AV20NMVETA
AV22NMVETA
AV24NMVETA
AV26NMVETA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Single Module 26HP, Maximum Combination 104HP

Intelligent Defrosting Technology

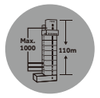
Model				AV28NMVETA	AV30NMVETA	AV32NMVETA	AV34NMVETA	AV36NMVETA	AV38NMVETA
	Combination model			AV14NMVETA	AV14NMVETA	AV16NMVETA	AV16NMVETA	AV18NMVETA	AV18NMVETA
				AV14NMVETA	AV16NMVETA	AV16NMVETA	AV18NMVETA	AV18NMVETA	AV20NMVETA
				/	/	/	/	/	/
				/	/	/	/	/	/
Capacity	Capacity range		HP	28	30	32	34	36	38
	Cooling		kW	80.0	85.0	90.0	95.4	100.8	106.4
	Heating		kW	80.0	85.0	90.0	95.4	100.8	106.4
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	23.53	25.00	26.47	28.84	31.21	32.22
		Max. power input	kW	35.16	38.27	41.38	46.59	51.8	54.81
		Rated current	A	39.72	42.21	44.69	48.69	52.68	54.40
		Max. current	A	58.54	63.77	69.00	74.80	80.60	86.60
	Heating	Rated power input	kW	20.00	20.47	20.93	23.66	26.39	27.85
		Max. power input	kW	32.20	35.66	39.12	41.49	43.86	46.63
		Rated current	A	33.76	34.55	35.33	39.94	44.55	47.02
		Max. current	A	53.61	59.38	65.14	69.08	73.03	77.64
	SEER			6.6	6.36	6.36	6.36	6.78	6.75
	SCOP			4.12	4.05	4.05	4.05	4.15	4.15
	ηsc		%	261	251	251	251	268	267
	ηsh		%	162	159	159	159	163	163
Performance	Air flow (H)		m^3/h	27000	27000	27000	30500	34000	34000
	Sound power level (H)		dB(A)	91	91	91	91	91	91
Installation	External dimensions(W/D/H)		mm	980/750/1690+980/750/1690	980/750/1690+980/750/1690		980/750/1690+1410/750/1690	1410/750/1690+1410/750/1690	
	Shipping dimensions(W/D/H)		mm	1070/850/1858+1070/850/1858	1070/850/1858+1070/850/1858		1070/850/1858+1485/850/1858	1485/850/1858+1485/850/1858	
	Net/Shipping weight		kg	255/280+255/280	255/280+255/280	255/280+255/280	255/280+385/410	385/410+385/410	
	Compressor type			DC INV. SCROLL	DC INV. SCROLL				
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC				
	Compressor quantity			2INV	2INV	2INV	3INV	4INV	4INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge (follow specification)		kg	20	20	20	20	20	20
	Refrigerant liquid pipe (follow specification)		mm	15.88	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe(follow specification)		mm	28.58	31.8	31.8	31.8	38.1	38.1
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			47	50	53	56	59	63
Working Temp.	Cooling		℃	-5~52	-5~52				
	Heating		℃	-27~21	-27~21				

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB;Outdoor temp 35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08NMVETA
AV10NMVETA
AV12NMVETA
AV14NMVETA
AV16NMVETA

AV18NMVETA
AV20NMVETA
AV22NMVETA
AV24NMVETA
AV26NMVETA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

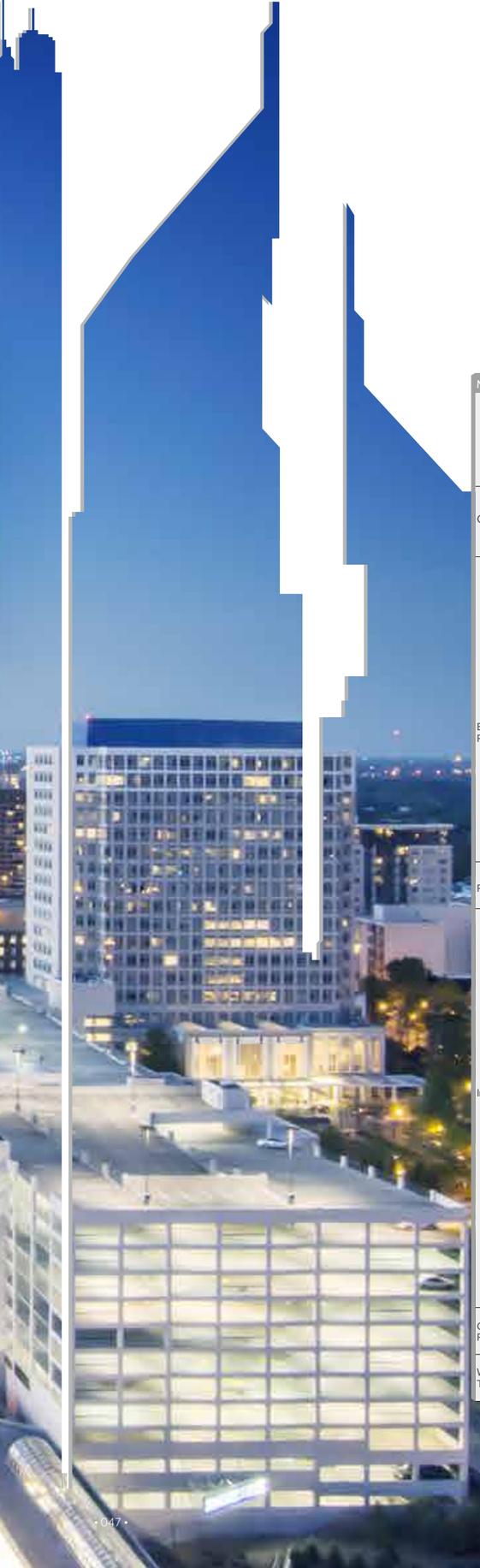
EVI Compressors

Single Module 26HP, Maximum Combination 104HP

Intelligent Defrosting Technology

Model				AV40NMVETA	AV42NMVETA	AV44NMVETA	AV46NMVETA	AV48NMVETA	AV50NMVETA	AV52NMVETA	AV54NMVETA	AV56NMVETA
	Combination model			AV20NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV18NMVETA	AV18NMVETA
				AV20NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA	AV18NMVETA	AV18NMVETA
				/	/	/	/	/	/	/	AV18NMVETA	AV20NMVETA
				/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	40	42	44	46	48	50	52	54	56
	Cooling		kW	112.0	117.5	123.0	129.5	136.0	141.5	147.0	151.2	156.8
	Heating		kW	112.0	117.5	123.0	129.5	136.0	141.5	147.0	151.2	156.8
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	33.23	36.78	40.33	42.83	45.33	49.89	54.44	46.81	47.82
		Max. power input	kW	57.82	60.73	63.64	64.63	65.62	70.61	75.6	77.7	80.71
		Rated current	A	56.11	62.09	68.08	72.31	76.53	84.22	91.91	79.03	80.74
		Max. current	A	92.60	98.21	103.82	106.03	108.24	116.03	123.82	120.90	126.90
	Heating	Rated power input	kW	29.32	33.30	37.27	38.06	38.86	42.40	45.94	39.58	41.05
		Max. power input	kW	49.40	50.39	51.38	56.09	60.80	62.85	64.90	65.79	68.56
		Rated current	A	49.50	56.21	62.92	64.26	65.60	71.58	77.55	66.82	69.30
		Max. current	A	82.25	83.90	85.55	93.39	101.23	104.65	108.06	109.54	114.15
	SEER			6.75	6.54	6.54	5.83	5.83	5.15	5.15	6.78	6.75
	SCOP			4.2	4.2	4.21	4.17	4.17	3.5	3.5	4.15	4.15
	ηsc		%	267	259	259	230	230	203	203	268	267
	ηsh		%	165	165	165	164	164	137	137	163	163
Performance	Air flow (H)		m^3/h	34000	35000	36000	36000	36000	37000	38000	51000	51000
	Sound power level (H)		dB(A)	91	91	91	92	93	93	93	93	93
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690					1410/750/1690+1410/750/1690+1410/750/1690	
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858		1485/850/1858+1485/850/1858					1485/850/1858+1485/850/1858+1485/850/1858	
	Net/Shipping weight		kg	385/410+385/410		385/410+385/410					385/410+385/410+385/410	
	Compressor type			DC INV. SCROLL		DC INV. SCROLL						
	Compressor brand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC						
	Compressor quantity			4INV	4INV	4INV	4INV	4INV	4INV	4INV	6INV	6INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge (follow specification)		kg	20	20	20	20	20	20	20	30	30
	Refrigerant liquid pipe (follow specification)		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe(follow specification)		mm	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(equivalent/actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~52		-5~52						
	Heating		℃	-27~21		-27~21						

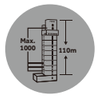
Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor temp 35°C DB/24WB;in heating, indoor temp.is 20°C DB,in heating, outdoor temp.is 7°C DB/6°CWB)



AV08NMVETA
AV10NMVETA
AV12NMVETA
AV14NMVETA
AV16NMVETA

AV18NMVETA
AV20NMVETA
AV22NMVETA
AV24NMVETA
AV26NMVETA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Single Module 26HP, Maximum Combination 104HP

Intelligent Defrosting Technology

Model				AV58NMVETA	AV60NMVETA	AV62NMVETA	AV64NMVETA	AV66NMVETA	AV68NMVETA	AV70NMVETA	AV72NMVETA	AV74NMVETA
	Combination model			AV18NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV26NMVETA
				AV20NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA
				AV20NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA
				/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	58	60	62	64	66	68	70	72	74
	Cooling		kW	162.4	168.0	173.5	179.0	184.5	191.0	197.5	204.0	209.5
	Heating		kW	162.4	168.0	173.5	179.0	184.5	191.0	197.5	204.0	209.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	48.84	49.85	53.40	56.95	60.49	62.99	65.50	68.00	72.56
		Max. power input	kW	83.72	86.73	89.64	92.55	95.46	96.45	97.44	98.43	103.42
		Rated current	A	82.45	84.16	90.15	96.14	102.12	106.35	110.57	114.80	122.49
		Max. current	A	132.90	138.90	144.51	150.12	155.73	157.94	160.15	162.36	170.15
	Heating	Rated power input	kW	42.51	43.98	47.96	51.93	55.91	56.70	57.49	58.29	61.83
		Max. power input	kW	71.33	74.10	75.09	76.08	77.08	81.78	86.49	91.20	93.25
		Rated current	A	71.77	74.25	80.96	87.67	94.39	95.72	97.06	98.40	104.37
		Max. current	A	118.76	123.38	125.03	126.68	128.33	136.17	144.01	151.85	155.26
	SEER			6.75	6.75	6.54	6.54	6.54	5.83	5.83	5.83	5.15
	SCOP			4.15	4.2	4.2	4.2	4.21	4.17	4.17	4.17	3.5
	ηsc		%	267	267	259	259	259	230	230	230	203
	ηsh		%	163	165	165	165	165	164	164	164	137
Performance	Air flow (H)		m^3/h	51000	51000	52000	53000	54000	54000	54000	54000	55000
	Sound power level (H)		dB(A)	93	93	93	93	93	94	94	95	95
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690+1410/750/1690						
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858		1485/850/1858+1485/850/1858+1485/850/1858						
	Net/Shipping weight		kg	385/410+385/410+385/410		385/410+385/410+385/410						
	Compressor type			DC INV. SCROLL		DC INV. SCROLL						
	Compressor brand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC						
	Compressor quantity			6INV	6INV	6INV	6INV	6INV	6INV	6INV	6INV	6INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge (follow specification)		kg	30	30	30	30	30	30	30	30	30
	Refrigerant liquid pipe (follow specification)		mm	19.05	19.05	19.05	19.05	19.05	22.2	22.2	22.2	22.2
	Refrigerant gas pipe(follow specification)		mm	41.3	41.3	41.3	41.3	41.3	44.5	44.5	44.5	44.5
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~52		-5~52						
	Heating		℃	-27~21		-27~21						

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4

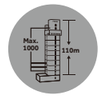
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB,Outdoor temp 35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08NMVETA
AV10NMVETA
AV12NMVETA
AV14NMVETA
AV16NMVETA

AV18NMVETA
AV20NMVETA
AV22NMVETA
AV24NMVETA
AV26NMVETA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Single Module 26HP, Maximum Combination 104HP

Intelligent Defrosting Technology

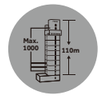
Model				AV76NMVETA	AV78NMVETA	AV80NMVETA	AV82NMVETA	AV84NMVETA	AV86NMVETA	AV88NMVETA	AV90NMVETA	AV92NMVETA
	Combination model			AV26NMVETA	AV26NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA
				AV26NMVETA	AV26NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA
				AV24NMVETA	AV26NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA
				/	/	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA
Capacity	Capacity range		HP	76	78	80	82	84	86	88	90	92
	Cooling		kW	215.0	220.5	224.0	229.5	235.0	240.5	246.0	252.5	259.0
	Heating		kW	215.0	220.5	224.0	229.5	235.0	240.5	246.0	252.5	259.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	77.11	81.67	66.47	70.02	73.56	77.11	80.66	83.16	85.66
		Max. power input	kW	108.41	113.4	115.64	118.55	121.46	124.37	127.28	128.27	129.26
		Rated current	A	130.18	137.87	112.21	118.20	124.19	130.18	136.16	140.39	144.61
		Max. current	A	177.94	185.73	185.20	190.81	196.42	202.03	207.64	209.85	212.06
	Heating	Rated power input	kW	65.37	68.91	58.64	62.62	66.59	70.57	74.55	75.34	76.13
		Max. power input	kW	95.30	97.35	98.80	99.79	100.78	101.78	102.77	107.48	112.18
		Rated current	A	110.35	116.33	98.99	105.71	112.42	119.13	125.85	127.19	128.52
		Max. current	A	158.67	162.09	164.50	166.15	167.81	169.46	171.11	178.95	186.79
	SEER			5.15	5.15	6.75	6.54	6.54	6.54	6.54	5.83	5.83
	SCOP			3.5	3.5	4.2	4.2	4.2	4.2	4.21	4.17	4.17
	ηsc		%	203	203	267	259	259	259	259	230	230
	ηsh		%	137	137	165	165	165	165	165	164	164
Performance	Air flow (H)		m^3/h	56000	57000	68000	69000	70000	71000	72000	72000	72000
	Sound power level (H)		dB(A)	95	95	94	94	94	94	94	95	95
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690						
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858		1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858						
	Net/Shipping weight		kg	385/410+385/410+385/410		385/410+385/410+385/410+385/410						
	Compressor type			DC INV. SCROLL		DC INV. SCROLL						
	Compressor brand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC						
	Compressor quantity			6INV	6INV	8INV	8INV	8INV	8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge (follow specification)		kg	30	30	40	40	40	40	40	40	40
	Refrigerant liquid pipe (follow specification)		mm	22.2	22.2	22.2	22.2	22.2	25.4	25.4	25.4	25.4
	Refrigerant gas pipe(follow specification)		mm	44.5	44.5	44.5	44.5	44.5	50.8	50.8	50.8	50.8
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~52		-5~52						
	Heating		℃	-27~21		-27~21						

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB,Outdoor Temp.35℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

AV08NMVETA
AV10NMVETA
AV12NMVETA
AV14NMVETA
AV16NMVETA

AV18NMVETA
AV20NMVETA
AV22NMVETA
AV24NMVETA
AV26NMVETA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Single Module 26HP, Maximum Combination 104HP

Intelligent Defrosting Technology

Model				AV94NMVETA	AV96NMVETA	AV98NMVETA	AV100NMVETA	AV102NMVETA	AV104NMVETA
	Combination model			AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA	AV26NMVETA	AV26NMVETA
				AV24NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA	AV26NMVETA
				AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA
				AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA
Capacity	Capacity range		HP	94	96	98	100	102	104
	Cooling		kW	265.5	272.0	277.5	283.0	288.5	294.0
	Heating		kW	265.5	272.0	277.5	283.0	288.5	294.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	88.16	90.67	95.22	99.78	104.33	108.89
		Max. power input	kW	130.25	131.24	136.23	141.22	146.21	151.2
		Rated current	A	148.84	153.06	160.75	168.45	176.14	183.83
		Max. current	A	214.27	216.48	224.27	232.06	239.85	247.64
	Heating	Rated power input	kW	76.92	77.71	81.25	84.79	88.33	91.88
		Max. power input	kW	116.89	121.60	123.65	125.70	127.75	129.80
		Rated current	A	129.86	131.20	137.17	143.15	149.13	155.10
		Max. current	A	194.63	202.46	205.88	209.29	212.70	216.12
	SEER			5.83	5.83	5.15	5.15	5.15	5.15
	SCOP			4.17	4.17	3.5	3.5	3.5	3.5
	ηsc		%	230	230	203	203	203	203
	ηsh		%	164	164	137	137	137	137
Performance	Air flow (H)		m^3/h	72000	72000	73000	74000	75000	76000
	Sound power level (H)		dB(A)	96	94	95	95	96	96
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858				
	Net/Shipping weight		kg	385/410+385/410+385/410+385/410	385/410+385/410+385/410+385/410				
	Compressor type			DC INV. SCROLL	DC INV. SCROLL				
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC				
	Compressor quantity			8INV	8INV	8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge (follow specification)		kg	40	40	40	40	40	40
	Refrigerant liquid pipe (follow specification)		mm	25.4	25.4	25.4	25.4	25.4	25.4
	Refrigerant gas pipe(follow specification)		mm	50.8	50.8	54.1	54.1	54.1	54.1
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~52	-5~52				
	Heating		℃	-27~21	-27~21				

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor temp 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

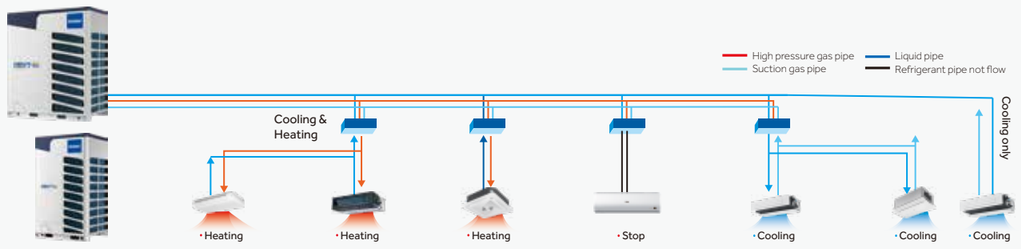
MRV5-RC DC INVERTER

055 Features & Benefits

058 MRV 5-RC Outdoor

System Introduction

Variable operation mode in one system



What is heat recovery VRF unit?

For the heat pump series, the units within one system can only work in the same mode. Now Haier heat recovery series, due to heat recovery pipeline design of outdoor unit and the new valve box, can achieve cooling and heating simultaneously in one system. In addition, multiple indoor unit types are provide to meet various project demands.

2-pipe system

Cooling and heating in two systems

3-pipe system

Cooling and heating in one system

Advanced Technology

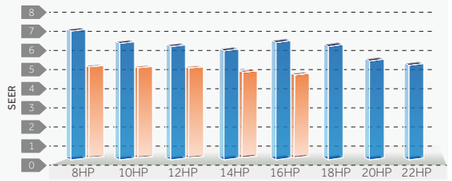
What is heat recover VRF unit?

With large capacity full DC inverter compressor, MRV 5-RC can reach single module 22HP, maximum combination 88HP.

High Efficiency

Full DC inverter technology

New generation heat recovery MRV, continue the excellent feature of MRV 5. Full DC inverter compressor, speedless inverter DC motor, large diameter fan of 700mm, new 4-way heat exchanger. SEER up to 7.05(8HP), more efficiency. Single module up to 22HP, saving the installation space.



Two stage cooling technology

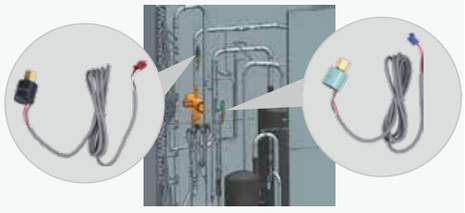
Two stage cooling of the MRV 5-RC, the subcooling degree is up to 30 °C, which greatly improves the cooling and heating capacity of the system, reduces the pressure loss of the refrigerant of the system, improve the system capability and the long piping capability.

Condenser cooling

Plate heat exchanger cooling

Twin pressure sensors

High pressure sensor used to real-time monitor the high pressure change. Protecting MRV 5-RC against the impact of high pressure momentary changes. Low pressure sensor used to real-time feedback compressor suction pressure, so our unit rapidly respond the change of room load.



High Efficiency

Three layers fin and new four-way heat exchanger

New three layers fin and four way heat exchanger, increase the heat exchange area, realize big capacity.

Easy Installation

VP (valve pipe) box structure overview

Overview

•Specially designed for MRV 5-RC, volume is small to 0.02m³ (for VP1 box), 0.05m³ (for VP4 box). Greatly reduced the installation space.

•Individual valve and pipe box for heat recovery.

•The valve box can be connected in series, reduce the use of diverging pipes and reduce the installation cost.

Model name	Max.capacity of indoor(kw)	Power supply	Max. indoor units	Dimension
VP1-112C	x≤11.2	1/220-240/50/60	5	388×200×277
VP1-180C	11.2<x≤18	1/220-240/50/60	8	388×200×277
VP1-280C	18<x≤28	1/220-240/50/60	8	388×200×277
VP4-450C	≤ 45	1/220-240/50/60	20	396x290x411

Auto addressing indoor units and oil balancing

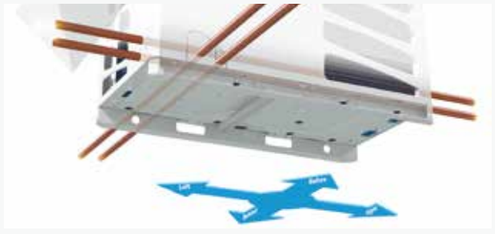
Continue auto addressing indoor units and oil balancing of MRV 5-RC, improving the easy installation of system, greatly reduce the lab.

Door-type electric control box

Door-type design, the maintenance panel could be opened like a door, no need to remove the panel, more convenience.

Four-way pipe connection

4-way (front, back, left & right) pipe connection, according to the actual installation conditions to choice pipe connection flexible.



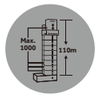
Model				AV08IMVURA	AV10IMVURA	AV12IMVURA	AV14IMVURA
	Combination model			/	/	/	/
				/	/	/	/
				/	/	/	/
				/	/	/	/
Capacity	Capacity range		HP	8	10	12	14
	Cooling		kW	22.4	28	33.5	40
	Heating		kW	22.4	28	33.5	40
Electrical Parameters	Power supply		Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	5.83	7.67	9.94	12.31
		Max power input	kW	12.80	13.80	18.20	19.20
		Rated current	A	9.63	12.67	16.43	20.33
		Max current	A	21.14	22.79	30.06	31.71
	Heating	Rated power input	kW	5.38	6.67	8.77	10.53
		Max power input	kW	11.50	12.50	17.40	18.40
		Rated current	A	8.88	11.01	14.48	17.38
		Max current	A	18.99	20.64	28.74	30.39
	SEER			6.12	6.68	6.46	6.37
	SCOP			3.82	3.94	3.99	3.86
	ηs.c		%	242	264	255	252
	ηs.h		%	150	155	157	151
Performance	Air flow (H)		m³/h	12000	12000	13500	13500
	Sound pressure level (H)		dB(A)	57	58	60	61
Installation	External dimensions(W/D/H)		mm	980/750/1690			
	Shipping dimensions(W/D/H)		mm	1070/850/1858			
	Net/Shipping weight		kg	246/271		257/282	
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1INV	1INV	1INV	1INV
	Refrigerant type			R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	10
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7
	Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4
	Refrigerant high gas pipe		mm	19.05	19.05	22.22	22.22
	Max.total pipe lenth		m	1000	1000	1000	1000
	Max. pipe length (equivalent/actual)		m	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18
	External static pressure		Pa	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50-130	50-130	50-130	50-130
	Maximum number of indoor units			13	16	20	24
Working Temp.	Cooling		℃	-5-50			
	Heating		℃	-23-21			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA

AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Full DC Inverter Compressors

Single Module 22HP, Maximum Combination 88HP

Automatic Oil Balancing

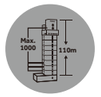
Model				AV16IMVURA	AV18IMVURA	AV20IMVURA	AV22IMVURA	AV24IMVURA	AV26IMVURA	AV28IMVURA	AV30IMVURA
	Combination model			/	/	/	/	AV12IMVURA	AV12IMVURA	AV14IMVURA	AV14IMVURA
				/	/	/	/	AV12IMVURA	AV14IMVURA	AV14IMVURA	AV16IMVURA
				/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	16	18	20	22	24	26	28	30
	Cooling		kW	45	50	56	60	67.0	73.5	80.0	85.0
	Heating		kW	45	50	56	60	67.0	73.5	80.0	85.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	13.93	16.13	18.67	20.00	19.88	22.25	24.62	26.24
		Max power input	kW	25.10	28.50	32.00	33.00	36.400	37.40	38.40	44.30
		Rated current	A	23.01	26.64	30.83	33.03	32.83	36.74	40.65	43.33
		Max current	A	41.45	47.07	52.85	54.50	60.11	61.77	63.42	73.16
	Heating	Rated power input	kW	11.39	13.70	15.77	17.91	17.54	19.30	21.05	21.92
		Max power input	kW	22.70	25.50	29.40	30.40	34.800	35.80	36.80	41.10
		Rated current	A	18.81	22.62	26.05	29.58	28.97	31.87	34.77	36.20
		Max current	A	37.49	42.11	48.55	50.21	57.472	59.12	60.78	67.88
	SEER			6.86	6.48	4.73	5.63	6.46	6.37	6.37	6.37
	SCOP			4.21	3.99	3.91	3.50	3.99	3.86	3.86	3.86
	ηs.c		%	271	256	233	222	255	252	252	252
	ηs.h		%	165	157	154	137	157	151	151	151
Performance	Air flow (H)		m³/h	17000	17000	19000	19000	27000	27000	27000	30500
	Sound pressure level (H)		dB(A)	62	63	63	64	63	63.5	64	64.5
Installation	External dimensions(W/D/H)		mm	1410/750/1690		1410/750/1690		980/750/1690+980/750/1690			980/750/1690+1410/750/1690
	Shipping dimensions(W/D/H)		mm	1485/850/1858		1485/850/1858		1070/850/1858+1070/850/1858			1070/850/1858+1485/850/1858
	Net/Shipping weight		kg	366/395		375/404		246/271+246/271			246/271+366/395
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			2INV	2INV	2INV	2INV	2INV	2INV	2INV	3INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	10	20	20	20	20
	Refrigerant liquid pipe		mm	12.7	15.88	15.88	15.88	15.88	15.88	15.88	19.05
	Refrigerant gas pipe		mm	28.58	28.58	28.58	28.58	28.58	28.58	28.58	31.8
	Refrigerant high gas pipe		mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4	28.58
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (equivalent/actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			27	30	33	36	40	43	47	50
Working Temp.	Cooling		°C	-5~50				-5~50			
	Heating		°C	-23~21				-23~21			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA

AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Full DC Inverter Compressors

Single Module 22HP, Maximum Combination 88HP

Automatic Oil Balancing

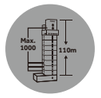
Model				AV32IMVURA	AV34IMVURA	AV36IMVURA	AV38IMVURA	AV40IMVURA	AV42IMVURA	AV44IMVURA	AV46IMVURA
	Combination model			AV16IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	AV22IMVURA	AV14IMVURA
				AV16IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	AV22IMVURA	AV22IMVURA	AV16IMVURA
				/	/	/	/	/	/	/	AV16IMVURA
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	32	34	36	38	40	42	44	46
	Cooling		kW	90.0	95.0	100.0	106.0	112.0	116.0	120.0	130.0
	Heating		kW	90.0	95.0	100.0	106.0	112.0	116.0	120.0	130.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	27.86	30.06	32.26	33.36	34.46	37.23	40.00	40.17
		Max power input	kW	50.20	53.60	57.00	60.50	64.00	65.00	66.00	69.40
		Rated current	A	46.02	49.65	53.27	55.09	56.91	61.49	66.06	66.34
		Max current	A	82.91	88.52	94.14	99.92	105.70	107.35	109.00	114.61
	Heating	Rated power input	kW	22.78	25.09	27.40	29.47	31.54	33.68	35.82	33.31
		Max power input	kW	45.40	48.20	51.00	54.90	58.80	59.80	60.80	63.80
		Rated current	A	37.63	41.44	45.25	48.67	52.09	55.62	59.16	55.01
		Max current	A	74.98	79.60	84.23	90.67	97.11	98.76	100.41	105.37
	SEER			6.86	6.48	6.48	5.90	5.90	5.63	5.63	6.37
	SCOP			4.21	3.99	3.99	3.93	3.93	3.50	3.50	3.86
	ηs.c		%	271	256	256	233	233	222	222	252
	ηs.h		%	165	157	157	154	154	137	137	151
Performance	Air flow (H)		m^3/h	34000	34000	34000	36000	38000	38000	38000	47500
	Sound pressure level (H)		dB(A)	65	65.5	66	66	66	66.5	67	66.5
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690			1410/750/1690+1410/750/1690				980/750/1690+1410/750/1690 +1410/750/1690
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858			1485/850/1858+1485/850/1858				1070/850/1858+1485/850/1858 +1485/850/1858
	Net/Shipping weight		kg	366/395+366/395		366/395+366/395	366/395+375/404		375/404+375/404		257/282+366/395+366/395
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			4INV	4INV	4INV	4INV	4INV	4INV	4INV	5INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	20	20	20	20	20	20	20	30
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
	Refrigerant high gas pipe		mm	28.58	28.58	34.9	34.9	34.9	34.9	34.9	34.9
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			53	56	59	63	64	64	64	64
Working Temp.	Cooling		℃	-5~50			-5~50				
	Heating		℃	-23~21			-23~21				

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA

AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Full DC Inverter Compressors

Single Module 22HP, Maximum Combination 88HP

Automatic Oil Balancing

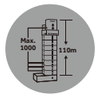
Model				AV48IMVURA	AV50IMVURA	AV52IMVURA	AV54IMVURA	AV56IMVURA	AV58IMVURA	AV60IMVURA
	Combination model			AV16IMVURA	AV16IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA
				AV16IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA
				AV16IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	AV20IMVURA
				/	/	/	/	/	/	/
Capacity	Capacity range		HP	48	50	52	54	56	58	60
	Cooling		kW	135.0	140.0	145.0	150.0	156.0	162.0	168.0
	Heating		kW	135.0	140.0	145.0	150.0	156.0	162.0	168.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	41.80	43.99	46.19	48.39	49.49	50.59	51.69
		Max power input	kW	75.30	78.70	82.10	85.50	89.00	92.50	96.00
		Rated current	A	69.03	72.65	76.28	79.91	81.73	83.55	85.37
		Max current	A	124.36	129.97	135.59	141.20	146.98	152.76	158.54
	Heating	Rated power input	kW	34.18	36.48	38.79	41.10	43.17	45.24	47.31
		Max power input	kW	68.10	70.90	73.70	76.50	80.40	84.30	88.20
		Rated current	A	56.44	60.25	64.06	67.87	71.29	74.71	78.13
		Max current	A	112.47	117.09	121.72	126.34	132.78	139.22	145.66
	SEER			6.86	6.48	6.48	6.48	5.90	5.90	5.90
	SCOP			4.21	3.99	3.99	3.99	3.93	3.93	3.93
	ηs.c		%	271	256	256	256	233	233	233
	ηs.h		%	165	157	157	157	154	154	154
Performance	Air flow (H)		m³/h	51000	51000	51000	51000	53000	55000	57000
	Sound pressure level (H)		dB(A)	67	67	67.5	68	68	68	68
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690				1410/750/1690+1410/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858				1485/850/1858+1485/850/1858+1485/850/1858		
	Net/Shipping weight		kg	366/395+366/395+366/395		366/395+366/395+366/395		366/395+366/395+375/404	366/395+375/404+375/404	375/404+375/404+375/404
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			6INV	6INV	6INV	6INV	6INV	6INV	6INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	30	30	30	30	30	30	30
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.8	31.8	31.8	31.8	31.8	41.3	41.3
	Refrigerant high gas pipe		mm	34.9	34.9	34.9	34.9	34.9	38.1	38.1
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (equivalent/actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~50			-5~50			
	Heating		°C	-23~21			-23~21			

Max. drop between I.U.&O.U. *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA

AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Full DC Inverter Compressors

Single Module 22HP, Maximum Combination 88HP

Automatic Oil Balancing

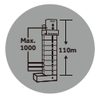
Model				AV62IMVURA	AV64IMVURA	AV66IMVURA	AV68IMVURA	AV70IMVURA	AV72IMVURA
	Combination model			AV20IMVURA	AV20IMVURA	AV22IMVURA	AV16IMVURA	AV16IMVURA	AV18IMVURA
				AV20IMVURA	AV22IMVURA	AV22IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA
				AV22IMVURA	AV22IMVURA	AV22IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA
				/	/	/	AV18IMVURA	AV18IMVURA	AV18IMVURA
Capacity	Capacity range		HP	62	64	66	68	70	72
	Cooling		kW	172.0	176.0	180.0	190.0	195.0	200.0
	Heating		kW	172.0	176.0	180.0	190.0	195.0	200.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	54.46	57.23	60.00	60.12	62.32	64.52
		Max power input	kW	97.00	98.00	99.00	107.20	110.60	114.00
		Rated current	A	89.94	94.52	99.09	99.29	102.92	106.55
		Max current	A	160.20	161.85	163.50	177.04	182.66	188.27
	Heating	Rated power input	kW	49.45	51.59	53.73	50.18	52.49	54.79
		Max power input	kW	89.20	90.20	91.20	96.40	99.20	102.00
		Rated current	A	81.67	85.20	88.74	82.88	86.68	90.49
		Max current	A	147.31	148.97	150.62	159.21	163.83	168.45
	SEER			5.63	5.63	5.63	6.48	6.48	6.48
	SCOP			3.50	3.50	3.50	3.99	3.99	3.99
	ηs.c		%	222	222	222	256	256	256
	ηs.h		%	137	137	137	157	157	157
Performance	Air flow (H)		m³/h	57000	57000	57000	68000	68000	68000
	Sound pressure level (H)		dB(A)	68	68.5	69	69	69	69
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858		1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858		
	Net/Shipping weight		kg	375/404+375/404+375/404	375/404+375/404+375/404		366/395+366/395+366/395+366/395		
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			6INV	6INV	6INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	30	30	30	40	40	40
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	22.2	22.2	22.2
	Refrigerant gas pipe		mm	41.3	41.3	41.3	44.5	44.5	44.5
	Refrigerant high gas pipe		mm	38.1	38.1	38.1	41.3	41.3	41.3
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~50			-5~50		
	Heating		℃	-23~21			-23~21		

Max. drop between I.U.&O.U. *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA

AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Full DC Inverter Compressors

Single Module 22HP, Maximum Combination 88HP

Automatic Oil Balancing

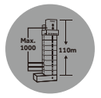
Model				AV74IMVURA	AV76IMVURA	AV78IMVURA	AV80IMVURA
	Combination model			AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA
				AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA
				AV18IMVURA	AV20IMVURA	AV20IMVURA	AV20IMVURA
				AV20IMVURA	AV20IMVURA	AV20IMVURA	AV20IMVURA
Capacity	Capacity range		HP	74	76	78	80
	Cooling		kW	206.0	212.0	218.0	224.0
	Heating		kW	206.0	212.0	218.0	224.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	65.62	66.72	67.82	68.92
		Max power input	kW	117.50	121.00	124.50	128.00
		Rated current	A	108.37	110.19	112.01	113.83
		Max current	A	194.05	199.83	205.61	211.39
	Heating	Rated power input	kW	56.87	58.94	61.01	63.08
		Max power input	kW	105.90	109.80	113.70	117.60
		Rated current	A	93.91	97.34	100.76	104.18
		Max current	A	174.89	181.34	187.78	194.22
	SEER			5.90	5.90	5.90	5.90
	SCOP			3.93	3.93	3.93	3.93
	ηs.c		%	233	233	233	233
	ηs.h		%	154	154	154	154
Performance	Air flow (H)		m^3/h	70000	72000	74000	76000
	Sound pressure level (H)		dB(A)	69	69	69	69
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858		
	Net/Shipping weight		kg	366/395+366/395+366/395+375/404	366/395+366/395+375/404+375/404	366/395+375/404+375/404+375/404	375/404+375/404+375/404+375/404
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A
	Refrigerant charge		kg	40	40	40	40
	Refrigerant liquid pipe		mm	22.2	22.2	22.2	22.2
	Refrigerant gas pipe		mm	44.5	44.5	44.5	44.5
	Refrigerant high gas pipe		mm	41.3	41.3	41.3	41.3
	Max.total pipe lenth		m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18
	External static pressure		Pa	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64
Working Temp.	Cooling		°C	-5~50		-5~50	
	Heating		°C	-23~21		-23~21	

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA

AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Full DC Inverter Compressors

Single Module 22HP, Maximum Combination 88HP

Automatic Oil Balancing

Model				AV82IMVURA	AV84IMVURA	AV86IMVURA	AV88IMVURA
	Combination model			AV20IMVURA	AV20IMVURA	AV20IMVURA	AV22IMVURA
				AV20IMVURA	AV20IMVURA	AV22IMVURA	AV22IMVURA
				AV20IMVURA	AV22IMVURA	AV22IMVURA	AV22IMVURA
				AV22IMVURA	AV22IMVURA	AV22IMVURA	AV22IMVURA
Capacity	Capacity range		HP	82	84	86	88
	Cooling		kW	228.0	232.0	236.0	240.0
	Heating		kW	228.0	232.0	236.0	240.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	71.69	74.46	77.23	80.00
		Max power input	kW	129.00	130.00	131.00	132.00
		Rated current	A	118.40	122.97	127.55	132.12
		Max current	A	213.04	214.70	216.35	218.00
	Heating	Rated power input	kW	65.22	67.36	69.50	71.64
		Max power input	kW	118.60	119.60	120.60	121.60
		Rated current	A	107.71	111.25	114.78	118.31
		Max current	A	195.87	197.52	199.17	200.82
	SEER			5.63	5.63	5.63	5.63
	SCOP			3.50	3.50	3.50	3.50
	ηs.c		%	222	222	222	222
	ηs.h		%	137	137	137	137
Performance	Air flow (H)		m^3/h	76000	76000	76000	76000
	Sound pressure level (H)		dB(A)	69	69.5	70	70
Installation	External dimensions(W/D/H)		mm	1410/750/1690++1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690++1410/750/1690+1410/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858		
	Net/Shipping weight		kg	375/404+375/404+375/404+375/404	375/404+375/404+375/404+375/404		
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A
	Refrigerant charge		kg	40	40	40	40
	Refrigerant liquid pipe		mm	22.2	22.2	25.4	25.4
	Refrigerant gas pipe		mm	44.5	44.5	50.8	50.8
	Refrigerant high gas pipe		mm	41.3	41.3	44.5	44.5
	Max.total pipe lenth		m	1000	1000	1000	1000
	Max. pipe length (equivalent/actual)		m	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18
	External static pressure		Pa	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64
Working Temp.	Cooling		°C	-5~50		-5~50	
	Heating		°C	-23~21		-23~21	

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
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Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

MRV S^{II}

073 Features & Benefits

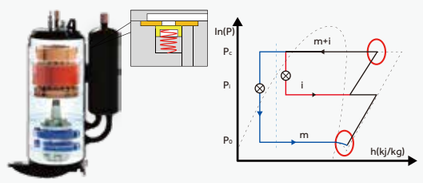
078 MRV S^{II} Outdoor

082 Dimensions

Advanced Technology

Increasing enthalpy by replenish gas, realize the unit powerful heating capacity

Taking the heating cycle as an example, when environment tempetature is low, heat exchanged capability of outdoor unit is depressed. The amount of air returned by compressor is reduced, increase the amount of refrigerant in the heating cycle of the indoor unit heat exchanger, There by achieving improved heating capacity.



DC inverter fan motor

•DC inverter fan motor more higher efficiency in part load running

•16-stage speed control; high efficiency running especially in low speed

•Efficiency increase 45% comparing with AC motor and power input largely decrease

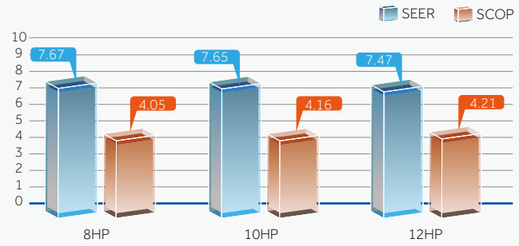
•Big diameter fan

•570mm big diameter fan, more big air flow and more higher efficiency(8/10/12HP)

Advanced Technology

High EER and COP(8/10/12HP)

The promotion of energy efficiency.



Leadership in technology(4-6HP)

•Two-stage super cooling cycle technology, increased unit efficiency by 9%. (Double fan)

•Maximizing 30°C undercooling, increase unit refrigerating capacity by 46%.

Upgraded configuration, upgraded performance (8/10/12HP side discharge)

Bigger outdoor capacity, more flexible application

High efficiency DC fan motor

•DC fan motor with stepless inverter control, efficiency increase 45% comparing with AC motor and power input largely decrease

Large diameter fan

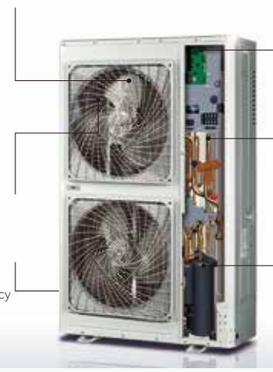
•Ø570mm big diameter axial flow fan

•Zigzag design, reduce airflow disturbance, air volume is bigger, the noise is lower

High efficiency condenser

•New type high efficiency Ø7 inner grooved tube

•New hydrophilic corrugated fissure fin, high efficiency



Vector inverter control

•180 degrees sine wave vector control, 64-bit operation

•High precision control, to achieve high efficiency and lower noise

Double pressure sensor

•Equipped with high and low voltage pressure double sensors

•Accurate pressure control, the system run more smoothly, more energy efficiency

Twin rotary DC Inverter compressor

•High chamber DC inverter twin rotary compressor

•Small vibration, low noise, high energy efficiency

Indoor units and outdoor units self-cleaning

Indoor units and outdoor units cleaning mode conversion with nonstop, make abundant use of ODU waste heat to IDU defrosting. At the same time, the IDU uses the waste heat of the ODU to defrost the heat exchanger, to dry the condensed water, effectively prevent mold breeding.

Condensation　Frosting　Powerful rinsing　Outdoor self-cleaning

High Efficiency

High energy efficiency

DC inverter compressor
Haier takes DC INV. compressor, 5% power input lower. (14kW)

DC fan motor and 550mm big fan
38% power input l ower and 8% airflow higher

Larger heat exchanger
Heat exchange area rise 10%

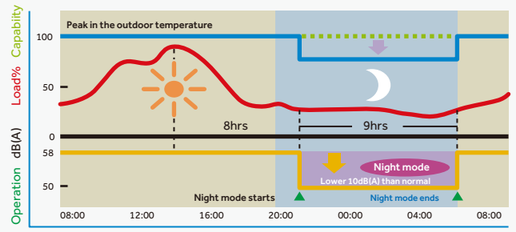
Charge valve
Built-in charge valve enables safer and easier maintenance

Low standby power
New PCB programme, reduce 20% standby power consumption

Low noise level

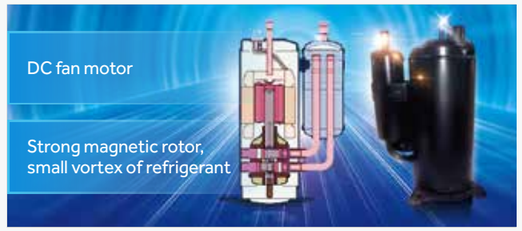
Night quiet operation function

Noise can be reduced to 45dB(A).



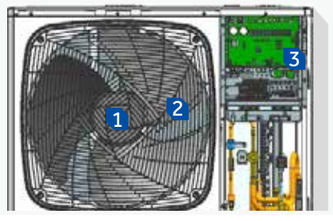
New DC inverter twin rotary compressor

•Small torque change, good dynamic balance, the system runs stably, little vibration, low noise, high efficiency.
•More higher efficiency in part load running.



Super Comfort

1. New aerodynamics fan 550mm super big diameter aerospace helix fan. lowering sound level 3dB(A).
2. Enlarged air inlet path and spiral air outlet path air flow direction follows the grill direction. lowering sound level 2-4 dB(A).
3. Automatic sound-lowering programme night mode set by PCB, 8dB(A) lower .



Low noise operation

•DC inverter compressor, smooth operation, no need frequent start the compressor, effectively reduce the noise outdoor.
•Vector inverter control, more precise control.
•DC fan motor, motor bracket used the non-resonance structure, ensure smooth running of the motor, reduce operating noise.
•Big diameter fan, design according to aviation quieter principle.

Easy installation

Compact side discharge design, big capacity, small footprint /small footprint, only 0.42m², 43% floor area can be reduced.

Easy Installation

1. **Double side “4 ” handles**
   Easy to carry
2. **“888” test panel**
   All running data & error code can be checked from "888" screen, which is easy for installers
3. **“Four-way” pipe connection**
   4-way (front, back, left & right) pipe connection, easy to design and install

Long pipe length, high height drop

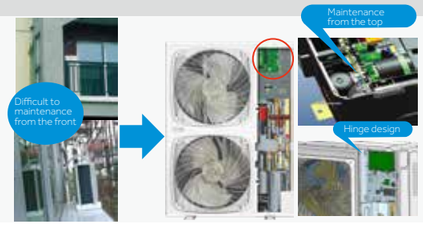
•Total pipe length: 300m.
•Single pipe length: Max.175m.
•From outdoor to the first branch pipe: 135m.
•From the first branch to the farthest indoor door unit: 40m.
•Height drop: 50m(outdoor above)/40m (outdoor below).
•Height drop between indoor units: 15m.

Parameter display panel

The first original parameter display panel on the side.
The parameter can be observed directly by opening the protective cover in case of maintenance, to avoid removing the repair board.

Easy maintenance for control

The control box is in front, reserving space 108mm between control box and top panel, easy maintenance from the top control box is with hinge design, easy to open for maintenance(8/10/12HP).

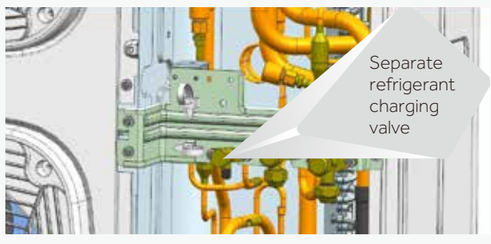


Compact side discharge design

No need additional ventilation hood comparing with top discharge unit.

Separate refrigerant charging valve

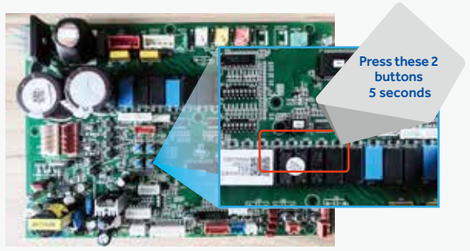
Easy for refrigerant charging.



High Reliability

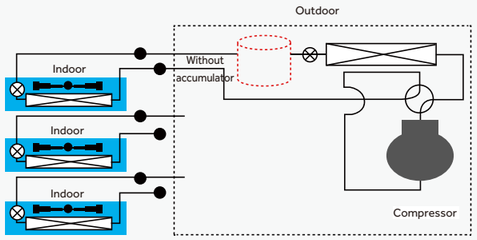
Refrigerant automatically reclaim technology

Set refrigerant automatically reclaim through dip switch, the refrigerant in indoor and pipe can be automatically return to outdoor, convenient in maintenance and reducing waste of refrigerant, reduce customer maintenance cost, improve the efficiency of after-sales maintenance.



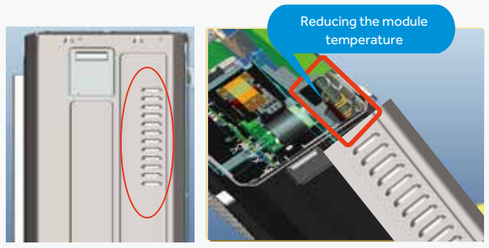
Refrigerant control technology

Refrigerant control technology without high pressure accumulator, reducing the refrigerant volume and enhancing the running efficiency.



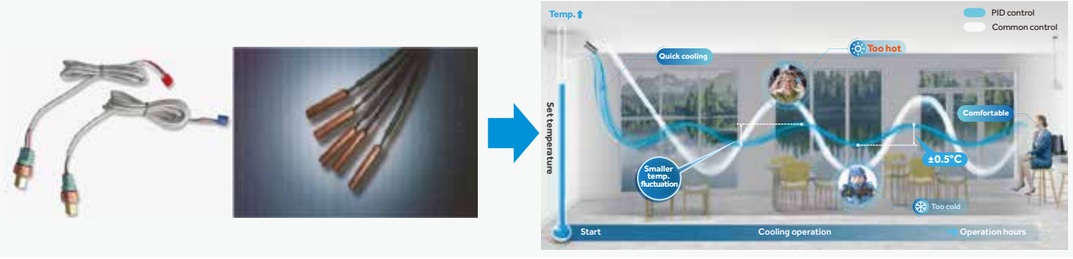
Air inlet grill design on right side panel

Air inlet grill design, reducing the module temperature and avoid air dust into air conditioner.



High and low double pressure sensor

•Double pressure sensor with PID control technology.
•Together with high speed communication to realize the quick start of compressor and more precise control, the temperature can be control ±0.5°C.



AU042FNERA
AU052FNERA

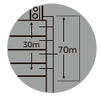
EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Model			AU042FNERA	AU052FNERA
Capacity (1)	Capacity range	HP	4	5
	Cooling	kW	12.1	14.0
	Heating	kW	12.1	14.0
	Heating(Max.)	kW	14.0	15.5
	SEER(T1)	/	4.90	4.85
	η s.c	%	193	191
	SCOP(T1)	/	3.50	3.55
	η s.h	%	137	139
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60
	Rated power input (Cooling)	kW	4.25	5.00
	Rated power input (Heating)	kW	4.10	4.83
Dimensions	External (W/D/H)	mm	950/370/965	950/370/965
	Shipping (W/D/H)	mm	1010/458/990	1010/458/990
Weight	Net/Shipping weight	kg	90/102	90/102
Compressor	Compressor type	/	Rotary	Rotary
	Motor power	W	4130	4130
	Compressor quantity	/	1	1
Fan	Air flow (H)	m^3/h	5400	5400
Pressure Sound level	Cooling	dB(A)	58	60
	Heating	dB(A)	60	62
Refrigerant	Type	/	R410A	R410A
	Charge	kg	3.3	3.3
Piping	Refrigerant liquid pipe	mm	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88
	Total pipe length	m	120	120
	Max. pipe length(Equivalent/Actual)	m	70/60	70/60
	Max. drop between I.U.&O.U.(ODU above / below)	m	30/20	30/20
	Max. drop between I.U.&I.U.	m	10	10
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130
	Maximum number of indoor units	/	7	8
Working Temp.	Cooling	℃	-5~50	-5~50
	Heating	℃	-15~21	-15~21

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor Temp. is 7°C DB/6°C WB)

AU042FPERA
AU052FPERA
AU062FPERA
AU04IFPERA
AU05IFPERA
AU06IFPERA

Double Fan Series



Total Pipe Length 300m

Two Stage Sub-cooling

Easy Connection With 4 Way

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Model			AU042FPERA	AU052FPERA	AU062FPERA	AU04IFPERA	AU05IFPERA	AU06IFPERA
Capacity(1)	Capacity range	HP	4	5	6	4	5	6
	Cooling	kW	12.1	14	15.5	12.1	14	15.5
	Heating	kW	12.1	14	15.5	12.1	14	15.5
	SEER(T1)	/	6.82	6.65	6.80	6.82	6.65	6.80
	η s.c	%	270	263	269	270	263	269
	SCOP(T1)	/	4.05	4.11	4.05	4.05	4.11	4.05
	η s.h	%	159	161	159	159	161	159
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Rated power input (Cooling)	kW	3.61	4.33	5.17	3.61	4.33	5.17
	Rated power input (Heating)	kW	3.23	3.76	5.00	3.23	3.76	5.00
Dimensions	External(W/D/H)	mm	950/370/1350	950/370/1350	950/370/1350	950/370/1350	950/370/1350	950/370/1350
	Shipping (W/D/H)	mm	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492
Weight	Net/Shipping	kg	108/123	108/123	108/123	108/123	108/123	108/123
Compressor	Compressor type	/	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Motor power	W	4130	4130	4130	4060	4060	4060
	Compressor quantity	/	1	1	1	1	1	1
Fan	Air flow (H)	m^3/h	7200	7200	7200	7200	7200	7200
Pressure Sound level	Cooling	dB(A)	57	58	59	57	58	59
	Heating	dB(A)	57	58	59	57	58	59
Refrigerant	Type	/	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	4	4	4	4	4	4
Piping	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
	Total pipe lenth	m	300	300	300	300	300	300
	Max. pipe length (Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150
	Max. drop between IDU&ODU (ODU above/below)	m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between IDU & IDU	m	15	15	15	15	15	15
Connection Ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	/	8	10	13	8	10	13
Working Temp.	Cooling	℃	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50
	Heating	℃	-20~27	-20~27	-20~27	-20~27	-20~27	-20~27

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor Temp. is 7°C DB/6°C WB)

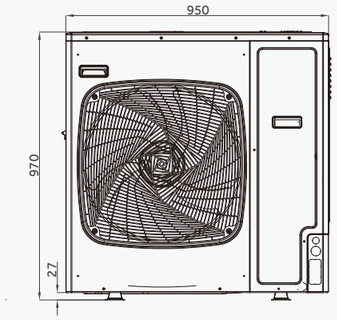
AU08NFKERA
AU10NFKERA
AU12NFKERA

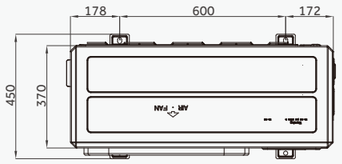
Model			AU08NFKERA	AU10NFKERA	AU12NFKERA
Capacity (1)	Capacity range	HP	8HP	10HP	12HP
	Cooling	kW	22.6	28	31.5
	Heating	kW	22.6	30.5	31.5
	Heating(Max.)	kW	25	32	35
	SEER	/	7.67	7.65	7.47
	η s.c	%	304	303	296
	SCOP	/	4.05	4.16	4.21
	η s.h	%	159	163.4	165.4
Electrical Parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated Power input (Cooling)	kW	6.95	8.67	11.52
	Rated Power input (Heating)	kW	5.79	8.03	8.49
Dimensions	External (W/D/H)	mm	1050/400/1636	1050/400/1636	1050/400/1636
	Shipping (W/D/H)	mm	1150/510/1790	1150/510/1790	1150/510/1790
Weight	Net/Shipping weight	kg	149/168	149/168	149/168
Compressor	Compressor type	/	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
	Motor Power	W	6270	6270	6270
	Compressor quantity	/	1	1	1
Fan	Air flow (H)	m^3/h	10000	10000	10000
Pressure Sound level	Cooling	dB(A)	63	64	65
	Heating	dB(A)	65	66	67
Refrigerant	Type	/	R410A	R410A	R410A
	Charge	kg	5.1	5.1	5.1
Piping	Refrigerant liquid pipe	mm	9.52	9.52	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4
	Total pipe length	m	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150
	Max. drop between I.U.&O.U.(ODU above / below)	m	50	50	50
	Max. drop between I.U.&I.U.	m	15	15	15
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130
	Maximum number of indoor units	/	13	16	19
Working Temp.	Cooling	℃	-5~48	-5~48	-5~48
	Heating	℃	-20~27	-20~27	-20~27

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor Temp. 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor Temp. is 7°C DB/6°C WB)

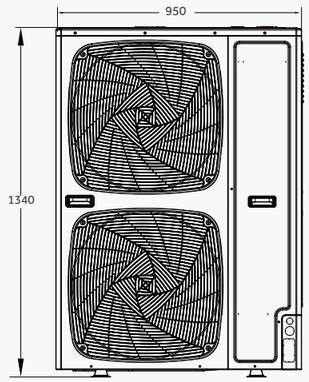
Dimensions

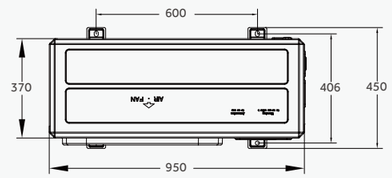
AU042FNERA AU052FNERA



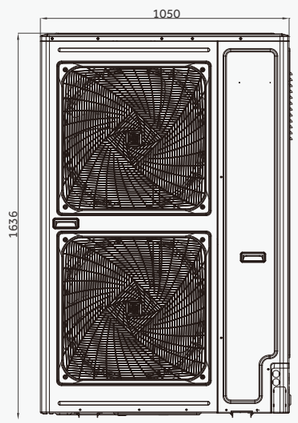


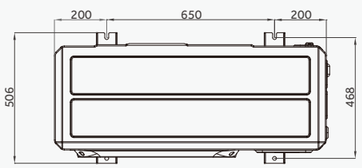
AU042FPERA AU052FPERA AU062FPERA AU04IFPERA AU05IFPERA AU06IFPERA





AU08NFKERA AU10NFKERA AU12NFKERA





MRV SII

MRV 5-T DC INVERTER T1

085 Features & Benefits

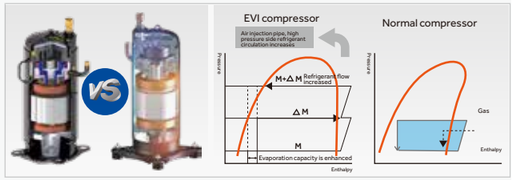
087 MRV 5-T Outdoor

Advanced Technology Easy Installation Super Comfort

Advanced Technology

Enhanced vapor injection technology, low temperature heating and high temperature cooling

The unit adopts EVI compressor, which can increase the refrigerant circulation by 15%, and improve the heating effect by 30% compared with the normal type. meanwhile, the one-way valve built in, and the efficiency of the unit can be increased by 5%. the cooling temperature can be 53°C.



Easy Installation

Cloud service

Through the internet cloud service protocol module, the operating data of MRV can be collected to the cloud service center via 4G and ethernet, thereby achieving remote monitoring, fault alarm, energy consumption analysis and historical error.

1. Remote monitor and control via PC, smartphone, tablet etc.
2. Scan the QR code to complete configuration and check the status of the AC at any time and place.
3. Check real-time working status of AC by cloud service data platform.
4. Convenient scheduling and central control.
5. Smart detection, pre-alarm and self-diagnostic for malfunction.
6. Group/zone control. control temp. , mode, fan speed etc. of each group/zone flexibly.

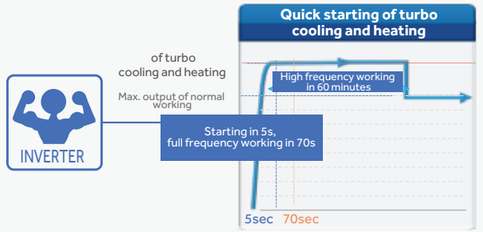
Auto adjustment

After the system is installed, through ODU mainboard, the whole system can be adjusted, eliminate possible faults in the system, more convenience.

Super Comfort

Quick start, strong cooling and heating

Quick start in 5s, achieve maximum output in 70s. maintain high frequency operation for one hour, ensure that the room temperature reaches the maximum set value quickly.



Power cut memory function and restart

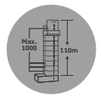
During opetation, if the system power off suddenly, the system will automatically remember state before power off. When power is restored, the system will start automatically and run in the original state. Don't need to reset the system, more convenience.

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV08NMVETS	AV10NMVETS	AV12NMVETS	AV14NMVETS	AV16NMVETS	AV18NMVETS	AV20NMVETS	AV22NMVETS	AV24NMVETS	AV26NMVETS
	Combination model			/	/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	8	10	12	14	16	18	20	22	24	26
	Cooling @T1		kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.5
	Heating		kW	27.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0	82.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	5.38	6.80	8.40	10.70	12.80	13.85	15.71	17.72	19.10	21.20
		Rated current	A	8.96	11.32	13.99	17.82	21.31	23.06	26.16	29.50	31.80	35.30
		Max. power input	kW	14.30	15.10	16.32	17.58	20.69	25.90	28.91	31.82	32.81	35.35
		Max. current	A	23.81	25.14	27.17	29.27	34.50	40.30	46.30	51.91	54.12	58.86
	Heating	Rated power input	kW	5.30	6.40	8.30	10.60	11.80	13.50	15.30	16.90	18.50	19.70
		Rated current	A	8.82	10.66	13.82	17.65	19.65	22.48	25.47	28.14	30.80	32.80
		Max. power input	kW	11.69	12.19	12.69	16.10	19.56	21.93	24.70	25.69	30.40	32.45
		Max. current	A	19.47	20.30	21.13	26.81	32.57	36.51	41.13	42.78	50.62	54.03
	EER		/	4.68	4.12	3.99	3.74	3.52	3.64	3.56	3.47	3.56	3.47
	COP		/	5.09	4.92	4.52	4.25	4.24	4.19	4.12	4.08	4.05	4.19
Dimensions	External dimensions(W/D/H)		mm	980/750/1690		980/750/1690			1410/750/1690				
	Shipping dimensions(W/D/H)		mm	1070/850/1858		1070/850/1858			1515/850/1858				
Refrigerant	Net/Shipping weight		kg	255/280		255/280			385/410				
	Refrigerant type			R410A		R410A			R410A				
	Refrigerant charge		kg	10	10	10	10	10	10	10	10	10	10
Fan	Air flow (H)		m³/h	11000	12000	13500	13500	13500	17000	17000	18000	18000	19000
	External static pressure		Pa	110	110	110	110	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58	28.58
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88
Sound	Sound pressure level (H)		dB(A)	57	57	59	59	60	61	62	62	63	63
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			13	16	20	24	27	30	33	36	40	43
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~53		-5~53							
	Heating		°C	-25~27		-25~27							

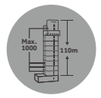
Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV28NMVETS	AV30NMVETS	AV32NMVETS	AV34NMVETS	AV36NMVETS	AV38NMVETS	AV40NMVETS	AV42NMVETS	AV44NMVETS
	Combination model			/	/	/	/	AV18NMVETS	AV18NMVETS	AV20NMVETS	AV20NMVETS	AV22NMVETS
				/	/	/	/	AV18NMVETS	AV20NMVETS	AV20NMVETS	AV22NMVETS	AV22NMVETS
				/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	28	30	32	34	36	38	40	42	44
	Cooling		kW	80.0	85.0	90.0	95.0	100.8	106.4	112.0	117.5	123.0
	Heating		kW	90.0	95.0	100.0	106.5	113.0	119.5	126.0	132.0	138.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	21.30	22.75	25.10	26.65	27.70	29.56	31.42	33.43	35.44
		Rated current	A	34.70	37.06	40.89	43.42	46.12	49.22	52.31	55.66	59.01
		Max. power input	kW	35.60	36.41	37.62	42.98	51.80	54.81	57.82	60.73	63.64
		Max. current	A	58.95	59.31	61.29	70.02	80.60	86.60	92.60	98.21	103.82
	Heating	Rated power input	kW	20.84	22.40	24.60	25.30	27.00	28.80	30.60	32.20	33.80
		Rated current	A	33.95	36.49	40.08	41.22	44.96	47.95	50.95	53.61	56.28
		Max. power input	kW	32.60	33.10	33.50	37.38	43.86	46.63	49.40	50.39	51.38
		Max. current	A	53.69	54.51	55.17	60.90	73.03	77.64	82.25	83.90	85.55
	EER		/	3.76	3.74	3.59	3.56	3.64	3.60	3.56	3.51	3.47
	COP		/	4.32	4.24	4.07	4.21	4.19	4.15	4.12	4.10	4.08
Dimensions	External dimensions(W/D/H)		mm	1785/830/1858		1785/830/1858		1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)		mm	1886/950/2025		1886/950/2025		1515/850/1858+1515/850/1858				
Refrigerant	Net/Shipping weight		kg	495/530		495/530		385/410+385/410				
	Refrigerant type			R410A		R410A		R410A				
	Refrigerant charge		kg	10	10	10	10	20	20	20	20	20
Fan	Air flow (H)		m³/h	27000	27000	27000	27000	34000	34000	34000	35000	36000
	External static pressure		Pa	110	110	110	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	31.75	31.75	31.75	31.75	38.1	38.1	38.1	38.1	38.1
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
Sound	Sound pressure level (H)		dB(A)	63	64	64	64	64	64	64	64	64
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			47	50	53	56	59	63	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~53				-5~53				
	Heating		°C	-25~27				-25~27				

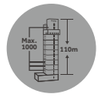
Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV46NMVETS	AV48NMVETS	AV50NMVETS	AV52NMVETS	AV54NMVETS	AV56NMVETS	AV58NMVETS	AV60NMVETS
	Combination model			AV22NMVETS	AV24NMVETS	AV24NMVETS	AV26NMVETS	AV18NMVETS	AV18NMVETS	AV18NMVETS	AV20NMVETS
				AV24NMVETS	AV24NMVETS	AV26NMVETS	AV26NMVETS	AV18NMVETS	AV18NMVETS	AV20NMVETS	AV20NMVETS
				/	/	/	/	AV18NMVETS	AV20NMVETS	AV20NMVETS	AV20NMVETS
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	46	48	50	52	54	56	58	60
	Cooling		kW	129.5	136.0	141.5	147.0	153.5	160.0	165.0	170.0
	Heating		kW	144.0	150.0	157.5	165.0	172.5	180.0	185.0	190.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	36.82	38.20	40.30	42.40	42.50	42.60	44.05	45.50
		Rated current	A	61.31	63.60	67.10	70.60	70.00	69.40	71.77	74.13
		Max. power input	kW	64.63	65.62	68.16	70.70	70.95	71.20	72.01	72.81
		Max. current	A	106.03	108.24	112.98	117.72	117.81	117.90	118.26	118.62
	Heating	Rated power input	kW	35.40	37.00	38.20	39.40	40.54	41.68	43.24	44.80
		Rated current	A	58.94	61.61	63.60	65.60	66.75	67.90	70.45	72.99
		Max. power input	kW	56.09	60.80	62.85	64.90	65.05	65.20	65.70	66.20
		Max. current	A	93.39	101.23	104.65	108.06	107.72	107.38	108.20	109.03
	EER		/	3.52	3.56	3.51	3.47	3.61	3.76	3.75	3.74
	COP		/	4.07	4.05	4.12	4.19	4.26	4.32	4.28	4.24
Dimensions	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858		1515/850/1858+1515/850/1858		1515/850/1858*3			
Refrigerant	Net/Shipping weight		kg	385/410+385/410		385/410+385/410		385/410*3			
	Refrigerant type			R410A		R410A		R410A			
	Refrigerant charge		kg	20	20	20	20	30	30	30	30
Fan	Air flow (H)		m³/h	36000	36000	37000	38000	46000	54000	54000	54000
	External static pressure		Pa	110	110	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	38.1	38.1	41.3	41.3
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
Sound	Sound pressure level (H)		dB(A)	64.5	65	65	65	65.8	65.8	65.8	65.8
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~53				-5~53			
	Heating		°C	-25~27				-25~27			

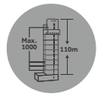
Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV62NMVETS	AV64NMVETS	AV66NMVETS	AV68NMVETS	AV70NMVETS	AV72NMVETS	AV74NMVETS	AV76NMVETS	AV78NMVETS
	Combination model			AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV24NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS
				AV20NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV24NMVETS	AV24NMVETS	AV24NMVETS	AV26NMVETS	AV26NMVETS
				AV20NMVETS	AV20NMVETS	AV22NMVETS	AV24NMVETS	AV24NMVETS	AV24NMVETS	AV24NMVETS	AV24NMVETS	AV26NMVETS
				/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	62	64	66	68	70	72	74	76	78
	Cooling		kW	175.0	180.0	185.0	190.0	197.5	204.0	209.5	215.0	220.5
	Heating		kW	195.0	200.0	206.5	213.0	219.0	225.0	232.5	240.0	247.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	47.85	50.20	51.75	53.30	55.92	57.30	59.40	61.50	63.60
		Rated current	A	77.96	81.79	84.31	86.84	93.11	95.40	98.90	102.40	105.89
		Max. power input	kW	74.02	75.24	80.60	85.96	97.44	98.43	100.97	103.51	106.05
		Max. current	A	120.60	122.58	131.31	140.04	160.15	162.36	167.10	171.84	176.57
	Heating	Rated power input	kW	47.00	49.20	49.90	50.60	53.90	55.50	56.70	57.90	59.10
		Rated current	A	76.57	80.16	81.30	82.44	89.74	92.41	94.41	96.40	98.40
		Max. power input	kW	66.60	67.00	70.88	74.76	86.49	91.20	93.25	95.30	97.35
		Max. current	A	109.68	110.34	116.07	121.80	144.01	151.85	155.26	158.67	162.09
	EER		/	3.66	3.59	3.57	3.56	3.53	3.56	3.53	3.50	3.47
	COP		/	4.15	4.07	4.14	4.21	4.06	4.05	4.10	4.15	4.19
Dimensions	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690					1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858*3					1515/850/1858*3			
Refrigerant	Net/Shipping weight		kg	385/410*3					385/410*3			
	Refrigerant type			R410A					R410A			
	Refrigerant charge		kg	30	30	30	30	30	30	30	30	30
Fan	Air flow (H)		m³/h	54000	54000	54000	54000	54000	54000	55000	56000	57000
	External static pressure		Pa	110	110	110	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	41.3	41.3	41.3	44.5	44.5	44.5	44.5	44.5	44.5
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	22.2	22.2	22.2	22.2	22.2	22.2
Sound	Sound pressure level (H)		dB(A)	65.8	65.8	65.8	66	66.5	66.8	66.8	66.8	66.8
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~53					-5~53			
	Heating		°C	-25~27					-25~27			

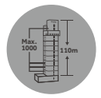
Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV80NMVETS	AV82NMVETS	AV84NMVETS	AV86NMVETS	AV88NMVETS	AV90NMVETS	AV92NMVETS	AV94NMVETS
	Combination model			AV20NMVETS	AV20NMVETS	AV20NMVETS	AV20NMVETS	AV22NMVETS	AV24NMVETS	AV24NMVETS	AV24NMVETS
				AV20NMVETS	AV20NMVETS	AV20NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV24NMVETS	AV24NMVETS
				AV20NMVETS	AV20NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV24NMVETS
				AV20NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS	AV22NMVETS
Capacity	Capacity range		HP	80	82	84	86	88	90	92	94
	Cooling		kW	227.0	233.5	240.0	245.0	250.0	255.0	260.0	265.0
	Heating		kW	255.0	262.5	270.0	275.0	280.0	285.0	290.0	295.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	63.70	63.80	63.90	65.35	66.80	68.25	70.60	72.95
		Rated current	A	105.30	104.70	104.11	106.47	108.83	111.19	115.02	118.85
		Max. power input	kW	106.30	106.55	106.80	107.61	108.41	109.22	110.43	111.64
		Max. current	A	176.67	176.76	176.85	177.21	177.57	177.93	179.91	181.89
	Heating	Rated power input	kW	60.24	61.38	62.52	64.08	65.64	67.20	69.40	71.60
		Rated current	A	99.55	100.71	101.86	104.40	106.94	109.48	113.07	116.65
		Max. power input	kW	97.50	97.65	97.80	98.30	98.80	99.30	99.70	100.10
		Max. current	A	161.75	161.41	161.07	161.89	162.71	163.54	164.20	164.86
	EER		/	3.56	3.66	3.76	3.75	3.74	3.74	3.68	3.63
	COP		/	4.23	4.28	4.32	4.29	4.27	4.24	4.18	4.12
Dimensions	External dimensions(W/D/H)		mm	1410/750/1690*4				1410/750/1690*4			
	Shipping dimensions(W/D/H)		mm	1515/850/1858*4				1515/850/1858*4			
Refrigerant	Net/Shipping weight		kg	385/410*4				385/410*4			
	Refrigerant type			R410A				R410A			
	Refrigerant charge		kg	40	40	40	40	40	40	40	40
Fan	Air flow (H)		m³/h	65000	73000	81000	81000	81000	81000	81000	81000
	External static pressure		Pa	110	110	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	44.5	44.5	44.5	50.8	50.8	50.8	50.8	50.8
	Refrigerant liquid pipe		mm	22.2	22.2	22.2	25.4	25.4	25.4	25.4	25.4
Sound	Sound pressure level (H)		dB(A)	67	67	67	67	67	67.5	67.5	68
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~53				-5~53			
	Heating		°C	-25~27				-25~27			

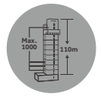
Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB,in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV96NMVETS	AV98NMVETS	AV100NMVETS	AV102NMVETS	AV104NMVETS	AV106NMVETS	AV108NMVETS
	Combination model			AV24NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS
				AV24NMVETS	AV24NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS
				AV24NMVETS	AV24NMVETS	AV24NMVETS	AV26NMVETS	AV26NMVETS	AV26NMVETS	AV28NMVETS
				AV24NMVETS	AV24NMVETS	AV24NMVETS	AV24NMVETS	AV26NMVETS	AV28NMVETS	AV28NMVETS
Capacity	Capacity range		HP	96	98	100	102	104	106	108
	Cooling		kW	270.0	275.0	280.0	285.0	294.0	300.5	307.0
	Heating		kW	300.0	306.5	313.0	319.5	330.0	337.5	345.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	75.30	76.85	78.40	79.95	84.80	84.90	85.00
		Rated current	A	122.68	125.20	127.73	130.25	141.19	140.60	140.00
		Max. power input	kW	112.86	118.22	123.58	128.94	141.40	141.65	141.90
		Max. current	A	183.86	192.60	201.33	210.06	235.43	235.52	235.62
	Heating	Rated power input	kW	73.80	74.50	75.20	75.90	78.80	79.94	81.08
		Rated current	A	120.23	121.38	122.52	123.66	131.20	132.35	133.51
		Max. power input	kW	100.50	104.38	108.26	112.14	129.80	129.95	130.10
		Max. current	A	165.51	171.24	176.97	182.70	216.12	215.78	215.44
	EER		/	3.59	3.58	3.57	3.56	3.47	3.54	3.61
	COP		/	4.07	4.11	4.16	4.21	4.19	4.22	4.26
Dimensions	External dimensions(W/D/H)		mm	1410/750/1690*4		1410/750/1690*4		1410/750/1690*4	1410/750/1690+1410/750/1690+ 1410/750/1690+1785/830/1858	1410/750/1690+1410/750/1690+ 1785/830/1858+1785/830/1858
	Shipping dimensions(W/D/H)		mm	1515/850/1858*4		1515/850/1858*4		1515/850/1858*4	1515/850/1858*3+1886/950/2025	1515/850/1858*3+1886/950/2025
Refrigerant	Net/Shipping weight		kg	385/410*4		385/410*4		385/410*4	385/410*3+495/530	385/410+495/530*3
	Refrigerant type			R410A		R410A		R410A	R410A	R410A
	Refrigerant charge		kg	40	40	40	40	40	40	40
Fan	Air flow (H)		m³/h	81000	81000	81000	81000	76000	84000	92000
	External static pressure		Pa	110	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	50.8	54.1	54.1	54.1	54.1	66.7	66.7
	Refrigerant liquid pipe		mm	25.4	25.4	25.4	25.4	25.4	28.58	28.58
Sound	Sound pressure level (H)		dB(A)	68	68	68	68	68	69.3	69.6
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18
Working Temp.	Cooling		℃	-5~53				-5~53		
	Heating		℃	-25~27				-25~27		

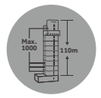
Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV110NMVETS	AV112NMVETS	AV114NMVETS	AV116NMVETS	AV118NMVETS	AV120NMVETS
	Combination model			AV26NMVETS	AV28NMVETS	AV28NMVETS	AV28NMVETS	AV30NMVETS	AV30NMVETS
				AV26NMVETS	AV28NMVETS	AV28NMVETS	AV28NMVETS	AV30NMVETS	AV30NMVETS
				AV26NMVETS	AV28NMVETS	AV28NMVETS	AV30NMVETS	AV30NMVETS	AV30NMVETS
				AV28NMVETS	AV28NMVETS	AV30NMVETS	AV30NMVETS	AV28NMVETS	AV30NMVETS
Capacity	Capacity range		HP	110	112	114	116	118	120
	Cooling		kW	313.5	320.0	325.0	330.0	335.0	340.0
	Heating		kW	352.5	360.0	365.0	370.0	375.0	380.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	85.10	85.20	86.65	88.10	89.55	91.00
		Rated current	A	139.40	138.81	141.17	143.53	145.89	148.26
		Max. power input	kW	142.15	142.40	143.21	144.01	144.82	145.62
		Max. current	A	235.71	235.80	236.16	236.52	236.88	237.24
	Heating	Rated power input	kW	82.22	83.36	84.92	86.48	88.04	89.60
		Rated current	A	134.66	135.81	138.35	140.89	143.43	145.98
		Max. power input	kW	130.25	130.40	130.90	131.40	131.90	132.40
		Max. current	A	215.10	214.76	215.58	216.40	217.23	218.05
	EER		/	3.68	3.76	3.75	3.75	3.74	3.74
	COP		/	4.29	4.32	4.30	4.28	4.26	4.24
Dimensions	External dimensions(W/D/H)		mm	1785/830/1858+1785/830/1858+1785/830/1858+1785/830/1858			1785/830/1858+1785/830/1858+1785/830/1858+1785/830/1858		
	Shipping dimensions(W/D/H)		mm	1886/950/2025*4			1886/950/2025*4		
Refrigerant	Net/Shipping weight		kg	495/530*4			495/530*4		
	Refrigerant type			R410A			R410A		
	Refrigerant charge		kg	40	40	40	40	40	40
Fan	Air flow (H)		m³/h	100000	108000	108000	108000	108000	108000
	External static pressure		Pa	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	66.7	66.7	66.7	66.7	66.7	66.7
	Refrigerant liquid pipe		mm	28.58	28.58	28.58	28.58	28.58	28.58
Sound	Sound pressure level (H)		dB(A)	69.8	70	70	70	70	70
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~53					
	Heating		°C	-25~27					

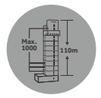
Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB;in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETS
AV10NMVETS
AV12NMVETS
AV14NMVETS
AV16NMVETS

AV18NMVETS
AV20NMVETS
AV22NMVETS
AV24NMVETS
AV26NMVETS

AV28NMVETS
AV30NMVETS
AV32NMVETS
AV34NMVETS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

EVI Compressors

Maximum Combination 136HP

Model				AV122NMVETS	AV124NMVETS	AV126NMVETS	AV128NMVETS	AV130NMVETS	AV132NMVETS	AV134NMVETS	AV136NMVETS
	Combination model			AV30NMVETS	AV30NMVETS	AV32NMVETS	AV32NMVETS	AV32NMVETS	AV32NMVETS	AV34NMVETS	AV34NMVETS
				AV30NMVETS	AV30NMVETS	AV32NMVETS	AV32NMVETS	AV32NMVETS	AV32NMVETS	AV34NMVETS	AV34NMVETS
				AV30NMVETS	AV32NMVETS	AV32NMVETS	AV32NMVETS	AV32NMVETS	AV34NMVETS	AV34NMVETS	AV34NMVETS
				AV32NMVETS	AV32NMVETS	AV30NMVETS	AV32NMVETS	AV34NMVETS	AV34NMVETS	AV32NMVETS	AV34NMVETS
Capacity	Capacity range		HP	122	124	126	128	130	132	134	136
	Cooling		kW	345.0	350.0	355.0	360.0	365.0	370.0	375.0	380.0
	Heating		kW	385.0	390.0	395.0	400.0	406.5	413.0	419.5	426.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	93.35	95.70	98.05	100.40	101.95	103.50	105.05	106.60
		Rated current	A	152.09	155.91	159.74	163.57	166.10	168.62	171.15	173.67
		Max. power input	kW	146.83	148.05	149.26	150.47	155.84	161.20	166.56	171.92
		Max. current	A	239.22	241.20	243.17	245.15	253.88	262.62	271.35	280.08
	Heating	Rated power input	kW	91.80	94.00	96.20	98.40	99.10	99.80	100.50	101.20
		Rated current	A	149.56	153.14	156.73	160.31	161.45	162.59	163.73	164.87
		Max. power input	kW	132.80	133.20	133.60	134.00	137.88	141.76	145.64	149.52
		Max. current	A	218.71	219.37	220.03	220.69	226.41	232.14	237.87	243.60
	EER		/	3.70	3.66	3.62	3.59	3.58	3.57	3.57	3.56
	COP		/	4.19	4.15	4.11	4.07	4.10	4.14	4.17	4.21
Dimensions	External dimensions(W/D/H)		mm	1785/830/1858+1785/830/1858+1785/830/1858+1785/830/1858				1785/830/1858+1785/830/1858+1785/830/1858+1785/830/1858			
	Shipping dimensions(W/D/H)		mm	1886/950/2025*4				1886/950/2025*4			
Refrigerant	Net/Shipping weight		kg	495/530*4				495/530*4			
	Refrigerant type			R410A				R410A			
	Refrigerant charge		kg	40	40	40	40	40	40	40	40
Fan	Air flow (H)		m³/h	108000	108000	108000	108000	108000	108000	108000	108000
	External static pressure		Pa	110	110	110	110	110	110	110	110
Pipe	Refrigerant gas pipe		mm	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
	Refrigerant liquid pipe		mm	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58
Sound	Sound pressure level (H)		dB(A)	70	70	70	70	70	70	70	70
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~53							
	Heating		°C	-25~27							

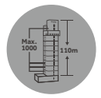
Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVEMS
AV10NMVEMS
AV12NMVEMS
AV14NMVEMS
AV16NMVEMS
AV18NMVEMS

AV20NMVEMS
AV22NMVEMS
AV24NMVEMS
AV26NMVEMS
AV28NMVEMS

AV30NMVEMS
AV32NMVEMS
AV34NMVEMS
AV36NMVEMS
AV38NMVEMS
AV40NMVEMS
AV42NMVEMS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

Hitachi EVI Compressor

Maximum Combination 136HP

Model				AV08NMVEMS	AV10NMVEMS		AV12NMVEMS	AV14NMVEMS	AV16NMVEMS	AV18NMVEMS	AV20NMVEMS	AV22NMVEMS	AV24NMVEMS	AV26NMVEMS	AV28NMVEMS
	Combination model			/	/		/	/	/	/	/	/	/	/	/
				/	/		/	/	/	/	/	/	/	/	/
				/	/		/	/	/	/	/	/	/	/	/
				/	/		/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	8	10		12	14	16	18	20	22	24	26	28
	Cooling		kW	25.2	28.5		33.5	40	45	50.4	56	61.5	68.5	73.5	80
	Heating		kW	27	31.5		37.5	45	50	56.5	63	69	75	82.5	90
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60		3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	5.35	6.8		8.05	10.15	11.8	13.45	15.1	16.5	17.6	18.8	21.3
		Rated current	A	8.89	11.23		13.29	16.76	19.49	22.21	25.5	27.9	29.7	31.7	34.7
		Max. power input	kW	9.8	11.2		13.87	15.7	18.77	19.86	26.3	28.5	29.1	32.78	33.23
		Max. current	A	16.2	18.5		22.9	26	31	32.8	42.4	48.1	49.1	50.3	51
	Heating	Rated power input	kW	5.2	6.3		8	10.3	11.2	13.4	14.6	15.4	16.8	17.7	20.84
		Rated current	A	7.27	8.81		11.18	14.4	15.66	18.73	24.6	26	28.4	29.9	33.95
		Max. power input	kW	8.8	10.04		12.9	14.71	17.08	18.32	22.7	25.5	26.5	30.4	32.6
		Max. current	A	14.5	16.59		21.3	24.3	28.2	30.26	38.3	43	44.7	46.66	50.03
	EER		/	4.71	4.19		4.16	3.94	3.81	3.75	3.71	3.73	3.89	3.91	3.76
	COP		/	5.19	5		4.69	4.37	4.46	4.22	4.32	4.48	4.46	4.66	4.32
Dimensions	External dimensions(W/D/H)		mm	980/750/1690			980/750/1690				1785/830/1858				
	Shipping dimensions(W/D/H)		mm	1070/850/1870			1070/850/1870				1886/950/2025				
Refrigerant	Net weight		kg	214	214		214	217	217	225	325	325	325	365	365
	Shipping weight		kg	239	239		239	242	242	250	355	355	355	395	395
	Refrigerant type			R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	7.3	7.3		7.3	10.1	10.1	8.3	14.5	14.5	14.5	15.5	15.5
Fan	Air flow (H)		m³/h	11000	11000		12000	12000	13500	13500	17000	18000	18000	19000	27000
	External static pressure		Pa	50	50		50	50	50	50	50	50	50	50	50
Pipe	Refrigerant gas pipe		mm	19.05	22.22		25.4	25.4	28.58	28.58	28.58	28.58	28.58	28.58	31.75
	Refrigerant liquid pipe		mm	9.52	9.52		12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88	19.05
Sound	Sound pressure level (H)		dB(A)	56	57		59	59	60	61	61	61	62	62	63
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130		50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			13	16		20	24	27	30	33	36	40	43	47
Pipe Length	Max.total pipe length		m	1000	1000		1000	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220		260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90		110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40		50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30		30	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18		18	18	18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~54											
	Heating		°C	-26~27											

*Pending

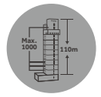
Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVEMS
AV10NMVEMS
AV12NMVEMS
AV14NMVEMS
AV16NMVEMS
AV18NMVEMS

AV20NMVEMS
AV22NMVEMS
AV24NMVEMS
AV26NMVEMS
AV28NMVEMS

AV30NMVEMS
AV32NMVEMS
AV34NMVEMS
AV36NMVEMS
AV38NMVEMS
AV40NMVEMS
AV42NMVEMS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

Hitachi EVI Compressor

Maximum Combination 136HP

Model				AV30NMVEMS	AV32NMVEMS		AV34NMVEMS	AV36NMVEMS	AV38NMVEMS	AV40NMVEMS	AV42NMVEMS	AV44NMVEMS	AV46NMVEMS
	Combination model			/	/		/	/	/	/	/	AV20NMVEMS	AV22NMVEMS
				/	/		/	/	/	/	/	AV24NMVEMS	AV24NMVEMS
				/	/		/	/	/	/	/	/	/
				/	/		/	/	/	/	/	/	/
Capacity	Capacity range		HP	30	32		34	36	38	40	42	44	46
	Cooling		kW	85	90		96	101	106.5	112	117.5	124.5	130
	Heating		kW	95	100		106.5	112	119	123.5	132	138	144
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60		3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	22.75	24.8		25.65	27.7	29.7	31.5	34.92	32.7	34.1
		Rated current	A	37.06	40.89		43.42	46.12	47.87	50.77	56.29	55.2	57.6
		Max. power input	kW	36.62	37.01		41.38	41.64	46.8	47.9	48.3	55.4	57.6
		Max. current	A	56.2	56.8		63.5	63.9	74.2	74.5	78.9	91.5	97.2
	Heating	Rated power input	kW	22.4	24.6		25.3	27	29.2	31.2	32.9	31.4	32.2
		Rated current	A	36.49	40.08		41.22	44.96	47.07	50.29	52.46	53	54.4
		Max. power input	kW	33.7	36.9		38.38	41.5	45.5	46.2	47.8	49.2	52
		Max. current	A	51.72	56.63		58.9	63.69	73.34	74.1	77.05	83	87.7
	EER		/	3.74	3.63		3.74	3.65	3.59	3.56	3.36	3.81	3.81
	COP		/	4.24	4.07		4.21	4.15	4.08	3.96	4.01	4.39	4.47
Dimensions	External dimensions(W/D/H)		mm	1785/830/1858			1785/830/1858					(1410/750/1690)+(1410/750/1690)	
	Shipping dimensions(W/D/H)		mm	1886/950/2025			1886/950/2025					(1515/850/1838)+(1515/850/1838)	
Refrigerant	Net weight		kg	446	446		496	496	496	496	496	325+325	325+325
	Shipping weight		kg	481	481		531	531	531	531	531	355+355	355+355
	Refrigerant type			R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	16	16		20.5	20.5	20.5	20.5	20.5	14.5+14.5	14.5+14.5
Fan	Air flow (H)		m³/h	27000	27000		27000	27000	30000	30000	30000	35000	36000
	External static pressure		Pa	50	50		50	50	50	50	50	50	50
Pipe	Refrigerant gas pipe		mm	31.75	31.75		31.75	38.1	38.1	38.1	38.1	38.1	38.1
	Refrigerant liquid pipe		mm	19.05	19.05		19.05	19.05	19.05	19.05	19.05	19.05	19.05
Sound	Sound pressure level (H)		dB(A)	64	64		64	64	66	66	68	64.54	64.54
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130		50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			50	53		56	60	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000		1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220		260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90		110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40		50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30		30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18		18	18	18	18	18	18	18
Working Temp.	Cooling		℃	-5~54									
	Heating		℃	-26~27									

*Pending

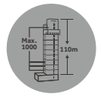
Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVEMS
AV10NMVEMS
AV12NMVEMS
AV14NMVEMS
AV16NMVEMS
AV18NMVEMS

AV20NMVEMS
AV22NMVEMS
AV24NMVEMS
AV26NMVEMS
AV28NMVEMS

AV30NMVEMS
AV32NMVEMS
AV34NMVEMS
AV36NMVEMS
AV38NMVEMS
AV40NMVEMS
AV42NMVEMS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

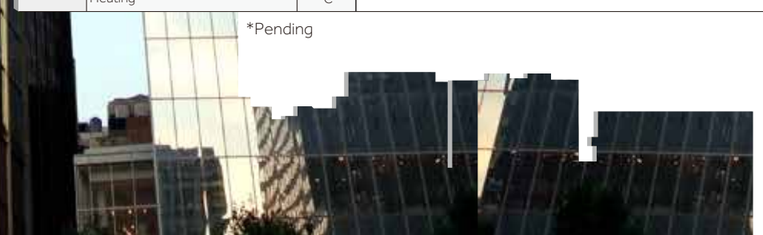
Auto Addressing Indoor Units

Hitachi EVI Compressor

Maximum Combination 136HP

Model				AV48NMVEMS	AV50NMVEMS		AV52NMVEMS	AV56NMVEMS	AV58NMVEMS	AV60NMVEMS	AV62NMVEMS	AV64NMVEMS	AV66NMVEMS
	Combination model			AV24NMVEMS	AV24NMVEMS		AV24NMVEMS	AV24NMVEMS	AV24NMVEMS	AV24NMVEMS	AV26NMVEMS	AV32NMVEMS	AV32NMVEMS
				AV24NMVEMS	AV26NMVEMS		AV30NMVEMS	AV32NMVEMS	AV34NMVEMS	AV36NMVEMS	AV36NMVEMS	AV32NMVEMS	AV34NMVEMS
				/	/		/	/	/	/	/	/	/
				/	/		/	/	/	/	/	/	/
Capacity	Capacity range		HP	48	50		54	56	58	60	62	64	66
	Cooling		kW	137	142		153.5	158.5	164.5	169.5	174.5	180	186
	Heating		kW	150	157.5		170	175	181.5	187	194.5	200	206.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60		3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	35.2	36.4		40.35	42.4	43.25	45.3	46.5	49.6	50.45
		Rated current	A	59.4	61.4		66.76	70.59	73.12	75.82	77.82	81.79	84.31
		Max. power input	kW	58.2	61.88		65.72	66.11	70.48	70.74	74.42	74.02	78.39
		Max. current	A	98.2	99.4		105.3	105.9	112.6	113	114.2	113.6	120.3
	Heating	Rated power input	kW	33.6	34.5		39.2	41.4	42.1	43.8	44.7	49.2	49.9
		Rated current	A	56.8	58.3		64.89	68.48	69.62	73.36	74.86	80.16	81.3
		Max. power input	kW	53	56.9		60.2	63.4	64.88	68	71.9	73.8	75.28
		Max. current	A	89.4	91.36		96.42	101.33	103.6	108.39	110.35	113.26	115.53
	EER		/	3.89	3.9		3.8	3.74	3.8	3.74	3.75	3.63	3.69
	COP		/	4.46	4.57		4.34	4.23	4.31	4.27	4.35	4.07	4.14
Dimensions	External dimensions(W/D/H)		mm	(1410/750/1690)+(1410/750/1690)					(1410/750/1690)+(1785/830/1858)				
	Shipping dimensions(W/D/H)		mm	(1515/850/1838)+(1515/850/1838)					(1515/850/1838)+(1886/950/2025)				
Refrigerant	Net weight		kg	325+325	325+365		325+446	325+446	325+496	325+496	365+496	446+446	446+496
	Shipping weight		kg	355+355	355+395		355+481	355+481	355+531	355+531	395+531	481+481	481+531
	Refrigerant type			R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	14.5+14.5	14.5+15.5		14.5+16	14.5+16	14.5+20.5	14.5+20.5	15.5+20.5	16+16	16+20.5
Fan	Air flow (H)		m³/h	36000	37000		45000	45000	45000	45000	46000	54000	54000
	External static pressure		Pa	50	50		50	50	50	50	50	50	50
Pipe	Refrigerant gas pipe		mm	38.1	38.1		38.1	38.1	41.3	41.3	41.3	41.3	41.3
	Refrigerant liquid pipe		mm	19.05	19.05		19.05	19.05	19.05	19.05	19.05	19.05	19.05
Sound	Sound pressure level (H)		dB(A)	65.01	65.01		66.12	66.12	66.12	66.12	66.12	67.01	67.01
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130		50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64		64	64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000		1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220		260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90		110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40		50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30		30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18		18	18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~54									
	Heating		°C	-26~27									

*Pending



Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB,in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVEMS
AV10NMVEMS
AV12NMVEMS
AV14NMVEMS
AV16NMVEMS
AV18NMVEMS

AV20NMVEMS
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AV26NMVEMS
AV28NMVEMS

AV30NMVEMS
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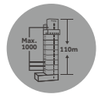
AV38NMVEMS
AV40NMVEMS
AV42NMVEMS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

Hitachi EVI Compressor

Maximum Combination 136HP

Model				AV86NMVEMS	AV88NMVEMS		AV90NMVEMS	AV92NMVEMS	AV94NMVEMS	AV96NMVEMS	AV98NMVEMS
	Combination model			AV24NMVEMS	AV24NMVEMS		AV24NMVEMS	AV24NMVEMS	AV24NMVEMS	AV24NMVEMS	AV26NMVEMS
				AV26NMVEMS	AV28NMVEMS		AV30NMVEMS	AV32NMVEMS	AV34NMVEMS	AV36NMVEMS	AV36NMVEMS
				AV36NMVEMS	AV36NMVEMS		AV36NMVEMS	AV36NMVEMS	AV36NMVEMS	AV36NMVEMS	AV36NMVEMS
				/	/		/	/	/	/	/
Capacity	Capacity range		HP	86	88		90	92	94	96	98
	Cooling		kW	243	249.5		254.5	259.5	265.5	270.5	275.5
	Heating		kW	269.5	277		282	287	293.5	299	306.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60		3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	64.1	66.6		68.05	70.1	70.95	73	74.2
		Rated current	A	107.52	110.52		112.88	116.71	119.24	121.94	123.94
		Max. power input	kW	103.52	103.97		107.36	107.75	112.12	112.38	116.06
		Max. current	A	163.3	164		169.2	169.8	176.5	176.9	178.1
	Heating	Rated power input	kW	61.5	64.64		66.2	68.4	69.1	70.8	71.7
		Rated current	A	103.26	107.31		109.85	113.44	114.57	118.31	119.81
		Max. power input	kW	98.4	100.6		101.7	104.9	106.38	109.5	113.4
		Max. current	A	155.05	158.42		160.11	165.02	167.29	172.08	174.04
	EER		/	3.79	3.75		3.74	3.7	3.74	3.71	3.71
	COP		/	4.38	4.29		4.26	4.2	4.25	4.22	4.27
Dimensions	External dimensions(W/D/H)		mm	(1410/750/1690)+(1410/750/1690)+(1785/830/1858)			(1410/750/1690)+(1785/830/1858)+(1785/830/1858)				
	Shipping dimensions(W/D/H)		mm	(1515/850/1838)+(1515/850/1838)+(1886/950/2025)			(1515/850/1838)+(1886/950/2025)+(1886/950/2025)				
Refrigerant	Net weight		kg	325+365+496	325+365+496		325+446+496	325+446+496	325+496+496	325+496+496	365+496+496
	Shipping weight		kg	355+395+531	355+395+531		355+481+531	355+481+531	355+531+531	355+531+531	395+531+531
	Refrigerant type			R410A	R410A		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	14.5+15.5+20.5	14.5+15.5+20.5		14.5+16+20.5	14.5+16+20.5	14.5+20.5+20.5	14.5+20.5+20.5	15.5+20.5+20.5
Fan	Air flow (H)		m³/h	64000	72000		72000	72000	72000	72000	73000
	External static pressure		Pa	50	50		50	50	50	50	50
Pipe	Refrigerant gas pipe		mm	50.8	50.8		50.8	50.8	50.8	50.8	54.1
	Refrigerant liquid pipe		mm	25.4	25.4		25.4	25.4	25.4	25.4	25.4
Sound	Sound pressure level (H)		dB(A)	67.54	67.85		68.2	68.2	68.2	68.2	68.2
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130		50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64		64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000	1000		1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220		260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90		110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40		50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30		30	30	30	30	30
	Standard drop between I.U. *4		m	18	18		18	18	18	18	18
Working Temp.	Cooling		℃	-5~54							
	Heating		℃	-26~27							

*Pending

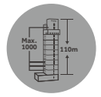
Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVEMS
AV10NMVEMS
AV12NMVEMS
AV14NMVEMS
AV16NMVEMS
AV18NMVEMS

AV20NMVEMS
AV22NMVEMS
AV24NMVEMS
AV26NMVEMS
AV28NMVEMS

AV30NMVEMS
AV32NMVEMS
AV34NMVEMS
AV36NMVEMS
AV38NMVEMS
AV40NMVEMS
AV42NMVEMS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

Hitachi EVI Compressor

Maximum Combination 136HP

Model				AV100NMVEMS		AV102NMVEMS	AV104NMVEMS	AV106NMVEMS	AV108NMVEMS	AV110NMVEMS	AV112NMVEMS
	Combination model			AV32NMVEMS		AV32NMVEMS	AV32NMVEMS	AV34NMVEMS	AV36NMVEMS	AV32NMVEMS	AV32NMVEMS
				AV32NMVEMS		AV34NMVEMS	AV36NMVEMS	AV36NMVEMS	AV36NMVEMS	AV36NMVEMS	AV38NMVEMS
				AV36NMVEMS		AV36NMVEMS	AV36NMVEMS	AV36NMVEMS	AV36NMVEMS	AV42NMVEMS	AV42NMVEMS
				/		/	/	/	/	/	/
Capacity	Capacity range		HP	100		102	104	106	108	110	112
	Cooling		kW	281		287	292	298	303	308.5	314
	Heating		kW	312		318.5	324	330.5	336	344	351
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60		3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	77.3		78.15	80.2	81.05	83.1	87.42	89.42
		Rated current	A	127.91		130.43	133.13	135.66	138.36	143.3	145.06
		Max. power input	kW	115.66		120.03	120.29	124.66	124.92	126.95	132.11
		Max. current	A	177.5		184.2	184.6	191.3	191.7	199.6	209.9
	Heating	Rated power input	kW	76.2		76.9	78.6	79.3	81	84.5	86.7
		Rated current	A	125.12		126.25	129.99	131.13	134.87	137.5	139.61
		Max. power input	kW	115.3		116.78	119.9	121.38	124.5	126.2	130.2
		Max. current	A	176.95		179.22	184.01	186.28	191.07	197.37	207.02
	EER		/	3.64		3.67	3.64	3.68	3.65	3.53	3.51
	COP		/	4.09		4.14	4.12	4.17	4.15	4.07	4.05
Dimensions	External dimensions(W/D/H)		mm	(1785/830/1858)+(1785/830/1858)+(1785/830/1858)				(1785/830/1858)+(1785/830/1858)+(1785/830/1858)			
	Shipping dimensions(W/D/H)		mm	(1886/950/2025)+(1886/950/2025)+(1886/950/2025)				(1886/950/2025)+(1886/950/2025)+(1886/950/2025)			
Refrigerant	Net weight		kg	446+446+496		446+496+496	446+496+496	496+496+496	496+496+496	446+496+496	446+496+496
	Shipping weight		kg	481+481+531		481+531+531	481+531+531	531+531+531	531+531+531	481+531+531	481+531+531
	Refrigerant type			R410A		R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	16+16+20.5		16+20.5+20.5	16+20.5+20.5	20.5+20.5+20.5	20.5+20.5+20.5	16+20.5+20.5	16+20.5+20.5
Fan	Air flow (H)		m³/h	81000		81000	81000	81000	81000	84000	87000
	External static pressure		Pa	50		50	50	50	50	50	50
Pipe	Refrigerant gas pipe		mm	54.1		54.1	54.1	54.1	54.1	54.1	66.7
	Refrigerant liquid pipe		mm	25.4		25.4	25.4	25.4	25.4	25.4	25.4
Sound	Sound pressure level (H)		dB(A)	68.77		68.77	68.77	68.77	68.77	70.54	71.07
Connection Ratio	Connectable indoor unit ratio		%	50~130		50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64		64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000		1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220		260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90		110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40		50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30		30	30	30	30	30	30
	Standard drop between I.U. *4		m	18		18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~54							
	Heating		°C	-26~27							

*Pending

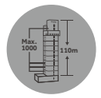
Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVEMS
AV10NMVEMS
AV12NMVEMS
AV14NMVEMS
AV16NMVEMS
AV18NMVEMS

AV20NMVEMS
AV22NMVEMS
AV24NMVEMS
AV26NMVEMS
AV28NMVEMS

AV30NMVEMS
AV32NMVEMS
AV34NMVEMS
AV36NMVEMS
AV38NMVEMS
AV40NMVEMS
AV42NMVEMS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Auto Addressing Indoor Units

Hitachi EVI Compressor

Maximum Combination 136HP

Model				AV114NMVEMS		AV116NMVEMS	AV118NMVEMS	AV120NMVEMS	AV122NMVEMS	AV124NMVEMS	AV126NMVEMS
	Combination model			AV32NMVEMS		AV32NMVEMS	AV34NMVEMS	AV36NMVEMS	AV38NMVEMS	AV40NMVEMS	AV42NMVEMS
				AV40NMVEMS		AV42NMVEMS	AV42NMVEMS	AV42NMVEMS	AV42NMVEMS	AV42NMVEMS	AV42NMVEMS
				AV42NMVEMS		AV42NMVEMS	AV42NMVEMS	AV42NMVEMS	AV42NMVEMS	AV42NMVEMS	AV42NMVEMS
				/		/	/	/	/	/	/
Capacity	Capacity range		HP	114		116	118	120	122	124	126
	Cooling		kW	319.5		325	331	336	341.5	347	352.5
	Heating		kW	355.5		364	370.5	376	383	387.5	396
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60		3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	91.22		94.64	95.49	97.54	99.54	101.34	104.76
		Rated current	A	147.96		153.47	156	158.7	160.45	163.35	168.87
		Max. power input	kW	133.21		133.61	137.98	138.24	143.4	144.5	144.9
		Max. current	A	210.2		214.6	221.3	221.7	232	232.3	236.7
	Heating	Rated power input	kW	88.7		90.4	91.1	92.8	95	97	98.7
		Rated current	A	142.83		145	146.14	149.88	151.99	155.21	157.38
		Max. power input	kW	130.9		132.5	133.98	137.1	141.1	141.8	143.4
		Max. current	A	207.78		210.72	212.99	217.78	227.43	228.19	231.14
	EER		/	3.5		3.43	3.47	3.44	3.43	3.42	3.36
	COP		/	4.01		4.03	4.07	4.05	4.03	3.99	4.01
Dimensions	External dimensions(W/D/H)		mm	(1785/830/1858)+(1785/830/1858)+(1785/830/1858)		(1785/830/1858)+(1785/830/1858)+(1785/830/1858)					
	Shipping dimensions(W/D/H)		mm	(1886/950/2025)+(1886/950/2025)+(1886/950/2025)		(1886/950/2025)+(1886/950/2025)+(1886/950/2025)					
Refrigerant	Net weight		kg	446+496+496		446+496+496	496+496+496	496+496+496	496+496+496	496+496+496	496+496+496
	Shipping weight		kg	481+531+531		481+531+531	531+531+531	531+531+531	531+531+531	531+531+531	531+531+531
	Refrigerant type			R410A		R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	16+20.5+20.5		16+20.5+20.5	20.5+20.5+20.5	20.5+20.5+20.5	20.5+20.5+20.5	20.5+20.5+20.5	20.5+20.5+20.5
Fan	Air flow (H)		m³/h	87000		87000	87000	87000	90000	90000	90000
	External static pressure		Pa	50		50	50	50	50	50	50
Pipe	Refrigerant gas pipe		mm	66.7		66.7	66.7	66.7	66.7	66.7	66.7
	Refrigerant liquid pipe		mm	25.4		25.4	25.4	25.4	25.4	25.4	25.4
Sound	Sound pressure level (H)		dB(A)	71.07		71.8	71.8	71.8	72.2	72.2	72.77
Connection Ratio	Connectable indoor unit ratio		%	50~130		50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64		64	64	64	64	64	64
Pipe Length	Max.total pipe length		m	1000		1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220		260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90		110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40		50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30		30	30	30	30	30	30
	Standard drop between I.U. *4		m	18		18	18	18	18	18	18
Working Temp.	Cooling		°C	-5~54							
	Heating		°C	-26~27							

*Pending

Max drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

MRV 5 T1
DC INVERTER

117 Features & Benefits
123 MRV 5 Outdoor
137 Dimensions

Advanced Technology | High Efficiency | Super Comfort | Easy Installation

Advanced Technology

Smart link

Wireless connection and communication between indoor units.

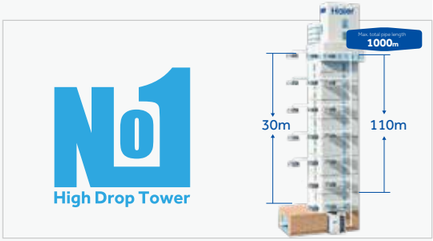
- Labor saving
- Automatic network connection
- Convenient maintenance
- Stable performance
- Total cost saving is about 30%

Advanced Technology

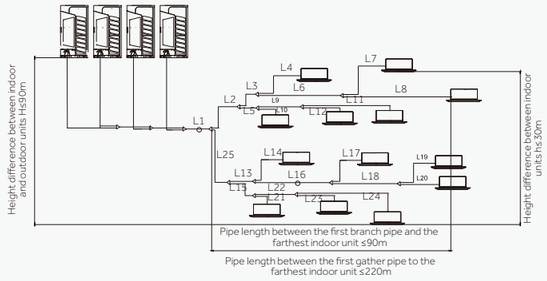
Total pipe length 1000m, height drop 110m

- Max. total pipe length 1000m
- Max. actual pipe length 220m
- Max. equivalent pipe length 260m
- Max. drop between IDU&ODU / 90m (outdoor unit up) / 110m (outdoor unit down)
- Max. drop between IDU&IDU 30m*

* if the total pipe length is between 300m and 1100m or the drop between IDU and ODU more than 50m, please contact your local dealer.



Allowable pipe length and height difference between Indoor and outdoor unit (outdoor unit above)



Pipe length and height difference (m)		Allowable value	For example
Single way total pipe length		≤1000	L1+2*=(L2+L3+L5+L6+L9+L13+L15+L16+L18 +L22+L25)+L4+L7+L8+L10+L11+L12+L14 +L17+L19+L20+L21+L23+L24
Pipe length between the first gather pipe to the farthest indoor unit	Actual length	≤220*1	L1+L2+L3+L6+L8
	Equivalent length	≤260	
Pipe length between the first gather pipe and the first branch pipe(main pipe)		≤130	L1
Pipe length between the first branch pipe and the farthest indoor unit		≤90*2	L2+L3+L6+L8
Pipe length between indoor units and the nearest branch pipe		≤40*3	L4/L7/L8/L10/L11/L12/L14/L17/ L19/L20/L21/L23/L24
Pipe length difference between the nearest indoor unit and the farthest indoor unit		≤40	L2+L3+L6+L8-L2-L5-L10
Height difference between indoor and outdoor units	Outdoor unit above	≤90*4	H
	Outdoor unit under	≤110*5	
Height difference between indoor units		≤30*6	h

*1. Standard length≤90m, if>90m, englarge the pipe diameter as pipe "C" diameter rules.

*2. Standard length≤40m, if>40m, the pipe between the first branch and the farthest indoor unit need to enlarge one size(refer to pipe "A" & "B" diameter rules).

*3. Standard length≤15m, if>15m, the pipe between indoor units and the nearest branch pipe need to enlarge one size(refer to pipe "A" diameter rules).

*4. Standard height difference≤50m, if 50m<×≤70m, need meet following conditions.

1) Indoor rated capacity/outdoor corrected capacity≤130%.

2) Set long pipe mode from outdoor PCB.

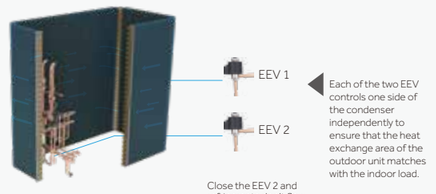
3) Gas pipe and liquid pipe of main pipe need to enlarge one size, refer to pipe "C" diameter rules.

4) If single way total pipe length>500m, need to add compressor oil 0.3L/100m(pipe length less than 100m, count as 100m). For example, if the total pipe length is 620m, then we should add 0.6L compressor oil.

If>70m, please contact the local qulified serviceman or supplier. (If>70m, there is same warning in selection software poping up).

Design of control condenser with electronic expansion valve

The condenser is controlled by two electronic expansion valves respectively, which can reasonably use the heat exchanger area according to the demand of IDU heat exchange temperature, distribute the refrigerant flow according to the load demand, to ensure high-performance heat exchange efficiency.



* Class 3000 EEV customized for outdoor unit and Class 2000 EEV customized for indoor unit

Smart

Cloud service

Through the internet cloud service protocol module, the operating data of MRV can be collected to the cloud service center via 4G and ethernet, thereby achieving remote monitoring, fault alarm, energy consumption analysis and historical error.

*Available in some regions

In addition, all the above function can be used via the smart APP. It's more convenient.

Fault alarm
During operating, real-time prediction can be made according to the operation condition of the unit, and early alarm will be given for possible faults.

Historical error
When some errors occur, installers can check the error records, including the fault time and reason, and quickly give response.

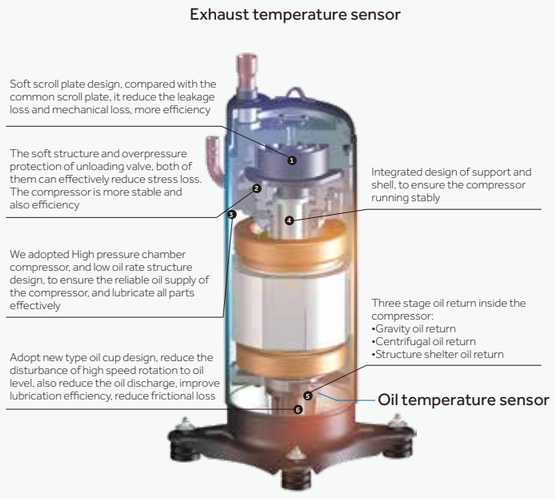
Remote monitoring
Haier intelligent cloud service realizes remote real-time monitoring of unit operation data, including instantaneous load and power input,IDU operating state and so on.

Energy consumption statistics
The bar chart shows the statistics of power consumption in the last seven days. you can query the data in the last 30 days and one year.

High Efficiency

Supper efficiency with full DC inverter compressor

Matches up inverter with step less compressor, the durability and stability of the compressor are guaranteed, fault can be reduced.



Each compressor is adopted oil temperature sensor and the discharge temperature sensor, detecting the discharge temperature and oil temperature of compressor, cooperated with the compressor frequency and the EEV control, to ensure exhaust heat and oil temperature superheat kept within the optimal range. ensure that the oil dilution is maintained at a safe level at all times.

High Efficiency

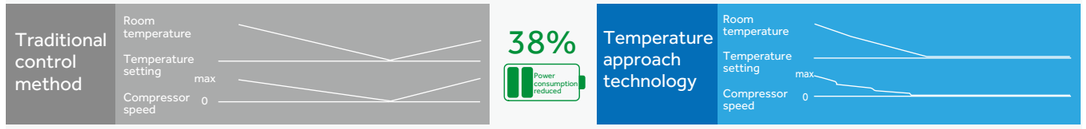
Speedless inverter DC-motor

Outdoor unit matches efficient variable-speed DC-motor. drived by sine wave, wider efficiency range and torque range, motor efficiency is increased by 17%. Air fan of outdoor unit can achieve 0~91Hz stepless frequency.

New one-piece of four-way heat exchanger

Temperature approaching technology

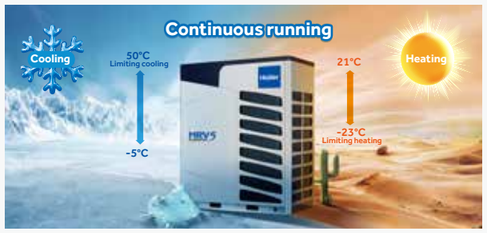
The main problem of an ordinary inverter VRF system lies in that its compressor starts and stops frequently, stopping when the room temperature reaches the setting temperature and restarting when the same becomes higher than the setting temperature. Though the inverter technology has improved such a problem greatly, the energy consumption caused by system restart is still a problem that cannot be ignored.
Haier MRV 5 series units adopts the temperature approaching technology, which enables the VRF system to maintain a low-frequency operating state all the time when the room temperature is close to the setting temperature but don't reach the setting temperature, thus avoiding the energy waste caused by frequent on/off.



Super Comfort

Wide operation temperature

The heating operation temperature can be as low as -23°C, and the heating is more powerful in winter. The cooling operation temperature can reach 50°C, better in summer.



Precise temperature control at ±0.5°C

With twin pressure sensors and twin EEVS, the refrigerant volume can be adjusted automatically to realize precise temperature control, improving indoor comfort.

Super Comfort

Intelligent triple backup operation technology

•For the double-compressor system, when one compressor breakdown, the other compressor can be put into backup operation immediately to ensure the user needs.
•For the multi-module combination, in case of breakdown of one outdoor unit, this unit can be interrupted from the system so that the other modules can continue to operate.
•Super-long backup operation time, which can reach up to 8 hours.

Multiple modes available to meet the needs of different users

Operation mode:
Cooling priority, heating priority, cooling only, heating only, and VIP priority

Silent mode:
Seven-position silent mode available (nighttime silent mode and six-position silent mode)

Static pressure mode:
No static pressure mode, low static pressure mode, medium static pressure mode, and high static pressure mode

Rotary electric control box design

Rotary electric control box design, while maintaining the internal space, maintainer only need to rotate the box, do not need to dismantle the box, easy and fast maintenance.

Easy Installation

4-way pipe connection

You can freely choose the front, back, left side, right side of the unit to connect the pipe, easy to install and design.

Easy Installation

Auto addressing indoor units

The ODU can automatically address to the indoor unit through the module on PCB, and the controller can search and set the address of the indoor unit, more convenient.

Automatic oil balancing

Without oil balancing pipe, the oil is balanced automatically. This simplifies system design and improves reliability.

Automatic snow clearing and dust removal function

According to the ash accumulation on the outdoor heat exchanger, the unit will blow away the dust, according to the reverse operation of the fan.

Piping refrigerant storage technology

Advanced refrigerant control technology, the refrigerant is stored in the indoor and outdoor machine piping, remove the high pressure tank, less refrigerant filling in unit, high efficiency.

110Pa external static pressure design

The static pressure of the air outlet is up to 110Pa, which can meet the cooling effect of the layered arrangement of the outdoor unit.

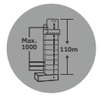
Installation of duct

The outdoor unit is hidden inside the building without affecting the overall image of the building

AV08IMVEVS
AV10IMVEVS
AV12IMVEVS
AV14IMVEVS
AV16IMVEVS

AV18IMVEVS
AV20IMVEVS
AV22IMVEVS
AV24IMVEVS
AV26IMVEVS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor units

Better Cooling Capacity

Model				AV08IMVEVS	AV10IMVEVS	AV12IMVEVS	AV14IMVEVS	AV16IMVEVS
	Combination model			/	/	/	/	/
				/	/	/	/	/
				/	/	/	/	/
				/	/	/	/	/
Capacity	Capacity range		HP	8	10	12	14	16
	Cooling		kW	25.2	28.0	33.5	40.0	45.0
	Heating		kW	27.0	31.5	37.5	45.0	50.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	5.60	6.80	8.40	10.90	11.80
		Max. power input	kW	12.000	12.900	13.800	16.400	19.200
		Rated current	A	9.45	11.48	14.18	18.40	19.92
		Max. current	A	20.26	21.78	23.30	27.69	32.41
	Heating	Rated power input	kW	5.20	6.30	8.00	10.30	11.20
		Max. power input	kW	10.90	12.20	12.50	15.10	18.40
		Rated current	A	8.78	10.64	13.51	17.39	18.91
		Max. current	A	16.20	18.50	21.10	25.49	31.06
	EER		W/W	4.50	4.12	3.99	3.67	3.81
	COP		W/W	5.19	5.00	4.69	4.37	4.46
Performance	Air flow (H)		m³/h	11000	11000	12000	13500	13500
	Sound pressure level (H)		dB(A)	56	56	59	59	60
	Sound power level (H)		dB(A)	67	67	70	70	71
Installation	External dimensions(W/D/H)		mm	980/750/1690		980/750/1690	980/750/1690	
	Shipping dimensions(W/D/H)		mm	1070/850/1858		1070/850/1858	1070/850/1858	
	Net/Shipping weight		kg	224/250		224/250	244/270	
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1INV	1INV	1INV	1INV	1INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	8.5	8.5	8.5	10	10
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	12.7
	Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4	28.58
	Max.total pipe lenth		m	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			13	16	20	24	27
Working Temp.	Cooling		°C	-5~50			-5~50	
	Heating		°C	-23~21			-23~21	

Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

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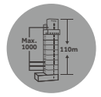
AV26IMVEVS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

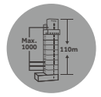
Model				AV18IMVEVS	AV20IMVEVS	AV22IMVEVS	AV24IMVEVS	AV26IMVEVS	AV28IMVEVS	AV30IMVEVS	AV32IMVEVS
	Combination model			/	/	/	/	/	AV14IMVEVS	AV14IMVEVS	AV16IMVEVS
				/	/	/	/	/	AV14IMVEVS	AV16IMVEVS	AV16IMVEVS
				/	/	/	/	/			
				/	/	/	/	/			
Capacity	Capacity range		HP	18	20	22	24	26	28	30	32
	Cooling		kW	50.4	56.0	61.5	68.0	73.5	80.0	85.0	90.0
	Heating		kW	56.5	61.5	69.0	73.0	82.5	90.0	95.0	100.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	14.30	15.10	16.50	17.60	18.80	21.80	22.70	23.60
		Max. power input	kW	21.400	25.100	28.500	29.100	33.000	32.800	35.600	38.400
		Rated current	A	24.14	25.49	27.86	29.71	31.74	36.80	38.32	39.84
		Max. current	A	36.13	42.37	48.11	49.13	55.80	55.37	60.10	64.83
	Heating	Rated power input	kW	13.40	14.60	15.40	16.80	17.70	20.60	21.50	22.40
		Max. power input	kW	17.70	22.70	25.50	26.50	30.40	30.20	33.50	36.80
		Rated current	A	22.62	24.65	26.00	28.36	29.88	34.78	36.30	37.82
		Max. current	A	29.88	38.32	43.05	44.74	51.32	50.98	56.55	62.13
	EER		W/W	3.52	3.71	3.73	3.86	3.91	3.67	3.74	3.81
	COP		W/W	4.22	4.21	4.48	4.35	4.66	4.37	4.42	4.46
Performance	Air flow (H)		m³/h	17000	17000	18000	18000	19000	27000	27000	27000
	Sound pressure level (H)		dB(A)	61	61	61	62	62	62	62.5	63
	Sound power level (H)		dB(A)	72	72	72	73	73	73	73.5	74
Installation	External dimensions(W/D/H)		mm	1410/750/1690			1410/750/1690		980/750/1690+980/750/1690		
	Shipping dimensions(W/D/H)		mm	1515/850/1858			1515/850/1858		1070/850/1858+1070/850/1858		
	Net/Shipping weight		kg	287/317	350/377		370/400		244/270+244/270	244/270+244/270	244/270+244/270
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1INV	2INV	2INV	2INV	2INV	2INV	2INV	2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	10	10	20	20	20
	Refrigerant liquid pipe		mm	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05
	Refrigerant gas pipe		mm	28.58	28.58	28.58	28.58	28.58	28.58	31.8	31.8
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			30	33	36	40	43	47	50	53
Working Temp.	Cooling		℃	-5~50			-5~50				
	Heating		℃	-23~21			-23~21				

Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVEVS
AV10IMVEVS
AV12IMVEVS
AV14IMVEVS
AV16IMVEVS

AV18IMVEVS
AV20IMVEVS
AV22IMVEVS
AV24IMVEVS
AV26IMVEVS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

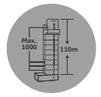
Model				AV34IMVEVS	AV36IMVEVS	AV38IMVEVS	AV40IMVEVS	AV42IMVEVS	AV44IMVEVS	AV46IMVEVS
	Combination model			AV16IMVEVS	AV18IMVEVS	AV18IMVEVS	AV20IMVEVS	AV20IMVEVS	AV22IMVEVS	AV22IMVEVS
				AV18IMVEVS	AV18IMVEVS	AV20IMVEVS	AV20IMVEVS	AV22IMVEVS	AV22IMVEVS	AV24IMVEVS
				/	/	/	/	/	/	/
				/	/	/	/	/	/	/
Capacity	Capacity range		HP	34	36	38	40	42	44	46
	Cooling		kW	95.4	100.8	106.4	112.0	117.5	123.0	129.5
	Heating		kW	106.5	113.0	118.0	123.0	130.5	138.0	142.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	26.10	28.60	29.40	30.20	31.60	33.00	34.10
		Max. power input	kW	40.600	42.800	46.500	50.200	53.60	57.00	57.60
		Rated current	A	44.06	48.28	49.63	50.98	53.35	55.71	57.57
		Max. current	A	68.54	72.26	78.50	84.75	90.49	96.23	97.24
	Heating	Rated power input	kW	24.60	26.80	28.00	29.20	30.00	30.80	32.20
		Max. power input	kW	36.10	35.40	40.40	45.40	48.20	51.00	52.00
		Rated current	A	41.53	45.24	47.27	49.30	50.65	52.00	54.36
		Max. current	A	60.94	59.76	68.20	76.64	81.37	86.10	87.79
	EER		W/W	3.66	3.52	3.62	3.71	3.72	3.73	3.80
	COP		W/W	4.33	4.22	4.21	4.21	4.35	4.48	4.41
Performance	Air flow (H)		m³/h	30500	34000	34000	34000	35000	36000	36000
	Sound pressure level (H)		dB(A)	63.5	64	64	64	64	64	64.5
	Sound power level (H)		dB(A)	74.5	75	75	75	75	75	
Installation	External dimensions(W/D/H)		mm	980/750/1690+1410/750/1690	1410/750/1690+1410/750/1690					
	Shipping dimensions(W/D/H)		mm	1070/850/1858+1515/850/1858	1515/850/1858+1515/850/1858					
	Net/Shipping weight		kg	244/270+287/317	287/317+287/317	287/317+370/400	370/400+370/400	370/400+370/400	370/400+370/400	370/400+370/400
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			2INV	2INV	3INV	4INV	4INV	4INV	4INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	20	20	20	20	20	20	20
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.8	38.1	38.1	38.1	38.1	38.1	38.1
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			56	59	63	64	64	64	64
Working Temp.	Cooling		°C	-5~50	-5~50					
	Heating		°C	-23~21	-23~21					

Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB;in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVEVS
AV10IMVEVS
AV12IMVEVS
AV14IMVEVS
AV16IMVEVS

AV18IMVEVS
AV20IMVEVS
AV22IMVEVS
AV24IMVEVS
AV26IMVEVS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

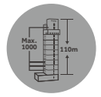
Model				AV48IMVEVS	AV50IMVEVS	AV52IMVEVS	AV54IMVEVS	AV56IMVEVS	AV58IMVEVS	AV60IMVEVS	AV62IMVEVS
	Combination model			AV24IMVEVS	AV24IMVEVS	AV26IMVEVS	AV18IMVEVS	AV18IMVEVS	AV18IMVEVS	AV20IMVEVS	AV22IMVEVS
				AV24IMVEVS	AV26IMVEVS	AV26IMVEVS	AV18IMVEVS	AV18IMVEVS	AV20IMVEVS	AV20IMVEVS	AV20IMVEVS
				/	/	/	AV18IMVEVS	AV20IMVEVS	AV20IMVEVS	AV20IMVEVS	AV20IMVEVS
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	48	50	52	54	56	58	60	62
	Cooling		kW	136.0	141.5	147.0	151.2	156.8	162.4	168.0	173.5
	Heating		kW	146.0	155.5	165.0	169.5	174.5	179.5	184.5	192.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	35.20	36.40	37.60	42.90	43.70	44.50	45.30	46.70
		Max. power input	kW	58.20	62.10	66.00	64.20	67.90	71.60	75.30	78.70
		Rated current	A	59.42	61.45	63.48	72.42	73.77	75.13	76.48	78.84
		Max. current	A	98.25	104.93	111.60	108.38	114.63	120.88	127.12	132.86
	Heating	Rated power input	kW	33.60	34.50	35.40	40.20	41.40	42.60	43.80	44.60
		Max. power input	kW	53.00	56.90	60.80	53.10	58.10	63.10	68.10	70.90
		Rated current	A	56.72	58.24	59.76	67.87	69.89	71.92	73.94	75.29
		Max. current	A	89.48	96.06	102.64	89.64	98.08	106.53	114.97	119.69
	EER		W/W	3.86	3.89	3.91	3.52	3.59	3.65	3.71	3.72
	COP		W/W	4.35	4.51	4.66	4.22	4.21	4.21	4.21	4.30
Performance	Air flow (H)		m³/h	36000	37000	38000	51000	51000	51000	51000	52000
	Sound pressure level (H)		dB(A)	65	65	65	65.8	65.8	65.8	65.8	65.8
	Sound power level (H)		dB(A)	76	76	76	76.5	76.5	76.5	76.5	76.5
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858		1515/850/1858+1515/850/1858		1515/850/1858+1515/850/1858+1515/850/1858			
	Net/Shipping weight		kg	370/400+370/400		370/400+370/400	287/317+287/317+287/317	287/317+287/317+370/400	287/317+370/400+370/400	370/400+370/400+370/400	
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			4INV	4INV	4INV	3INV	4INV	5INV	6INV	6INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	20	20	20	30	30	30	30	30
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	38.1	41.3	41.3	41.3
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~50				-5~50			
	Heating		°C	-23~21				-23~21			

Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVEVS
AV10IMVEVS
AV12IMVEVS
AV14IMVEVS
AV16IMVEVS

AV18IMVEVS
AV20IMVEVS
AV22IMVEVS
AV24IMVEVS
AV26IMVEVS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

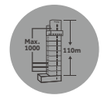
Model				AV64IMVEVS	AV66IMVEVS	AV68IMVEVS	AV70IMVEVS	AV72IMVEVS	AV74IMVEVS	AV76IMVEVS	AV78IMVEVS
	Combination model			AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV24IMVEVS	AV26IMVEVS	AV26IMVEVS	AV26IMVEVS
				AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV26IMVEVS	AV26IMVEVS
				AV20IMVEVS	AV22IMVEVS	AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV26IMVEVS
				/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	64	66	68	70	72	74	76	78
	Cooling		kW	179.0	184.5	191.0	197.5	204.0	209.5	215.0	220.5
	Heating		kW	199.5	207.0	211.0	215.0	219.0	228.5	238.0	247.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	48.10	49.50	50.60	51.70	52.80	54.00	55.20	56.40
		Max. power input	kW	82.10	85.50	86.10	86.70	87.30	91.20	95.10	99.00
		Rated current	A	81.20	83.57	85.42	87.28	89.14	91.16	93.19	95.21
		Max. current	A	138.60	144.34	145.35	146.37	147.38	154.05	160.73	167.40
	Heating	Rated power input	kW	45.40	46.20	47.60	49.00	50.40	51.30	52.20	53.10
		Max. power input	kW	73.70	76.50	77.50	78.50	79.50	83.40	87.30	91.20
		Rated current	A	76.64	78.00	80.36	82.72	85.09	86.61	88.12	89.64
		Max. current	A	124.42	129.15	130.84	132.52	134.21	140.80	147.38	153.96
	EER		W/W	3.72	3.73	3.77	3.82	3.86	3.88	3.89	3.91
	COP		W/W	4.39	4.48	4.43	4.39	4.35	4.45	4.56	4.66
Performance	Air flow (H)		m³/h	53000	54000	54000	54000	54000	55000	56000	57000
	Sound pressure level (H)		dB(A)	65.8	65.8	66	66.5	66.8	66.8	66.8	66.8
	Sound power level (H)		dB(A)	76.5	76.5	77	77.5	77.8	77.8	77.8	77.7
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690				1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858				1515/850/1858+1515/850/1858+1515/850/1858			
	Net/Shipping weight		kg	370/400+370/400+370/400				370/400+370/400+370/400			
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			6INV	6INV	6INV	6INV	6INV	6INV	6INV	6INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	30	30	30	30	30	30	30	30
	Refrigerant liquid pipe		mm	19.05	19.05	22.2	22.2	22.2	22.2	22.2	22.2
	Refrigerant gas pipe		mm	41.3	41.3	44.5	44.5	44.5	44.5	44.5	44.5
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~50				-5~50			
	Heating		°C	-23~21				-23~21			

Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB,in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVEVS
AV10IMVEVS
AV12IMVEVS
AV14IMVEVS
AV16IMVEVS

AV18IMVEVS
AV20IMVEVS
AV22IMVEVS
AV24IMVEVS
AV26IMVEVS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

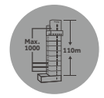
Model				AV80IMVEVS	AV82IMVEVS	AV84IMVEVS	AV86IMVEVS	AV88IMVEVS	AV90IMVEVS	AV92IMVEVS
	Combination model			AV20IMVEVS	AV20IMVEVS	AV20IMVEVS	AV20IMVEVS	AV22IMVEVS	AV24IMVEVS	AV24IMVEVS
				AV20IMVEVS	AV20IMVEVS	AV20IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV24IMVEVS
				AV20IMVEVS	AV20IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS
				AV20IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS	AV22IMVEVS
Capacity	Capacity range		HP	80	82	84	86	88	90	92
	Cooling		kW	224.0	229.5	235.0	240.5	246.0	252.5	259.0
	Heating		kW	246.0	253.5	261.0	268.5	276.0	280.0	284.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling	Rated power input	kW	60.40	61.80	63.20	64.60	66.00	67.10	68.20
		Max. power input	kW	100.40	103.80	107.20	110.60	114.00	114.60	115.20
		Rated current	A	101.97	104.33	106.69	109.06	111.42	113.28	115.14
		Max. current	A	169.50	175.24	180.98	186.72	192.46	193.47	194.48
	Heating	Rated power input	kW	58.40	59.20	60.00	60.80	61.60	63.00	64.40
		Max. power input	kW	90.80	93.60	96.40	99.20	102.00	103.00	104.00
		Rated current	A	98.59	99.94	101.29	102.64	103.99	106.36	108.72
		Max. current	A	153.29	158.02	162.74	167.47	172.20	173.89	175.57
	EER		W/W	3.71	3.71	3.72	3.72	3.73	3.76	3.80
	COP			4.21	4.28	4.35	4.42	4.48	4.44	4.41
Performance	Air flow (H)			68000	69000	70000	71000	72000	72000	72000
	Sound pressure level (H)		W/W	67	67	67	67	67	67.5	67.5
	Sound power level (H)		m³/h	78	78	78	78	78	78.5	78.5
Installation	External dimensions(W/D/H)		dB(A)	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		dB(A)	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858			1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858			
	Net/Shipping weight		mm	370/400+370/400+370/400+370/400			370/400+370/400+370/400+370/400			
	Compressor type		mm	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		kg	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			8INV	8INV	8INV	8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	40	40	40	40	40	40	40
	Refrigerant liquid pipe		mm	22.2	22.2	22.2	25.4	25.4	25.4	25.4
	Refrigerant gas pipe		mm	44.5	44.5	44.5	50.8	50.8	50.8	50.8
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~50			-5~50			
	Heating		°C	-23~21			-23~21			

Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08IMVEVS
AV10IMVEVS
AV12IMVEVS
AV14IMVEVS
AV16IMVEVS

AV18IMVEVS
AV20IMVEVS
AV22IMVEVS
AV24IMVEVS
AV26IMVEVS

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

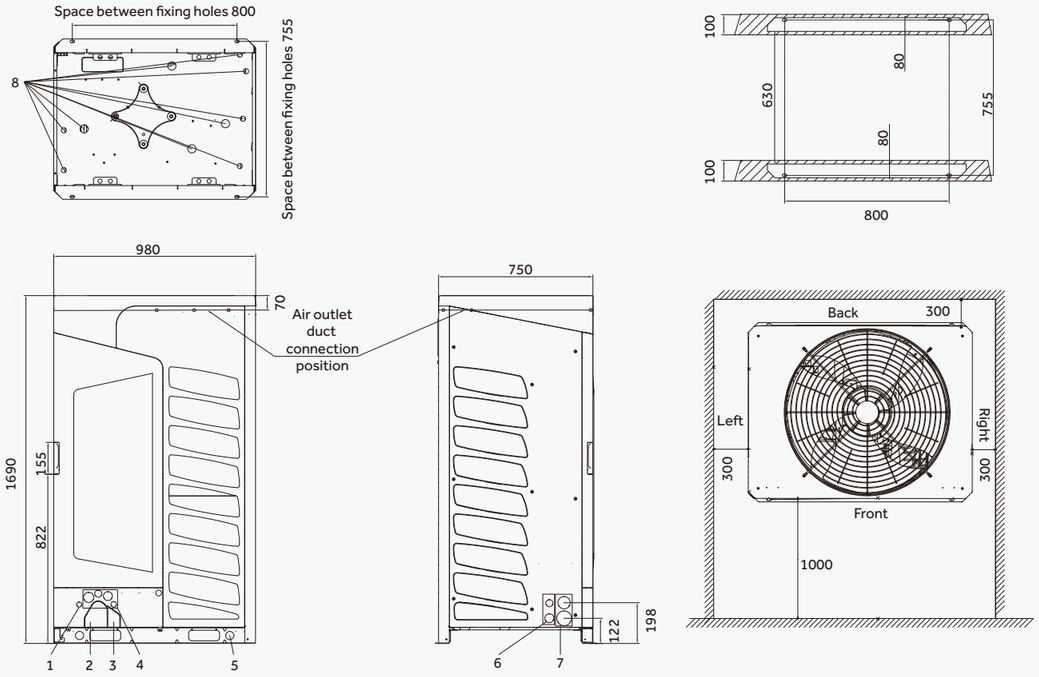
Model				AV94IMVEVS	AV96IMVEVS	AV98IMVEVS	AV100IMVEVS	AV102IMVEVS	AV104IMVEVS
	Combination model			AV24IMVEVS	AV24IMVEVS	AV26IMVEVS	AV26IMVEVS	AV26IMVEVS	AV26IMVEVS
				AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV26IMVEVS	AV26IMVEVS	AV26IMVEVS
				AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV26IMVEVS	AV26IMVEVS
				AV22IMVEVS	AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV24IMVEVS	AV26IMVEVS
Capacity	Capacity range		HP	94	96	98	100	102	104
	Cooling		kW	265.5	272.0	277.5	283.0	288.5	294.0
	Heating		kW	288.0	292.0	301.5	311.0	320.5	330.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	69.30	70.40	71.60	72.80	74.00	75.20
		Max. power input	kW	115.80	116.40	120.30	124.20	128.10	132.00
		Rated current	A	116.99	118.85	120.88	122.90	124.93	126.95
		Max. current	A	195.49	196.51	203.18	209.85	216.53	223.20
	Heating	Rated power input	kW	65.80	67.20	68.10	69.00	69.90	70.80
		Max. power input	kW	105.00	106.00	109.90	113.80	117.70	121.60
		Rated current	A	111.08	113.45	114.97	116.49	118.01	119.53
		Max. current	A	177.26	178.95	185.53	192.12	198.70	205.29
	EER		W/W	3.83	3.86	3.88	3.89	3.90	3.91
	COP		W/W	4.38	4.35	4.43	4.51	4.59	4.66
Performance	Air flow (H)		m³/h	72000	72000	73000	74000	75000	76000
	Sound pressure level (H)		dB(A)	68	68	68	68	68	68
	Sound power level (H)		dB(A)	78.8	79	79	79	79	79
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858		1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858			
	Net/Shipping weight		kg	370/400+370/400+370/400+370/400		370/400+370/400+370/400+370/400			
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			8INV	8INV	8INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	40	40	40	40	40	40
	Refrigerant liquid pipe		mm	25.4	25.4	25.4	25.4	25.4	25.4
	Refrigerant gas pipe		mm	50.8	50.8	54.1	54.1	54.1	54.1
	Max.total pipe lenth		m	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~50			-5~50		
	Heating		°C	-23~21			-23~21		

Max drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB;in heating, outdoor Temp. is 7°C DB/6°CWB)

Dimensions

AV08IMVEVS AV10IMVEVS AV12IMVEVS AV14IMVEVS AV16IMVEVS

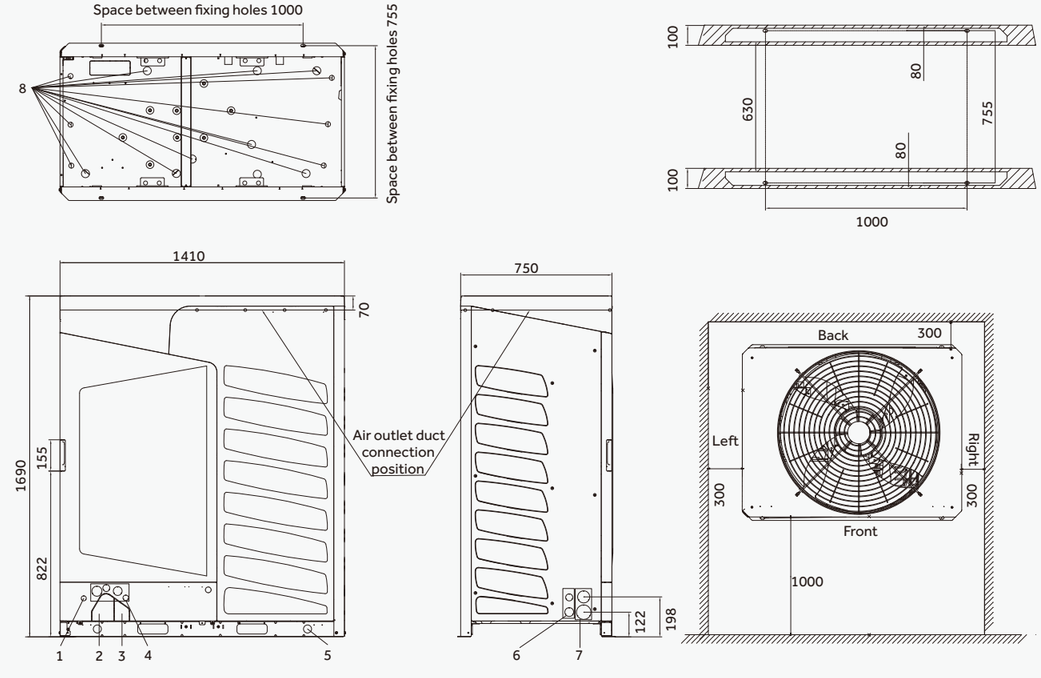
Unit:mm



No.	Name	Remark
1	Signal line hole Ø25	Using the rubber plug in the unit's attachment for protection
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	According to the wire diameter size to choose the appropriate line hole,and using the line sheath in the unit's attachment for protection
5	Hoisting hole	
6	Power supply of signal line hole	
7	Refrigerant pipe outlet	
8	Drain hole	

AV18IMVEVS AV20IMVEVS AV22IMVEVS AV24IMVEVS AV26IMVEVS

Unit:mm



No.	Name	Remark
1	Signal line hole Ø25	Using the rubber plug in the unit's attachment for protection
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	According to the wire diameter size to choose the appropriate line hole,and using the line sheath in the unit's attachment for protection
5	Hoisting hole	
6	Power supply of signal line hole	
7	Refrigerant pipe outlet	
8	Drain hole	

MRV 5-C T1
DC INVERTER

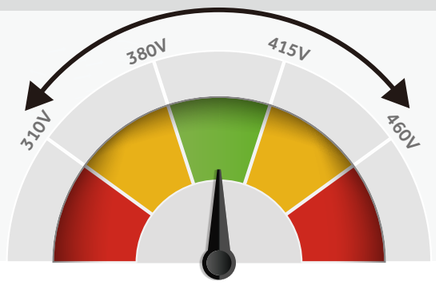
141 Features & Benefits

146 MRV 5-C Outdoor

Advanced Technology

Wide voltage operation

The new MRV 5-C adopt wide voltage filter board, this can insure the unit stable working in voltage range between 310V~460V(note: outdoor unit).



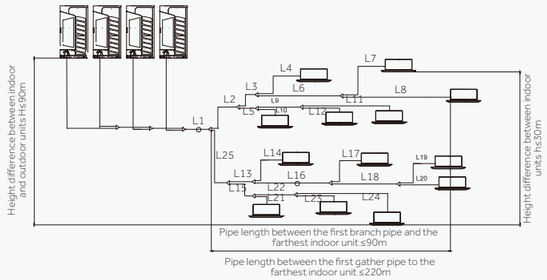
Advanced Technology

Total pipe length 1000m, height drop 110m

- Max. total pipe length 1000m
- Max. actual pipe length 220m
- Max. equivalent pipe length 260m
- Max. drop between IDU&ODU / 90m (outdoor unit up) / 110m (outdoor unit down)
- Max. drop between IDU&IDU 30m*

* if the total pipe length is between 300m and 1100m or the drop between IDU and ODU more than 50m, please contact your local dealer.

2.Allowable plpe length and helght dIfference between indoor and outdoor unit (outdoor unit above)

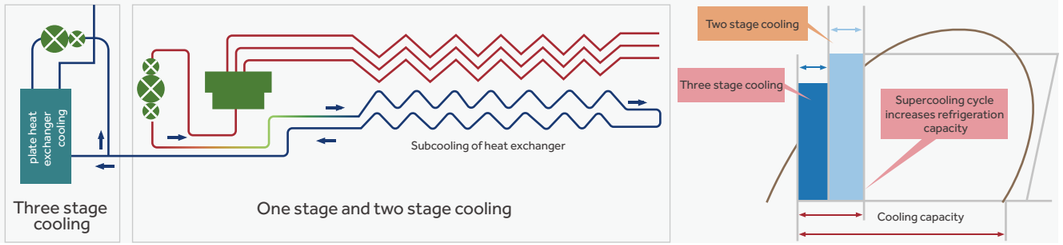


Pipe length and height difference (m)		Allowable value	For example
Single way total pipe length		≤1000	L1+2*+(L2+L3+L5+L6+L9+L13+L15+L16+L18+L22+L25)+L4+L7+L8+L10+L11+L12+L14+L17+L19+L20+L21+L23+L24
Pipe length between the first gather pipe to the farthest indoor unit	Actual length	≤260	L1+L2+L3+L6+L8
	Equivalent length	≤130	
Pipe length between the first gather pipe and the first branch pipe(main pipe)		≤90*2	L1
Pipe length between the first branch pipe and the farthest indoor unit		≤40*2	L2+L3+L6+L8
Pipe length between indoor units and the nearest branch pipe		≤40	L4/L7/L8/L10/L11/L12/L14/L17/ L19/L20/L21/L23/L24
Pipe length difference between the nearest indoor unit and the farthest indoor unit		≤90*4	L2+L3+L6+L8-L2-L5-L10
Height difference between indoor and outdoor units	Outdoor unit above	≤110*5	H
	Outdoor unit under		
Height difference between indoor units		≤30*6	h

*1. Standard length≤90m, if>90m, englarge the pipe diameter as pipe “C” diameter rules.
*2. Standard length≤40m, if>40m, the pipe between the first branch and the farthest indoor unit need to enlarge one size(refer to pipe “A” & “B” diameter rules).
*3. Standard length≤15m, if>15m, the pipe between indoor units and the nearest branch pipe need to enlarge one size (refer to pipe “A” diameter rules).
*4. Standard height difference≤50m, if 50m<×≤70m, need meet following conditions.
1) Indoor rated capacity/outdoor corrected capacity≤130%.
2) Set long pipe mode from outdoor PCB.
3) Gas pipe and liquid pipe of main pipe need to enlarge one size, refer to pipe “C” diameter rules.
4) If single way total pipe length>500m, need to add compressor oil 0.3L/100m(pipe length less than 100m, count as 100m).
For example, if the total pipe length is 620m, then we should add 0.6L compressor oil.
If>70m, please contact the local qulified serviceman or supplier(If>70m, there is same warning in selection software poping up).

Three stage cooling

Adopt three-stage subcooling cycle technology
- Three-stage subcooling cycle technology, increased unit efficiency by 9%.
- Maximizing 30°C subcooling, increase unit refrigerating capacity by 46%.



One stage cooling　　Two stage cooling　　Three stage cooling

Advanced Technology

Directly refrigerant cooling PCB

Traditional refrigerant cooling: firstly copper tube cooling fin, then the fin cooling compressor drive module. three layers of heat resistance heat exchange, cause large cold loss.
Haier directly refrigerant cooling:refrigerant directly into the fin interior, the fin cooling compressor drive module, reduce a layer of heat resistance. under the same operating condition, the temperature of the compressor drive module is lowered by 8°C, to ensure that the whole unit can continue to work under the high temperature of 53 °C.
*Integral design, the heat fin and PCB board fit more closely, high cooling efficiency. there will be no condensation, more safety

Competitive refrigerant heat dissipation

Directly cooling PCB technology:
Cooling refrigerant in to the heat exchanger pipe directly, then the heat exchanger pipe cooled the compressor driver module. reduce heat loss, high cooling effect.

Haier direct cooling refrigerant heat dissipation

High Efficiency

New one-piece of four-way heat exchanger

DC inverter compressor

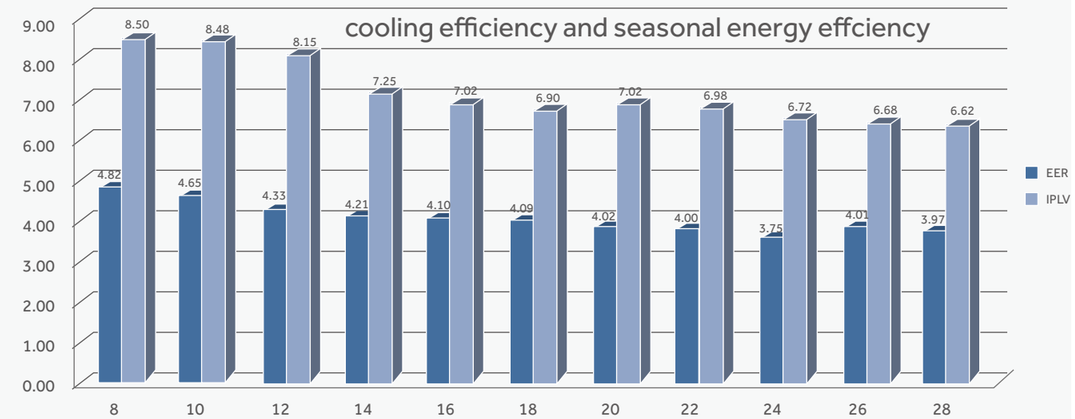
•Adopt double rotor compressor, high efficiency in low frequency, bring better seasonal energy efficiency
•The efficient oil separation design of the compressor improves the performance of separating oil and refrigerant.
•The compressor adopts the movement of oil pipe design, increase the oil volume, at the same time also suck the oil at the bottom when lack of oil.
•The compressor adopts steel crankshaft (originally cast iron crankshaft) to increase the hardness and reliability, reduce the noise.

High Efficiency

DC fan motor

Outdoor unit matches efficient variable-speed DC-motor. drived by sine wave, wider efficiency range and torque range, motor efficiency is increased by 17%. Air fan of outdoor unit can achieve 0~91Hz stepless frequency.

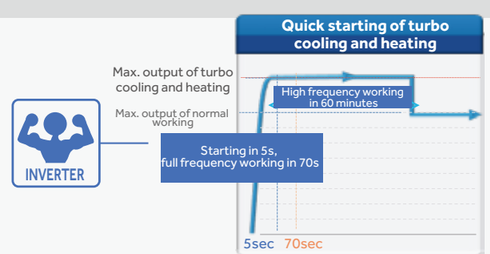
IPLV up to 8.5 (8HP), EER up to 4.82 (8HP)



Super Comfort

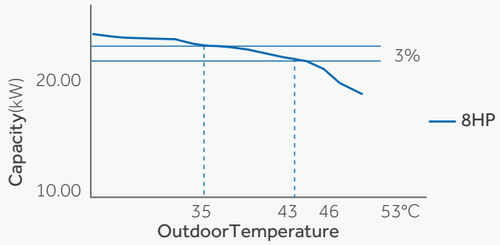
Quick cooling

Start up and reaching maximum output in short time, realize quick cooling.



High temperature performance

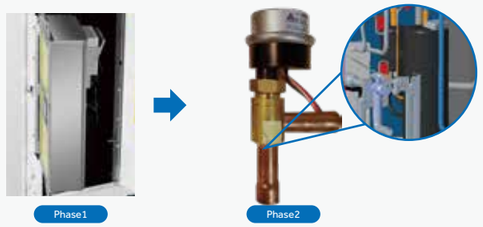
Stable performance in high temperature condition, insure the user comfortable experience. The cooling capacity will be reduced only within 5% under the outdoor working condition of 43°C of the whole series products.

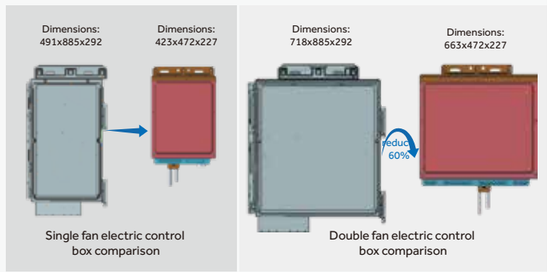


Easy Installation

Compact electric control box design

Compact electric control box design, compared with MRV 5 heat pump, the electric control box volume reduced by 60%, you can maintenance the compressor, stop valve, sensor and other parts only by opening the front panel.





Large connection ratio

connection ratio

connection capacity at maximum is 200%

connection ratio
50%-200%

connection ratio=
Total capacity index of the indoor units
capacity index of the outdoor units

Conditions of MRV indoor unit connection capacity(TBD)	
Applicable MRV indoor units	All indoor units
Single outdoor units	200%
Double outdoor units	150%
TRIPle outdoor units	130%

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is recommend in all the indoor units.

Smart link

Continues smart link function, easy installation, save labor.

3-way pipe connection

You can freely choose the left, front and bottom way connect the pipe, easy installation.

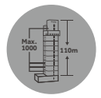
Model				AV08NMVQVA	AV10NMVQVA	AV12NMVQVA	AV14NMVQVA	AV16NMVQVA	AV18NMVQVA
	Combination model			/	/	/	/	/	/
				/	/	/	/	/	/
				/	/	/	/	/	/
				/	/	/	/	/	/
Capacity	Capacity range		HP	8	10	12	14	16	18
	Cooling		kW	22.4	28.0	33.5	40.0	45.0	50.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	4.65	6.02	7.74	9.50	10.98	12.22
		Max. power input	kW	11.15	11.53	12.09	15.7	18.42	21.86
		Rated current	A	7.85	10.17	13.06	16.04	18.53	20.64
		Max. current	A	18.20	18.91	19.74	26.62	30.32	34.26
	EER			4.82	4.65	4.33	4.21	4.10	4.09
	ISEER			8.5	8.75	8.3	7.4	7.02	7.2
	IPLV			8.50	8.48	8.15	7.25	7.02	6.90
Performance	Air flow (H)		m^3/h	11000	11000	12000	13500	13500	13500
	Sound pressure level (H)		dB(A)	59.0	59.0	59.0	60.0	61.0	62.0
	Sound power level (H)		dB(A)	73.0	73.0	73.0	74.0	75.0	76.0
Installation	External dimensions(W/D/H)		mm	980/750/1690					
	Shipping dimensions(W/D/H)		mm	1070/850/1858					
	Net/shipping weight		kg	201/226	201/226	201/226	202/227	220/245	224/249
	Compressor type			DC INV. Twin-Rotary					
	Compressor brand			MITSUBISHI ELECTRIC					
	Compressor quantity			1INV	1INV	1INV	1INV	1INV	1INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	9	9	9	9	10	10
	Refrigerant liquid pipe		mm	9.52	9.52	12.70	12.70	12.70	15.88
	Refrigerant gas pipe		mm	19.05	22.22	25.40	25.40	28.58	28.58
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~200 with limitation					
	Maximum number of indoor units			20	25	30	36	40	45
Working Temp.	Cooling		°C	-5~53					

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV20NMVQVA	AV22NMVQVA	AV24NMVQVA	AV26NMVQVA	AV28NMVQVA	AV30NMVQVA	AV32NMVQVA
	Combination model			/	/	/	/	/	AV14NMVQVA	AV16NMVQVA
				/	/	/	/	/	AV16NMVQVA	AV16NMVQVA
				/	/	/	/	/	/	/
				/	/	/	/	/	/	/
Capacity	Capacity range		HP	20	22	24	26	28	30	32
	Cooling		kW	56.0	61.5	67.0	73.0	78.0	85.0	90.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	13.93	15.38	17.87	18.20	19.65	20.5	22.0
		Max. power input	kW	33.01	33.31	33.64	33.92	34.24	34.1	36.8
		Rated current	A	23.52	25.96	30.16	30.73	33.17	34.6	37.1
		Max. current	A	53.55	54.21	54.70	55.23	55.7	56.9	60.6
	EER			4.02	4.00	3.75	4.01	3.97	4.15	4.10
	ISEER			7.02	6.98	6.72	6.68	6.62	7.18	7.02
	IPLV			7.02	6.98	6.72	6.68	6.62	7.13	7.00
Performance	Air flow (H)		m^3/h	17000	18000	19000	19000	19000	13500+13500	13500+13500
	Sound pressure level (H)		dB(A)	63.0	63.0	64.0	64.0	64.0	63.5	64.0
	Sound power level (H)		dB(A)	77.0	77.0	78.0	78.0	78.0	77.5	78.0
Installation	External dimensions(W/D/H)		mm	1410/750/1690			1410/750/1690		980/750/1690+980/750/1690	
	Shipping dimensions(W/D/H)		mm	1515/850/1858			1515/850/1858		1070/850/1858+1070/850/1858	
	Net/shipping weight		kg	310/339	310/339	329/359	329/359	329/359	203/228+220/245	220/245+220/245
	Compressor type			DC INV. Twin-Rotary			DC INV. Twin-Rotary		DC INV. Twin-Rotary	
	Compressor brand			MITSUBISHI ELECTRIC			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC	
	Compressor quantity			2INV	2INV	2INV	2INV	2INV	1INV+1INV	1INV+1INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	10	10	9+10	10+10
	Refrigerant liquid pipe		mm	15.88	15.88	15.88	15.88	19.05	19.05	19.05
	Refrigerant gas pipe		mm	28.58	28.58	28.58	28.58	31.75	31.75	31.75
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~200 with limitation			50~200 with limitation		50~150 with limitation	
	Maximum number of indoor units			50	55	60	64	64	64	64
Working Temp.	Cooling		°C	-5~53			-5~53			

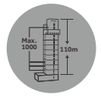
Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp.35°C DB/24WB;in heating, indoor Temp.is 20°C DB,in heating, outdoor Temp.is 7°C DB/6°CWB)

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV34NMVQVA	AV36NMVQVA	AV38NMVQVA	AV40NMVQVA	AV42NMVQVA	AV44NMVQVA
	Combination model			AV16NMVQVA	AV18NMVQVA	AV18NMVQVA	AV20NMVQVA	AV20NMVQVA	AV22NMVQVA
				AV18NMVQVA	AV18NMVQVA	AV20NMVQVA	AV20NMVQVA	AV22NMVQVA	AV22NMVQVA
				/	/	/	/	/	/
				/	/	/	/	/	/
Capacity	Capacity range		HP	34	36	38	40	42	44
	Cooling		kW	95.0	100.0	106.0	112.0	117.5	123.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	23.2	24.4	26.2	27.9	29.3	30.8
		Max. power input	kW	40.3	43.7	54.9	66.0	66.3	66.6
		Rated current	A	39.2	41.3	44.2	47.0	49.5	51.9
		Max. current	A	64.6	68.5	87.8	107.1	107.8	108.4
	EER			4.09	4.09	4.05	4.02	4.01	4.00
	ISEER			7.11	7.20	7.09	6.99	6.96	6.93
	IPLV			6.95	6.90	7.02	7.13	7.06	6.99
Performance	Air flow (H)		m^3/h	13500+13500	13500+13500	13500+17000	17000+17000	17000+18000	18000+18000
	Sound pressure level (H)		dB(A)	64.5	65.0	65.5	66.0	66.0	66.0
	Sound power level (H)		dB(A)	78.5	79.0	79.5	80.0	80.0	80.0
Installation	External dimensions(W/D/H)		mm	980/750/1690+980/750/1690			980/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)		mm	1070/850/1858+1515/850/1858			1515/850/1858+1515/850/1858		
	Net/shipping weight		kg	220/245+224/249	224/249+224/249	224/249+310/339	310/339+310/339	310/339+310/339	310/339+310/339
	Compressor type			DC INV. Twin-Rotary			DC INV. Twin-Rotary		
	Compressor brand			MITSUBISHI ELECTRIC			MITSUBISHI ELECTRIC		
	Compressor quantity			1INV+1INV	1INV+1INV	1INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10	10+10	10+10	10+10	10+10	10+10
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.75	38.1	38.1	38.1	38.1	38.1
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~150 with limitation			50~150 with limitation		
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~53			-5~53		

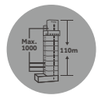
Max. drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max. drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp.is 27°C DB/19°C WB,Outdoor Temp.35°C DB/24WB;in heating, indoor Temp.is 20°C DB,in heating, outdoor Temp.is 7°C DB/6°C WB)

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV46NMVQVA	AV48NMVQVA	AV50NMVQVA	AV52NMVQVA	AV54NMVQVA	AV56NMVQVA
	Combination model			AV22NMVQVA	AV24NMVQVA	AV24NMVQVA	AV26NMVQVA	AV26NMVQVA	AV28NMVQVA
				AV24NMVQVA	AV24NMVQVA	AV26NMVQVA	AV26NMVQVA	AV28NMVQVA	AV28NMVQVA
				/	/	/	/	/	/
				/	/	/	/	/	/
Capacity	Capacity range		HP	46	48	50	52	54	56
	Cooling		kW	128.5	134.0	140.0	146.0	151.0	156.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	33.2	35.7	36.1	36.4	37.9	39.3
		Max. power input	kW	67.0	67.3	67.6	67.8	68.2	68.5
		Rated current	A	56.1	60.3	60.9	61.5	63.9	66.3
		Max. current	A	108.9	109.4	109.9	110.5	110.9	111.4
	EER			3.87	3.75	3.88	4.01	3.99	3.97
	ISEER			6.81	6.69	6.67	6.65	6.62	6.60
	IPLV			6.84	6.70	6.70	6.71	6.68	6.65
Performance	Air flow (H)		m^3/h	18000+19000	19000+19000	19000+19000	19000+19000	19000+19000	19000+19000
	Sound pressure level (H)		dB(A)	66.5	67.0	67.0	67.0	67.0	67.0
	Sound power level (H)		dB(A)	80.5	81.0	81.0	81.0	81.0	81.0
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858		1515/850/1858+1515/850/1858			
	Net/shipping weight		kg	310/339+329/359	329/359+329/359	329/359+329/359	329/359+329/359	329/359+329/359	329/359+329/359
	Compressor type			DC INV. Twin-Rotary		DC INV. Twin-Rotary			
	Compressor brand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC			
	Compressor quantity			2INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10	10+10	10+10	10+10	10+10	10+10
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	38.1	38.1
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~150 with limitation		50~150 with limitation			
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		℃	-5~53		-5~53			

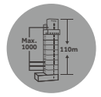
Max. drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max. drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp.is 27℃ DB/19℃ WB;Outdoor Temp.35℃ DB/24WB;in heating, indoor Temp.is 20℃ DB,in heating, outdoor Temp.is 7℃ DB/6℃WB)

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV58NMVQVA	AV60NMVQVA	AV62NMVQVA	AV64NMVQVA	AV66NMVQVA	AV68NMVQVA
	Combination model			AV18NMVQVA	AV20NMVQVA	AV20NMVQVA	AV20NMVQVA	AV22NMVQVA	AV22NMVQVA
				AV20NMVQVA	AV20NMVQVA	AV20NMVQVA	AV22NMVQVA	AV22NMVQVA	AV22NMVQVA
				AV20NMVQVA	AV20NMVQVA	AV22NMVQVA	AV22NMVQVA	AV22NMVQVA	AV24NMVQVA
				/	/	/	/	/	/
Capacity	Capacity range		HP	58	60	62	64	66	68
	Cooling		kW	162.0	168.0	173.5	179.0	184.5	190.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	40.1	41.8	43.2	44.7	46.1	48.6
		Max. power input	kW	87.9	99.0	99.3	99.6	99.9	100.3
		Rated current	A	67.7	70.6	73.0	75.4	77.9	82.1
		Max. current	A	141.4	160.7	161.3	162.0	162.6	163.1
	EER			4.04	4.02	4.01	4.01	4.00	3.91
	ISEER			7.05	6.99	6.97	6.95	6.93	6.85
	IPLV			7.06	7.13	7.08	7.04	6.99	6.89
Performance	Air flow (H)		m^3/h	13500+17000+17000	17000+17000+17000	17000+17000+18000	17000+18000+18000	18000+18000+18000	18000+18000+19000
	Sound pressure level (H)		dB(A)	67.5	67.5	67.5	67.5	67.5	68.0
	Sound power level (H)		dB(A)	81.5	81.5	81.5	81.5	81.5	82.0
Installation	External dimensions(W/D/H)		mm	980/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)		mm	1070/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858				
	Net/shipping weight		kg	224/249+310/339+310/339	310/339+310/339+310/339				310/339+310/339+329/359
	Compressor type			DC INV. Twin-Rotary	DC INV. Twin-Rotary				
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC				
	Compressor quantity			1INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10	10+10+10	10+10+10	10+10+10	10+10+10	10+10+10
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05	22.2
	Refrigerant gas pipe		mm	41.3	41.3	41.3	41.3	41.3	44.5
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130 with limitation	50~130 with limitation				
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~53	-5~53				

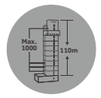
Max. drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max. drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp.is 27°C DB/19°C WB,Outdoor Temp.35°C DB/24WB;in heating, indoor Temp.is 20°C DB,in heating, outdoor Temp.is 7°C DB/6°C WB)

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV70NMVQVA	AV72NMVQVA	AV74NMVQVA	AV76NMVQVA	AV78NMVQVA	AV80NMVQVA
	Combination model			AV22NMVQVA	AV24NMVQVA	AV24NMVQVA	AV24NMVQVA	AV26NMVQVA	AV26NMVQVA
				AV24NMVQVA	AV24NMVQVA	AV24NMVQVA	AV26NMVQVA	AV26NMVQVA	AV26NMVQVA
				AV24NMVQVA	AV24NMVQVA	AV26NMVQVA	AV26NMVQVA	AV26NMVQVA	AV28NMVQVA
				/	/	/	/	/	/
Capacity	Capacity range		HP	70	72	74	76	78	80
	Cooling		kW	195.5	201.0	207.0	213.0	219.0	224.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	51.1	53.6	53.9	54.3	54.6	56.1
		Max. power input	kW	100.6	100.9	101.2	101.5	101.8	102.1
		Rated current	A	86.3	90.5	91.1	91.6	92.2	94.6
		Max. current	A	163.6	164.1	164.6	165.2	165.7	166.2
	EER			3.82	3.75	3.84	3.92	4.01	4.00
	ISEER			6.77	6.69	6.68	6.66	6.65	6.63
	IPLV			6.79	6.70	6.70	6.71	6.71	6.69
Performance	Air flow (H)		m^3/h	18000+19000+19000	19000+19000+19000	19000+19000+19000	19000+19000+19000	19000+19000+19000	19000+19000+19000
	Sound pressure level (H)		dB(A)	68.5	68.5	68.5	68.5	68.5	68.5
	Sound power level (H)		dB(A)	82.5	82.5	82.5	82.5	82.5	82.5
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858				
	Net/shipping weight		kg	310/339+329/359+329/359	329/359+329/359+329/359				
	Compressor type			DC INV. Twin-Rotary	DC INV. Twin-Rotary				
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC				
	Compressor quantity			2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10	10+10+10	10+10+10	10+10+10	10+10+10	10+10+10
	Refrigerant liquid pipe		mm	22.2	22.2	22.2	22.2	22.2	22.2
	Refrigerant gas pipe		mm	44.5	44.5	44.5	44.5	44.5	44.5
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130 with limitation	50~130 with limitation				
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~53	-5~53				

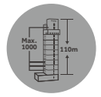
Max. drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max. drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp.is 27°C DB/19°C WB;Outdoor Temp.35°C DB/24WB;in heating, indoor Temp.is 20°C DB,in heating, outdoor Temp.is 7°C DB/6°CWB)

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV82NMVQVA	AV84NMVQVA	AV86NMVQVA	AV88NMVQVA	AV90NMVQVA
	Combination model			AV26NMVQVA	AV28NMVQVA	AV20NMVQVA	AV22NMVQVA	AV22NMVQVA
				AV28NMVQVA	AV28NMVQVA	AV22NMVQVA	AV22NMVQVA	AV22NMVQVA
				AV28NMVQVA	AV28NMVQVA	AV22NMVQVA	AV22NMVQVA	AV22NMVQVA
				/	/	AV22NMVQVA	AV22NMVQVA	AV24NMVQVA
Capacity	Capacity range		HP	82	84	86	88	90
	Cooling		kW	229.0	234.0	240.5	246.0	251.5
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	57.5	58.9	60.1	61.5	64.0
		Max. power input	kW	102.4	102.7	132.9	133.2	133.6
		Rated current	A	97.1	99.5	101.4	103.8	108.0
		Max. current	A	166.6	167.1	216.2	216.8	217.3
	EER			3.98	3.97	4.00	4.00	3.93
	ISEER			6.61	6.60	6.95	6.93	6.87
	IPLV			6.67	6.65	7.03	6.99	6.91
Performance	Air flow (H)		m^3/h	19000+19000+19000	19000+19000+19000	17000+18000+18000+18000	18000+18000+18000+18000	18000+18000+18000+19000
	Sound pressure level (H)		dB(A)	68.5	68.5	69.0	69.0	69.0
	Sound power level (H)		dB(A)	82.5	82.5	82.5	82.5	83.0
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690		1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858		1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858		
	Net/shipping weight		kg	329/359+329/359+329/359		310/339+310/339+310/339+310/339		310/339+310/339+310/339+329/359
	Compressor type			DC INV. Twin-Rotary		DC INV. Twin-Rotary		
	Compressor brand			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC		
	Compressor quantity			2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV+2INV		
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10	10+10+10	10+10+10+10	10+10+10+10	10+10+10+10
	Refrigerant liquid pipe		mm	22.2	22.2	25.4	25.4	25.4
	Refrigerant gas pipe		mm	44.5	44.5	50.8	50.8	50.8
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130 with limitation		50~130 with limitation		
	Maximum number of indoor units			64	64	64	64	64
Working Temp.	Cooling		°C	-5~53		-5~53		

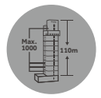
Max. drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max. drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp.is 27°C DB/19°C WB,Outdoor Temp.35°C DB/24WB;in heating, indoor Temp.is 20°C DB,in heating, outdoor Temp.is 7°C DB/6°C WB)

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV92NMVQVA	AV94NMVQVA	AV96NMVQVA	AV98NMVQVA	AV100NMVQVA
	Combination model			AV22NMVQVA	AV22NMVQVA	AV24NMVQVA	AV24NMVQVA	AV24NMVQVA
				AV22NMVQVA	AV24NMVQVA	AV24NMVQVA	AV24NMVQVA	AV24NMVQVA
				AV24NMVQVA	AV24NMVQVA	AV24NMVQVA	AV24NMVQVA	AV26NMVQVA
				AV24NMVQVA	AV24NMVQVA	AV24NMVQVA	AV26NMVQVA	AV26NMVQVA
Capacity	Capacity range		HP	92	94	96	98	100
	Cooling		kW	257.0	262.5	268.0	274.0	280.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	66.5	69.0	71.5	71.8	72.1
		Max. power input	kW	133.9	134.2	134.6	134.8	135.1
		Rated current	A	112.2	116.4	120.7	121.2	121.8
		Max. current	A	217.8	218.3	218.8	219.3	219.9
	EER			3.87	3.81	3.75	3.82	3.88
	ISEER			6.81	6.75	6.69	6.68	6.67
	IPLV			6.84	6.77	6.70	6.70	6.70
Performance	Air flow (H)		m^3/h	18000+18000+19000+19000	18000+19000+19000+19000	19000+19000+19000+19000	19000+19000+19000+19000	19000+19000+19000+19000
	Sound pressure level (H)		dB(A)	69.5	69.5	70.0	70.0	70.0
	Sound power level (H)		dB(A)	83.5	83.5	84.0	84.0	84.0
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858			
	Net/shipping weight		kg	310/339+310/339+329/359+329/359	310/339+329/359+329/359+329/359	329/359+329/359+329/359+329/359		
	Compressor type			DC INV. Twin-Rotary	DC INV. Twin-Rotary			
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC			
	Compressor quantity			2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV			
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10
	Refrigerant liquid pipe		mm	25.4	25.4	25.4	25.4	25.4
	Refrigerant gas pipe		mm	50.8	50.8	50.8	54.1	54.1
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130 with limitation		50~130 with limitation		
	Maximum number of indoor units			64	64	64	64	64
Working Temp.	Cooling		℃	-5~53		-5~53		

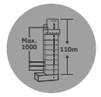
Max. drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max. drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp.is 27°C DB/19°C WB;Outdoor Temp.35°C DB/24WB;in heating, indoor Temp.is 20°C DB,in heating, outdoor Temp.is 7°C DB/6°CWB)

Cooling Only

AV08NMVQVA
AV10NMVQVA
AV12NMVQVA
AV14NMVQVA
AV16NMVQVA
AV18NMVQVA

AV20NMVQVA
AV22NMVQVA
AV24NMVQVA
AV26NMVQVA
AV28NMVQVA

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

Space Saving

Auto Addressing Indoor Units

Better Cooling Capacity

Model				AV102NMVQVA	AV104NMVQVA	AV106NMVQVA	AV108NMVQVA	AV110NMVQVA	AV112NMVQVA
	Combination model			AV24NMVQVA	AV26NMVQVA	AV26NMVQVA	AV26NMVQVA	AV26NMVQVA	AV28NMVQVA
				AV26NMVQVA	AV26NMVQVA	AV26NMVQVA	AV26NMVQVA	AV28NMVQVA	AV28NMVQVA
				AV26NMVQVA	AV26NMVQVA	AV26NMVQVA	AV28NMVQVA	AV28NMVQVA	AV28NMVQVA
				AV26NMVQVA	AV26NMVQVA	AV28NMVQVA	AV28NMVQVA	AV28NMVQVA	AV28NMVQVA
Capacity	Capacity range		HP	102	104	106	108	110	112
	Cooling		kW	286.0	292.0	297.0	302.0	307.0	312.0
	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
Electrical Parameters	Cooling	Rated power input	kW	72.5	72.8	74.3	75.7	77.1	78.6
		Max. power input	kW	135.4	135.7	136.0	136.3	136.6	137.0
		Rated current	A	122.4	122.9	125.4	127.8	130.2	132.7
		Max. current	A	220.4	220.9	221.4	221.9	222.3	222.8
	EER			3.95	4.01	4.00	3.99	3.98	3.97
	ISEER			6.66	6.65	6.64	6.62	6.61	6.60
	IPLV			6.71	6.71	6.69	6.68	6.67	6.65
Performance	Air flow (H)		m^3/h	19000+19000+19000+19000	19000+19000+19000+19000	19000+19000+19000+19000	19000+19000+19000+19000	19000+19000+19000+19000	19000+19000+19000+19000
	Sound pressure level (H)		dB(A)	70.0	70.0	70.0	70.0	70.0	70.0
	Sound power level (H)		dB(A)	84.0	84.0	84.0	84.0	84.0	84.0
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858				
	Net/shipping weight		kg	329/359+329/359+329/359+329/359	329/359+329/359+329/359+329/359				
	Compressor type			DC INV. Twin-Rotary	DC INV. Twin-Rotary				
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC				
	Compressor quantity			2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV				
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10
	Refrigerant liquid pipe		mm	25.4	25.4	28.58	28.58	28.58	28.58
	Refrigerant gas pipe		mm	54.1	54.1	66.70	66.70	66.70	66.70
	Max.total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U (O.U down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between .U.&O.U (O.U up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U *3		m	30	30	30	30	30	30
	Standard drop between I.U *4		m	18	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130 with limitation					
	Maximum number of indoor units			64	64	64	64	64	64
Working Temp.	Cooling		°C	-5~53					

Max. drop between I.U.&O.U *1 If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 Standard design and production in the factory.
Max. drop between I.U. *3 If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp.is 27°C DB/19°C WB;Outdoor Temp.35°C DB/24WB;in heating, indoor Temp.is 20°C DB,in heating, outdoor Temp.is 7°C DB/6°C WB)

MRV W T1

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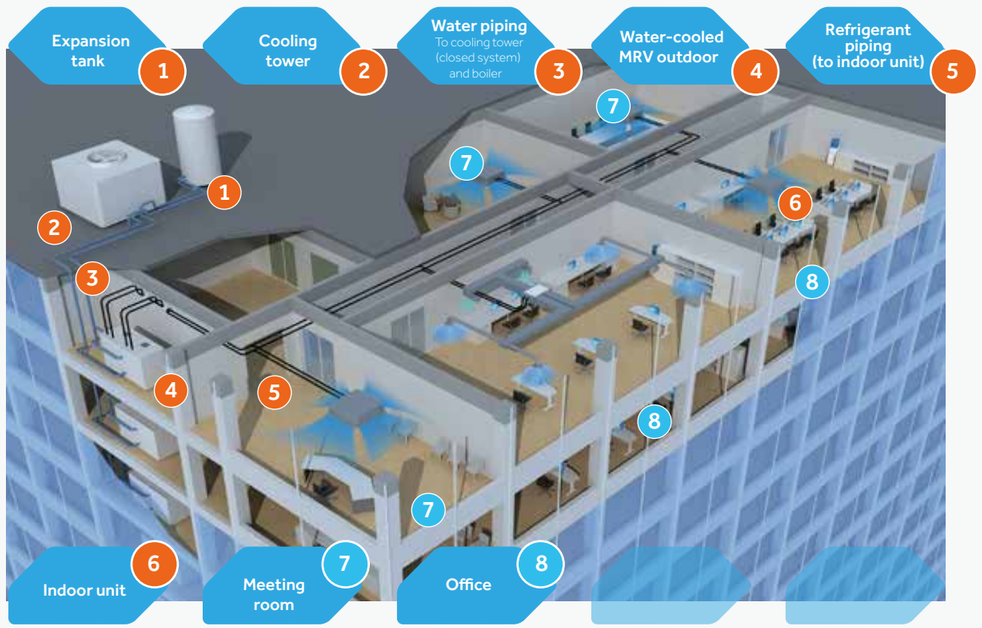
174 MRV W Outdoor
178 Dimensions

MRV W

System Introduction Unit structure

System Introduction

System introduction



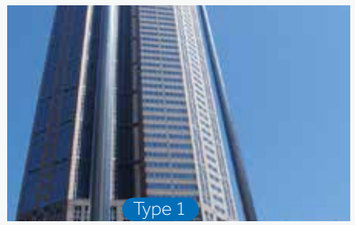
System Introduction

What is MRV W series

•MRV W series system is a VRF air conditioning system that adopts water as a cooling or heating source.
•MRV W series can combine water system and refrigerant system together.

3 types typical high-rise buildings

Compact inner structure and core parts.

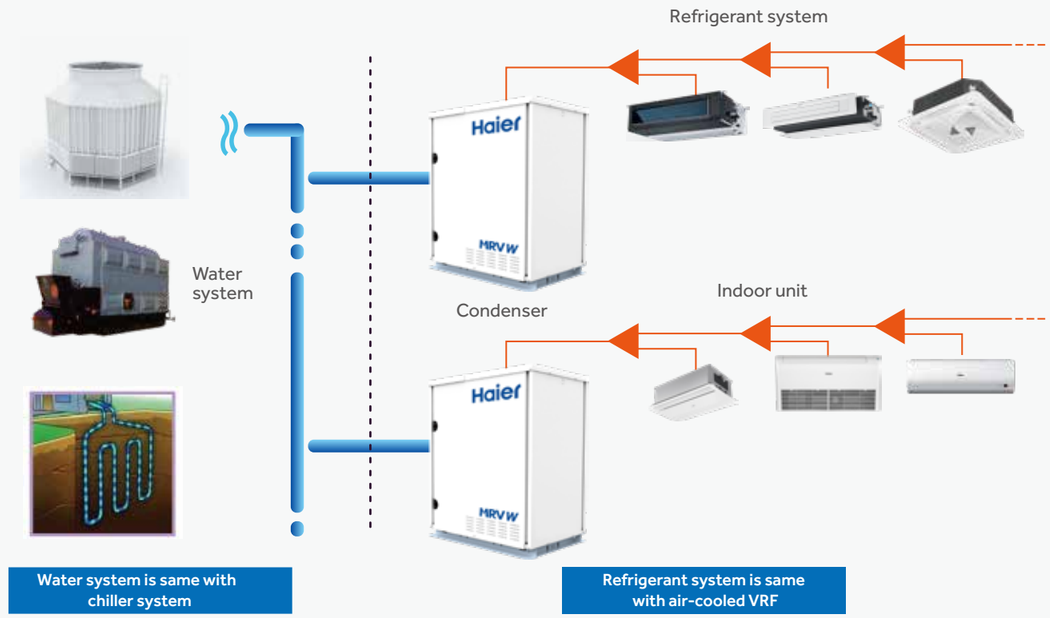


High rise building without podium

High rise building with podium

Single layer with a large area

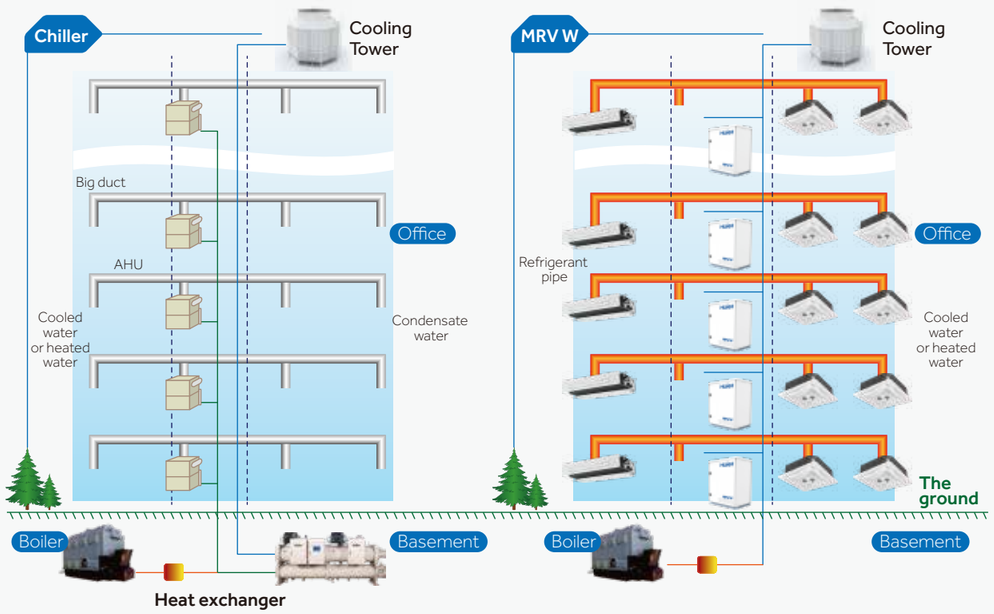
Working principle



System Introduction

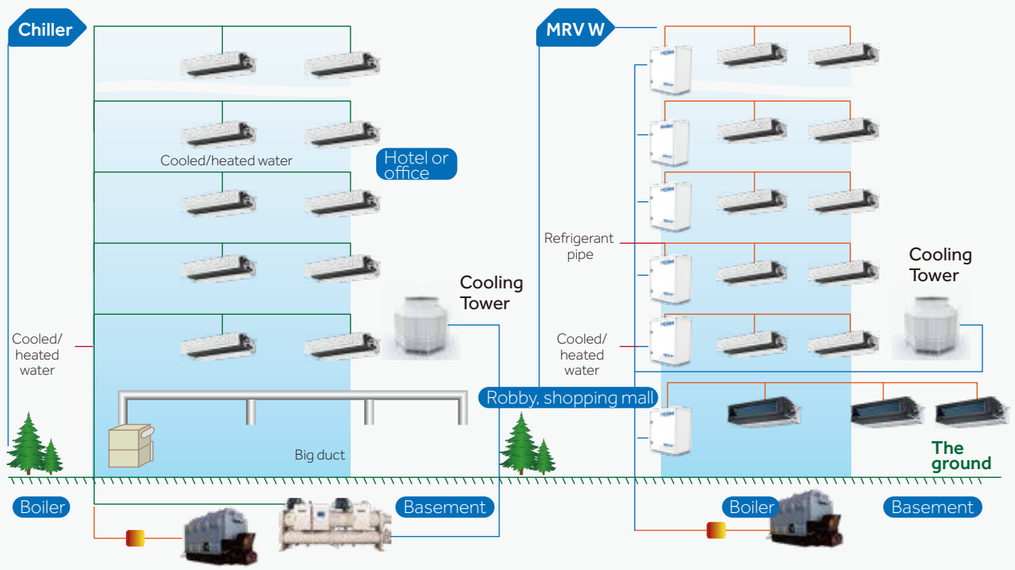
Type 1 high-rise buildings

Conventional chiller system, and new water-cooled MRV solution.



Type 2 high-rise buildings

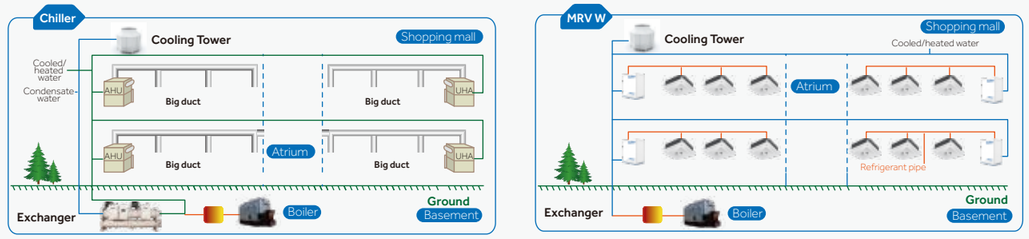
Conventional chiller system, and water-cooled MRV solution.



System Introduction

Type 3 high-rise buildings

Conventional chiller system, and water-cooled MRV solution.



Suitable buildings

- New construction or retrofit building: MRV W provides an energy efficient solution anywhere that could use a water-cooled chiller or replacing water source heat pump design by enabling them to afford the water-cooled chiller benefits. It is especially true for high-rise buildings such as condos, offices, medical centers, schools.
- High-rise building that didn' t design with VRF system.
- Glass curtain wall or special design building.
- No enough space to put the outdoor unit even accept the VRF system.
- Building which required to renewable energy sources.

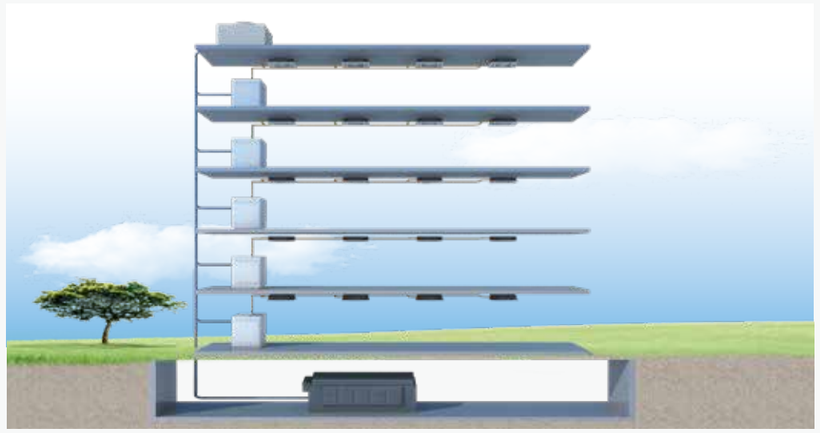
Benefit

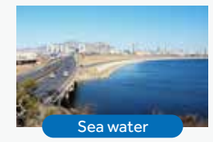
- Lower initial cost for the developer and builder.
- Client or developer can add air conditioning to match load requirement.
- No rebalancing of water systems if commissioning valves are installed on each floor.
- Connect to the full suite of MRV control solution A/C management system.
- Separate control to every indoor unit.

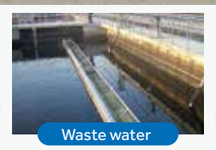
Unit Structure

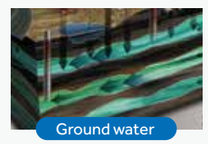
8/10/12HP side discharge

Much bigger outdoor capacity, more flexible application.



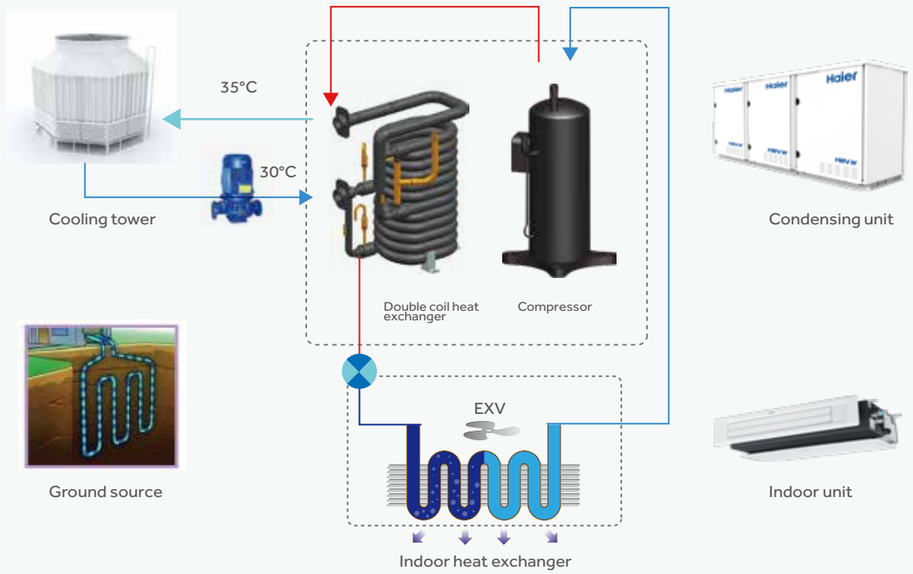




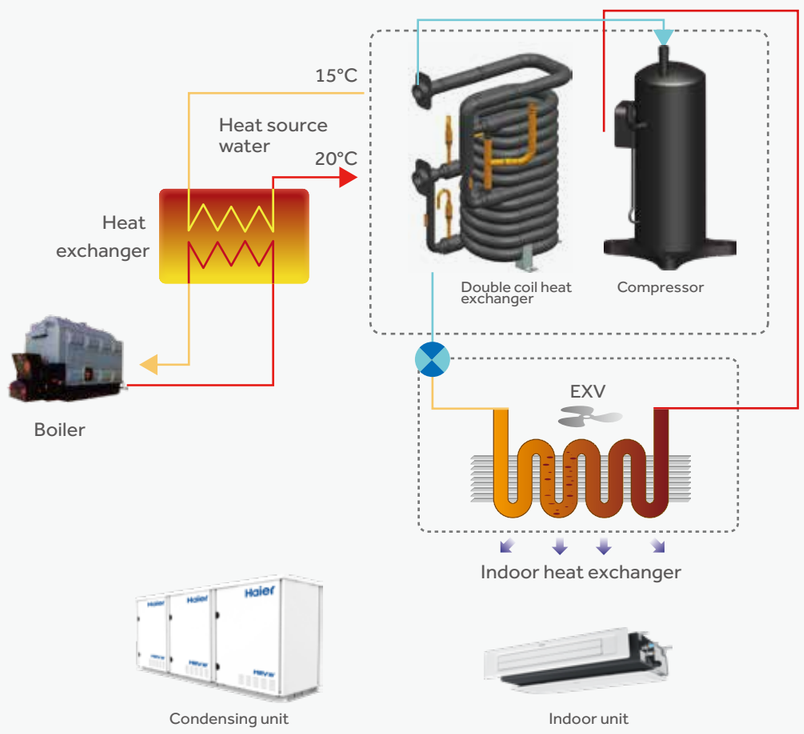


Unit Structure

Working principle in cooling mode



Working principle in heating mode



Unit Structure

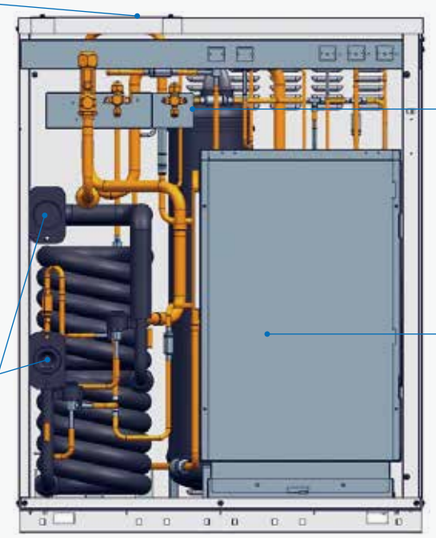
Core technologies and parts (front side)

Refrigerant pipe

Refrigerant pipe to connect the indoor units

Water outlet and inlet

Water outlet and inlet pipe to connect the double coil heat exchanger



Gas-liquid separator

Reduce the heat exchanger height(650mm), and the upper and lower wind speed uniform and high efficiency

Compact electrical control box

Compact electric control box, which can rote up and down, easy for compressor service

Core technologies and parts(back side)

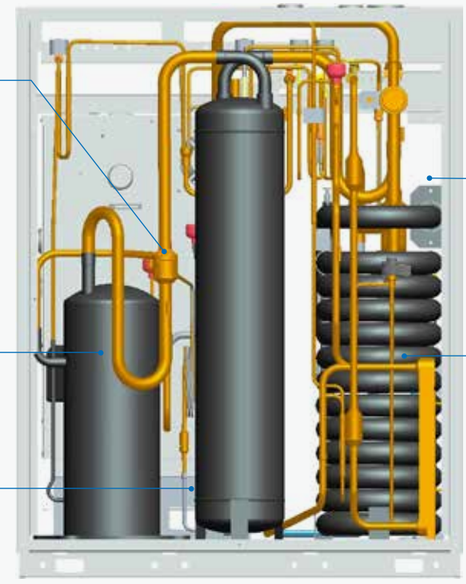
Compact electrical control box

Compact electric control box, which can rote up and down, easy for compressor service

DC inverter scroll compressor

DC inverter scroll compressor, more higher energy efficiency

Oil separator



Water switch

Double coil heat exchanger

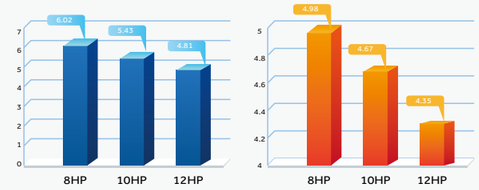
•Double coil heat exchanger, more uniform heat transfer effect

•Much higher double coil, saving more space, more compact design

High Efficiency

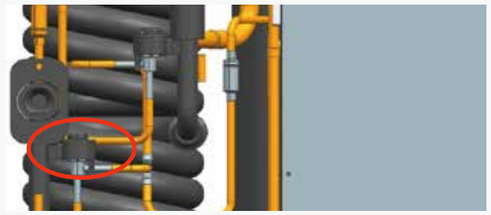
Energy saving

•COP can be up to 6.02, much more higher energy level than air system.
•EER can be up to 4.98, more higher energy level than air system.



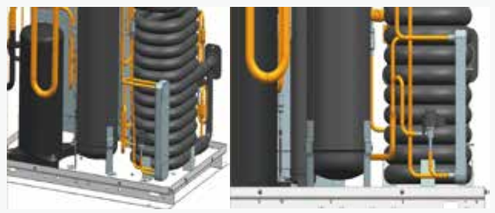
Double EEV control

The double EEV control the 2 stages heat exchanger separately, which can adjust the condenser volume.



Two stage deep sub cooling technology

•1st stage sub cooling added a sub cooling coil to condenser
2nd stage sub cooling added a stand alone sub cooler.
•After further cooling, sub-cooling degree can be up to 30°C, with the heat exchanging capacity per unit mass of refrigerant improved by 46% and flow resistance reduced by 55%, and running efficiency improved by 9%.



High efficiency DC inverter compressor

High efficiency DC inverter compressor from mitsubishi electric.

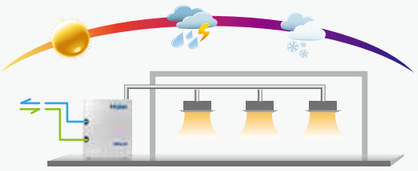
High efficiency double coil heat exchanger

Double coil heat-exchanger, more uniform heat transfer effect.

Super Comfort

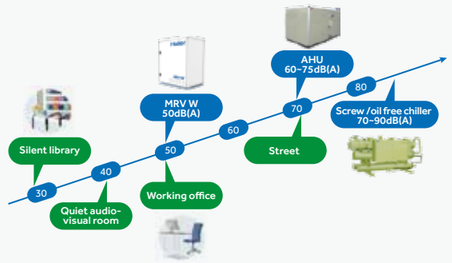
No influence from ambient temperature

•Thanks to the stable water source, the capacity and efficiency will not reduce with extreme ambient conditions compare with air-cooled system.
•Especially in heating mode, water cooling means no defrost operation is required, the resultant rapid start up time assures quick and comfortable heating, even in cold environment.



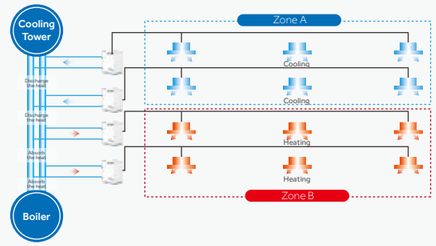
Low noise level

Comparing with air system, without fan in the outdoor and with full insulation design, the noise level can be reduced to only 50dB(A), much lower than the air system and conventional chiller.



Heat recovery between different refrigerant systems

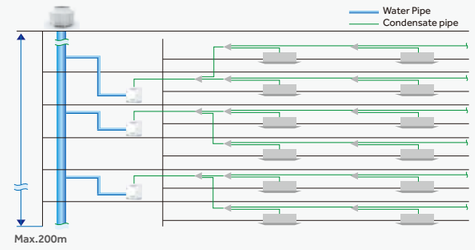
•Heat recovery is achieved within the water loop between different refrigerant system, more higher total COP.
•Cooling and heating at the same time in different refrigerant system.



Easy Installation

Flexible water pipe design

•Max. water pressure can be up to 1.96MPa.
•Condensate pipe length can be up to 200m.



Flexible installation location

Various mode and priority selection

The condensers are smaller and can be staked, reducing the installation space and increasing the customers usable square footage.

Easy Installation

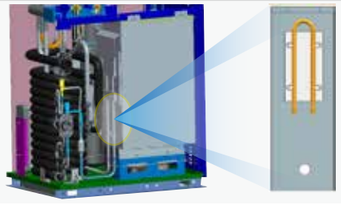
Long pipe length and high height drop

The condensers are smaller and can be stacked, reducing the installation space.

High Reliability

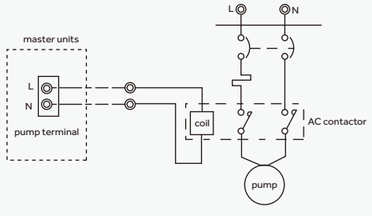
Chilled electric control module

•Using refrigerant to reduce the module temperature, to realize stable module temperature, more reliable operation.
•Canceling heat dissipation fan of the module, reduce the power consumption and noise level.



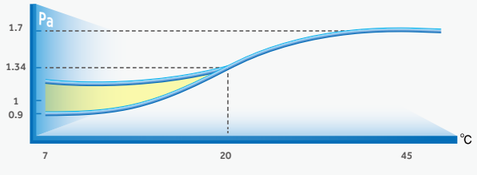
Water pump controlled together with the outdoor

The reserved water pump linkage control, realize the pump linkage control, reduce the energy consumption and eliminate hidden dangers.

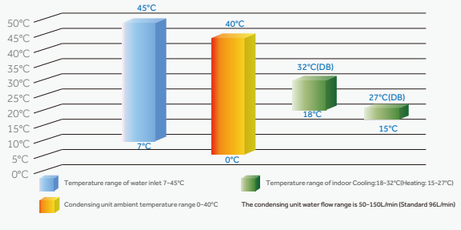


Stable pressure setting

Stable pressure setting design, to make the high pressure keep above the required pressure, ensure the compressor reliability and stable capacity output.



Wide operation range



AV08IMWEWA
AV10IMWEWA
AV12IMWEWA

Model				AV08IMWEWA	AV10IMWEWA	AV12IMWEWA
	Combination model			/	/	/
				/	/	/
				/	/	/
Capacity	Capacity range		HP	8	10	12
	Cooling capacity		kW	22.4	28	33.5
	Heating capacity		kW	25	31.5	37.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60
	Cooling	Rated power input	kW	4.50	6.00	7.70
		Max. power input	kW	13.00	15.00	17.00
		Rated current	A	7.20	9.60	12.32
		Max.current	A	20.79	23.99	27.19
	Heating	Rated power input	kW	4.15	5.80	7.80
		Max. power input	kW	13.00	15.00	17.00
		Rated current	A	6.64	9.28	12.47
		Max.current	A	20.79	23.99	27.19
	EER /COP			4.98/6.02	4.67/5.43	4.35/4.81
	SEER			5.87	5.76	5.69
	SCOP			6.13	6.01	5.96
Performance	Water flow (H)		m^3/h	4.8	6	7.2
	Sound pressure level (H)		dB(A)	50	51	53
	Sound power level (H)		dB(A)	61	62	64
Installation	External dimensions(W/D/H)		mm	775/545/995	775/545/995	775/545/995
	Shipping dimensions(W/D/H)		mm	875/655/1182	875/655/1182	875/655/1182
	Net/Shipping weight		kg	172/183	172/183	172/183
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			1 INV	1 INV	1 INV
	Refrigerant type			R410A	R410A	R410A
	Refrigerant charge		kg	2	2	2
	Refrigerant liquid pipe		mm	9.52	9.52	12.7
	Refrigerant gas pipe		mm	19.05	22.2	25.4
	Oil equalization pipe		mm	9.52	9.52	9.52
	Total pipe length		m	300	300	300
	Max. pipe length(equivalent/actual)		m	150/120	150/120	150/120
	Max. drop between I.U.&O.U.		m	50/40	50/40	50/40
Heat Exchanger	Type			Double coil	Double coil	Double coil
	Material			Copper	Copper	Copper
Water Side	Inlet water connection pipe		mm	DN32	DN32	DN32
	Outlet water connection pipe		mm	DN32	DN32	DN32
	Drain outlet pipe		mm	/	/	/
	Pressure drop(inlet and outlet)		Kpa	35	50	70
	Connection type			inner grooved	inner grooved	inner grooved
	Max. system water pressure		Mpa	1.6	1.6	1.6
	Inlet water temperature range (cooling & heating)		℃	7~45	7~45	7~45
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130
	Maximum number of indoor units		unit	13	16	19

*1 outdoor above 50m, outdoor below 40 m.
*All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)
*The specification may change according to the further product development .

AV08IMWEWA
AV10IMWEWA
AV12IMWEWA

3/380V-415V/50/60

3 Basic Single Module: 8/10/12HP, Max. 3 Modules Combination up to 36HP

Most Compact Size Outdoor Design in The Industry

Water cooled VRF, Higher Efficiency

Total 300m Long Pipe Length, Easy for Installation

Model				AV16IMWEWA	AV18IMWEWA	AV20IMWEWA	AV22IMWEWA	AV24IMWEWA	AV26IMWEWA	AV28IMWEWA
	Combination model			AV08IMWEWA	AV08IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA	AV08IMWEWA	AV08IMWEWA
				AV08IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA	AV12IMWEWA	AV08IMWEWA	AV10IMWEWA
				/	/	/	/	/	AV10IMWEWA	AV10IMWEWA
Capacity	Capacity range		HP	16	18	20	22	24	26	28
	Cooling capacity		kW	44.8	50.4	56	61.5	67.0	72.8	78.4
	Heating capacity		kW	50.0	56.5	63	69.0	75.0	81.5	88.0
Electrical Parameters	Power supply		Ph/V/Hz	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60
	Cooling	Rated power input	kW	9.00	10.50	12.00	13.70	15.40	15.00	16.50
		Max. power input	kW	26.00	28.00	30.00	32.00	34.00	41.00	43.00
		Rated current	A	14.39	16.79	19.19	21.91	24.63	23.99	26.39
		Max.current	A	41.58	44.78	47.98	51.18	54.38	65.57	68.77
	Heating	Rated power input	kW	8.30	9.95	11.60	13.60	15.60	14.10	15.75
		Max. power input	kW	26.00	28.00	30.00	32.00	34.00	41.00	43.00
		Rated current	A	13.27	15.91	18.55	21.75	24.95	22.55	25.19
		Max.current	A	41.58	44.78	47.98	51.18	54.38	65.57	68.77
	EER /COP			4.98/6.02	4.8/5.68	4.67/5.43	4.49/5.07	4.35/4.81	4.85/5.78	4.75/5.59
	SEER			5.87	5.82	5.76	5.73	5.69	5.84	5.80
	SCOP			6.13	6.10	6.01	5.98	5.96	6.11	6.10
Performance	Water flow (H)		m^3/h	9.6	10.8	12	13.2	14.4	15.6	16.8
	Sound pressure level (H)		dB(A)	53	54	54	55	56	55	55
	Sound power level (H)		dB(A)	64	65	65	66	67	66	66
Installation	External dimensions(W/D/H)		mm	(775/545/995)*2	(775/545/995)*2	(775/545/995)*2	(775/545/995)*2	(775/545/995)*2	(775/545/995)*3	(775/545/995)*3
	Shipping dimensions(W/D/H)		mm	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*2	(875/655/1182)*3	(875/655/1182)*3
	Net/Shipping weight		kg	344/366	344/366	344/366	344/366	344/366	516/549	516/549
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			2 INV	2 INV	2 INV	2 INV	2 INV	3 INV	3 INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	4	4	4	4	4	6	6
	Refrigerant liquid pipe		mm	12.7	15.88	15.88	15.88	15.88	19.05	19.05
	Refrigerant gas pipe		mm	28.58	28.58	28.58	28.58	28.58	31.8	31.8
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Total pipe length		m	300	300	300	300	300	300	300
	Max. pipe length(equivalent/actual)		m	150/120	150/120	150/120	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U.		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
Heat Exchanger	Type			Double coil	Double coil	Double coil	Double coil	Double coil	Double coil	Double coil
	Material			Copper	Copper	Copper	Copper	Copper	Copper	Copper
Water Side	Inlet water connection pipe		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	Outlet water connection pipe		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	Drain outlet pipe		mm	/	/	/	/	/	/	/
	Pressure drop(inlet and outlet)		Kpa	35+35	35+50	50+50	50+70	70+70	35+35+50	35+50+50
	Connection type			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Max. system water pressure		Mpa	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Inlet water temperature range (cooling & heating)		°C	7~45	7~45	7~45	7~45	7~45	7~45	7~45
Connection Ratio	Connectable indoor unit ratio		%	50-130	50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units		unit	23	29	33	36	39	43	46

*1 outdoor above 50m, outdoor below 40 m.
*All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)
*The specification may change according to the further product development .

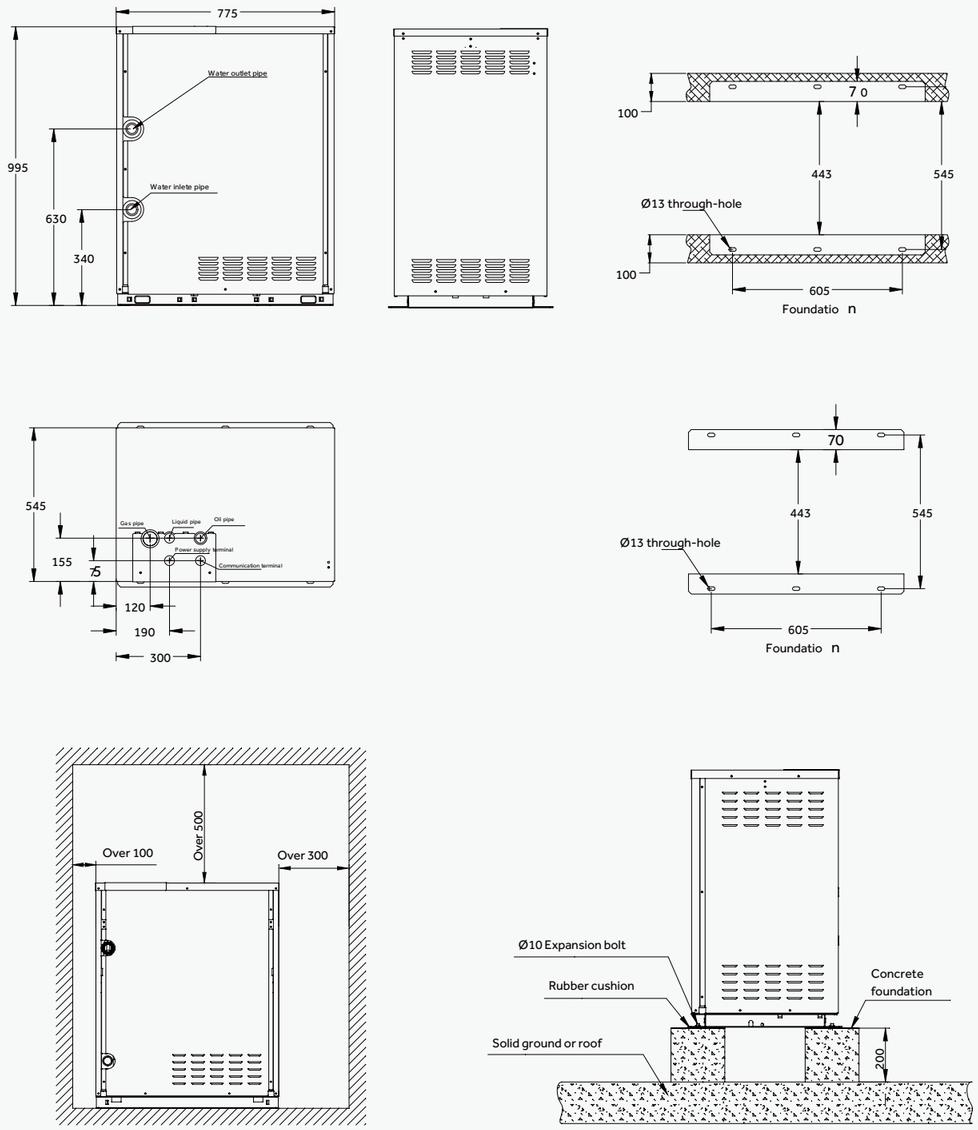
AV08IMWEWA
AV10IMWEWA
AV12IMWEWA

Model				AV30IMWEWA	AV32IMWEWA	AV34IMWEWA	AV36IMWEWA
	Combination model			AV10IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA
				AV10IMWEWA	AV10IMWEWA	AV12IMWEWA	AV12IMWEWA
				AV10IMWEWA	AV12IMWEWA	AV12IMWEWA	AV12IMWEWA
Capacity	Capacity range		HP	30	32	34	36
	Cooling capacity		kW	84.0	89.5	95.0	100.5
	Heating capacity		kW	94.5	100.5	106.5	112.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60	3/380V-415V/50/60
	Cooling	Rated power input	kW	18.00	19.70	21.40	23.10
		Max. power input	kW	45.00	47.00	49.00	51.00
		Rated current	A	28.79	31.51	34.23	36.95
		Max.current	A	71.97	75.17	78.37	81.57
	Heating	Rated power input	kW	17.40	19.40	21.40	23.40
		Max. power input	kW	45.00	47.00	49.00	51.00
		Rated current	A	27.83	31.03	34.23	37.42
		Max.current	A	71.97	75.17	78.37	81.57
	EER /COP			4.67/5.43	4.54/5.18	4.44/4.98	4.35/4.81
	SEER			5.76	5.74	5.72	5.69
	SCOP			6.01	5.99	5.97	5.96
Performance	Water flow (H)		m^3/h	18.0	19.2	20.4	21.6
	Sound pressure level (H)		dB(A)	56	57	57	58
	Sound power level (H)		dB(A)	67	68	68	69
Installation	External dimensions(W/D/H)		mm	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3
	Shipping dimensions(W/D/H)		mm	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3
	Net/Shipping weight		kg	516/549	516/549	516/549	516/549
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			3 INV	3 INV	3 INV	3 INV
	Refrigerant type			R410A	R410A	R410A	R410A
	Refrigerant charge		kg	6	6	6	6
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.8	31.8	31.8	38.1
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52
	Total pipe length		m	300	300	300	300
	Max. pipe length(Equivalent/Actual)		m	150/120	150/120	150/120	150/120
	Max drop between I.U.&O.U.		m	50/40	50/40	50/40	50/40
Heat Exchanger	Type			Double coil	Double coil	Double coil	Double coil
	Material			Copper	Copper	Copper	Copper
Water Side	Inlet water connection pipe		mm	DN32	DN32	DN32	DN32
	Outlet water connection pipe		mm	DN32	DN32	DN32	DN32
	Drain outlet pipe		mm	/	/	/	/
	Pressure drop(inlet and outlet)		Kpa	50+50+50	50+50+70	50+70+70	70+70+70
	Connection type			inner grooved	inner grooved	inner grooved	inner grooved
	Max. system water pressure		Mpa	1.6	1.6	1.6	1.6
	Inlet water temperature range (Cooling & Heating)		℃	7~45	7~45	7~45	7~45
Connection Ratio	Connectable indoor unit ratio		%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		unit	50	53	56	59

*1 outdoor above 50m, outdoor below 40 m.
*All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)
*The specification may change according to the further product development .

Dimensions

AV08IMWEWA AV10IMWEWA AV12IMWEWA



MRV S^{I} T1

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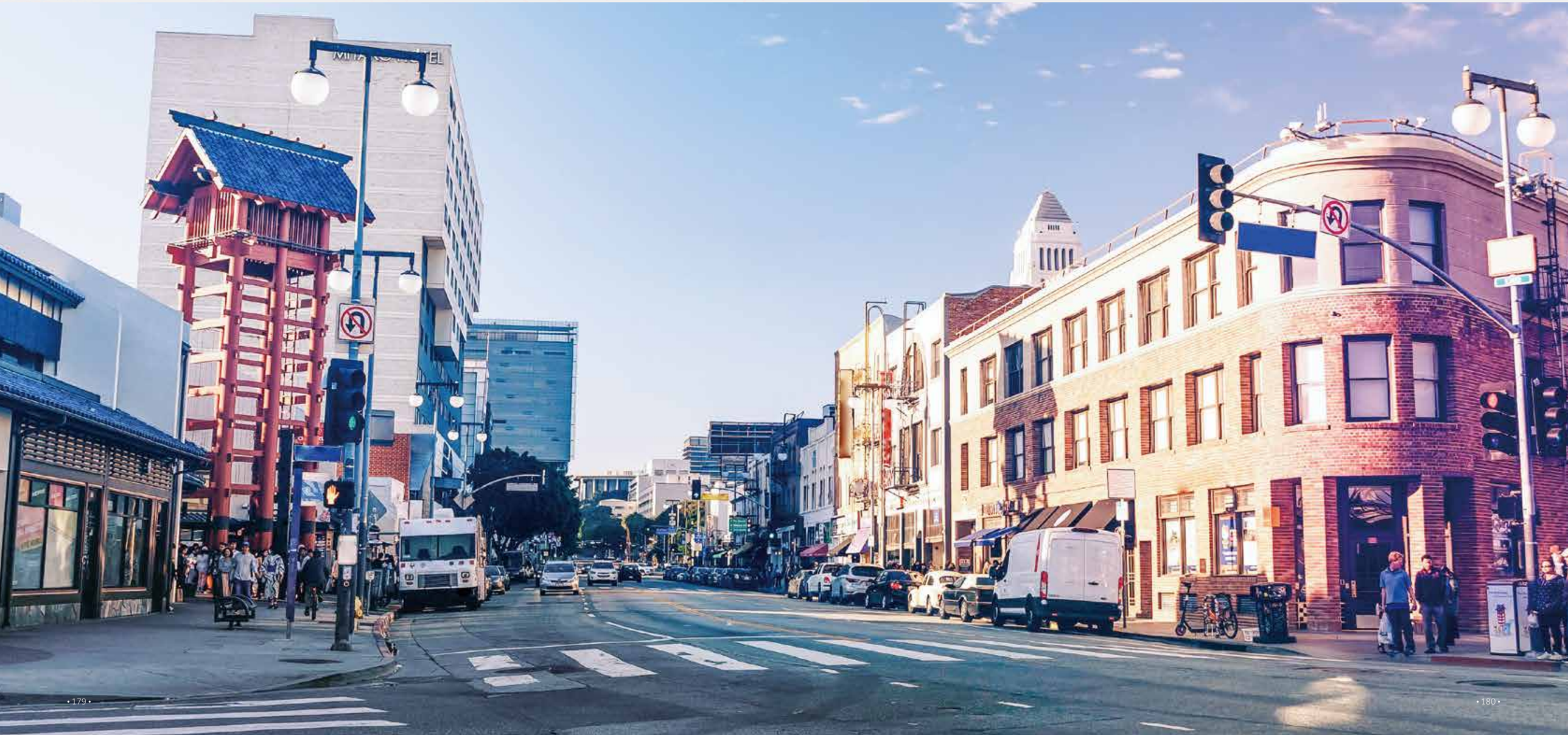
184 MRV S^{I} Outdoor



Advanced Technology | High Efficiency | Super Comfort | Easy Installation

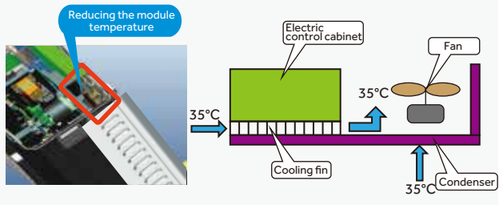
Advanced Technology

Full DC inverter twin rotary compressor

Compressor 15~140 RPM wide operating range, can effective against low load output. The compressor adopts keel motor technology, the energy efficiency is increased by 10%.

Air inlet grill design on right side panel

The unit adopts louver at right side panel for better heat dissipation to guarantee high frequency operation at high temperature. The air inlet grill design, reduces the module temperature and avoids air dust into air conditioner.



Advanced Technology

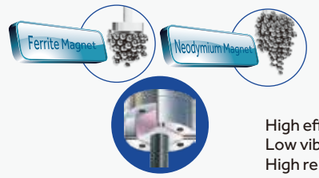
New update

•We upgraded the whole series and launched new capacity of 3, 5 and 7 HP modules. The overall rounded corner design refreshes you visually;
•The stop-valve of new module is build-in, easier installation;
•Equipped with super large diameter 550mm fan, in sawtooth shape type design, heat transfer of units more powerful;
•The heat transfer area of the condensed is increased by 15%, and the heat transfer effect is increased by 10% (5/7HP): The original heat exchanger was 1197*970mm. The current heat exchanger area is 1302*1005mm;
•Standard self-cleaning technology, in addition to the new module upgrade 56°C high temperature cleaning technology;The heat exchanger of IDU can realize high temperature of 56°, effectively remove mold, and make the air supply more healthy.

High Efficiency

DC inverter technology

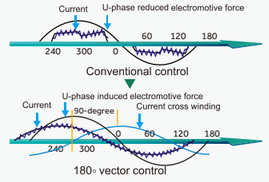
DC fan motor speed can be adjusted from 0~960r/min, it can improve the unit efficiency, at the same time, the unit can realize low ambient cooling operation.



High efficiency
Low vibration, low noise
High reliability

180° vector control technology

Haier using power resistance to detect the rotor position of compressor, results in the consistency of the compressor working current and current sine waves, improve power efficiency about 17%.



Super Comfort

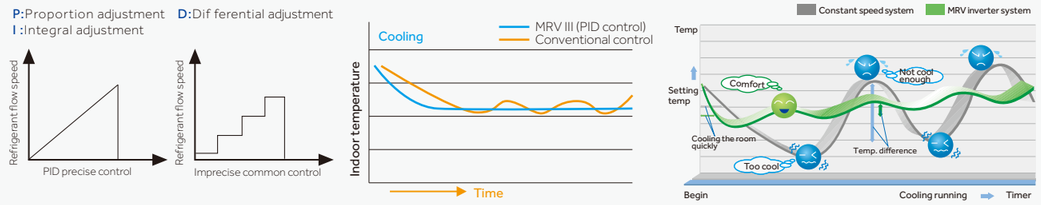
Operation range

Relying on the compressor upgraded by MRV SI and optimized pipeline upgrade, the operating temperature range of the new model is expanded, including -5°C~50°C for cooling and -20°C~27°C for heating.

Super Comfort

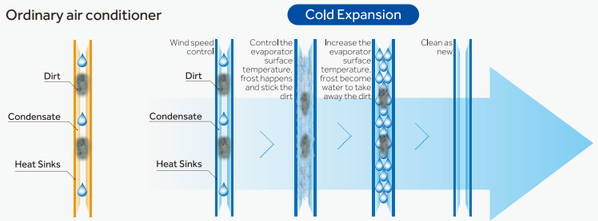
Precise control

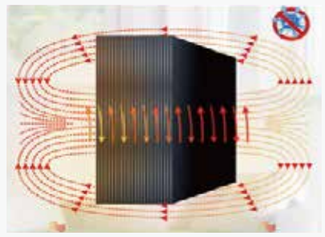
PID control adjusts the output of compressor and the open degree of EEV, balances the indoor refrigerant flow, realizes the linear output, creates a comfortable environment. The temperature could be controlled precisely.



Self-cleaning technology

- Cooling expansion technology—— Easily remove dirt from heat exchanger
- Condensate water technology ——Increase condensate water by 30%
- Sapphire coating ——The hydrophilic ability is increased by 50%, and the flow speed is increased by 20%
- Antibacterial technology——Silver ion antibacterial coating, effectively prevent the growth of bacteria
- 56°C high temperature technology——The temperature of IDU heat exchanger is improved by using the condensing heat of high pressure refrigerant. The temperature is up to 56°C, effectively prevent mold breeding(5/7HP).





Easy Installation

Side discharge MRV SI outdoor units

Dual frequency 50/60Hz / DC inverter TWIN rotary compressor / BL DC fan (Brush Less DC motor)

1. Control the compressor running frequency by temp. Sensor, more precise and prompt than conventional control system.
1. Protections: Pressure, temp, compressor, fan motor, refrigerant, oil quantity etc. Realize perfect performance.
1. Malfunction self-diagnose.
2. DC fan motor (AU48/60).
3. DC inverter compressor, high efficiency.
4. Single set valve, easy to installation and save installation time.

Model			AU032FSEUA	AU052FPEUA	AU072FPEUA	AU07NFPEUA
Capacity	Capacity range	HP	3	5	7	7
	Cooling	kBtu/h	27.3	51.2	61.4	61.4
		kW	8	14	18	18
	Heating	kBtu/h	32.4	58	68.2	68.2
		kW	9.5	16	20	20
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	3/380-400/50/60
	Power input (Cooling)	kW	2.2	3.7	4.75	4.75
	Power input (Heating)	kW	2.2	3.73	4.56	4.56
	EER/COP		3.64/4.32	3.78/4.29	3.79/4.39	3.79/4.39
Performance	Air flow (H)	m^3/h	4500	7200	7200	7200
	Sound pressure level (H)	dB(A)	50	52	54	59
	Sound power level (H)	dB(A)	61	63	65	70
Installation	External dimensions(W/D/H)	mm	920/372/760	950/370/1350	950/370/1350	950/370/1350
	Shipping dimensions(W/D/H)	mm	1036/478/820	1023/483/1492	1023/483/1492	1023/483/1492
	Net/Shipping weight	kg	61/67	108/123	108/123	108/123
	Compressor type		Rotary	Rotary	Rotary	Rotary
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1	1	1	1
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	2.1	4	4	4
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	19.05	19.05	15.88
	Total pipe length	m	120	150	150	300
	Max. pipe length(Equivalent/Actual)	m	70	70	70	175/150
	Max. drop between indoor and outdoor:Outdoor in the top/ Indoor uint in the bottom	m	30/20	30/20	30/20	50
	Max drop between I.U.&I.U	m	10	10	10	15
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units		4	8	9	13
Working Temp.	Cooling	℃	-5℃~50℃	-5℃~50℃	-5℃~50℃	-5℃~50℃
	Heating	℃	-20℃~27℃	-20℃~27℃	-20℃~27℃	-20℃~27℃

*All the specifications are tested under nominal condition(In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor Temp. 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor Temp. is 7°C DB/6°C WB)

MRV S^{II} T1

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192 MRV S^{II} Outdoor
196 Dimensions

Advanced Technology | High Efficiency | Super Comfort | Easy Installation | High Reliability

Advanced Technology

Increasing enthalpy by replenish gas, realize the unit powerful heating capacity

Taking the heating cycle as an example, when environment tempetature is low, heat exchanged capability of outdoor unit is depressed. The amount of air returned by compressor is reduced, Increase the amount of refrigerant in the heating cycle of the indoor unit heat exchanger, thereby achieving improved heating capacity.

DC inverter fan motor

•DC inverter fan motor more higher efficiency in part load running

•16-stage speed control; high efficiency running especially in low speed

•Efficiency increase 45% comparing with AC motor and power input largely decrease

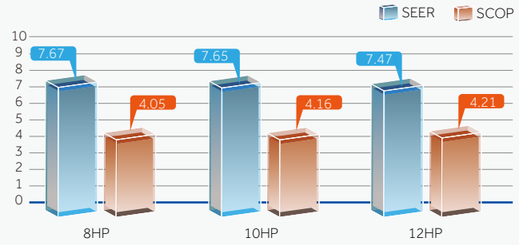
•Big diameter fan

•570mm big diameter fan, more big air flow and more higher efficiency(8/10/12HP)

Advanced Technology

High EER and COP(8/10/12HP)

The promotion of energy efficiency.



Leadership in technology(4-6HP)

•Two-stage supercooling cycle technology, increased unit efficiency by 9%(Double fan).

•Maximizing 30°C undercooling, increase unit refrigerating capacity by 46%.

Upgraded configuration, upgraded performance (8/10/12HP side discharge)

Bigger outdoor capacity, more flexible application

High efficiency DC fan motor

•DC fan motor with stepless inverter control, efficiency increase 45% comparing with AC motor and power input largely decrease

Large diameter fan

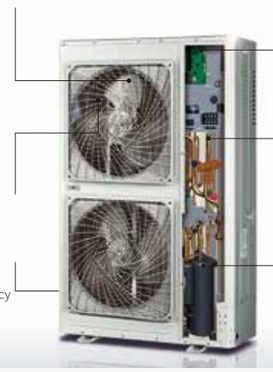
•Ø570mm big diameter axial flow fan

•Zigzag design, reduce airflow disturbance, air volume is bigger, the noise is lower

High efficiency condenser

•New type high efficiency Ø7 inner grooved tube

•New hydrophilic corrugated fissure fin, high efficiency



Vector inverter control

•180 degrees sine wave vector control, 64-bit operation

•High precision control, to achieve high efficiency and lower noise

Double pressure sensor

•Equipped with high and low voltage pressure double sensors

•Accurate pressure control, the system run more smoothly, more energy efficiency

Twin rotary DC Inverter compressor

•High chamber DC inverter twin rotary compressor

•Small vibration, low noise, high energy efficiency

Indoor units and outdoor units self-cleaning

Indoor units and outdoor units cleaning mode conversion with nonstop, make abundant use of ODU waste heat to IDU defrosting. At the same time, the IDU uses the waste heat of the ODU to defrost the heat exchanger, to dry the condensed water, effectively prevent mold breeding.

Condensation | Frosting | Powerful rinsing | Outdoor self-cleaning

High Efficiency

High energy efficiency

DC inverter compressor
Haier takes DC INV. compressor, 5% power input lower(14kW).

DC fan motor and 550mm big fan
38% power input l ower and 8% airflow higher

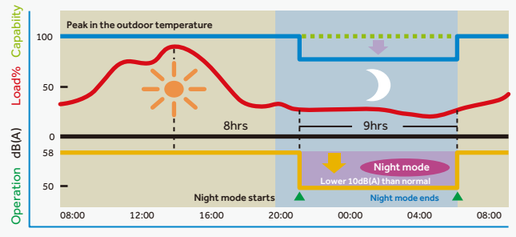
Larger heat exchanger
Heat exchange area rise 10%

Charge valve
Built-in charge valve enables safer and easier maintenance

Low standby power
New PCB programme, reduce 20% standby power consumption

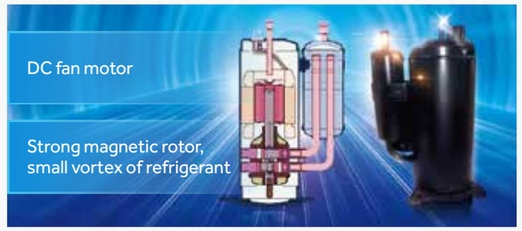
Low noise level

Night quiet operation function
Noise can be reduced to 45dB(A).



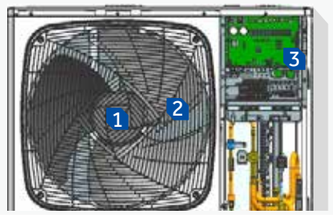
New DC inverter twin rotary compressor

•Small torque change, good dynamic balance, the system runs stably, little vibration, low noise, high efficiency.
•More higher efficiency in part load running.



Super Comfort

1. New aerodynamics fan 550mm super big diameter aerospace helix fan. Lowering sound level 3dB(A).
2. Enlarged air inlet path and spiral air outlet path air flow direction follows the grill direction.Lowering sound level 2-4 dB(A).
3. Automatic sound-lowering programme night mode set by PCB, 8dB(A) lower.



Low noise operation

•DC inverter compressor, smooth operation, no need frequent start the compressor, effectively reduce the noise outdoor.
•Vector inverter control, more precise control.
•DC fan motor, motor bracket used the non-resonance structure, ensure smooth running of the motor, reduce operating noise.
•Big diameter fan, design according to aviation quieter principle.

Easy installation

Compact side discharge design, big capacity, small footprint/small footprint, only 0.42m², 43% floor area can be reduced.

Easy Installation

1. **Double side "4 " handles**
   Easy to carry
2. **"888" test panel**
   All running data & error code can be checked from "888" screen, which is easy for installers
3. **"Four-way" pipe connection**
   4-way (front,back, left & right) pipe connection, easy to design and install

Long pipe length, high height drop

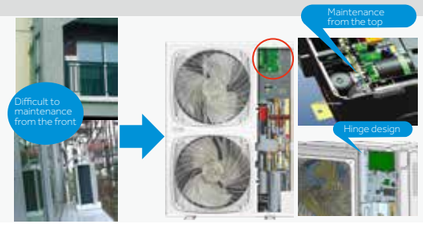
•Total pipe length: 300m.
•Single pipe length: Max.175m.
•From outdoor to the first branch pipe: 135m.
•From the first branch to the farthest indoor door unit: 40m.
•Height drop: 50m(outdoor above)/40m (outdoor below).
•Height drop between indoor units: 15m.

Parameter display panel

The first original parameter display panel on the side.
The parameter can be observed directly by opening the protective cover in case of maintenance, to avoid removing the repair board.

Easy maintenance for control

The control box is in front, reserving space 108mm between control box and top panel, easy maintenance from the top Control box is with hinge design, easy to open for maintenance(8/10/12HP).



Compact side discharge design

No need additional ventilation hood comparing with top discharge unit.

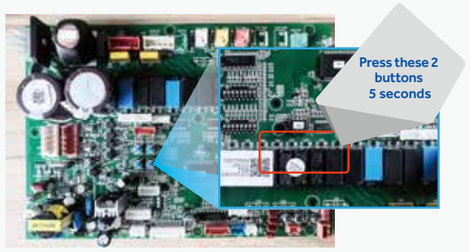
Separate refrigerant charging valve

Easy for refrigerant charging.

High Reliability

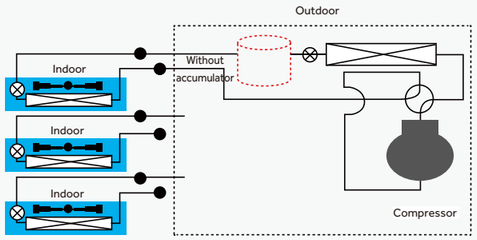
Refrigerant automatically reclaim technology

Set refrigerant automatically reclaim through dip switch, the refrigerant in indoor and pipe can be automatically return to outdoor, convenient in maintenance and reducing waste of refrigerant, reduce customer maintenance cost, improve the efficiency of after-sales maintenance.



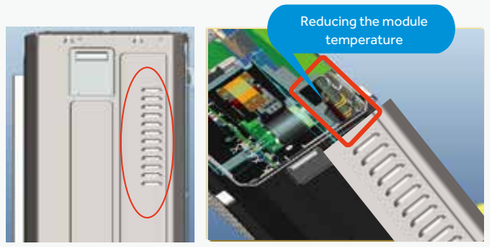
Refrigerant control technology

Refrigerant control technology without high pressure accumulator, reducing the refrigerant volume and enhancing the running efficiency.



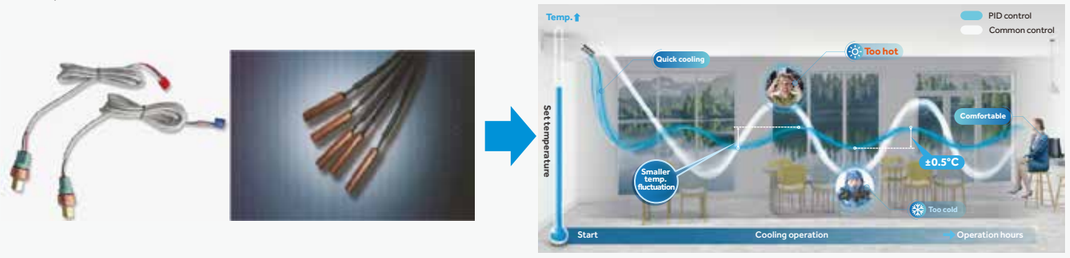
Air inlet grill design on right side panel

Air inlet grill design, reducing the module temperature and avoid air dust into air conditioner.



High and low double pressure sensor

•Double pressure sensor with PID control technology.
•Together with high speed communication to realize the quick start of compressor and more precise control, the temperature can be control ±0.5°C.



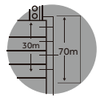
AU042FPERS
AU052FNERS

Model			AU042FPERS	AU052FNERS
Capacity(1)	Capacity range	HP	4	5
	Cooling	kW	12.1	14
	Heating	kW	12.1	14
	Heating(Max.)	kW	14	15.5
	EER	/	2.85	2.8
	SEER	/	4.9	4.85
	η s	%	193	191
	COP	/	2.95	2.9
	SCOP(1)	/	3.5	3.55
	η s	%	137	139
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60
	Rated power input (Cooling)	kW	4.25	5
	Rated power input (Heating)	kW	4.1	4.83
Dimensions	External (W/D/H)	mm	950/370/965	950/370/965
	Shipping (W/D/H)	mm	1010/458/990	1010/458/990
Weight	Net/Shipping weight	kg	90/102	90/102
Compressor	Compressor type	/	Rotary	Rotary
	Motor power	W	4130	4130
	Compressor quantity	/	1	1
Fan	Air flow (H)	m^3/h	5400	5400
Pressure Sound level	Cooling	dB(A)	58	60
	Heating	dB(A)	60	62
Refrigerant	Type	/	R410A	R410A
	Charge	kg	3.3	3.3
Piping	Refrigerant liquid pipe	mm	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88
	Total pipe length	m	120	120
	Max. pipe length(Equivalent/Actual)	m	70/60	70/60
	Max. drop between I.U.&O.U (ODU above / below)	m	30/20	30/20
	Max. drop between I.U.&I.U	m	10	10
Connection Ratio	Connectable indoor unit ratio	%	50-130	50-130
	Maximum number of indoor units	/	7	8
Working Temp.	Cooling	℃	-5-50	-5-50
	Heating	℃	-15-21	-15-21

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor Temp. 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor Temp. is 7°C DB/6°C WB)

AU042FPERS
AU052FPERS
AU062FPERS
AU04IFPERS
AU05IFPERS
AU06IFPERS

Double Fan Series



Total Pipe Length 300m

Two Stage Sub-cooling

Easy Connection With 4-way

Model			AU042FPERS		AU052FPERS	AU062FPERS	AU04IFPERS	AU05IFPERS	AU06IFPERS
Capacity(1)	Capacity range	HP	4		5	6	4	5	6
	Cooling	kW	12.1		14	15.5	12.1	14	15.5
	Heating	kW	14.2		16	18	14.2	16	18
	Heating(Max.)	kW	/		/	/	/	/	/
	EER	/	4.05		3.99	3.6	4.05	3.99	3.6
	SEER	/	6.82		6.63	6.45	6.82	6.63	6.45
	η s	%	269.8		262.2	255	269.8	262.2	255
	COP	/	4.47		4.3	4.1	4.47	4.3	4.1
	SCOP(1)	/	3.92		3.85	3.8	3.92	3.85	3.8
	η s	%	153.8		151	149	153.8	151	149
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60		1/220-240/50/60	1/220-240/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Rated power input (Cooling)	kW	2.99		3.51	4.31	2.99	3.51	4.31
	Rated power input (Heating)	kW	3.18		3.72	4.39	3.18	3.72	4.39
Dimensions	External (W/D/H)	mm	950/370/1350		950/370/1350	950/370/1350	950/370/1350	950/370/1350	950/370/1350
	Shipping (W/D/H)	mm	1023/483/1492		1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492
Weight	Net/Shipping weight	kg	108/123		108/123	108/123	108/123	108/123	108/123
Compressor	Compressor type	/	Rotary		Rotary	Rotary	Rotary	Rotary	Rotary
	Motor power	W	4130		4130	4130	4060	4060	4060
	Compressor quantity	/	1		1	1	1	1	1
Fan	Air flow (H)	m^3/h	7200		7200	7200	7200	7200	7200
Pressure Sound level	Cooling	dB(A)	57		58	59	57	58	59
	Heating	dB(A)	57		58	59	57	58	59
Refrigerant	Type	/	R410A		R410A	R410A	R410A	R410A	R410A
	Charge	kg	4		4	4	4	4	4
Piping	Refrigerant liquid pipe	mm	9.52		9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88		15.88	15.88	15.88	15.88	15.88
	Total pipe length	m	300		300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150		175/150	175/150	175/150	175/150	175/150
	Max. drop between I.U.&O.U (ODU above / below)	m	50/40		50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U.&I.U	m	15		15	15	15	15	15
Connection Ratio	Connectable indoor unit ratio	%	50-130		50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units	/	8		10	13	8	10	13
Working Temp.	Cooling	℃	-5~50		-5~50	-5~50	-5~50	-5~50	-5~50
	Heating	℃	-20~27		-20~27	-20~27	-20~27	-20~27	-20~27

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor Temp. 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor temp is 7°C DB/6°C WB)

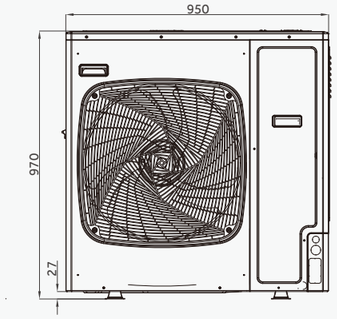
AU08NFKERS
AU10NFKERS
AU12NFKERS

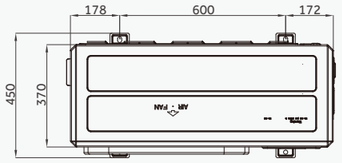
Model			AU08NFKERS	AU10NFKERS	AU12NFKERS
Capacity[1]	Capacity range	HP	8HP	10HP	12HP
	Cooling	kW	22.6	28	33.5
	Heating	kW	25	31.5	37.5
	Heating(Max.)	kW	/	/	/
	EER	/	3.9	3.62	3.6
	COP	/	4.6	4.2	3.9
Electrical Parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated power input (Cooling)	kW	5.79	7.73	9.3
	Rated power input (Heating)	kW	5.43	7.5	9.62
Dimensions	External (W/D/H)	mm	1050/400/1636	1050/400/1636	1050/400/1636
	Shipping (W/D/H)	mm	1150/510/1790	1150/510/1790	1150/510/1790
Weight	Net/Shipping weight	kg	149/168	149/168	149/168
Compressor	Compressor type	/	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
	Motor power	W	6270	6270	6270
	Compressor quantity	/	1	1	1
Fan	Air flow (H)	m^3/h	10000	10000	10000
Pressure Sound level	Cooling	dB(A)	55	58	60
	Heating	dB(A)	57	60	62
Refrigerant	Type	/	R410A	R410A	R410A
	Charge	kg	5.1	5.1	5.1
Piping	Refrigerant liquid pipe	mm	9.52	9.52	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4
	Total pipe length	m	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150
	Max. drop between I.U.&O.U (ODU above / below)	m	50/40	50/40	50/40
	Max. drop between I.U.&I.U	m	15	15	15
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130
	Maximum number of indoor units	/	13	16	19
Working Temp.	Cooling	℃	-5~48	-5~48	-5~48
	Heating	℃	-20~27	-20~27	-20~27

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor Temp. 35°C DB/24°C WB; In heating, Indoor Temp. is 20°C DB, Outdoor Temp. is 7°C DB/6°C WB)

Dimensions

AU042FNERA AU052FNERA





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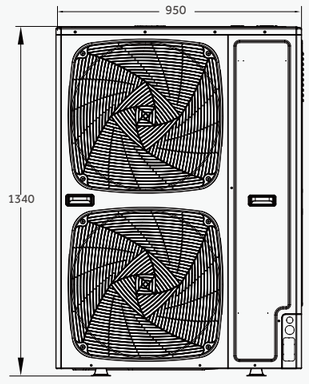
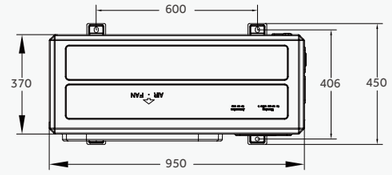
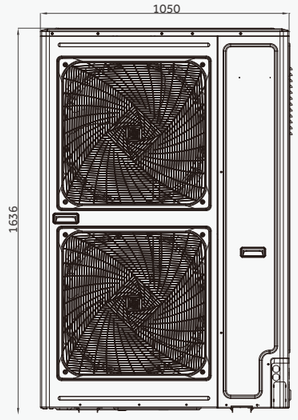
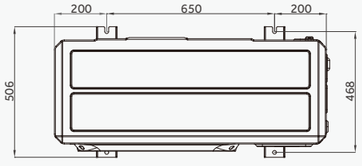




AU08NFKERA AU10NFKERA AU12NFKERA





MRV 5T3 DC INVERTER

199 Features & Benefits

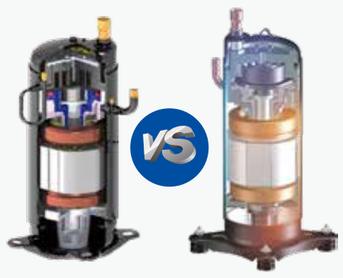
204 MRV 5-T3 Outdoor

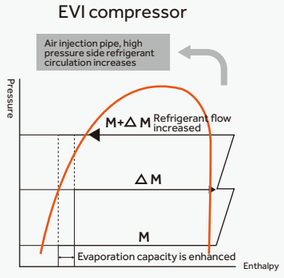
High Efficiency

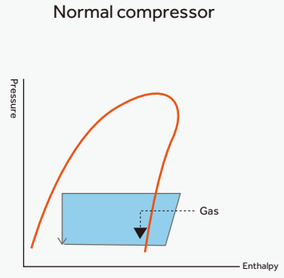
EVI compressor

Enhanced apor Injection technology, low temperature heating and high temperature cooling

The unit adopts EVI compressor, which can increase the refrigerant circulation by 15%, and improve the heating effect by 30% compared with the normal type. Meanwhile, the one-way valve built in, and the efficiency of the unit can be increased by 5%. The cooling temperature can be 53°C.







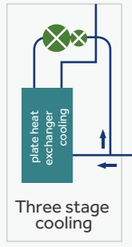
High Efficiency

Three stage cooling

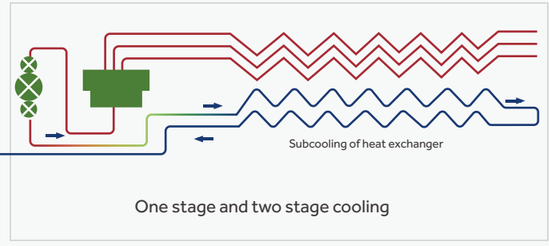
Adopt three-stage subcooling cycle technology

•Three-stage subcooling cycle technology, increased unit efficiency by 9%.

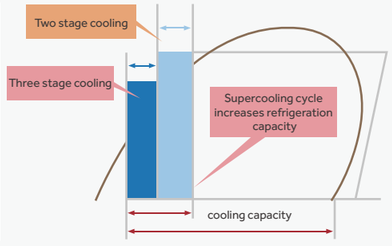
•Maximizing 30°C subcooling, increase unit refrigerating capacity by 46%.

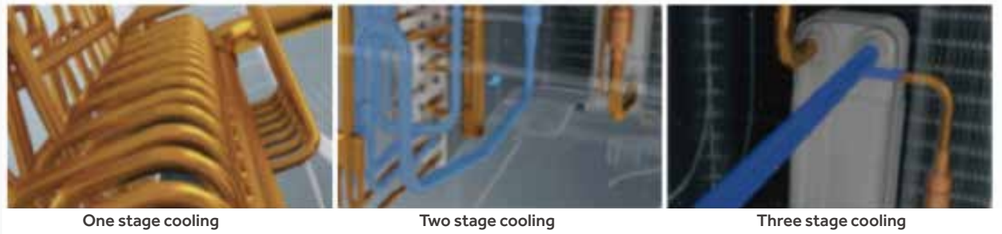


Three stage cooling



One stage and two stage cooling





One stage cooling | Two stage cooling | Three stage cooling

Speedless inverter DC-motor

Outdoor unit matches efficient variable-speed DC-motor. drived by sine wave, wider efficiency range and torque range, motor efficiency is increased by 17%. air fan of outdoor unit can achieve 0~91Hz stepless frequency.

New one-piece of four-way heat exchanger

Super Comfort

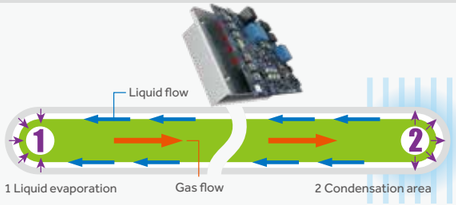
Precise temperature control at ±0.5°C

With twin pressure sensors and twin EEVS, the refrigerant volume can be adjusted automatically to realize precise temperature control, improving indoor comfort.

Super Reliable

Superconducting refrigerant cooling technology

Adopt innovative super heat conduction cooling PCB technology, heat transfer media conduct heat 100 times better than copper. Does not occupy the refrigerant amount of the system, no additional refrigerant loss. At the same time, this cooling mode will not affect the rotation of the electric control box, easy maintain.



Intelligent triple backup operation technology

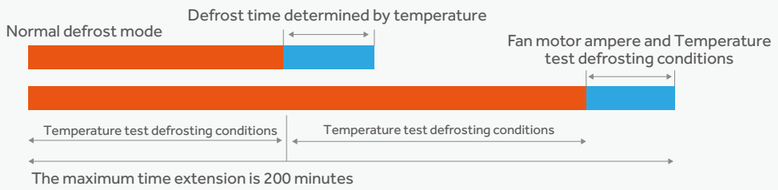
•For the double-compressor system, when one compressor breakdown, the other compressor can be put into backup operation immediately to ensure the user needs.
•For the multi-module combination, in case of breakdown of one outdoor unit, this unit can be interrupted from the system so that the other modules can continue to operate.
•Super-long backup operation time, which can reach up to 8 hours.

Automatic oil balancing

Without oil balancing pipe, the oil is balanced automatically. This simplifies system design and improves reliability.

Patented intelligent frost measurement technology

According to the airflow resistance changes of the air supply system, the frost layer can be accurately detected in real time, so as to enter the defrost properly; Avoid false defrosting, defrosting is not clean and other problems. The defrosting period of -10°C is prolonged by 1h, and the heat production capacity is increased by 25%.



Super Reliable

Wide operation temperature

Wide operating range: refrigeration operating range -5°C to 55°C, heating -27°C to 21°C

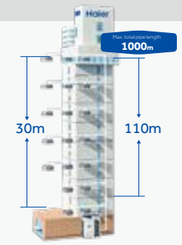
Super Convenience

Total pipe length 1000m, height drop 110m

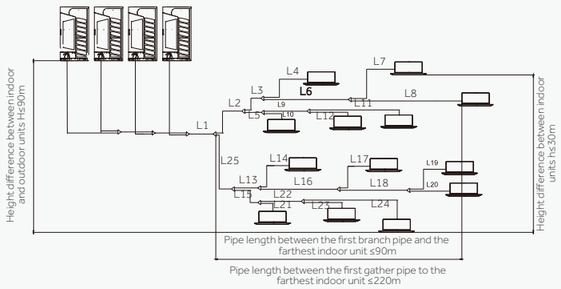
•Max. total pipe length 1000m
•Max. actual pipe length 220m
•Max. equivalent pipe length 260m
•Max. drop between IDU&ODU / 90m (outdoor unit up) / 110m (outdoor unit down)
•Max. drop between IDU&IDU 30m*

* if the total pipe length is between 300m and 1100m or the drop between IDU and ODU more than 50m, please contact your local dealer.

No1 High Drop Tower



Allowable plpe length and helght dlfference between indoor and outdoor unit (outdoor unit above)



Pipe length and height difference (m)		Allowable value	For example
Single way total pipe length		≤1000	L1+2*+(L2+L3+L5+L6+L9+L13+L15+L16+L18 +L22+L25)+L4+L7+L8+L10+L11+L12+L14 +L17+L19+L20+L21+L23+L24
Pipe length between the first gather pipe to the farthest indoor unit	Actual length	≤220*1	L1+L2+L3+L6+L8
	Equivalent length	≤260	
Pipe length between the first gather pipe and the first branch pipe(main pipe)		≤130	L1
Pipe length between the first branch pipe and the farthest indoor unit		≤90*2	L2+L3+L6+L8
Pipe length between indoor units and the nearest branch pipe		≤40*3	L4/L7/L8/L10/L11/L12/L14/L17/ L19/L20/L21/L23/L24
Pipe length difference between the nearest indoor unit and the farthest indoor unit		≤40	L2+L3+L6+L8-L2-L5-L10
Height difference between indoor and outdoor units	Outdoor unit above	≤90*4	H
	Outdoor unit under	≤110*5	
Height difference between indoor units		≤30*6	h

Smart link

Wireless connection and communication between indoor units.

•Labor saving
•Automatic network connection
•Convenient maintenance
•Stable performance
•Total cost saving is about 30%

Super Convenience

Auto addressing indoor units

The ODU can automatically address to the indoor unit through the module on PCB, and the controller can search and set the address of the indoor unit, more convenient.

Rotary electric control box design

Rotary electric control box design, while maintaining the internal space, maintainer only need to rotate the box, do not need to dismantle the box, easy and fast maintenance.

Automatic dust removal function

According to the ash accumulation on the outdoor heat exchanger, the unit will blow away the dust, according to the reverse operation of the fan.

110Pa external static pressure design

The static pressure of the air outlet is up to 110Pa, which can meet the cooling effect of the layered arrangement of the outdoor unit.

Installation of duct

The outdoor unit is hidden inside the building without affecting the overall image of the building

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

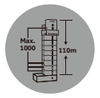
Model				AV08NMVETB	AV10NMVETB	AV12NMVETB
	Combination model			/	/	/
				/	/	/
				/	/	/
				/	/	/
Capacity	Capacity range		HP	8	10	12
	Cooling@T1		kW	25.2	27.9	33.3
	Cooling@T3		kW	23.1	25.2	30
	Heating		kW	27.0	33.5	37.5
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	5.93	6.83	8.48
		Max. power input	kW	15.10	16.32	20.69
		Rated current	A	9.90	11.40	14.16
		Max. current	A	25.14	27.17	34.50
	Cooling @T3	Rated power input	kW	7.03	8.40	10.24
		Rated current	A	11.74	14.03	17.10
	Heating	Rated power input	kW	5.78	7.28	8.63
		Max. power input	kW	12.19	12.69	19.56
		Rated current	A	9.64	12.16	14.41
		Max. current	A	20.30	21.13	32.57
Performance	EER@T1		W/W	4.25	4.09	3.93
	EER@T3		W/W	3.29	3.00	2.93
	COP		W/W	4.65	4.60	4.35
	Air flow (H)		m^3/h	12000	12000	13500
	Sound pressure level (H)		dB(A)	58	59	60
	Sound power level (H)		dB(A)	72	73	74
Installation	External dimensions(W/D/H)		mm	980/750/1690	980/750/1690	980/750/1690
	Shipping dimensions(W/D/H)		mm	1070/850/1858	1070/850/1858	1070/850/1858
	Net weight		kg	255	255	255
	Shipping weight		kg	280	280	280
	Compressor type			DC INV. SCROLL		
	Compressor brand			MITSUBISHI ELECTRIC		
	Compressor quantity			1INV	1INV	1INV
	Refrigerant type			R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10
	Refrigerant liquid pipe		mm	9.52	9.52	12.7
	Refrigerant gas pipe		mm	19.05	22.22	25.4
	Max.total pipe length		m	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30
	Standard drop between I.U. *4		m	18	18	18
	External static pressure		Pa	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130
	Maximum number of indoor units			13	16	20
Working Temp.	Cooling		℃	-5~55		
	Heating		℃	-20~15.5		

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27℃ DB/19℃ WB,Outdoor Temp. 35℃ DB/24WB;in heating, indoor Temp. is 20℃ DB,in heating, outdoor Temp. is 7℃ DB/6℃WB)

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Auto Addressing Indoor Units

Stable Working Under High Temperature

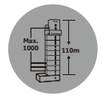
Model				AV14NMVETB	AV16NMVETB	AV18NMVETB	AV20NMVETB	AV22NMVETB
	Combination model			/	/	/	/	AV10NMVETB
				/	/	/	/	AV12NMVETB
				/	/	/	/	/
				/	/	/	/	/
Capacity	Capacity range		HP	14	16	18	20	22
	Cooling@T1		kW	40	45	50	56	61.2
	Cooling@T3		kW	36	40.5	43	45	55.2
	Heating		kW	45.0	50.0	56.0	63.0	71.00
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	10.23	11.66	13.19	14.74	15.31
		Max. power input	kW	25.90	28.91	32.81	35.35	37.0
		Rated current	A	17.08	19.46	22.03	24.61	25.56
		Max. current	A	40.30	46.30	54.12	58.86	61.79
	Cooling @T3	Rated power input	kW	12.55	14.16	15.09	16.07	18.64
		Rated current	A	20.95	23.64	25.19	26.83	31.12
	Heating	Rated power input	kW	10.44	11.81	13.40	15.37	15.91
		Max. power input	kW	21.93	24.70	30.40	32.45	32.3
		Rated current	A	17.42	19.71	22.37	25.66	26.57
		Max. current	A	36.51	41.13	50.62	54.03	53.85
Performance	EER@T1		W/W	3.91	3.86	3.79	3.80	4.00
	EER@T3		W/W	2.87	2.86	2.85	2.80	2.96
	COP		W/W	4.30	4.20	4.15	4.10	4.45
	Air flow (H)		m^3/h	17000	17000	18000	19000	25500
	Sound pressure level (H)		dB(A)	61	62	63	64	59+60
	Sound power level (H)		dB(A)	75	76	77	78	73+74
Installation	External dimensions(W/D/H)		mm	1410/750/1690	1410/750/1690	1410/750/1690	1410/750/1690	980/750/1690+980/750/1690
	Shipping dimensions(W/D/H)		mm	1515/850/1858	1515/850/1858	1515/850/1858	1515/850/1858	1070/850/1858+1070/850/1858
	Net weight		kg	385	385	385	385	255+255
	Shipping weight		kg	410	410	410	410	280+280
	Compressor type			DC INV. SCROLL	DC INV. SCROLL			
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC			
	Compressor quantity			2INV	2INV	2INV	2INV	1INV+1INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	10	10+10
	Refrigerant liquid pipe		mm	12.7	12.7	15.88	15.88	15.88
	Refrigerant gas pipe		mm	25.4	28.58	28.58	28.58	28.58
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			24	27	30	33	36
Working Temp.	Cooling		℃	-5~55	-5~55			
	Heating		℃	-20~15.5	-20~15.5			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Auto Addressing Indoor Units

Stable Working Under High Temperature

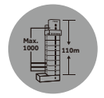
Model				AV24NMVETB	AV26NMVETB	AV28NMVETB	AV30NMVETB	AV32NMVETB
	Combination model			AV12NMVETB	AV12NMVETB	AV12NMVETB	AV14NMVETB	AV16NMVETB
				AV12NMVETB	AV14NMVETB	AV16NMVETB	AV16NMVETB	AV16NMVETB
				/	/	/	/	/
				/	/	/	/	/
Capacity	Capacity range		HP	24	26	28	30	32
	Cooling@T1		kW	66.6	73.3	78.3	85	90
	Cooling@T3		kW	60	66	70.5	76.5	81
	Heating		kW	75.00	82.50	87.50	95.00	100.00
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	16.96	18.71	20.14	21.89	23.32
		Max. power input	kW	41.38	46.59	49.60	54.81	57.82
		Rated current	A	28.32	31.24	33.62	36.55	38.93
		Max. current	A	69.09	77.79	82.81	91.51	96.54
	Cooling @T3	Rated power input	kW	20.48	22.79	24.40	26.71	28.32
		Rated current	A	34.19	38.05	40.74	44.59	47.29
	Heating	Rated power input	kW	17.26	19.07	20.44	22.24	23.61
		Max. power input	kW	39.12	41.49	44.26	46.63	49.40
		Rated current	A	28.82	31.83	34.12	37.14	39.43
		Max. current	A	65.32	69.27	73.90	77.86	82.48
Performance	EER@T1		W/W	3.93	3.92	3.89	3.88	3.86
	EER@T3		W/W	2.93	2.90	2.89	2.86	2.86
	COP		W/W	4.35	4.35	4.30	4.25	4.20
	Air flow (H)		m^3/h	27000	30500	30500	34000	34000
	Sound pressure level (H)		dB(A)	60+60	60+61	60+62	61+62	62+62
	Sound power level (H)		dB(A)	74+74	74+75	74+76	75+76	76+76
Installation	External dimensions(W/D/H)		mm	980/750/1690+980/750/1690	980/750/1690+1410/750/1690	980/750/1690+1410/750/1690	1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690
	Shipping dimensions(W/D/H)		mm	1070/850/1858+1070/850/1858	1070/850/1858+1515/850/1858	1070/850/1858+1515/850/1858	1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858
	Net weight		kg	255+255	255+385	255+385	385+385	385+385
	Shipping weight		kg	280+280	280+410	280+410	410+410	410+410
	Compressor type			DC INV. SCROLL	DC INV. SCROLL			
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC			
	Compressor quantity			1INV+1INV	1INV+2INV	1INV+2INV	2INV+2INV	2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10	10+10	10+10	10+10	10+10
	Refrigerant liquid pipe		mm	15.88	15.88	15.88	19.05	19.05
	Refrigerant gas pipe		mm	28.58	28.58	28.58	31.8	31.8
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			40	43	47	50	53
Working Temp.	Cooling		℃	-5~55	-5~55			
	Heating		℃	-20~15.5	-20~15.5			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Auto Addressing Indoor Units

Stable Working Under High Temperature

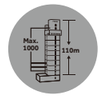
Model				AV34NMVETB	AV36NMVETB	AV38NMVETB	AV40NMVETB	AV42NMVETB
	Combination model			AV16NMVETB	AV18NMVETB	AV18NMVETB	AV20NMVETB	AV14NMVETB
				AV18NMVETB	AV18NMVETB	AV20NMVETB	AV20NMVETB	AV14NMVETB
				/	/	/	/	AV14NMVETB
				/	/	/	/	/
Capacity	Capacity range		HP	34	36	38	40	42
	Cooling@T1		kW	95	100	106	112	120
	Cooling@T3		kW	83.5	86	88	90	108
	Heating		kW	106.00	112.00	119.00	126.00	135.00
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	24.85	26.39	27.93	29.48	30.69
		Max. power input	kW	61.72	65.62	68.16	70.70	77.70
		Rated current	A	41.49	44.06	46.64	49.22	51.24
		Max. current	A	103.05	109.56	113.80	118.04	129.73
	Cooling @T3	Rated power input	kW	29.25	30.18	31.16	32.14	37.64
		Rated current	A	48.84	50.38	52.02	53.66	62.85
	Heating	Rated power input	kW	25.20	26.79	28.76	30.73	31.31
		Max. power input	kW	55.10	60.80	62.85	64.90	65.79
		Rated current	A	42.08	44.74	48.02	51.31	52.27
		Max. current	A	92.00	101.52	104.94	108.36	109.85
Performance	EER@T1		W/W	3.82	3.79	3.79	3.80	3.91
	EER@T3		W/W	2.85	2.85	2.82	2.80	2.87
	COP		W/W	4.20	4.15	4.15	4.10	4.30
	Air flow (H)		m^3/h	35000	36000	37000	38000	51000
	Sound pressure level (H)		dB(A)	62+63	63+63	63+64	64+64	61+61+61
	Sound power level (H)		dB(A)	76+77	77+77	77+78	78+78	75+75+75
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858
	Net weight		kg	385+385	385+385	385+385	385+385	385+385+385
	Shipping weight		kg	410+410	410+410	410+410	410+410	410+410+410
	Compressor type			DC INV. SCROLL	DC INV. SCROLL			
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC			
	Compressor quantity			2INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10	10+10	10+10	10+10	10+10+10
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.8	38.1	38.1	38.1	38.1
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			56	59	63	64	64
Working Temp.	Cooling		℃	-5~55	-5~55			
	Heating		℃	-20~15.5	-20~15.5			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Auto Addressing Indoor Units

Stable Working Under High Temperature

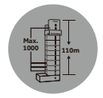
Model				AV44NMVETB	AV46NMVETB	AV48NMVETB	AV50NMVETB	AV52NMVETB
	Combination model			AV14NMVETB	AV14NMVETB	AV16NMVETB	AV16NMVETB	AV16NMVETB
				AV14NMVETB	AV16NMVETB	AV16NMVETB	AV16NMVETB	AV18NMVETB
				AV16NMVETB	AV16NMVETB	AV16NMVETB	AV18NMVETB	AV18NMVETB
				/	/	/	/	/
Capacity	Capacity range		HP	44	46	48	50	52
	Cooling@T1		kW	125	130	135	140	145
	Cooling@T3		kW	112.5	117	121.5	124	126.5
	Heating		kW	140.00	145.00	150.00	156	162
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	32.12	33.55	34.97	36.51	38.05
		Max. power input	kW	80.71	83.72	86.73	90.63	94.53
		Rated current	A	53.63	56.01	58.39	60.96	63.52
		Max. current	A	134.76	139.78	144.81	151.32	157.83
	Cooling @T3	Rated power input	kW	39.26	40.87	42.48	43.41	44.34
		Rated current	A	65.55	68.24	70.93	72.48	74.03
	Heating	Rated power input	kW	32.68	34.05	35.42	37.01	38.60
		Max. power input	kW	68.56	71.33	74.10	79.8	85.5
		Rated current	A	54.56	56.85	59.14	61.79	64.45
		Max. current	A	114.47	119.10	123.72	133.24	142.76
Performance	EER@T1		W/W	3.89	3.88	3.86	3.83	3.81
	EER@T3		W/W	2.87	2.86	2.86	2.86	2.85
	COP		W/W	4.30	4.25	4.20	4.20	4.20
	Air flow (H)		m^3/h	51000	51000	51000	52000	53000
	Sound pressure level (H)		dB(A)	61+61+62	61+62+62	62+62+62	62+62+63	62+63+63
	Sound power level (H)		dB(A)	75+75+76	75+76+76	76+76+76	76+76+77	76+77+77
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858			
	Net weight		kg	385+385+385	385+385+385	385+385+385	385+385+385	385+385+385
	Shipping weight		kg	410+410+410	410+410+410	410+410+410	410+410+410	410+410+410
	Compressor type			DC INV. SCROLL	DC INV. SCROLL			
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC			
	Compressor quantity			2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10	10+10+10	10+10+10	10+10+10	10+10+10
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	38.1
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64
Working Temp.	Cooling		℃	-5~55	-5~55			
	Heating		℃	-20~15.5	-20~15.5			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB,Outdoor Temp. 35°C DB/24WB,in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Auto Addressing Indoor Units

Stable Working Under High Temperature

Model				AV54NMVETB	AV56NMVETB	AV58NMVETB	AV60NMVETB
	Combination model			AV18NMVETB	AV18NMVETB	AV18NMVETB	AV20NMVETB
				AV18NMVETB	AV18NMVETB	AV20NMVETB	AV20NMVETB
				AV18NMVETB	AV20NMVETB	AV20NMVETB	AV20NMVETB
				/	/	/	/
Capacity	Capacity range		HP	54	56	58	60
	Cooling@T1		kW	150	156	162	168
	Cooling@T3		kW	129	131	133	135
	Heating		kW	168	175	182	189
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	39.58	41.13	42.67	44.22
		Max. power input	kW	98.43	100.97	103.51	106.05
		Rated current	A	66.09	68.67	71.25	73.83
		Max. current	A	164.34	168.59	172.83	177.07
	Cooling @T3	Rated power input	kW	45.26	46.25	47.23	48.21
		Rated current	A	75.57	77.21	78.85	80.49
	Heating	Rated power input	kW	40.19	42.16	44.13	46.10
		Max. power input	kW	91.2	93.25	95.3	97.35
		Rated current	A	67.11	70.39	73.68	76.97
		Max. current	A	152.27	155.70	159.12	162.54
Performance	EER@T1		W/W	3.79	3.79	3.80	3.80
	EER@T3		W/W	2.85	2.83	2.82	2.80
	COP		W/W	4.15	4.15	4.10	4.10
	Air flow (H)		m^3/h	54000	55000	56000	57000
	Sound pressure level (H)		dB(A)	63+63+63	63+63+64	63+64+64	64+64+64
	Sound power level (H)		dB(A)	77+77+77	77+77+78	77+78+78	78+78+78
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858		
	Net weight		kg	385+385+385	385+385+385	385+385+385	385+385+385
	Shipping weight		kg	410+410+410	410+410+410	410+410+410	410+410+410
	Compressor type			DC INV. SCROLL	DC INV. SCROLL		
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC		
	Compressor quantity			2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV	2INV+2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10	10+10+10	10+10+10	10+10+10
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	38.1	38.1	41.3	41.3
	Max.total pipe length		m	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18
	External static pressure		Pa	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64
Working Temp.	Cooling		℃	-5~55	-5~55		
	Heating		℃	-20~15.5	-20~15.5		

Max. drop between I.U.&O.U *1
Standard drop between I.U.&O.U *2
Max. drop between I.U. *3
Standard drop between I.U. *4

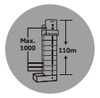
If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard design and production in the factory.

* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Auto Addressing Indoor Units

Stable Working Under High Temperature

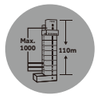
Model				AV62NMVETB	AV64NMVETB	AV66NMVETB	AV68NMVETB	AV70NMVETB
	Combination model			AV14NMVETB	AV16NMVETB	AV16NMVETB	AV16NMVETB	AV16NMVETB
				AV16NMVETB	AV16NMVETB	AV16NMVETB	AV16NMVETB	AV18NMVETB
				AV16NMVETB	AV16NMVETB	AV16NMVETB	AV18NMVETB	AV18NMVETB
				AV16NMVETB	AV16NMVETB	AV18NMVETB	AV18NMVETB	AV18NMVETB
Capacity	Capacity range		HP	62	64	66	68	70
	Cooling@T1		kW	175	180	185	190	195
	Cooling@T3		kW	157.5	162	164.5	167	169.5
	Heating		kW	195	200	206	212	218
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	45.20	46.63	48.17	49.70	51.24
		Max. power input	kW	112.63	115.64	119.54	123.44	127.34
		Rated current	A	75.48	77.86	80.42	82.99	85.55
		Max. current	A	188.05	193.08	199.59	206.10	212.61
	Cooling @T3	Rated power input	kW	55.03	56.64	57.57	58.50	59.42
		Rated current	A	91.88	94.57	96.12	97.67	99.22
	Heating	Rated power input	kW	45.86	47.23	48.82	50.41	52.00
		Max. power input	kW	96.03	98.8	104.5	110.2	115.9
		Rated current	A	76.56	78.85	81.51	84.16	86.82
		Max. current	A	160.34	164.96	174.48	184.00	193.51
Performance	EER@T1		W/W	3.87	3.86	3.84	3.82	3.81
	EER@T3		W/W	2.86	2.86	2.86	2.85	2.85
	COP		W/W	4.25	4.20	4.20	4.20	4.20
	Air flow (H)		m^3/h	68000	68000	69000	70000	71000
	Sound pressure level (H)		dB(A)	61+62+62+62	62+62+62+62	62+62+62+63	62+62+63+63	62+63+63+63
	Sound power level (H)		dB(A)	75+76+76+76	76+76+76+76	76+76+76+77	76+76+77+77	76+77+77+77
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858			
	Net weight		kg	385+385+385+385	385+385+385+385	385+385+385+385	385+385+385+385	385+385+385+385
	Shipping weight		kg	410+410+410+410	410+410+410+410	410+410+410+410	410+410+410+410	410+410+410+410
	Compressor type			DC INV. SCROLL	DC INV. SCROLL			
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC			
	Compressor quantity			2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	22.22	22.22
	Refrigerant gas pipe		mm	41.3	41.3	41.3	44.5	44.5
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64
Working Temp.	Cooling		℃	-5~55	-5~55			
	Heating		℃	-20~15.5	-20~15.5			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

AV08NMVETB
AV10NMVETB
AV12NMVETB

AV14NMVETB
AV16NMVETB
AV18NMVETB
AV20NMVETB

3/380~415/50/60



Total Pipe Length 1000m, Height Drop 110m

EVI Compressors

Auto Addressing Indoor Units

Stable Working Under High Temperature

Model				AV72NMVETB	AV74NMVETB	AV76NMVETB	AV78NMVETB	AV80NMVETB
	Combination model			AV18NMVETB	AV18NMVETB	AV18NMVETB	AV18NMVETB	AV20NMVETB
				AV18NMVETB	AV18NMVETB	AV18NMVETB	AV20NMVETB	AV20NMVETB
				AV18NMVETB	AV18NMVETB	AV20NMVETB	AV20NMVETB	AV20NMVETB
				AV18NMVETB	AV20NMVETB	AV20NMVETB	AV20NMVETB	AV20NMVETB
Capacity	Capacity range		HP	72	74	76	78	80
	Cooling@T1		kW	200	206	212	218	224
	Cooling@T3		kW	172	174	176	178	180
	Heating		kW	224	231	238	245	252
Electrical Parameters	Power supply		Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Cooling @T1	Rated power input	kW	52.77	54.32	55.87	57.41	58.96
		Max. power input	kW	131.24	133.78	136.32	138.86	141.4
		Rated current	A	88.12	90.70	93.28	95.86	98.44
		Max. current	A	219.13	223.37	227.61	231.85	236.09
	Cooling @T3	Rated power input	kW	60.35	61.33	62.32	63.30	64.28
		Rated current	A	100.77	102.41	104.05	105.69	107.33
	Heating	Rated power input	kW	53.59	55.56	57.53	59.49	61.46
		Max. power input	kW	121.6	123.65	125.7	127.75	129.8
		Rated current	A	89.47	92.76	96.05	99.34	102.62
		Max. current	A	203.03	206.45	209.88	213.30	216.72
Performance	EER@T1		W/W	3.79	3.79	3.79	3.80	3.80
	EER@T3		W/W	2.85	2.84	2.82	2.81	2.80
	COP		W/W	4.15	4.15	4.15	4.10	4.10
	Air flow (H)		m^3/h	72000	73000	74000	75000	76000
	Sound pressure level (H)		dB(A)	63+63+63+63	63+63+63+64	63+63+64+64	63+64+64+64	64+64+64+64
	Sound power level (H)		dB(A)	77+77+77+77	77+77+77+78	77+77+78+78	77+78+78+78	78+78+78+78
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690			
	Shipping dimensions(W/D/H)		mm	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858	1515/850/1858+1515/850/1858+1515/850/1858+1515/850/1858			
	Net weight		kg	385+385+385+385	385+385+385+385	385+385+385+385	385+385+385+385	385+385+385+385
	Shipping weight		kg	410+410+410+410	410+410+410+410	410+410+410+410	410+410+410+410	410+410+410+410
	Compressor type			DC INV. SCROLL	DC INV. SCROLL			
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC			
	Compressor quantity			2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV	2INV+2INV+2INV+2INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10	10+10+10+10
	Refrigerant liquid pipe		mm	22.22	22.22	22.22	22.22	22.22
	Refrigerant gas pipe		mm	44.5	44.5	44.5	44.5	44.5
	Max.total pipe length		m	1000	1000	1000	1000	1000
	Max. pipe length(Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220
	Max. drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max. drop between I.U. *3		m	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18
	External static pressure		Pa	110	110	110	110	110
Connection Ratio	Connectable indoor unit ratio		%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units			64	64	64	64	64
Working Temp.	Cooling		℃	-5~55	-5~55			
	Heating		℃	-20~15.5	-20~15.5			

Max. drop between I.U.&O.U *1 — If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U.&O.U *2 — Standard design and production in the factory.
Max. drop between I.U. *3 — If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
Standard drop between I.U. *4 — Standard design and production in the factory.
* All the specifications are tested under nominal condition(in cooling, indoor Temp. is 27°C DB/19°C WB;Outdoor Temp. 35°C DB/24WB;in heating, indoor Temp. is 20°C DB,in heating, outdoor Temp. is 7°C DB/6°CWB)

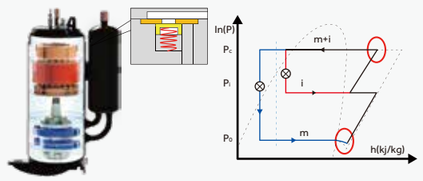
MRV S^{II}-T3

221 Features & Benefits
226 MRV S^{II} Outdoor
230 Dimensions

Advanced Technology

Increasing enthalpy by replenish gas, realize the unit powerful heating capacity

Taking the heating cycle as an example, when environment tempetature is low, heat exchanged capability of outdoor unit is depressed. The amount of air returned by compressor is reduced, increase the amount of refrigerant in the heating cycle of the indoor unit heat exchanger, thereby achieving improved heating capacity.



DC inverter fan motor

•DC inverter fan motor more higher efficiency in part load running

•16-stage speed control; high efficiency running especially in low speed

•Efficiency increase 45% comparing with AC motor and power input largely decrease

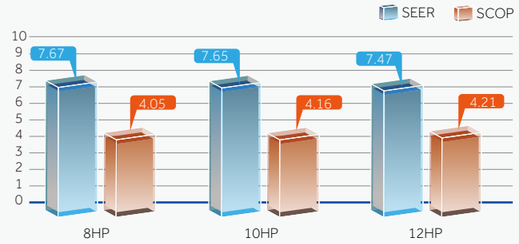
•Big diameter fan

•570mm big diameter fan, more big air flow and more higher efficiency(8/10/12HP)

Advanced Technology

High EER and COP(8/10/12HP)

The promotion of energy efficiency.



Leadership in technology(4-6HP)

•Two-stage supercooling cycle technology, increased unit efficiency by 9%(Double fan).

•Maximizing 30°C undercooling, increase unit refrigerating capacity by 46%.

Upgraded configuration, upgraded performance (8/10/12HP side discharge)

Bigger outdoor capacity, more flexible application

High efficiency DC fan motor

•DC fan motor with stepless inverter control, efficiency increase 45% comparing with AC motor and power input largely decrease

Large diameter fan

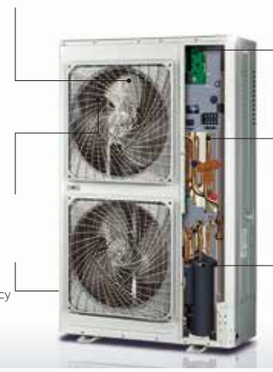
•Ø570mm big diameter axial flow fan

•Zigzag design, reduce airflow disturbance, air volume is bigger, the noise is lower

High efficiency condenser

•New type high efficiency Ø7 inner grooved tube

•New hydrophilic corrugated fissure fin, high efficiency



Vector inverter control

•180 degrees sine wave vector control, 64-bit operation

•High precision control, to achieve high efficiency and lower noise

Double pressure sensor

•Equipped with high and low voltage pressure double sensors

•Accurate pressure control, the system run more smoothly, more energy efficiency

Twin rotary DC Inverter compressor

•High chamber DC inverter twin rotary compressor

•Small vibration, low noise, high energy efficiency

Indoor units and outdoor units self-cleaning

Indoor units and outdoor units cleaning mode conversion with nonstop, make abundant use of ODU waste heat to IDU defrosting. At the same time, the IDU uses the waste heat of the ODU to defrost the heat exchanger, to dry the condensed water, effectively prevent mold breeding.

Condensation　Frosting　Powerful rinsing　Outdoor self-cleaning

High Efficiency

High energy efficiency

DC inverter compressor
Haier takes DC INV. compressor, 5% power input lower(14kW).

DC fan motor and 550mm big fan
38% power input l ower and 8% airflow higher

Larger heat exchanger
Heat exchange area rise 10%

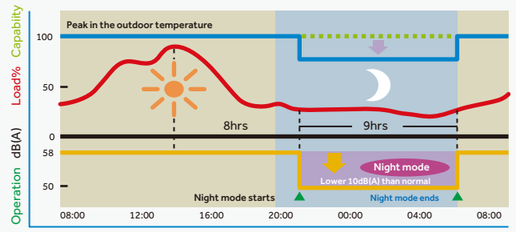
Charge valve
Built-in charge valve enables safer and easier maintenance

Low standby power
New PCB programme, reduce 20% standby power consumption

Low noise level

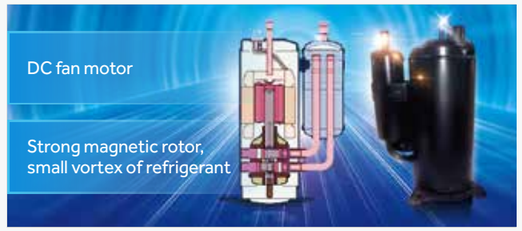
Night quiet operation function

Noise can be reduced to 45dB(A).



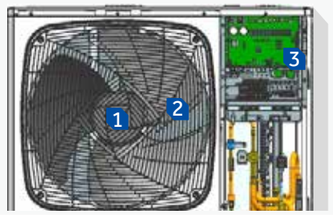
New DC inverter twin rotary compressor

•Small torque change, good dynamic balance, the system runs stably, little vibration, low noise, high efficiency.
•More higher efficiency in part load running.



Super Comfort

1. New aerodynamics fan 550mm super big diameter aerospace helix fan. lowering sound level 3dB(A).
2. Enlarged air inlet path and spiral air outlet path Air flow direction follows the grill direction.lowering sound level 2-4dB(A).
3. Automatic sound-lowering programme night mode set by PCB, 8dB(A) lower .



Low noise operation

•DC inverter compressor, smooth operation, no need frequent start the compressor, effectively reduce the noise outdoor.
•Vector inverter control, more precise control.
•DC fan motor, motor bracket used the non-resonance structure, ensure smooth running of the motor, reduce operating noise.
•Big diameter fan, design according to aviation quieter principle.

Easy installation

Compact side discharge design, big capacity, small footprint / small footprint, only 0.42m², 43% floor area can be reduced.

Easy Installation

1. **Double side “4 ” handles**
   Easy to carry
2. **“888” test panel**
   All running data & error code can be checked from "888" screen, which is easy for installers
3. **“Four-way” pipe connection**
   4-way (front,back, left & right) pipe connection, easy to design and install

Long pipe length, high height drop

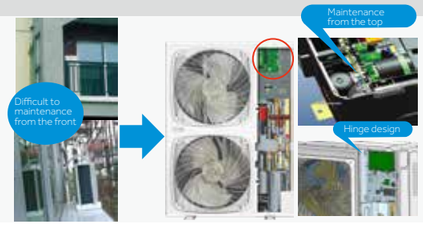
•Total pipe length: 300m.
•Single pipe length: Max.175m.
•From outdoor to the first branch pipe: 135m.
•From the first branch to the farthest indoor door unit: 40m.
•Height drop: 50m(outdoor above)/40m (outdoor below).
•Height drop between indoor units: 15m.

Parameter display panel

The first original parameter display panel on the side.
The parameter can be observed directly by opening the protective cover in case of maintenance, to avoid removing the repair board.

Easy maintenance for control

The control box is in front, reserving space 108mm between control box and top panel, easy maintenance from the top control box is with hinge design, easy to open for maintenance(8/10/12HP).

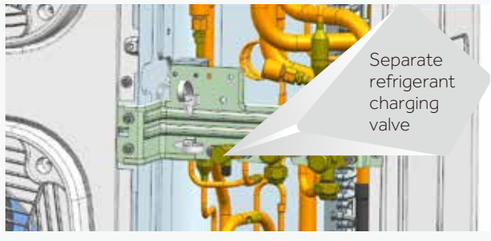


Compact side discharge design

No need additional ventilation hood comparing with top discharge unit.

Separate refrigerant charging valve

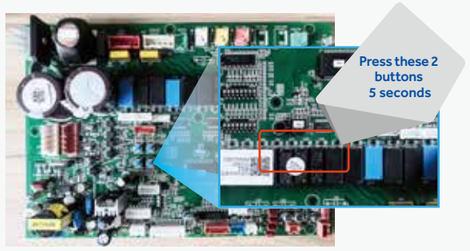
Easy for refrigerant charging.



High Reliability

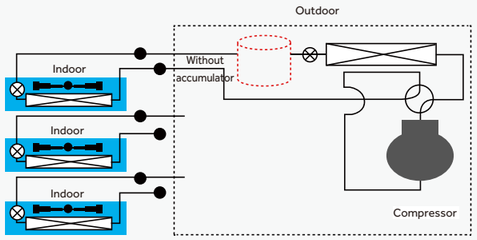
Refrigerant automatically reclaim technology

Set refrigerant automatically reclaim through dip switch, the refrigerant in indoor and pipe can be automatically return to outdoor, convenient in maintenance and reducing waste of refrigerant, reduce customer maintenance cost, improve the efficiency of after-sales maintenance.



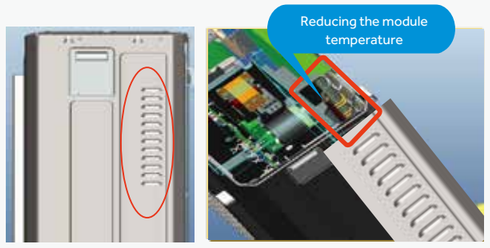
Refrigerant control technology

Refrigerant control technology without high pressure accumulator, reducing the refrigerant volume and enhancing the running efficiency.



Air inlet grill design on right side panel

Air inlet grill design, reducing the module temperature and avoid air dust into air conditioner.



High and low double pressure sensor

•Double pressure sensor with PID control technology.
•Together with high speed communication to realize the quick start of compressor and more precise control, the temperature can be control ±0.5°C.

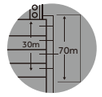
AU042FNERA
AU052FNERA

Model			AU042FNERA	AU052FNERA
Capacity (1)	Capacity range	HP	4	5
	Cooling	kW	12.1	14.0
	Heating	kW	12.1	14.0
	Heating(Max.)	kW	14.0	15.5
	SEER(T1)	/	4.90	4.85
	η s.c	%	193	191
	SCOP(T1)	/	3.50	3.55
	η s.h	%	137	139
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60
	Rated power input (Cooling)	kW	4.25	5.00
	Rated power input (Heating)	kW	4.10	4.83
Dimensions	External (W/D/H)	mm	950/370/965	950/370/965
	Shipping (W/D/H)	mm	1010/458/990	1010/458/990
Weight	Net/Shipping weight	kg	90/102	90/102
Compressor	Compressor type	/	Rotary	Rotary
	Motor power	W	4130	4130
	Compressor quantity	/	1	1
Fan	Air flow (H)	m^3/h	5400	5400
Pressure Sound level	Cooling	dB(A)	58	60
	Heating	dB(A)	60	62
Refrigerant	Type	/	R410A	R410A
	Charge	kg	3.3	3.3
Piping	Refrigerant liquid pipe	mm	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88
	Total pipe length	m	120	120
	Max. pipe length(Equivalent/Actual)	m	70/60	70/60
	Max. drop between I.U.&O.U.(ODU above / below)	m	30/20	30/20
	Max. drop between I.U.&I.U.	m	10	10
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130
	Maximum number of indoor units	/	7	8
Working Temp.	Cooling	℃	-5~50	-5~50
	Heating	℃	-15~21	-15~21

(1) All the specifications are tested under nominal condition as per eurovent conditions (In cooling, Indoor Temp. is 27°C DB/19°C WB; Outdoor Temp.35°C DB/24°C WB; In heating, Indoor Temp.is 20°C DB, Outdoor Temp.is 7°C DB/6°C WB)

AU042FPERA
AU052FPERA
AU062FPERA
AU04IFPERA
AU05IFPERA
AU06IFPERA

Double Fan Series



Total Pipe Length 300m

Two Stage Sub-cooling

Easy Connection With 4-way

Model			AU042FPERB	AU052FPERB	AU062FPERB	AU04IFPERB	AU05IFPERB	AU06IFPERB
Capacity(1)	Capacity range	HP	4HP	5HP	6HP	4HP	5HP	6HP
	Cooling@T1	kW	12	14.1	15.6	12	14.1	15.6
	Cooling@T3	kW	11.1	12.6	14.1	11.1	12.6	14.1
	Heating	kW	14.2	15.9	18	14.2	15.9	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Rated power input (Cooling)	kW	2.99	3.51	4.31	2.99	3.51	4.31
	Rated power input (Heating)	kW	3.77	4.25	5.22	3.77	4.25	5.22
Performance	EER@T1	W/W	4.07	3.99	3.6	4.07	3.99	3.6
	EER@T3	W/W	2.99	2.96	2.70	2.99	2.96	2.70
	COP	W/W	4.45	4.30	4.10	4.45	4.30	4.10
	Air flow (H)	m^3/h	7200	7200	7200	7200	7200	7200
Installation	External dimensions (H/W/D)	mm	950/370/1350	950/370/1350	950/370/1350	950/370/1350	950/370/1350	950/370/1350
	Shipping dimensions (H/W/D)	mm	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492	1023/483/1492
	Net Weight/Shipping weight	kg	108/123	108/123	108/123	108/123	108/123	108/123
	Compressor type	/	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Motor power	W	4130	4130	4130	4130	4130	4130
	Compressor quantity	/	1INV	1INV	1INV	1INV	1INV	1INV
	Refrigerant type	/	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	4	4	4	4	4	4
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
	Total pipe length	m	300	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150
	Max. drop between IDU & ODU	m	50	50	50	50	50	50
	Max. drop between IDU & IDU	m	15	15	15	15	15	15
Connection Ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units		8	10	13	8	10	13
Pressure Sound level	Cooling	dB(A)	57	58	59	57	58	59
	Heating	dB(A)	57	58	59	57	58	59
Working Temp.	Cooling	℃	-5-53	-5-53	-5-53	-5-53	-5-53	-5-53
	Heating	℃	-20-27	-20-27	-20-27	-20-27	-20-27	-20-27

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp.is 27°C DB/19°C WB; Outdoor Temp.35°C DB/24°C WB; In heating, Indoor Temp.is 20°C DB, Outdoor Temp.is 7°C DB/6°C WB)

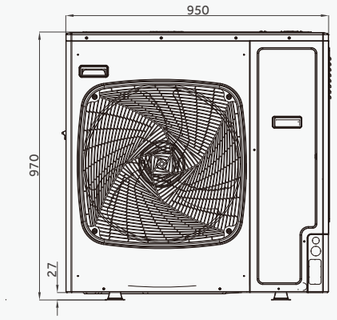
AU08NFKERA
AU10NFKERA
AU12NFKERA

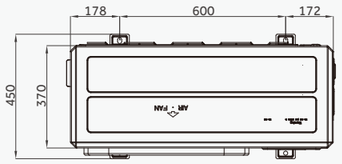
Model			AU08NFKERB	AU10NFKERB	AU12NFKERB
Capacity (1)	Capacity range	HP	8HP	10HP	12HP
	Cooling@T1	kW	22.5	28.2	31.5
	Cooling@T3	kW	18	22.5	25.2
	Heating	kW	22.5	28.2	31.5
Electrical Parameters	Power supply	Ph/V/Hz	3/380~415/50/60	3/380~415/50/60	3/380~415/50/60
	Rated power input (Cooling)	kW	5.92	7.94	9.24
	Rated power input (Heating)	kW	5.36	7.42	9.00
Performance	EER@T1	W/W	3.80	3.55	3.41
	EER@T3	W/W	3.21	3.05	3.00
	COP	W/W	4.20	3.80	3.50
	Air flow (H)	m^3/h	10000	10000	10000
Installation	External dimensions (H/W/D)	mm	1050/400/1636	1050/400/1636	1050/400/1636
	Shipping dimensions (H/W/D)	mm	1150/510/1790	1150/510/1790	1150/510/1790
	Net Weight/Shipping weight	kg	149/168	149/168	149/168
	Compressor type	/	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary
	Motor power	W	6270	6270	6270
	Compressor quantity	/	1INV	1INV	1INV
	Refrigerant type	/	R410A	R410A	R410A
	Refrigerant charge	kg	5.1	5.1	5.1
	Refrigerant liquid pipe	mm	9.52	9.52	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4
	Total pipe length	m	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150
	Max. drop between IDU & ODU	m	50	50	50
	Max. drop between IDU & IDU	m	15	15	15
Connection Ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130
	Maximum number of indoor units		13	16	19
Pressure Sound level	Cooling	dB(A)	57	59	61
	Heating	dB(A)	58	60	62
Working Temp.	Cooling	°C	-5~52	-5~52	-5~52
	Heating	°C	-20~21	-20~21	-20~21

(1) All the specifications are tested under nominal condition as per Eurovent conditions (In cooling, Indoor Temp.is 27°C DB/19°C WB; Outdoor Temp.35°C DB/24°C WB; In heating, Indoor Temp.is 20°C DB, Outdoor Temp.is 7°C DB/6°C WB)

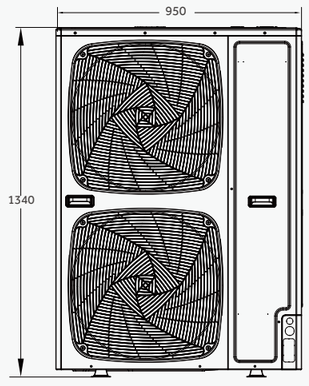
Dimensions

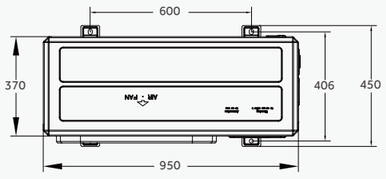
AU042FNERA AU052FNERA



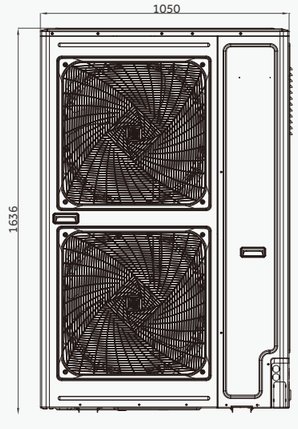


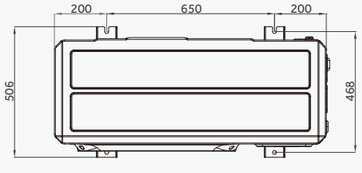
AU042FPERA AU052FPERA AU062FPERA AU04IFPERA AU05IFPERA AU06IFPERA





AU08NFKERA AU10NFKERA AU12NFKERA

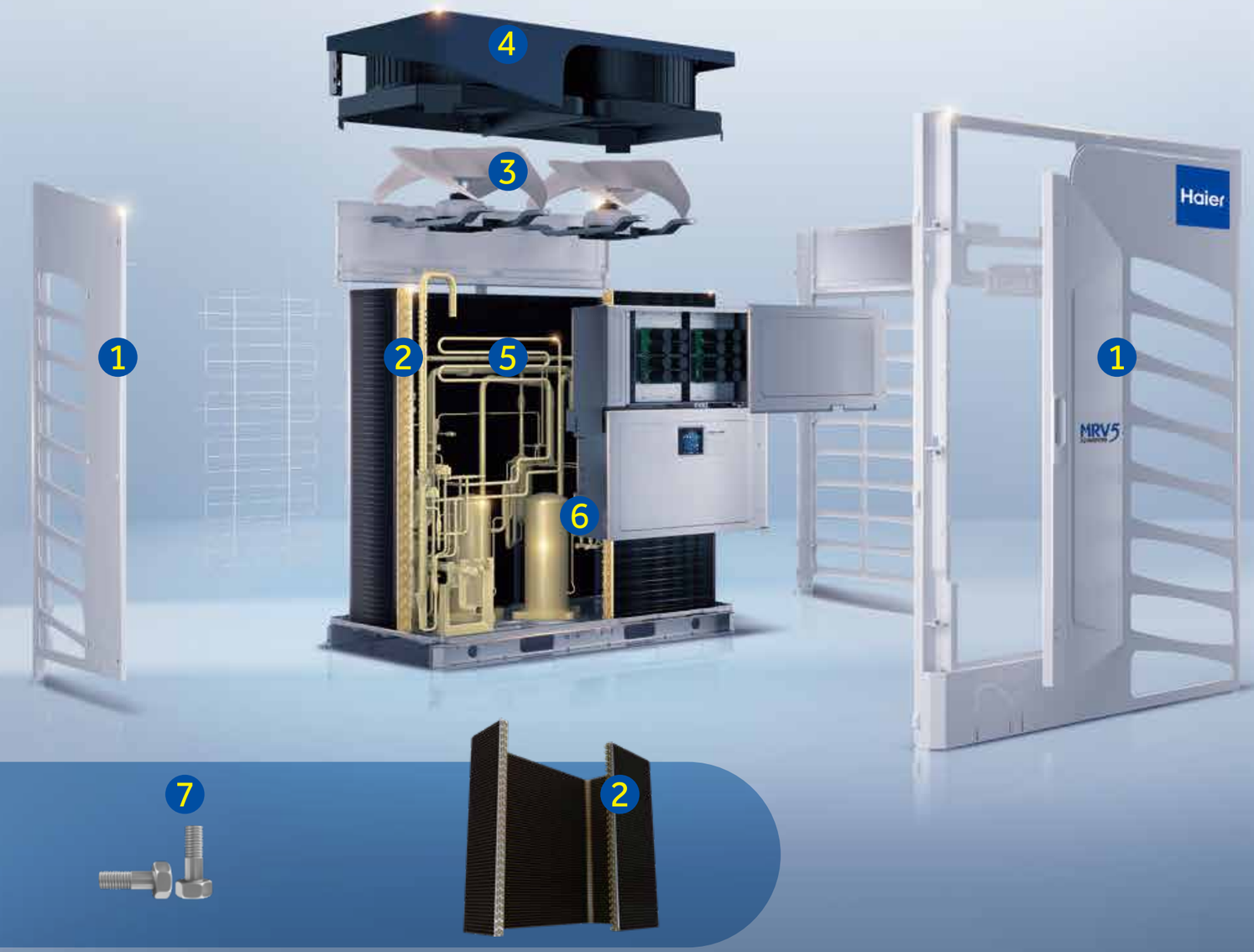




Anti-Corrosion VRF Solution

Haier anti-corrosion VRF solution, with higher corrosion resistant black fin and rust inhibitor coating, is the preferable choice for conditions like seaside, industrial area with high salt & humidity & chemical.

Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment



1	**Front Panel :** Galvanized steel treated with zirconiurn & 80μm-120μm epoxy zinc rich Primer+pure polyester paint coating	500h Neutral salt mist
2	**Heat Exchanger:** Black fin with epoxy resin &hydrophilic film	1500h Neutral salt mist
3	**Fan Motor:** Motor surface with rust preventive coating, the coating thickness is 50μm or more	72h Neutral salt mist
4	**Top Grill :** Steel with 80μm-120μm epoxy zinc rich Primer+pure polyester paint coating 80μm-120μm	500h Neutral salt mist
5	**Piping :** Piping (including the exposed U pipe and other heat exchanging pipe)with the rust inhibitor coating	500h Neutral salt mist
6	**Compressor\Accumulator\Liquid-gas Separator :** appearance with rust preventive coating, the coating thickness is 50μm or more	500h Neutral salt mist
7	**Screw:** All screws are with dacromet coating	1000h Neutral salt mist

EASY MRV Connection Kit

235 Features & Benefits

238 Specification

238 Dimensions

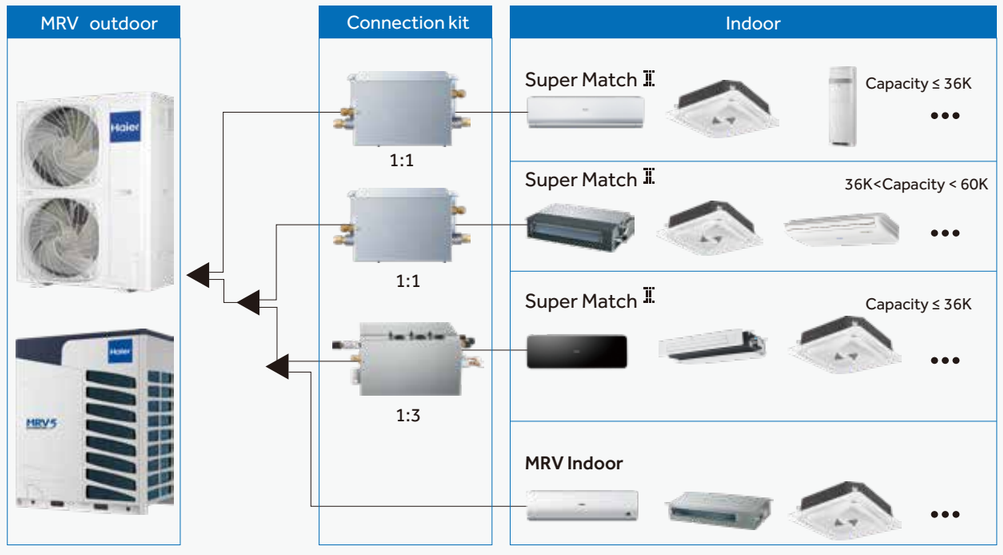
EASY MRV Connection Kit

System Introduction Unit structure

System Introduction

Easy MRV system introduction

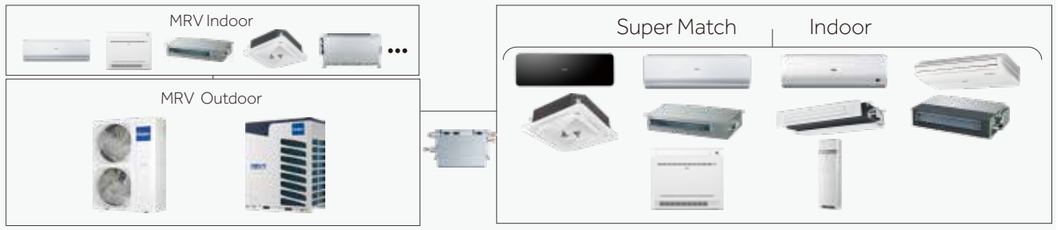
Haier easy MRV kit provides a solution to connect super match indoor units with MRV outdoor units.



System Introduction

Intergraded system solution

Connect MRV with super match together.



Easy MRV line-up

Easy MRV kits provide a solution to connect super match indoor units with MRV outdoor units.

OUTDOOR	MRV5-H	MRV5	MRV IV	MRV III-C^{PLUS} MRV III(2-Pipe)	MRV S^{II}						MRV S^{I}		
HP	8-26	8-26	8-24	8 - 16	4	5	4	5	6	8	10	12	3	5	7
Power supply	3Ph/380-415V/50Hz 3Ph/380-415V/60Hz	3Ph/380-415V/50Hz 3Ph/380-415V/60Hz	3Ph/380-400V/50(60)Hz 3Ph/208-230V/50(60)Hz	3Ph/380-400V/50(60)Hz 3Ph/208-230V/60Hz 3Ph/460V/60Hz	1Ph/220-240V/50Hz 1Ph/220-240V/60Hz		3Ph/380-415V/50(60)Hz 1Ph/220-240V/50(60)Hz			3Ph/380-400V/50Hz 3Ph/380-400V/60Hz			1Ph/220-230V/50Hz 1Ph/220-230V/60Hz	3Ph/380-400V/50(60)Hz 1Ph/220-230V/50(60)Hz	

Valve Box

MS1-036A(1:1) MS1-060A(1:1) MS3-036A(1:3)

Easy MRV super match indoor

Easy MRV indoor is universal indoor unit with super match.

RAC Indoor Unit

Flexis	Expert	Jade	Pearl	IES
AS20S2SF1FA-MB(M) AS20S2SF1FA-MW(M) AS25S2SF1FA-MB AS25S2SF1FA-MW AS35S2SF1FA-MB AS35S2SF1FA-MW AS50S2SF1FA-MB AS50S2SF1FA-MW AS71S2SF1FA-MB AS71S2SF1FA-MW	AS20XCAHRA AS25XCAHRA AS35XCAHRA AS50XCAHRA	AS25S2SJ1FA-3 AS35S2SJ1FA-3 AS50S2SJ1FA-3	AS20PBAHRA AS25PBAHRA AS35PBAHRA AS50PDAHRA AS68PDAHRA	AS20S2SF2FA-3 AS25S2SF2FA-3 AS35S2SF2FA-3 AS50S2SF2FA-3 AS70S2SF2FA-3

Super Match Indoor Unit

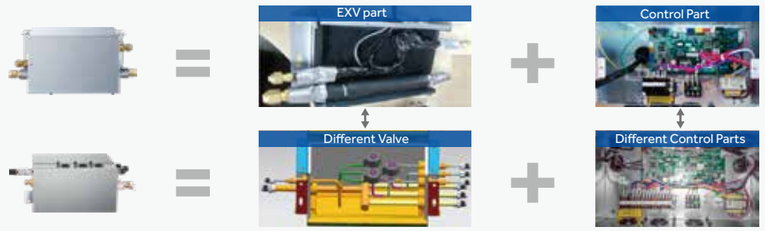
Compact Cassette	Round Way Cassette	Slim Duct	M ESP Duct	H ESP Duct
AB25S2SC2FA-1 AB35S2SC2FA-1 AB50S2SC2FA-1	AB71S2SG1FA ABH105H1ERG ABH125K1ERG ABH140K1ERG ABH160K1ERG	AD25S2SS1FA(H) AD35S2SS1FA(H) AD50S2SS1FA(H) AD71S2SS1FA(H)	AD25S2SM1FA(H) AD35S2SM1FA(H) AD50S2SM1FA(H) AD71S2SM1FA(H) AD35S2SM3FA(H) AD50S2SM3FA(H) AD71S2SM3FA(H) AD105S2SM3FA(H) AD125S2SM3FA AD140S2SM3FA AD160S2SM3FA	ADH125H1ERG ADH140H1ERG

Console	Convertible	Cabinet
AF25S2SD1FA(H) AF35S2SD1FA(H) AF42S2SD1FA(H)	AC35S2SG1FA AC50S2SG1FA AC71S2SG1FA AC105S2SH1FA AC125S2SK1FA AC140S2SK1FA AC160S2SK1FA	AP48KS1ERA(S) AP60KS1ERA(S) AP140S2SK1FA(H)

Unit Structure

Valve box inner structure

Haier easy MRV connection kit consists the following 2 parts.



High compatible

•Provide a new solution with MRV outdoor and super match indoor units to dealers/consumers, more compatible, stock reduced.

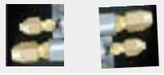
•Super match new Hi-wall NF, NH unit and console type can be directly connected with MRV outdoor.

House / Villa

Apartment

Small Office

Easy installation

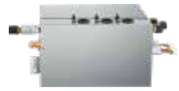
EXV part and control part integration, easy for translation and installation. Gas pipe is integrated into the valve box	Gas pipe no need the bend and welding, easy installation Haier   Traditional
Optional installation location EEV box inlet and outlet pipe can be left or right	Installation can choose lifting or nailed to the wall. Hang Nail to the wall 
Flare connection	Different sizes of nut 

Good performance

Largest indoor capacity	Largest indoor capacity can be up to 60k, the largest indoor in the industry for this integrated system.
Largest outdoor capacity	Largest capacity of side discharge up to 12HP for EASY MRV system. Largest capacity of top discharge up to 26HP for Easy MRV system.
Low noise	Outside EEV box, low noise.
Good parts	FUJIKOKI EEV, good performance and high reliability.

Specification

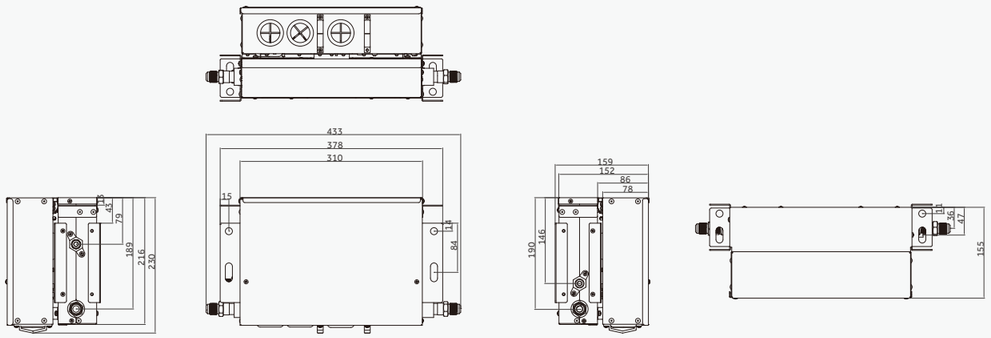
MS1-036A/MS1-060A



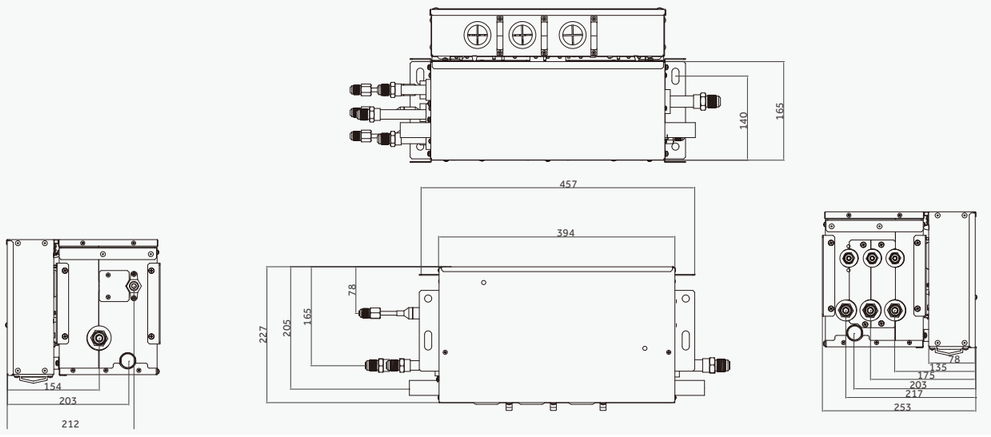
MS3-036A

Model		MS1-036A	MS1-060A	MS3-036A
Connected indoor quantity	/	1	1	3
Connected indoor capacity	Btu/h	x ≤36K	36K＜x≤60K	x ≤36K (each indoor unit)
Power supply	Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Size(W/D/H)	mm	310/217/155	310/217/155	394/227/253
Shipping dimensions	mm	509/285/209	509/285/209	687/295/303
Material	/	Galvanized steel	Galvanized steel	Galvanized steel
Color	/	Grey	Grey	Grey
Net/shipping weight	kg	5/7	5/7	9/12
Liquid pipe	mm	9.52 (Main) / 6.35	9.52 (Main) / 12.7	6.35(Main)/9.52 9.52(Main)/12.7
Gas pipe (mm)	mm	15.88(Main)/ 12.7 / 9.52	19.05(Main)/ 15.88	19.05(Main)/ 15.88 15.88(Main)/ 12.7 / 9.52
Pipe connection method	/	Flare connection	Flare connection	Flare connection
Brand box-Indoor Max. single pipe length	m	15	15	15
Branch box- indoor Max. drop	m	15	15	15
Height drop between branch box	m	15	15	15

MS1-036A MS1-060A



MS3-036A



MRV AHU Connection Kit

241 The 2nd Generation AHU Kit

244 Specification

244 Dimensions

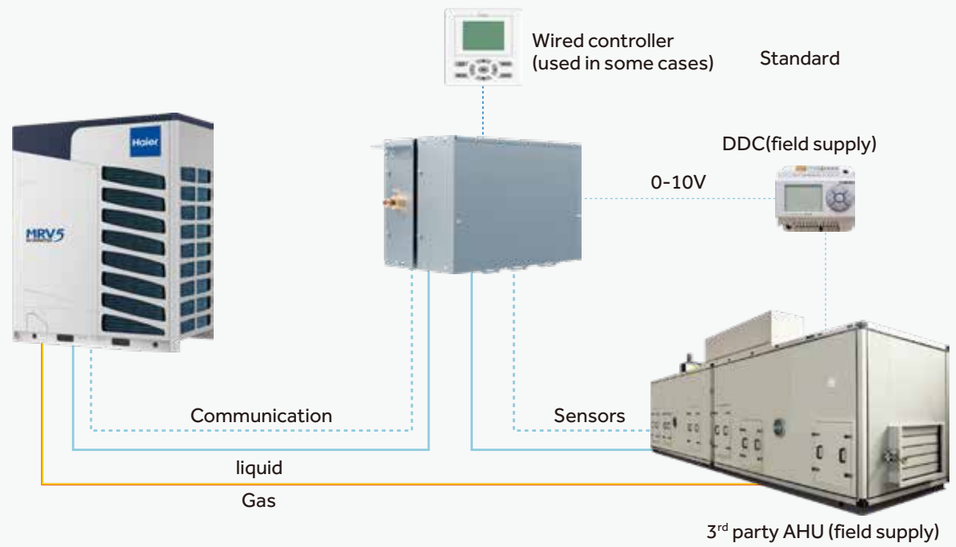
MRV AHU Connection Kit

System Introduction Unit structure

System Introduction

System introduction

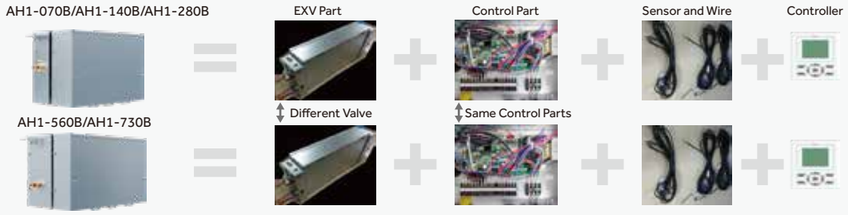
Haier offers a range of connection kit to connect MRV outdoor units to third party DX air handling units.



System Introduction

AHU kit configuration

Haier 2nd generation AHU kit also contains the following 4 parts:The controller model is HW-AA101DBK, special for Haier 2nd generation AHU kit as standard accessary, no need to be purchased separately.



System line-up

Haier AHU kit provides a wide range solution for Haier MRV outdoor unit connecting with the 3rd party AHU.

DX AHU² Connection kit — Special design for MRV 5 , MRV SII

Model	AH1-070B	AH1-140B	AH1-280B	AH1-560B	AH1-730B
Capacity	3.5≤Connected AHU capacity ≤7kW	7<Connected AHU capacity≤14kW	14<Connected AHU capacity≤28kW	28<Connected AHU capacity≤56kW	56<Connected AHU capacity≤73kW

Compatibility

Outdoor	MRV5-H	MRV5	MRV S²					
HP	8-26	8-26	4	5	6	8	10	12
Power supply	3Ph/380-415V/50/60Hz	3Ph/380-415V/50/60Hz	1Ph/220-230V/50/60HZ 3Ph/380-400V/50/60Hz			3Ph/380-400V/50/60Hz		

AHU & MRV indoor

Control solutions

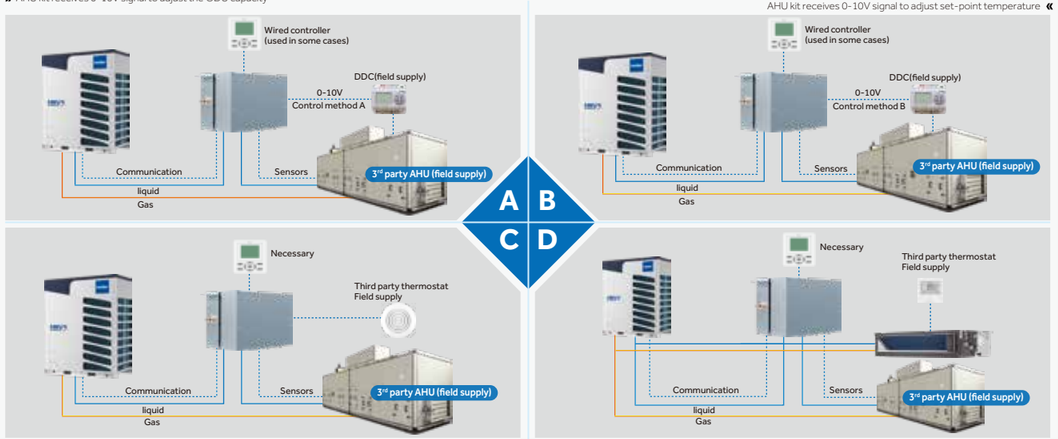
Four control methods can be used, which can be switched by dip switch based on the site scenario.

Control method A

- 0-10V signal output from DDC
- AHU kit receives 0-10V signal to adjust the ODU capacity

Control method B

Control temperature via DDC
0-10V signal output from DDC
AHU kit receives 0-10V signal to adjust set-point temperature



Control method C(Special application)

- Without DDC
- Haier wired controller is necessary for initial set-up but not required for operation
- Third party thermostat provides ON/Off signal to AHU kit when the set point temperature reaches.
- Applicable for some cases with constant cooling or heating demand and insensitive comfort demands

Control method D

Similar to original AHU kit V1.0
Control AHU as VRF indoor units
Return/ Room temperature control
Haier wired controller is used to operate
Control method for combination VRF indoor units and 3rd party AHU system

System Introduction

Central control

Note:

•MRV 5 and upgraded MRV SII(8/10/12HP can directly connect with central controller HC-SA164DBT and YCZ-A004.

•Other MRV systems need the HA-MA164AD gateway.

•For new webserver controller, the new gateway HA-MA1ADB.

•For control method A,B,C of AHU kit, only monitoring the AHU is available and unable to conduct control operation.

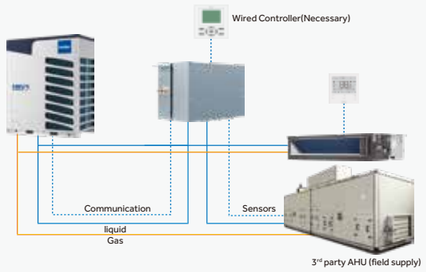
•For control solution D of AHU kit, AHU can be controlled as one MRV indoor unit, both monitoring and control operations are available.


YCZ-A004

HC-SA164DBT


HC-LA1CDBT


HA-MA1ADB



BMS control

Note:
•Integrate haier remote monitoring and controlling system via PC and BMS interface
HCM-01A:Modbus rtu
HCM-03A:Modbus ip/ Bacnet ip
HCM-06: BACnet ip


HCM-01A


HCM-03A

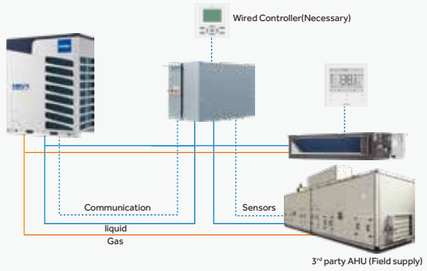

HCM-06

Note:
•Only have BMS interface without Haier remote monitoring system HA-MA164AD:Modbus. for MRV 5 and upgraded MRV SII (8/10/12HP) integrates this function
HCM-04:Bacnet
IGU07:Lonworks


HA-MA164AD


HCM-04


IGU07

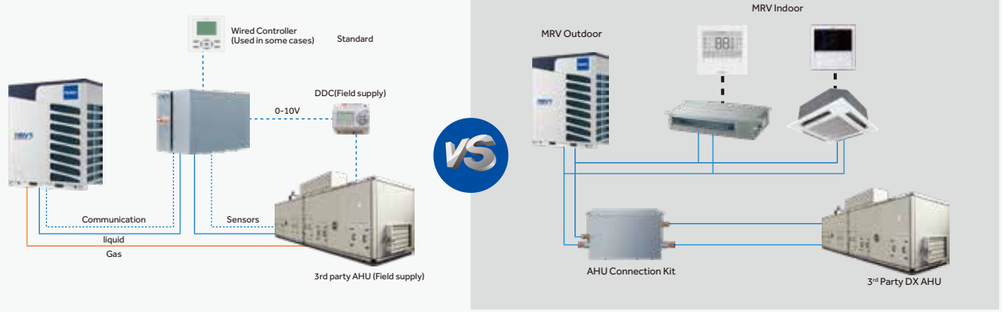


Unit Structure

Features

•Extend the AHU connected capacity of per kit ranging from 3.5 kW to 73kW, which can meet the small, medium and large buildings demands.
•Add the 0-10V signal control.
•Supply air temperature (from DDC) or return air temperature controllable.
•Remove the gas pipe, more convenient for installation.

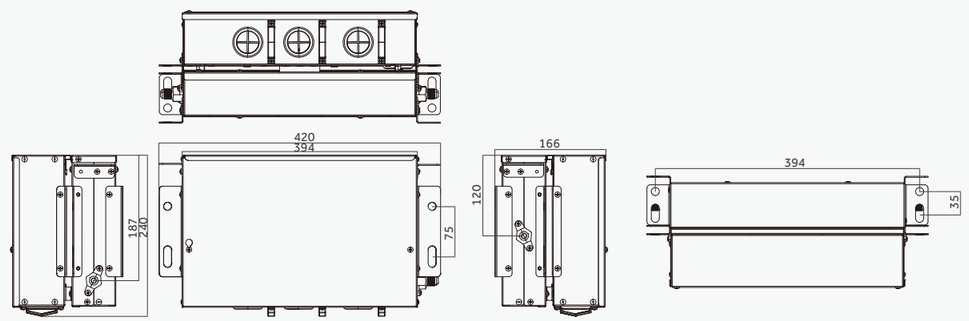
The 2nd generation AHU kit VS The 1st generation AHU kit



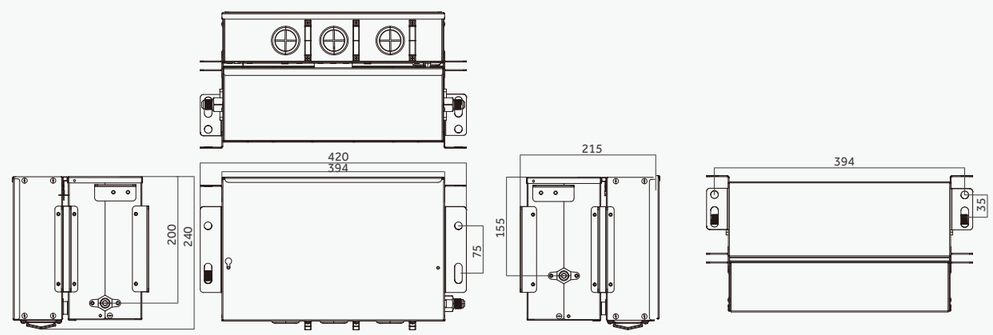
Specification

Model	AH1-070B	AH1-140B	AH1-280B	AH1-560B	AH1-730B
Connected	3.5≤X≤7KW	7＜X≤14KW	14<X≤28KW	28＜X≤56KW	56＜X≤73KW
AHU capacity	(1-3HP)	(3-5HP)	(5-10HP)	(10-20HP)	(20-26HP)
Power supply (Ph/V/Hz)	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Dimension (W/D/H) (mm)	420/260/165	420/260/165	420/260/165	420/260/215	420/260/215
Shipping dimensions (mm)	520/340/225	520/340/225	520/340/225	520/340/275	520/340/275
Material	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel	Galvanized steel
Color	Grey	Grey	Grey	Grey	Grey
Weight (kg)	5.5	5.5	5.5	6.5	6.5
Shipping weight (kg)	8.5	8.5	8.5	10	10
Liquid pipe (mm)	9.52 (Main) / 6.35	9.52 (Main) / 6.35	9.52 (Main) / 6.35	12.7 (Main) / 15.88	12.7 (Main) / 15.88
AHU Kit-3rd party AHU Max. single pipe length (m)	5	5	5	5	5
AHU Kit-3rd party AHU Max. single pipe length (m)	5	5	5	5	5

AH1-070B AH1-140B AH1-280B



AH1-560B AH1-730B



MRV HOT WATER
Hydro Box

247 Features

250 Hydro Box

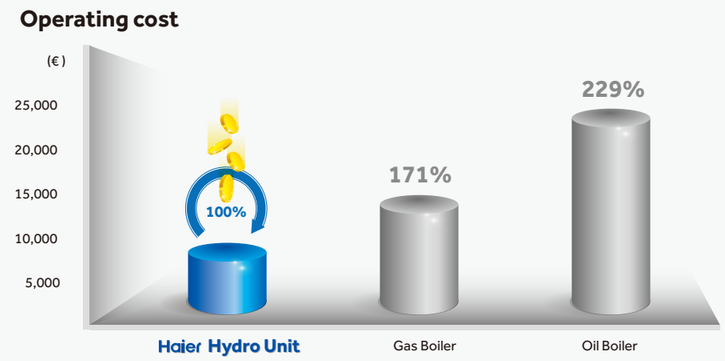
MRV HOT WATER

Hydro Box

System Introduction Unit Structure

Haier hydro unit makes it possible using VRF system to provide users with comfortable air conditioner, hot water heating and domestic hot water. This solution is suitable for both residential area and commercial area, such as residences, office buildings, hotels, hospitals, etc.

Low Operating Cost



Comfort

The hydro unit has a heating capacity of up to 28 kW per module which can be used in combination for bigger system demand. and leaving water temperature range from 5°C to 55°C provides comfrot air to users.connectable to MRV 5, MRV 5-H, MRV 5-RC and MRV SII

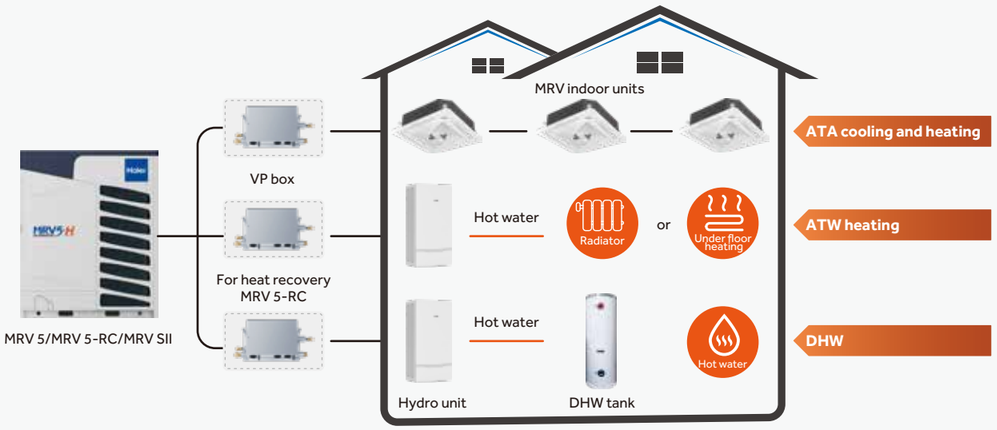
Main Operation Patterns

Multiple heating and cooling solutions can be selected to provide

1. ATA and ATW

•In summer, ATA cooling and DHW can be used. The heat pump outdoor and hydro unit can provide hot water to heat up water stored in the DHW tank when the MRV indoor units cooling is not operated. The heat recovery outdoor can realize ATA indoor units cooling and hydro unit hot water supply at the same time.

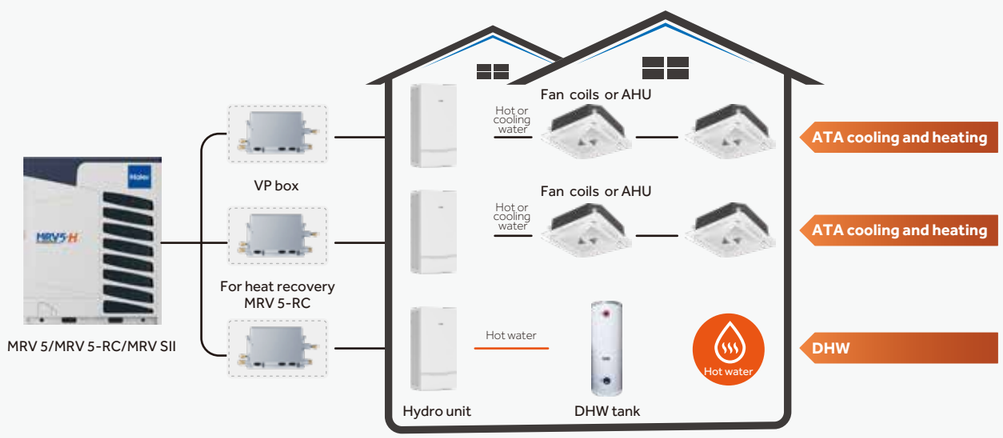
•In winter, ATA heating or hot water heating can be selected to warm the rooms, while the DHW is heated up at the same time.



2. Only ATW

•In summer, the heat pump outdoor and hydro unit can provide hot water to heat up water stored in the DHW tank when the fan coils or AHU cooling is not operated. The heat recovery outdoor and hydro unit can provide hot water when the fan coils or AHU cooling is operating.

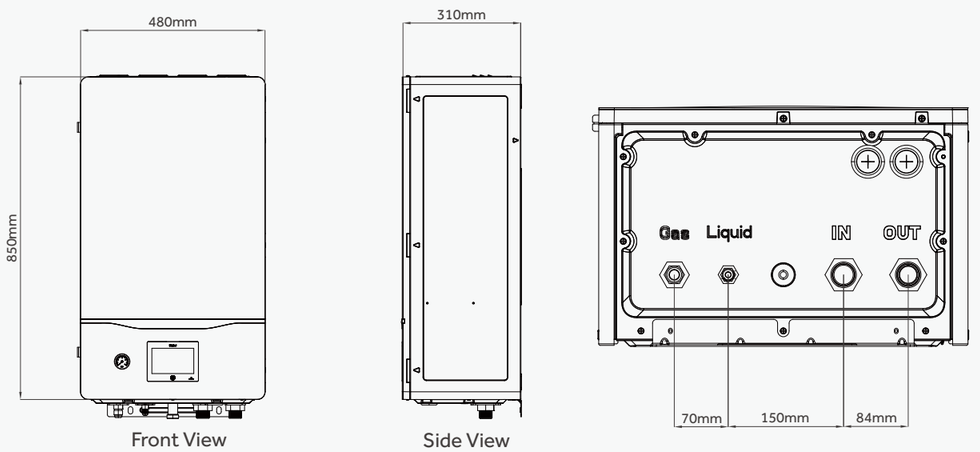
•In winter, fan coils provide heating to warm the rooms, while the DHW is heated up at the same time.



Specification

Model/Indoor unit			HU092WVLNA	HU162WVLNA	HU312WVLNA
Nominal Capacity	Cooling (1)	kW	7	14	28
	Heating (2)	kW	9	16	31
Dimensions Unit	H /W / D	mm	850/ 480 / 310	850/ 480 / 310	850/ 480/ 310
Weight Unit		kg	56	56	52
Installation Place	Indoor/outdoor		Indoor	Indoor	Indoor
Combination Ratio	Only hydro module	%	80-100%	80-100%	80-100%
	Hydro box+IDUs	%	Total 50-130% (Hydro box 0-80%)	Total 50-130% (Hydro box 0-80%)	Total 50-130% (Hydro box 0-80%)
Cooling Ambient	Min. - Max.	°CDB	10-43	10-43	10-43
Cooling Water Side	Min. - Max.	°C	5-20	5-20	5-20
Heating Ambient	Min. - Max.	°C	-20-24	-20-24	-20-24
Water Side	Min. - Max.	°C	20-50	20-50	20-50
Sound Pressure Level	Cooling/Heating	dB(A)	29/ 32	29/32	29/32
Sound Power Level		dB(A)	42	46	48
Water Flow Rate	Min-Standard	L/min	18/26	32/46	63/90
Water Circuit Piping Diameter	Inlet	inch "	1	1	1-1/4
	Outlet	inch "	1	1	1-1/4
Refrigerant Type			R410A	R410A	R410A
Gas Side - Connection Type		mm	15.88	15.88	19.05
Liquid Side - Connection Type		mm	9.52	9.52	9.52
Power Supply		Ph/Hz/V	1/ 50/ 220-240	1/ 50/ 220-240	1/ 50/ 220-240
Odu Compatibility			MRV 5, MRV 5-RC, MRV 5-H, MRV S 8-10-12HP		

(1) Tamb 35°C - LWE 18°C (DT=5°C)
(2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C)

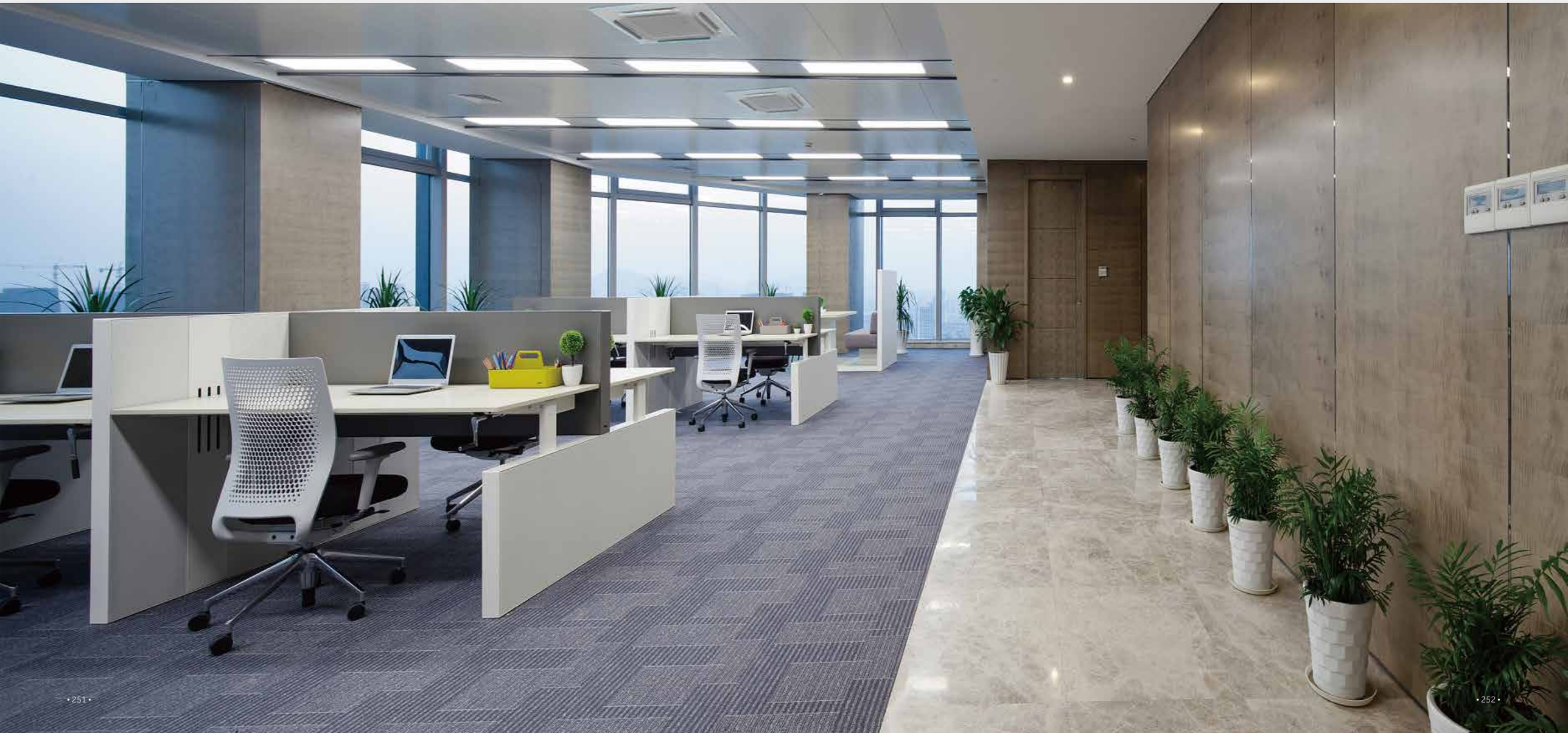


MRV INDOOR
(Air Guard)

253 Air Guard Features

255 Slim Duct(0/15/30Pa)

257 High ESP Duct (20/200Pa)



MRV INDOOR
(Air Guard)

Healthy Easy Installation

Healthy

UVC sterilization

The built-in LED UV lights kill airborne hazards when the air circulates from air inlet, ensuring the clean air out.

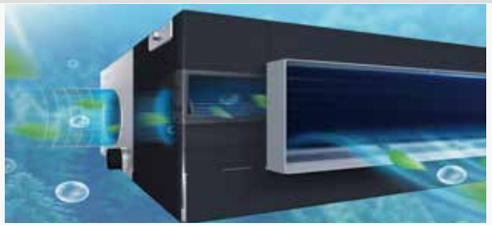
Antibacterial filter

Silver (Ag) is a natural antibacterial material, which has good broad-spectrum antibacterial properties and could motivate bacterial extinction.
Haier antibacterial filter has added silver ions and antibacterial organics to kill escherichia coli & staphylococcus aureus effectively, with long lasting effects.

Healthy

Blowing healthier air

Mold and bacteria are no longer able to grow on the components where air flows through, and silver ions bring no harm to human body. Thus, the air comes out of the air conditioner is always healthy.



Self-cleaning

Make the ODU and IDU cleaning mode conversion without stopping, make full use of the waste heat of the ODU to defrost the IDU with faster speed. Which means when the ODU fins frost to strip the dirt while IDU will defrost and dry the evaporator by using the waste heat of ODU.

Easy Installation

Multi dimensions

Two series duct you can choice, slim duct & high ESP duct. The height are 185mm and 248mm, suitable for different situations.

Multi ESP

Two ESP designs you can choice, the ESP of slim duct is 0/15/30 Pa, the ESP of High ESP is 20~200Pa, suitable for different duct pipe length.

This series of duct can be arranged in two air return modes

•Air return from the back (Factory default); •Air return from the bottom (Can be adjusted on site).

Slim

DUCT (0/15/30Pa)

Reserved fresh air inlet

Friendly design of rear or bottom air return

Super slim design, only 185mm

Built-in high head drain pump

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

Model/Indoor unit			AD052MSERA(H)	AD072MSERA(H)	AD092MSERA(H)	AD122MSERA(H)	AD162MSERA(H)	AD182MSERA(H)	AD242MSERA(H)
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1	24.2
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kBtu/h	5.8	8.5	10.9	13.6	17.1	21.5	27.3
		kW	1.7	2.5	3.2	4	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H/M/L)	m^3/h	430/370/310	480/420/360	480/420/360	550/430/370	600/540/460	800/690/580	930/850/750
	Sound pressure level(H/M/L)	dB(A)	26/22/19	27/23/20	27/23/20	30/27/24	32/29/26	33/30/27	36/33/30
	Sound power level(H/M/L)	dB(A)	40/36/33	41/37/34	41/37/34	44/41/38	46/43/40	47/44/41	50/47/43
Installation	External dimensions(W/D/H)	mm	850/420/185	850/420/185	850/420/185	850/420/185	850/420/185	1170/420/185	1170/420/185
	Shipping dimensions(W/D/H)	mm	1045/540/270	1045/540/270	1045/540/270	1045/540/270	1045/540/270	1365/540/270	1365/540/270
	Net/Shipping weight	kg	16.5/21.5	17.5/22.5	17.5/22.5	17.5/22.5	18.5/23.5	22.2/28.2	24/30
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88
	Static pressure(Standard/Max.)	Pa	0/15/30	0/15/30	0/15/30	0/15/30	0/15/30	0/15/30	0/15/30
Panel	Panel model	/	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-1210IA/D	P1B-1210IA/D
	External dimensions(W/D/H)	mm	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	1210/190/100 (outlet panel)	1210/190/100 (outlet panel)
	External dimensions(W/D/H)		890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)
	Shipping dimensions(W/D/H)	mm	938/335/220	938/335/220	938/335/220	938/335/220	938/335/220	1258/335/220	1258/335/220
	Net/Shipping weight	kg	4/5	4/5	4/5	4/5	4/5	5/6	5/6
Drain pump	O-optional,S-standard,W-without		S	S	S	S	S	S	S
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
	Infrared (Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

High ESP
DUCT (20/200Pa)

20/200Pa

20/200Pa

Built-in drain pump

248mm

Only 248mm thick

50/60Hz

All module can realize 50/60Hz

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

Model/Indoor unit			AD052MJERA(H)	AD072MJERA(H)	AD092MJERA(H)	AD122MJERA(H)	AD162MJERA(H)	AD182MJERA(H)	AD242MJERA(H)	AD282MJERA(H)	AD302MJERA(H)	AD382MJERA(H)	AD482MJERA(H)	AD542MJERA(H)
Capacity	Cooling	kBtu/h	5.1	7.5	9.6	12.3	15.3	19.1	24.2	27.3	30.7	38.2	47.8	54.6
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16
	Heating	kBtu/h	5.8	8.5	10.9	13.7	17	21.5	27.3	30.7	34.1	44.4	55.6	61.4
		kW	1.7	2.5	3.2	4	5	6.3	8	9	10	13	16.3	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Dimensions (W/D/H)	Net product	mm	700/700/248	700/700/248	700/700/248	700/700/248	700/700/248	1100/700/248	1100/700/248	1100/700/248	1100/700/248	1500/700/248	1500/700/248	1500/700/248
	Shipping product	mm	932/835/280	932/835/280	932/835/280	932/835/280	932/835/280	1332/835/280	1332/835/280	1332/835/280	1332/835/280	1698/857/305	1698/857/305	1698/857/305
Weight	Product Net/Shipping	kg	27/32	27/32	27/32	27/32	28.5/33.5	36.8/43.4	36.8/43.4	36.8/43.4	39.4/45.4	48.3/56.5	51.3/59.5	51.3/59.5
Fan	Static pressure(Standard/Max.)	Pa	20/200	20/200	20/200	20/200	20/200	20/200	20/200	20/200	20/180	20/180	20/180	20/180
	Air flow (H/M/L)	m^3/h	515/440/390	545/470/390	545/470/390	570/495/420	700/625/550	915/765/640	1275/1050/875	1275/1050/875	1450/1200/1000	2000/1700/1400	2150/1750/1400	2350/1950/1600
Sound level	Sound pressure level(H/M/L)	dB(A)	29/27/25	30/28/25	30/28/25	31/29/27	32/30/28	33/31/29	34/31/29	35/33/30	36/33/30	38/35/32	40/36/32	42/38/34
	Sound power level(H/M/L)	dB(A)	41/39/37	42/40/37	42/40/37	43/41/39	44/42/40	45/43/41	46/43/41	47/45/42	48/45/42	50/47/44	52/48/44	54/50/46
Piping	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88	15.88
Drain pump	O-optional,S-standard,W-without	/	S	S	S	S	S	S	S	S	S	S	S	S
Controller	Wired(Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

MRV INDOOR

261 Features
275 1-way Cassette
279 2-way Cassette
281 Compact Cassette
283 Round Way Cassette
287 4-way Cassette
289 Convertible Type
291 Slim Duct
295 Medium ESP Duct (50/100Pa)
297 High ESP Duct (20/200Pa)
299 Compact Air Duct (50/120Pa)
301 High ESP Duct (100/250Pa)
303 High ESP Duct (0/300Pa)
305 Built-in Floor Standing
307 Console
309 High Wall
321 Dimensions

1-way Cassette

2-way Cassette

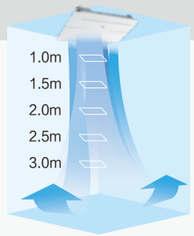
Add new apperance series, DC fan motor, the capacity is from 1.5kW to 7.1kW, give you more flexi choice.

AB***MAERAD(coming soon)

AB***MAERA

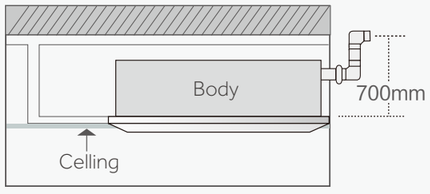
High ceiling design the air reaches the ground

High ceiling design, suitable for 2.7m high ceiling space



Standard condensate water lifting pump

Equipped with 700mm drain pump, built-in float switch, convenient according to the actual working situation, discharge condensate water from air conditioner.



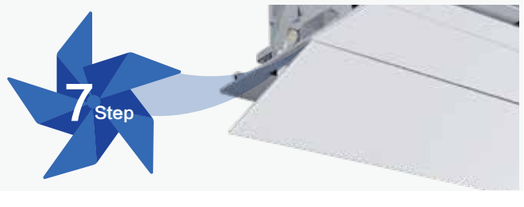
Super wide angle air supply comfortable enjoy

Adopt new DC motor, equipped with up and down, left and right swing wind motor, realize intelligent swing wind control and ultra wide angle air supply range, enjoy comfortable air.

Suitable for corner installation for comfortable and uniform air supply

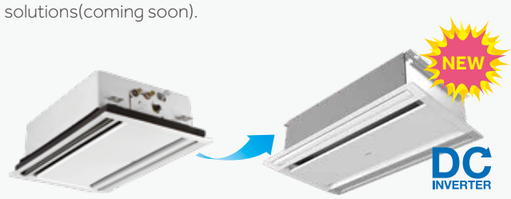
Compact design, full use of corner space installation, such as small meeting rooms, corridors, etc.; The indoor machine is located in the ceiling, and the panel adopts the integrated design, which is generous and beautiful. Suitable for long and narrow rooms, to ensure the uniform distribution of air flow and room temperature.

New butterfly wing air supply, 5 step fan speed is optional, enjoy healthy air



New DC series

Provides you with DC large capacity models the capacity is from 2.2kW to 14kW, quieter experience and more flexible solutions(coming soon).

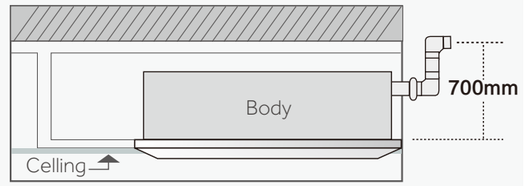


AB07/09/12/16 /182MBERA

AB07/09/12/16/18/ 24/30/38/482MBERAD

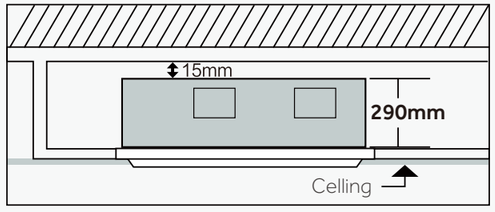
The drain pump lift is 750mm

Adopt high lift and large volume discharge pump, the lift can up to 750mm (from the celling).



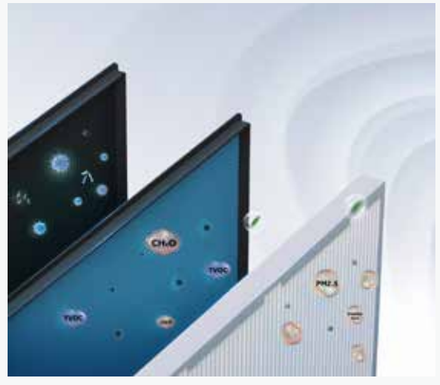
Thin and light design for easy installation

Height is only 220mm, reduce the limitations of installation space. Light weight design to improve installation convenience.



Antibacterial filter

Silver (Ag) is a natural antibacterial material, which has good broad-spectrum antibacterial properties and could motivate bacterial extinction.
Haier antibacterial filter has added silver ions and antibacterial organics to kill Escherichia coli & staphylococcus aureus effectively, with long lasting effects.



Round Way Cassette

4-way Cassete

Free air supply and flexible control to enjoy a comfortable environment

The outlet adopts stepper motor design to realize the four-direction independent control system.

Streamlined outlook design

Buy a traditional grille and a dynamic windmill for multi-choice and multi-enjoyment. Buy a dynamic windmill to enjoy a dynamic mood and relax in the wind.

Square panel the whole product unified more beautiful

•Square design, makes room decoration more harmonious, beautiful and easy to arrange lighting system.

•Thin design of indoor unit, the height is only 260mm (2HP), even in a small space can be installed.

Stereo air supply, more comfortable.

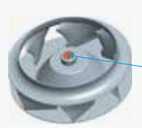
Innovative Small Square design (2HP)

Quiet operation, create a peaceful space

•High efficiency brushless DC fan motor, achieve step-less adjustment for speed, greatly reduce the noise of operation.

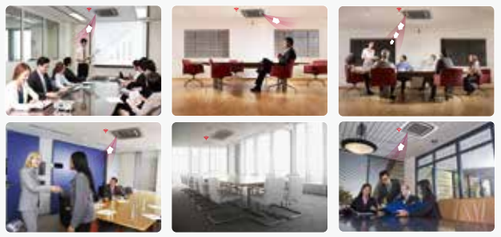
•Optimize the traditional air duct design, adopt sound insulation wall technology, effectively reduce the eddy current range, block the transmission path of noise, effectively reduce the noise about 3dB(A).

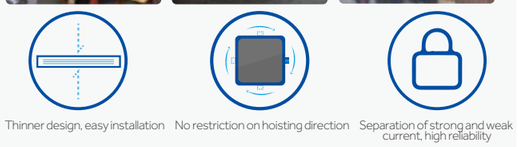
•Fan optimization design, using the principle of fluid mechanics, referring to the design of aviation structure, so that the airflow speed distribution is uniform, reduce the airflow resistance, so as to reduce noise, to achieve quiet operation. Note: * Other ac motor standards are optional.



Energy saving control

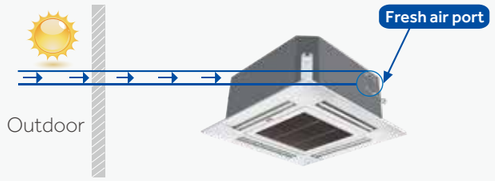
The product adopts MOVE EYE module (optional), which can be controlled to realize the function of switch-on when people coming in and switch-off when people leaving.





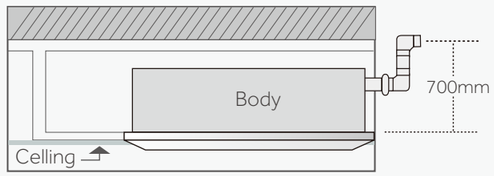
Healthy fresh air function

Unique side air inlet, can open to introduce outdoor fresh air, improve indoor air quality.



Standard condensate lift pump

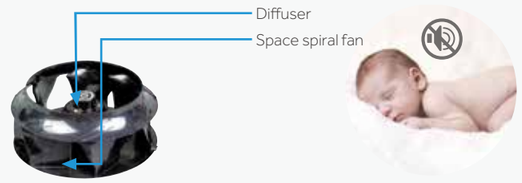
Standard drain pump, the lift is 700mm and built-in float switch, convenient to cooperate with the actual situation to condensate water discharge air conditioning.



Antibacterial filter

Quiet operation, comfortable experience

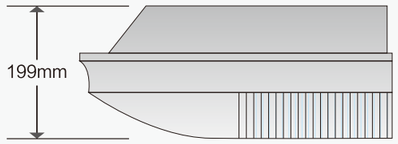
Adopt advanced aviation technology of THREE-DIMENSION-AL spiral fan and turbine shaped air duct design, greatly reduce the internal resistance, large air volume, low noise, achieve silent operation.



Convertible Type Slim Duct

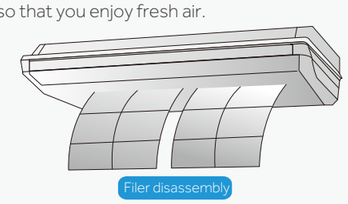
Thinner body design, good value option

Thin fuselage thickness is only 199mm (2HP), streamlined design, beautiful and generous, commercial home decoration value choice.



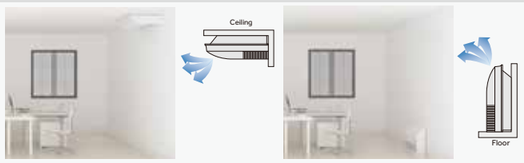
Standard with filter, easy installation

With high efficiency filter, fully filter dust, smoke and other fine particles in the air, improve indoor air quality. Filter netease disassembly, easy cleaning, reduce cleaning and maintenance operations, so that you enjoy fresh air.



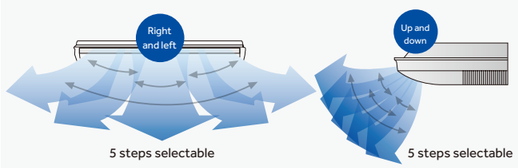
Multiple installation modes flexible optional

Users can choose ceiling installation, also can choose ground installation, convenient for users to choose freely.



Air supply in 5 angles, more comfortable

Double swing air motor design, while up and down swing air supply, left and right swing air can also adjust the angle of air supply, realize the full wind level three-dimensional air supply, at the same time provide four speed adjustable, improve user comfort.



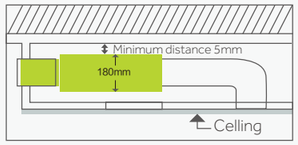
Antibacterial filter

Silver (Ag) is a natural antibacterial material, which has good broad-spectrum antibacterial properties and could motivate bacterial extinction.

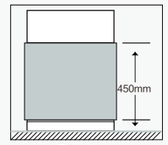
Haier antibacterial filter has added silver ions and antibacterial organics to kill Escherichia coli & staphylococcus aureus effective-ly, with long lasting effects.

Adjusted ESP super slim save installation space agile and convenient

Fuselage thickness of only 180mm, easy to install in the height of narrow residential ceiling, fuselage depth of only 450mm, save the ceiling area, and fully cooperate with the interior decoration.



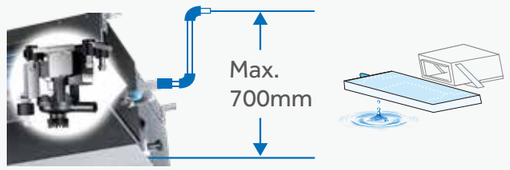
Side view



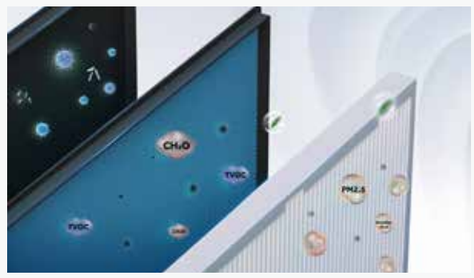
Top view

High lift-up drain pump

Standard condensate water lifting pump, standard head 700mm, special models customized range up to 1200mm, and built-in float switch, convenient to cooperate with the actual situation of the site, condensate water discharge air conditioning.

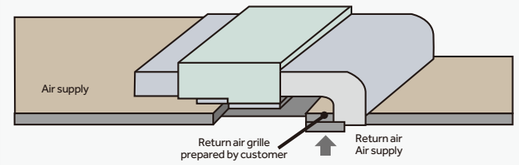


Antibacterial filter

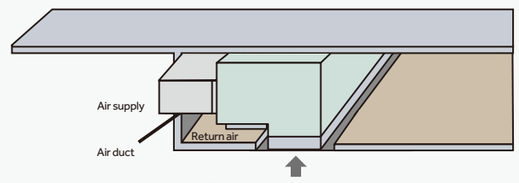


Return air mode selection according to local conditions -- more user-friendly installation

Provide bottom and rear two return air modes, indoor installation more flexible and convenient, users can choose the best installation scheme according to the characteristics of interior decoration. note: If there is enough installation space, it is recommended to use the side feed back mode, which can effectively reduce the running sound.



Air return mode from rear (factory standard air return mode)



Return air from the bottom

Quiet operation

•High efficiency model * High efficiency brushless DC motor, speed stepless adjustment, can achieve seven air supply, greatly reduce operating noise.

•Through the reasonable design of indoor unit thermal components and internal air duct, four block wind speed, silent operation is realized. Note: The standard model of AC motor is also available.

Slim Duct

Medium ESP Duct(50~100Pa)

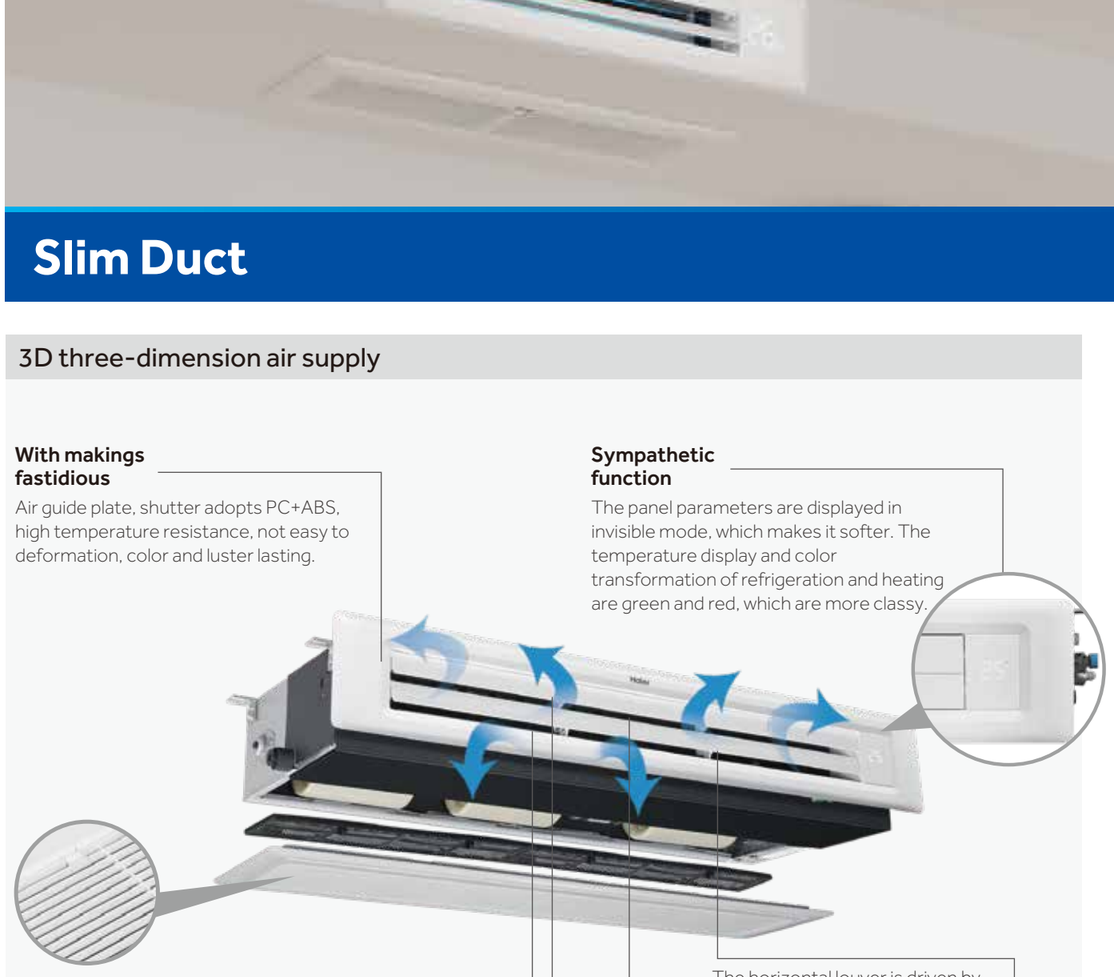
3D three-dimension air supply

With makings fastidious

Air guide plate, shutter adopts PC+ABS, high temperature resistance, not easy to deformation, color and luster lasting.

Sympathetic function

The panel parameters are displayed in invisible mode, which makes it softer. The temperature display and color transformation of refrigeration and heating are green and red, which are more classy.



Details of the outstanding using at ease

The air inlet grille can be dismantled and cleaned by pulling the buckle, which is more convenient.

The horizontal louver is driven by two motors, which makes it easier to run.

Vertical louvers are driven by an electric motor and run freely.

Fashionable and beautiful

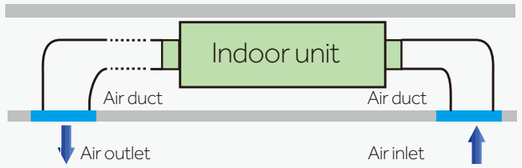
Streamline design, automatic shutdown, no ash accumulation, beautiful atmosphere, hidden installation and home decoration perfect combination, highlight grade.

3D three-dimensional air supply

- Pendulum blade two motor control, vertical louver one motor control, easy to operate.
- Free swing wind between 30-80 degrees up and down, swing wind around 90 degrees, 3D three-dimensional air supply, wide angle of air supply.

Static pressure optional, meet different needs

According to users requirements, the static pressure can be adjusted by wire controller instead of the traditional way of changing the red and white terminals. The maximum static pressure of the whole series can reach 100Pa.



Air ducts need to be installed between the indoor unit and the air outlet. When producing long air supply distance, please choose high static pressure.

Antibacterial filter

Silver (Ag) is a natural antibacterial material, which has good broad-spectrum antibacterial properties and could motivate bacterial extinction.

Haier antibacterial filter has added silver ions and antibacterial organics to kill escherichia coli & staphylococcus aureus effectively, with long lasting effects.

Hidden design, more beautiful

Thin height design, the unit can be easily placed in the ceiling, only the air outlet exposed, can not feel the existence of indoor unit, so that the indoor space suddenly open.

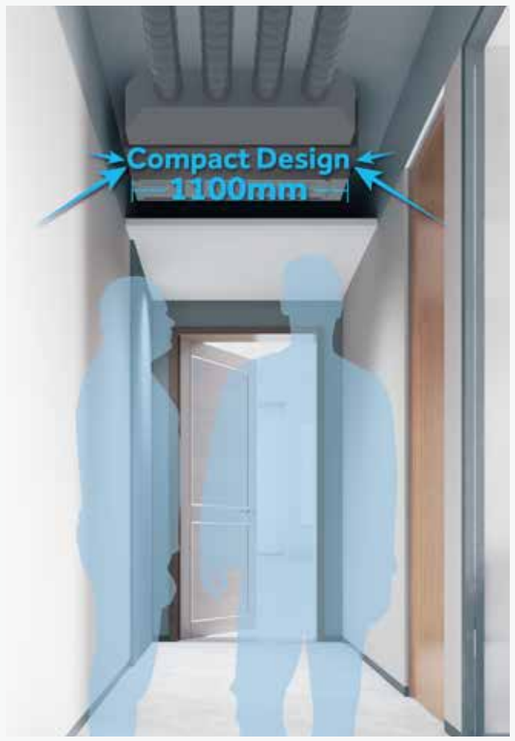
Free setting air outlet humanization setting

Due to the use of pipe air supply, according to the room environment and user requirements to freely choose the number of air outlet and installation position, fully consider the load of the room and room temperature balance, to achieve a more perfect and comfortable feeling.

Compact Duct (50~120Pa)

Compact design, suitable for hallway installation

The width of the compact duct is only 1100mm, and the height is only 248mm, so It can be well hidden installed in the ceiling of the hallway. The capacity can be 9kW/11.2kW/14kW, meet the needs of 50m²~100 m² area room air conditioning.



Air zone control accessories (optional)

Zoning control systems for ducted AC units: energy savings and comfort, to control a ducted unit with just a single thermostat.

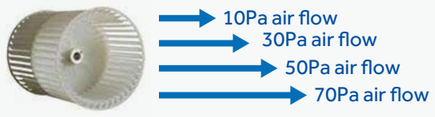
Antibacterial filter

Silver (Ag) is a natural antibacterial material, which has good broad-spectrum antibacterial properties and could motivate bacterial extinction.

Haier antibacterial filter has added silver ions and antibacterial organics to kill escherichia coli & staphylococcus aureus effectively, with long lasting effects.

Five steps pressure choice

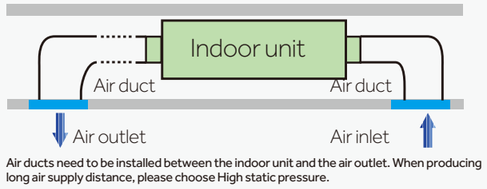
The ESP can be selected in five steps with 0/20/50/80/120Pa to suit different ductwork length.



High ESP Duct (20~200Pa)

Static pressure optional, meet different needs

According to users requirements, the static pressure can be adjusted by wire controller instead of the traditional way of changing the red and white terminals. The maximum static pressure of the whole series can reach 200Pa for model AD05/07/09/12/16/18/24/28MJERAD, 180Pa for model AD30/38/48/54MJERAD



Air ducts need to be installed between the indoor unit and the air outlet. When producing long air supply distance, please choose High static pressure.

Antibacterial filter

Silver (Ag) is a natural antibacterial material, which has good broad-spectrum antibacterial properties and could motivate bacterial extinction.

Haier antibacterial filter has added silver ions and antibacterial organics to kill escherichia coli & staphylococcus aureus effectively, with long lasting effects.

Air duct connection more room to share

The unit can connect multiple rooms through air duct, and can be flexibly arranged according to different house types, one air conditioner, multi-room sharing.

Hidden design, more beautiful

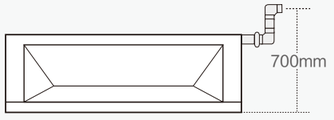
Thin height design, the unit can be easily placed in the ceiling, only the air outlet exposed, can not feel the existence of indoor unit, so that the indoor space suddenly open.

Free setting air outlet humanization setting

Due to the use of pipe air supply, according to the room environment and user requirements to freely choose the number of air outlet and installation position, fully consider the load of the room and room temperature balance, to achieve a more perfect and comfortable feeling.

High lift-up drain pump

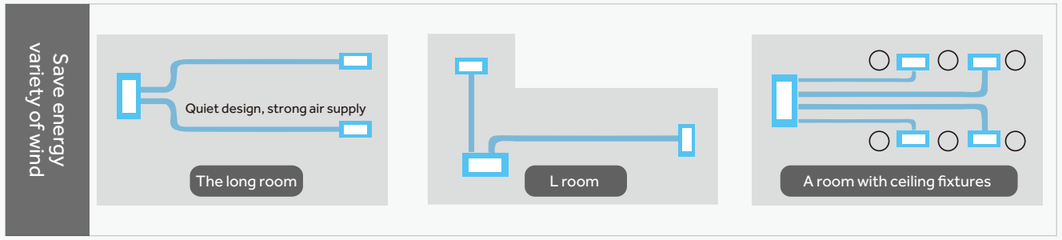
Standard condensate water lifting pump, standard head 700mm, special models customized range up to 1200mm, and built-in float switch, convenient to cooperate with the actual situation of the site, condensate water discharge air conditioning.



High ESP Duct(100~250Pa)

High static pressure design, more room to share

The external static pressure can achieve 250Pa, and the air duct can be freely selected. do an air conditioning, multi-room sharing.

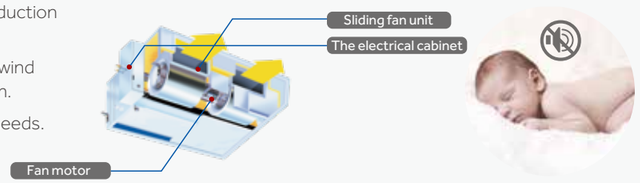


Silence design

•Adopt international new sound insulation noise reduction materials, pressure off mute wind wheel.

•Prevents indoor pollution and provides maximum wind speed, ensuring air circulation throughout the room.

•5 speed adjustable wind speed to meet different needs.



Multiple installation way, flexible optional

•Air duct air conditioning has a variety of free and optional installation.

•Flexible customization according to the house type and user needs, to meet the high taste of the room settings.

High ESP Duct (300Pa)

300Pa ultra-high static pressure, cope with complex pipe length design 300Pa

Low noise, more accurate throttling

Adopt 2000pls high-precision large-diameter deceleration EEV, adjust, lower noise, lower pressure loss.

Multiple external static pressure setting

DC inverter fan motor, it can realize step-less set speeds and 16 ESP conversion adjustment.

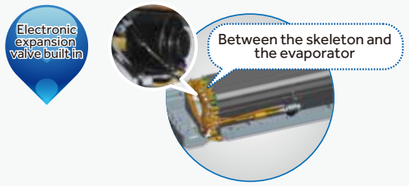
Easy installation

External hanging electronic control box design, easy disassembly and installation.

High Wall

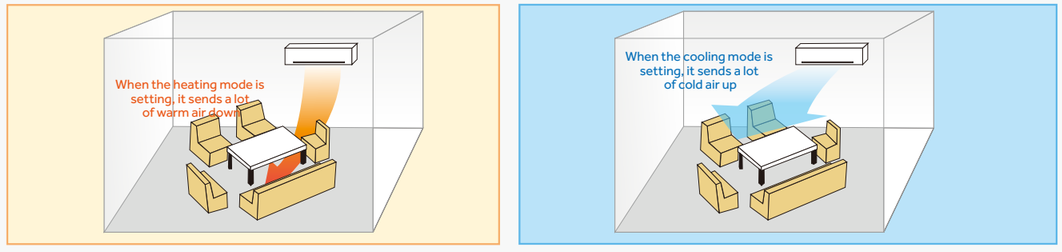
Built-in electronic expansion valve for easy installation (for AS***MNERAB/ AS***MFERAB/ AS***MNERA/AS***MFERA)

Built-in electronic expansion valve, easy to install. DC fan motor, multi-wind speed, with multi-stage air supply angle to create comfortable airflow.



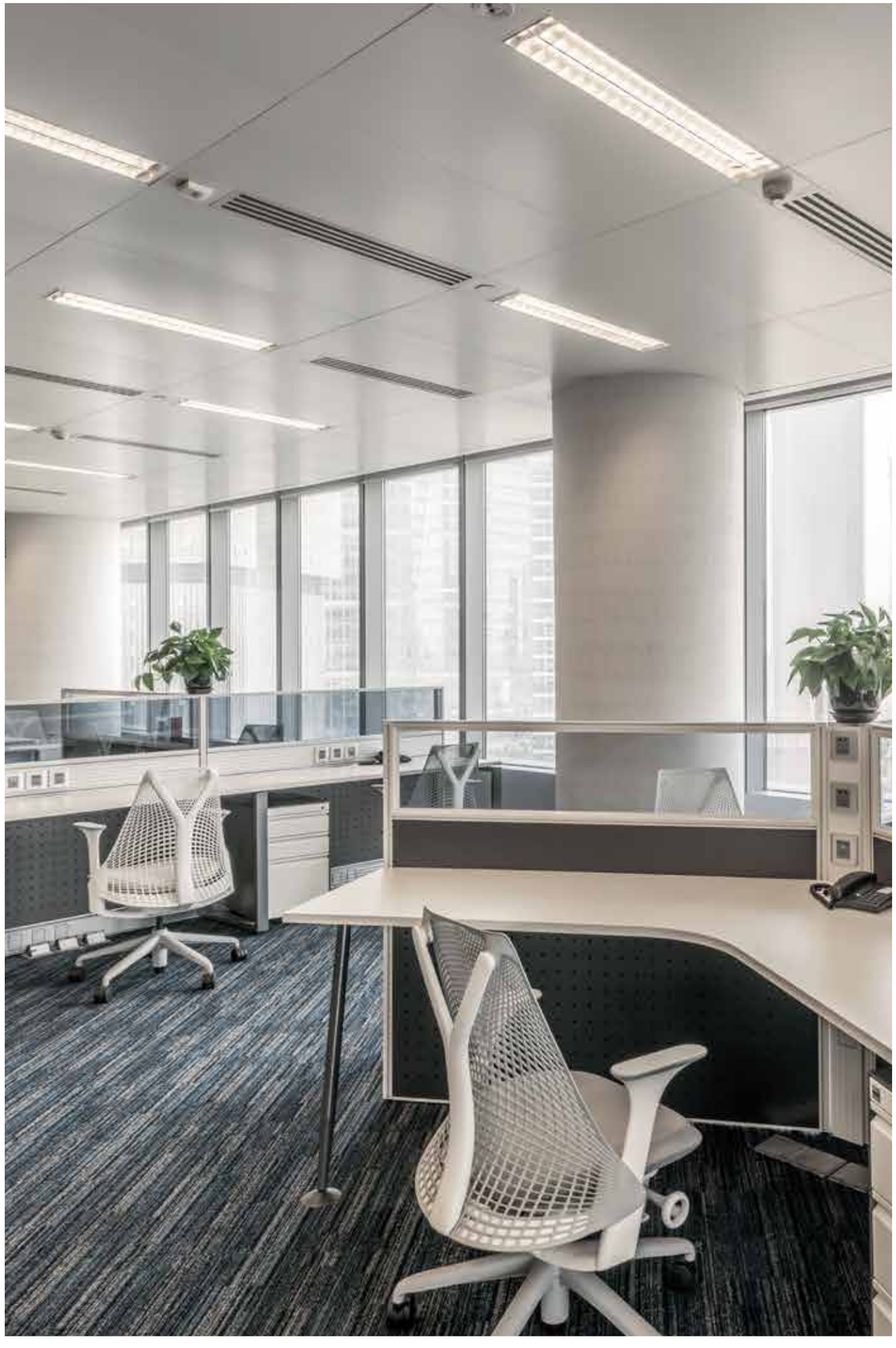
Flexible wind control, quick cooling and heating

In heating and cooling condition, the unit can supply large volume air to quick warm and cold every where of indoor room.



New external electronic expansion valve models, for quiet needs (for AS***MNERAC/AS***MFERAC)

For quiet scenes, such as hotels and homes, we also provide electronic expansion valves installed outside the high wall to meet the low noise requirements.



1-way CASSETTE

DC fan motor

Butterfly wings airflow

Ultra thin design 185mm

Built-in high head drain pump maxi. 1000mm

HW-BA116ABK

HW-SA201ABK

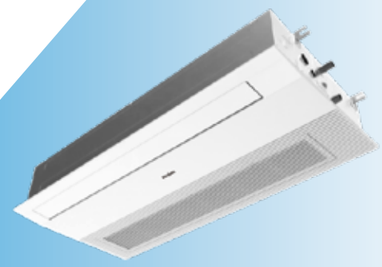
HW-BA101ABT

HW-PA201ABK

YR-HRS01

Model/Indoor unit			AB052MAERA	AB072MAERA	AB092MAERA	AB122MAERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.6	12.3
		kW	1.5	2.2	2.8	3.6
	Heating	kBtu/h	5.8	8.5	10.9	13.6
		kW	1.7	2.5	3.2	4
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H/M/L)	m^3/h	530/490/450	530/490/450	530/490/450	550/530/490
	Sound pressure level(H/M/L)	dB(A)	32/29/24	32/29/24	32/29/24	34/30/25
	Sound power level(H/M/L)	dB(A)	46/43/38	46/43/38	46/43/38	48/44/39
Installation	External dimensions(W/D/H)	mm	875/505/185	875/505/185	875/505/185	875/505/185
	Shipping dimensions(W/D/H)	mm	1028/581/270	1028/581/270	1028/581/270	1028/581/270
	Net/Shipping weight	kg	15.3/17.9	15.3/17.9	15.3/17.9	15.3/17.9
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7
Panel	Model name		P1B-1050IB	P1B-1050IB	P1B-1050IB	P1B-1050IB
	External dimensions(W/D/H)	mm	1050/560/122	1050/560/122	1050/560/122	1050/560/122
	Shipping dimensions(W/D/H)	mm	1133/623/197	1133/623/197	1133/623/197	1133/623/197
	Net/Shipping weight	kg	5.3/8.3	5.3/8.3	5.3/8.3	5.3/8.3
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared (Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

1-way CASSETTE



DC fan motor

7.1 kW

Capacity up to 7.1kW

Ultra thin design 185mm

Built-in high head drain pump maxi. 700mm

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

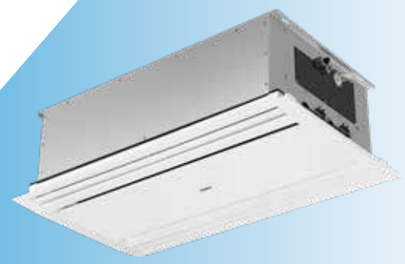
HW-PA201ABK


YR-HRS01

Model/Indoor unit			AB052MAERAD	AB072MAERAD	AB092MAERAD	AB122MAERAD	AB162MAERAD	AB182MAERAD	AB242MAERAD
Capacity	Cooling	kBtu/h	5.1	7.5	9.6	12.3	15.4	19.1	24.2
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kBtu/h	5.8	8.5	10.9	13.7	17.1	21.5	27.3
		kW	1.7	2.5	3.2	4	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Performance	Air flow (H/M/L)	m^3/h	540/400/270	540/400/270	540/400/270	650/510/390	700/530/410	820/660/510	870/690/510
	Sound pressure level(H/M/L)	dB(A)	38/33/28	38/33/28	38/33/28	40/36/31	41/36/32	40/36/32	42/36/32
	Sound power level(H/M/L)	dB	52/47/42	52/47/42	52/47/42	54/50/45	55/50/46	54/50/46	56/50/46
Installation	External dimensions(W/D/H)	mm	850/540/185	850/540/185	850/540/185	850/540/185	850/540/185	1170/540/185	1170/540/185
	Shipping dimensions(W/D/H)	mm	1043/648/270	1043/648/270	1043/648/270	1043/648/270	1043/648/270	1363/648/270	1363/648/270
	Net/Shipping weight	kg	20.5/24.7	20.5/24.7	20.5/24.7	20.8/24.9	21.3/25.5	26.0/31.4	27.1/32.5
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88
Panel	Panel model	/	P1B-1028IB	P1B-1028IB	P1B-1028IB	P1B-1028IB	P1B-1028IB	P1B-1348IB	P1B-1348IB
	External dimensions(W/D/H)	mm	1028/600/45	1028/600/45	1028/600/45	1028/600/45	1028/600/45	1348/600/45	1348/600/45
	Shipping dimensions(W/D/H)	mm	1143/688/170	1143/688/170	1143/688/170	1143/688/170	1143/688/170	1463/688/170	1463/688/170
	Net/Shipping weight	kg	3.9/8.0	3.9/8.0	3.9/8.0	3.9/8.0	3.9/8.0	5.1/9.8	5.1/9.8
Drain pipe	O-optional,S-standard,W-without	/	S	S	S	S	S	S	S
Controller	Wired(Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
	Infrared(Optional)	/	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01

* Pending

2-way CASSETTE



Built-in high head drain pump maxi. 700mm

Ceiling antifouling design unique antifouling design

DC fan motor

14 kW

Capacity up to 14kW

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

*1. In case of using YR-HRS01 alone, HA-SB101DB needs to be purchased.
2. HW-BA116ABK,HW-SA201ABK and HW-BA101ABT have built-in infrared signal receiver. HW-PA201ABK no such function

Model/Indoor unit			AB072MBERAD	AB092MBERAD	AB122MBERAD		AB162MBERAD	AB182MBERAD	AB242MBERAD	AB282MBERAD	AB302MBERAD	AB382MBERAD	AB482MBERAD
Capacity	Cooling	kBtu/h	7.5	9.6	12.3		15.4	19.1	24.2	27.3	30.7	38.2	47.8
		kW	2.2	2.8	3.6		4.5	5.6	7.1	8	9	11.2	14
	Heating	kBtu/h	8.5	10.9	13.7		17.1	21.5	27.3	30.7	34.1	42.7	54.6
		kW	2.5	3.2	4		5	6.3	8	9	10	12.5	16
Electrical Parameters	Power supply	Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60		1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Performance	Air flow (H/M/L)	m^3/h	650/550/390	700/600/410	730/600/430		800/650/450	950/780/500	1000/850/700	1100/950/800	1500/1350/1110	1700/1450/1200	1950/1750/1350
	Sound pressure level(H/M/L)	dB(A)	32/30/28	34/31/29	35/32/30		37/34/32	39/37/34	40/38/35	41/39/36	42/39/36	44/40/36	46/42/38
	Sound power level(H/M/L)	dB(A)	48/46/44	50/47/45	51/48/46		53/50/48	55/53/50	56/54/51	57/55/52	58/55/52	60/56/52	62/58/54
Installation	External dimensions(W/D/H)	mm	1000/600/290	1000/600/290	1000/600/290		1000/600/290	1000/600/290	1000/600/290	1400/600/290	1400/600/290	1400/600/290	1400/600/290
	Shipping dimensions(W/D/H)	mm	1201/680/377	1201/680/377	1201/680/377		1201/680/377	1201/680/377	1201/680/377	1601/680/377	1601/680/377	1601/680/377	1601/680/377
	Net/Shipping weight	kg	33/40	33/40	33/40		34/41	34/41	34/41	45/54	45/54	45/54	45/54
	Refrigerant liquid pipe	mm	6.35	6.35	6.35		6.35	6.35	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	12.7		12.7	12.7	15.88	15.88	15.88	15.88	15.88
Panel	Model name		P2B-1160IB	P2B-1160IB	P2B-1160IB		P2B-1160IB	P2B-1160IB	P2B-1160IB	P2B-1560IB	P2B-1560IB	P2B-1560IB	P2B-1560IB
	External dimensions(W/D/H)	mm	1160/665/60	1160/665/60	1160/665/60		1160/665/60	1160/665/60	1160/665/60	1560/665/60	1560/665/60	1560/665/60	1560/665/60
	Shipping dimensions(W/D/H)	mm	1244/748/159	1244/748/159	1244/748/159		1244/748/159	1244/748/159	1244/748/159	1644/748/159	1644/748/159	1644/748/159	1644/748/159
	Net/Shipping weight	kg	6.3/12	6.3/12	6.3/12		6.3/12	6.3/12	6.3/12	8/14.5	8/14.5	8/14.5	8/14.5
Controller	Wired(Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK		HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK		HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK		HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT		HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
	Infrared (Optional)	/	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01		YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01	YR(L)-HQS01

* Pending

Compact CASSETTE

DC fan motor

Fresh air outlet

620

New panel design
620*620mm

Low sound level

HW-SA201ABK

HW-PA201ABK

YR-HRS01

YR-HQS01

Model/Indoor unit			AB052MCERA(M)	AB072MCERA(M)	AB092MCERA(M)	AB122MCERA(M)	AB162MCERA(M)	AB182MCERA(M)
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1
		kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	kBtu/h	5.8	8.5	10.9	13.6	17.1	21.5
		kW	1.7	2.5	3.2	4	5	6.3
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Performance	Air flow (H/M/L)	m^3/h	650/540/430	700/590/480	700/590/480	700/590/480	700/590/480	700/590/480
	Sound pressure level(H/M/L)	dB(A)	32/30/29	32/30/29	32/30/29	33/30/29	33/30/29	34/32/30
	Sound power level(H/M/L)	dB(A)	46/44/43	46/44/43	46/44/43	47/44/43	47/44/43	48/46/44
Installation	External dimensions(W/D/H)	mm	570/570/260	570/570/260	570/570/260	570/570/260	570/570/260	570/570/260
	Shipping dimensions(W/D/H)	mm	718/680/380	718/680/380	718/680/380	718/680/380	718/680/380	718/680/380
	Net/Shipping weight	kg	16/19	16/19	16/19	19/22	19/22	19/22
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7
Panel	Model name		PB-620KB	PB-620KB	PB-620KB	PB-620KB	PB-620KB	PB-620KB
	External dimensions(W/D/H)	mm	620/620/60	620/620/60	620/620/60	620/620/60	620/620/60	620/620/60
	Shipping dimensions(W/D/H)	mm	660/660/115	660/660/115	660/660/115	660/660/115	660/660/115	660/660/115
Controller	Wired(Optional)	/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared (Optional)	/	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01
		/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Round Way CASSETTE

DC fan motor

Innovative 4 independent air flow control

Unique round-way air outlet, no blind spot

6 adjustable louver positions, 1296 air flow combinations

HW-SA201ABK

HW-PA201ABK

YR-HRS01

YR-HQS01

Model/Indoor unit			AB072MNERAB	AB092MNERAB	AB122MNERAB		AB162MNERAB	AB182MNERAB	AB242MNERAB	AB282MNERAB	AB302MNERAB	AB382MNERAB	AB482MNERAB	AB602MNERAB
Capacity	Cooling	kBtu/h	7.5	9.5	12.3		15.3	19.1	24.2	27.3	30.7	38.2	47.8	54.6
		kW	2.2	2.8	3.6		4.5	5.6	7.1	8	9	11.2	14	16
	Heating	Btu/h	8.5	10.9	13.6		17.1	21.5	27.3	30.7	34.1	42.7	54.6	61.2
		kW	2.5	3.2	4		5	6.3	8	9	10	12.5	16	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60		1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Performance	Air flow (H)	m^3/h	1000/750/660	1000/750/660	1000/850/720		1000/850/720	1000/850/720	1380/1000/780	1380/1050/830	1380/1100/900	2050/1500/1100	2100/1600/1300	2100/1600/1300
	Sound pressure level(H/M/L)	dB(A)	30/27/25	30/27/25	30/27/25		33/30/27	33/30/27	35/33/30	37/34/30	37/34/30	37/34/30	44/39/35	44/39/35
Installation	External dimensions(W/D/H)	mm	840/840/180	840/840/180	840/840/180		840/840/180	840/840/180	840/840/204	840/840/204	840/840/204	840/840/246	840/840/288	840/840/288
	Shipping dimensions(W/D/H)	mm	978/978/247	978/978/247	978/978/247		978/978/247	978/978/247	978/978/269	978/978/269	978/978/269	978/978/312	978/978/353	978/978/353
	Net/Shipping weight	kg	19/24	19/24	21/26		21/26	21/26	22/27	22/27	22/27	25/31	26/32	26/32
	Refrigerant liquid pipe	mm	6.35	6.35	6.35		6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	12.7		12.7	12.7	15.88	15.88	15.88	15.88	15.88	15.88
Panel	Model name		PB-950QB	PB-950QB	PB-950QB		PB-950QB	PB-950QB	PB-950QB	PB-950QB	PB-950QB	PB-950QB	PB-950QB	PB-950QB
	External dimensions(W/D/H)	mm	950/950/50	950/950/50	950/950/50		950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50
	Shipping dimensions(W/D/H)	mm	1013/1025/123	1013/1025/123	1013/1025/123		1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123
	Net/Shipping weight	kg	5.5/8.0	5.5/8.0	5.5/8.0		5.5/8.0	5.5/8.0	5.5/8.0	5.5/8.0	5.5/8.0	5.5/8.0	5.5/8.0	5.5/8.0
Controller	Wired(Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK		HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK		HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
	Infrared(Optional)	/	YR-HQS01	YR-HQS01	YR-HQS01		YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01
			YR-HRS01	YR-HRS01	YR-HRS01		YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Round Way CASSETTE

DC fan motor

Innovative 4 independent air flow control

Unique round-way air outlet, no blind spot

6 adjustable louver positions, 1296 air flow combinations


HW-SA201ABK


HW-PA201ABK


YR-HRS01


YR-HQS01

Model/Indoor unit			AB072MRERA	AB092MRERA	AB122MRERA	AB162MRERA	AB182MRERA	AB242MRERA	AB282MRERA	AB302MRERA	AB382MRERA	AB482MRERA	AB602MRERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3	15.3	19.1	24.2	27.3	30.7	38.2	47.7	54.6
		kW	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16
	Heating	Btu/h	8.5	10.9	13.6	17.1	21.5	27.3	30.7	34.1	42.6	54.6	61.2
		kW	2.5	3.2	4	5	6.3	8	9	10	12.5	16	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	1000/810/620	1000/810/620	1000/810/620	1000/810/620	1000/810/620	1380/1190/1000	1380/1190/1000	2050/1860/1670	2050/1860/1670	2100/1910/1720	2100/1910/1720
	Sound pressure level(H/M/L)	dB(A)	30/27/25	30/27/25	30/27/25	32/29/27	33/30/29	35/34/31	37/35/31	37/35/31	37/35/31	44/40/36	44/40/36
Installation	External dimensions(W/D/H)	mm	840/840/180	840/840/180	840/840/180	840/840/180	840/840/180	840/840/204	840/840/204	840/840/246	840/840/246	840/840/288	840/840/288
	Shipping dimensions(W/D/H)	mm	983/983/268	983/983/268	983/983/268	983/983/268	983/983/268	983/983/290	983/983/290	983/983/331	983/983/331	983/983/373	983/983/373
	Net/Shipping weight	kg	25/28	25/28	25/28	25/28	25/28	27/30	27/30	31/36	31/36	33/38	33/38
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88	15.88
Panel	Model name		PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)	PB-950KB/PB-950KB(H)
	External dimensions(W/D/H)	mm	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50	950/950/50
	Shipping dimensions(W/D/H)	mm	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123	1013/1025/123
	Net/Shipping weight	kg	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9
Controller	Wired(Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
	Infrared(Optional)	/	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01	YR-HQS01
			YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

4-way CASSETTE

700x700mm panel design

Built-in high head drain pump

Pre-set fresh air inlet

Quiet operation


HW-BA116ABK


HW-SA201ABK


HW-BA101ABT


HW-PA201ABK


YR-HRS01

Model/Indoor unit			AB052MCERA	AB072MCERA	AB092MCERA	AB122MCERA	AB162MCERA	AB182MCERA(C)
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1
		kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	Btu/h	5.8	8.5	10.9	13.6	17.1	21.5
		kW	1.7	2.5	3.2	4	5	6.3
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H)	m³/h	650/540/430	700/590/480	700/590/480	700/590/480	700/590/480	700/590/480
	Sound pressure level(H/M/L)	dB(A)	31/29/28	32/30/29	32/30/29	32/30/29	33/30/29	33/30/29
	Sound power level(H/M/L)	dB(A)	45/43/42	46/44/43	46/44/43	46/44/43	47/44/43	47/44/43
Installation	External dimensions(W/D/H)	mm	570/570/260	570/570/260	570/570/260	570/570/260	570/570/260	570/570/260
	Shipping dimensions(W/D/H)	mm	718/680/380	718/680/380	718/680/380	718/680/380	718/680/380	718/680/380
	Net/Shipping weight	kg	16/19	16/19	16/19	19/22	19/22	19/22
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7
Panel	Model name		PB-700IB	PB-700IB	PB-700IB	PB-700IB	PB-700IB	PB-700IB
	External dimensions(W/D/H)	mm	700/700/60	700/700/60	700/700/60	700/700/60	700/700/60	700/700/60
	Shipping dimensions(W/D/H)	mm	740/740/115	740/740/115	740/740/115	740/740/115	740/740/115	740/740/115
	Net/Shipping weight	kg	2.8/4.5	2.8/4.5	2.8/4.5	2.8/4.5	2.8/4.5	2.8/4.5
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared (Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

CONVERTIBLE

DC fan motor

Flexible installation, on the floor or on the ceiling

Automatic horizontal and vertical swing

Reserved fresh air inlet


HW-BA116ABK


HW-SA201ABK


HW-BA101ABT


HW-PA201ABK


YR-HRS01

Model/Indoor unit			AC092MDERA	AC122MDERA	AC162MDERA	AC182MDERA	AC242MDERA	AC282MDERA	AC302MDERA	AC382MDERA	AC482MDERA
Capacity	Cooling	kBtu/h	9.5	12.3	15.4	19.1	24.2	27.3	30.7	38.2	48.0
		kW	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14.0
	Heating	Btu/h	10.9	13.6	17.1	21.5	27.3	30.7	34.1	42.6	55.0
		kW	3.2	4.0	5	6.3	8	9	10	12.5	16.0
Electrical Parameters	Power supply	Ph/V/Hz	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60	1,220~230,50/60
Performance	Air flow (H)	m³/h	820/750/690	820/750/690	950/820/690	950/820/690	1420/1270/1240	1570/1420/1240	1570/1420/1240	2110/1990/1750	2110/1990/1750
	Sound pressure level(H/M/L)	dB(A)	38/36/34	38/36/34	42/38/35	42/38/35	46/44/41	47/44/41	47/44/41	50/46/43	50/46/43
	Sound power level(H/M/L)	dB(A)	52/50/47	52/50/47	55/51/48	55/51/48	60/58/54	61/58/54	61/58/55	63/60/57	63/60/57
Installation	External dimensions(W/D/H)	mm	1000/230/680	1000/230/680	1000/230/680	1000/230/680	1325/230/680	1325/230/680	1325/230/680	1650/230/680	1650/230/680
	Shipping dimensions(W/D/H)	mm	1100/305/779	1100/305/779	1100/305/779	1100/305/779	1425/305/779	1425/305/779	1425/305/779	1750/305/779	1750/305/779
	Net/Shipping weight	kg	27.9/33.6	27.9/33.6	27.9/33.6	27.9/33.6	35.8/42.1	35.8/42.1	35.8/42.1	43.5/50.5	43.5/50.5
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Slim DUCT (0/15/30Pa)

DC fan motor

Friendly design of rear or bottom air return

Super slim design, only 185mm

Built-in high head drain pump

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

*1. HW-BA116ABK,HW-SA201ABK and HW-BA101ABT have built-in infrared signal receiver. HW-PA201ABK no such function

2. The units with panel can directly use the remote controller YR-HRS01 and no need to purchase HA-SB101DB

Model/Indoor unit			AD052MSERA(D)	AD072MSERA(D)	AD092MSERA(D)	AD122MSERA(D)	AD162MSERA(D)	AD182MSERA(D)	AD242MSERA(D)
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1	24.2
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kBtu/h	5.8	8.5	10.9	13.6	17.1	21.5	27.3
		kW	1.7	2.5	3.2	4	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H/M/L)	m^3/h	430/370/310	480/420/360	480/420/360	550/430/370	600/540/460	800/690/580	930/850/750
	Sound pressure level(H/M/L)	dB(A)	26/22/19	27/23/20	27/23/20	30/27/24	32/29/26	33/30/27	36/33/30
	Sound power level(H/M/L)	dB(A)	40/36/33	41/37/34	41/37/34	44/41/38	46/43/40	47/44/41	50/47/43
Installation	External dimensions(W/D/H)	mm	850/420/185	850/420/185	850/420/185	850/420/185	850/420/185	1170/420/185	1170/420/185
	Shipping dimensions(W/D/H)	mm	1045/540/270	1045/540/270	1045/540/270	1045/540/270	1045/540/270	1365/540/270	1365/540/270
	Net/Shipping weight	kg	16.5/21.5	17.5/22.5	17.5/22.5	17.5/22.5	18.5/23.5	22.2/28.2	24/30
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88
	Static pressure(Standard/Max.)	Pa	0/15/30	0/15/30	0/15/30	0/15/30	0/15/30	0/15/30	0/15/30
Panel	Panel model	/	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-1210IA/D	P1B-1210IA/D
	External dimensions(W/D/H)	mm	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	1210/190/100 (outlet panel)	1210/190/100 (outlet panel)
	External dimensions(W/D/H)		890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)
	Shipping dimensions(W/D/H)	mm	938/335/220	938/335/220	938/335/220	938/335/220	938/335/220	1258/335/220	1258/335/220
	Net/Shipping weight	Kg	4/5	4/5	4/5	4/5	4/5	5/6	5/6
Drain pump	O-optional,S-standard,W-without		S	S	S	S	S	S	S
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared (Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Slim DUCT (0/30Pa)

- Reserved fresh air inlet
- Friendly design of rear or bottom air return
- Super slim design, only 185mm
- Built-in high head drain pump

HW-BA116ABK HW-SA201ABK HW-BA101ABT HW-PA201ABK YR-HRS01

*1. HW-BA116ABK,HW-SA201ABK and HW-BA101ABT have built-in infrared signal receiver. HW-PA201ABK no such function

2. The units with panel can directly use the remote controller YR-HRS01 and no need to purchase HA-SB101DB

Model/Indoor unit			AD052MSERA	AD072MSERA	AD092MSERA	AD122MSERA	AD162MSERA	AD182MSERA	AD242MSERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1	24.2
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kBtu/h	5.8	8.5	10.9	13.6	17.1	21.5	27.3
		kW	1.7	2.5	3.2	4	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H/M/L)	m^3/h	430/370/310	480/420/360	480/420/360	550/430/370	600/540/460	800/690/580	930/850/750
	Sound pressure level(H/M/L)	dB(A)	26/23/20	27/24/21	27/24/21	30/28/25	33/30/27	33/30/28	36/33/31
	Sound power level(H/M/L)	dB(A)	40/37/34	41/38/35	41/38/35	44/42/39	47/44/41	47/44/42	50/47/44
Installation	External dimensions(W/D/H)	mm	850/420/185	850/420/185	850/420/185	850/420/185	850/420/185	1170/420/185	1170/420/185
	Shipping dimensions(W/D/H)	mm	1045/540/270	1045/540/270	1045/540/270	1045/540/270	1045/540/270	1365/540/270	1365/540/270
	Net/Shipping weight	kg	16.5/21.5	17.5/22.5	17.5/22.5	17.5/22.5	18.5/23.5	22.2/28.2	24/30
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88
	Static pressure(Standard/Max.)	Pa	0/30	0/30	0/30	0/30	0/30	0/30	0/30
Panel	Panel model	/	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-890IA/D	P1B-1210IA/D	P1B-1210IA/D
	External dimensions(W/D/H)	mm	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	890/190/100 (outlet panel)	1210/190/100 (outlet panel)	1210/190/100 (outlet panel)
	External dimensions(W/D/H)		890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	890/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)	1210/290.5/32.4 (inlet panel)
	Shipping dimensions(W/D/H)	mm	938/335/220	938/335/220	938/335/220	938/335/220	938/335/220	1258/335/220	1258/335/220
	Net/Shipping weight	Kg	4/5	4/5	4/5	4/5	4/5	5/6	5/6
Drain pump	O-optional,S-standard,W-without		S	S	S	S	S	S	S
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared (Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Medium ESP

DUCT (50/100Pa)

50/100Pa

50/100Pa

Built-in drain pump

248mm

Only 248mm thick

50/60Hz

All module can realize 50/60Hz

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

*1. HW-BA116ABK, HW-SA201ABK and HW-BA101ABT have built-in infrared signal receiver. HW-PA201ABK no such function

Model/Indoor unit			AD052MJERAB	AD072MJERAB	AD092MJERAB	AD122MJERAB	AD162MJERAB	AD182MJERAB	AD242MJERAB	AD282MJERAB	AD302MJERA	AD382MJERA	AD482MJERA	AD542MJERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1	24.2	27.3	30.7	38.2	47.8	54.6
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16
	Heating	Btu/h	5.8	8.5	10.9	13.6	17.1	21.5	27.3	30.7	34.1	44.4	55.6	61.4
		kW	1.7	2.5	3.2	4	5	6.3	8	9	10	13	16.3	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	630/510/424	630/510/424	630/510/424	630/510/424	740/550/442	980/840/760	1174/1080/960	1174/1080/960	1500/1180/930	1700/1300/900	2000/1700/1250	2000/1700/1250
	Sound pressure level(H/M/L)	dB(A)	35/33/31	35/33/31	35/33/31	35/33/31	35/33/31	35/34/32	35/34/32	40/37/34	42/38/34	42/39/35	42/39/35	43/40/35
	Sound power level(H/M/L)	dB(A)	39/37/35	39/37/35	39/37/35	39/37/35	39/37/35	40/38/36	40/38/36	44/41/38	46/42/38	46/33/39	44/41/38	47/44/39
Installation	External dimensions(W/D/H)	mm	700/700/248	700/700/248	700/700/248	700/700/248	700/700/248	1100/700/248	1100/700/248	1100/700/248	1100/700/248	1500/700/248	1500/700/248	1500/700/248
	Shipping dimensions(W/D/H)	mm	932/835/280	932/835/280	932/835/280	932/835/280	901/853/305	1301/853/305	1301/853/305	1301/853/305	1301/853/305	1701/853/305	1701/853/305	1701/853/305
	Net/Shipping weight	kg	27/29.5	27/29.5	27/29.5	27/29.5	27/29.5	36.8/39.8	37/40	37/40	39.4/42.4	48.3/55.5	51.3/58.5	51.3/58.5
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88	15.88
	Static pressure(Standard/Max.)	Pa	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100
Drain pump	O-optional,S-standard,W-without		S	S	S	S	S	S	S	S	S	S	S	S
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

High ESP

DUCT (20/200Pa)

DC fan motor

Built-in drain pump

248mm

Only 248mm thick

50/60Hz

All module can realize 50/60Hz

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

*1. HW-BA116ABK, HW-SA201ABK and HW-BA101ABT have built-in infrared signal receiver. HW-PA201ABK no such function

Model/Indoor unit			AD052MJERAD	AD072MJERAD	AD092MJERAD	AD122MJERAD	AD162MJERAD	AD182MJERAD	AD242MJERAD	AD282MJERAD	AD302MJERAD	AD382MJERAD	AD482MJERAD	AD542MJERAD
Capacity	Cooling	HP	0.5	0.8	1.0	1.25	1.7	2.0	2.5	3.0	3.2	4.0	5.0	6.0
		kBtu/h	5.1	7.5	9.6	12.3	15.3	19.1	24.2	27.3	30.7	38.2	47.8	54.6
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16
	Heating	kBtu/h	5.8	8.5	10.9	13.7	17	21.5	27.3	30.7	34.1	44.4	55.6	61.4
		kW	1.7	2.5	3.2	4	5	6.3	8	9	10	13	16.3	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Dimensions	Net product	mm	700/700/248	700/700/248	700/700/248	700/700/248	700/700/248	1100/700/248	1100/700/248	1100/700/248	1100/700/248	1500/700/248	1500/700/248	1500/700/248
	Shipping product	mm	901/853/305	901/853/305	901/853/305	901/853/305	901/853/305	1301/853/305	1301/853/305	1301/853/305	1301/853/305	1701/853/305	1701/853/305	1701/853/305
Weight	Product Net/Shipping	kg	25/30.7	25/30.7	25/30.7	25/30.7	26.2/31.9	34/40.5	34/40.5	34/40.5	36/42.5	44.2/53.5	47.2/56.5	47.2/56.5
Fan	Static Pressure(Standard/Max)	Pa	20/200	20/200	20/200	20/200	20/200	20/200	20/200	20/200	20/180	20/180	20/180	20/180
	Air flow (H/M/L)	m^3/h	515/440/390	545/470/390	545/470/390	570/495/420	700/625/550	915/765/640	1275/1050/875	1275/1050/875	1450/1200/1000	2000/1700/1400	2150/1750/1400	2350/1950/1600
Sound level	Sound pressure level(H/M/L)	dB(A)	29/27/25	30/28/25	30/28/25	31/29/27	32/30/28	33/31/29	34/31/29	35/33/30	36/33/30	38/35/32	40/36/32	42/38/34
	Sound power level(H/M/L)	dB(A)	41/39/37	42/40/37	42/40/37	43/41/39	44/42/40	45/43/41	46/43/41	47/45/42	48/45/42	50/47/44	52/48/44	54/50/46
Piping	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88	15.88
Drain pump	O-optional ,S-standard, N-not	/	S	S	S	S	S	S	S	S	S	S	S	S
Controller	Wired(Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
			HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Compact Air

DUCT (50/120)

DC fan motor

Standard with anti-bacterial filter

1100mm

1100mm width design, suitable for hallway installation

Large airflow, increased by 20%

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

*1. HW-BA116ABK, HW-SA201ABK and HW-BA101ABT have built-in infrared signal receiver. HW-PA201ABK no such function

Model/Indoor unit				AD302MJERN	AD382MJERN	AD482MJERN
Capacity	Cooling	kBtu/h		30.7	38.2	47.8
		kW		9.0	11.2	14.0
	Heating	Btu/h		34.1	44.3	55.6
		kW		10.0	13.0	16.3
Electrical Parameters	Power supply	Ph/V/Hz		1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Performance	Air flow(H/M/L)	m^3/h		2050/1500/1150	2050/1500/1150	2050/1500/1150
	Sound pressure level (H/M/L)	dB(A)		48/46/43	49/46/44	49/46/44
	Sound power level(H/M/L)	dB(A)		64/62/58	66/62/59	66/62/59
Installation	External dimensions(W/D/H)	mm		1100/700/248	1100/700/248	1100/700/248
	Shipping dimensions(W/D/H)	mm		1301/853/305	1301/853/305	1301/853/305
	Net/Shipping weight	kg		35/38	41/44	41/44
	Refrigerant liquid pipe	mm		9.52	9.52	9.52
	Refrigerant gas pipe	mm		15.88	15.88	15.88
	Static pressure(Standard/Max.)	Pa		50/120	50/120	50/120
Controller	Wired(Optional)	/		HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/		HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/		HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/		HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
	Infrared (Optional)	/		YR-HRS01	YR-HRS01	YR-HRS01

High ESP

DUCT (100/250Pa)

DC fan motor

28kW

Max. capacity 28kw

250 Pa

Max. ESP 250Pa

50/60Hz

All module can realize 50/60Hz

HW-SA201ABK YR-HQS01

Model/Indoor unit			AD722MTERAB	AD962MTERAB
Capacity	Model capacity	HP	8	10
	Cooling	kBtu/h	77.1	95.5
		kW	22.6	28.0
	Heating	kBtu/h	86	107.5
		kW	25.2	31.5
Electrical Parameters	Power supply	Ph/V/Hz	1/220~240/50	1/220~240/50
Dimensions (W/D/H)	Net product	mm	1333/748/495	1333/748/495
	Shipping product	mm	1558/896/668	1558/896/668
Weight	Product Net/Shipping	kg	87/109	87/109
Fan	Static pressure(Standard/Max)	Pa	100/250	100/250
	Indoor air flow(S/H/M/L)	m^3/h	4200/3750/3330/2800	4200/3750/3330/2800
Sound level	Sound pressure level (S/H/M/L)	dB(A)	54/51/49/47	54/51/49/47
	Sound power level(S/H/M/L)	dB(A)	68/65/63/61	68/65/63/61
Piping	Refrigerant liquid pipe	mm	12.7	12.7
	Refrigerant gas pipe	mm	22.22	22.22
Drain Pump	O-optional ,S-standard, N-not	/	25	25
Controller	Wired(Optional)	/	HW-SA201ABK	HW-SA201ABK
	Infrared(Optional)	/	YR-HQS01	YR-HQS01

High ESP

DUCT (0/300Pa)

DC fan motor

28kW

Max. capacity 28kw

300 Pa

Max. ESP 300Pa

50/60Hz

All module can realize 50/60Hz

HW-SA201ABK

YR-HQS01

Model/Indoor unit				AD722MTERAD	AD962MTERAD
Capacity	Model capacity	HP		8	10
	Cooling	kBtu/h		77.1	95.5
		kW		22.6	28.0
	Heating	kBtu/h		86	107.5
		kW		25.2	31.5
Electrical Parameters	Power supply	Ph/V/Hz		1/220~240/50/60	1/220~240/50/60
Dimensions (W/D/H)	Net product	mm		1333/748/495	1333/748/495
	Shipping product	mm		1558/896/668	1558/896/668
Weight	Product Net/Shipping	kg		88/110	88/110
Fan	Static pressure(Standard/Max)	Pa		100/300	100/300
	Indoor air flow(S/H/M/L)	m^3/h		4000/3600/3200/2700	4500/4100/3700/3300
Sound level	Sound pressure level(S/H/M/L)	dB(A)		53/50/48/46	54/51/49/47
	Sound power level(S/H/M/L)	dB(A)		67/64/62/60	68/65/63/61
Piping	Refrigerant liquid pipe	mm		12.7	12.7
	Refrigerant gas pipe	mm		22.22	22.22
Drain Pump	O-optional ,S-standard, N-not	/		25	25
Controller	Wired(Optional)	/		HW-SA201ABK	HW-SA201ABK
	Infrared(Optional)	/		YR-HQS01	YR-HQS01

Built-in
FLOOR STANDING

Require very little installation space: only 220mm

High efficiency filter fitted as standard

Good solution for installation beneath a window

50/60Hz

All module can realize 50/60Hz

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

Model/Indoor unit			AE072MLERA	AE092MLERA	AE122MLERA	AE162MLERA	AE182MLERA	AE242MLERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3	15.3	19.1	24.2
		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	Btu/h	8.5	10.9	13.6	17.1	21.5	27.3
		kW	2.5	3.2	4	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	750/650/550	750/650/550	750/650/550	950/830/720	950/830/720	950/830/720
	Sound pressure level(H/M/L)	dB(A)	38/35/33	38/35/33	40/37/35	40/37/35	42/39/36	42/39/36
	Sound power level(H/M/L)	dB(A)	51/48/46	51/48/46	53/50/48	53/50/48	55/52/49	55/52/49
Installation	External dimensions(W/D/H)	mm	1116/221/624	1116/221/624	1116/221/624	1116/221/624	1116/221/624	1116/221/624
	Shipping dimensions(W/D/H)	mm	1425/315/685	1425/315/685	1425/315/685	1425/315/685	1425/315/685	1425/315/685
	Net/Shipping weight	kg	29/37	29/37	29/37	31/39	31/39	31/39
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88
	Static pressure	Pa	0/30	0/30	0/30	0/30	0/30	0/30
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared (Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

Console

DC fan motor

Space saving

Air discharge through top ang bottom

Quiet operation

HW-SA201ABK YR-HRS01

Model/Indoor unit			AF052MBERA	AF072MBERA	AF092MBERA	AF122MBERA	AF162MBERA	AF182MBERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	17
		kW	1.5	2.2	2.8	3.6	4.5	5
	Heating	Btu/h	5.8	8.5	10.9	13.6	17	18.5
		kW	1.7	2.6	3.2	4	5	5.5
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H)	m^3/h	540/460/390/310/270	540/460/390/310/270	540/460/390/310/270	580/500/420/350/270	620/540/460/390/270	620/540/460/390/270
	Sound pressure level(H/M/L)	dB(A)	45/42/38/33/30	45/42/38/33/30	45/42/38/33/30	47/44/40/36/30	48/45/42/38/30	48/45/42/38/30
Installation	External dimensions(W/D/H)	mm	700/210/600	700/210/600	700/210/600	700/210/600	700/210/600	700/210/600
	Shipping dimensions(W/D/H)	mm	783/303/695	783/303/695	783/303/695	783/303/695	783/303/695	783/303/695
	Net/Shipping weight	kg	15.2/18.7	15.2/18.7	15.2/18.7	15.2/18.7	15.2/18.7	15.2/18.7
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	12.7	12.7	12.7	12.7	12.7	12.7
Controller	Wired (Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

N High WALL

DC fan motor

EEV

Built in EEV, easy to installation

Stylish design & LED display

Comfortable Sleep

HW-BA116ABK

HW-SA201ABK

HW-BA101ABT

HW-PA201ABK

YR-HRS01

Model/Indoor unit			AS052MNERAB AS052MFERAB AS052MN(F)ERAC	AS072MNERAB AS072MFERAB AS072MN(F)ERAC	AS092MNERAB AS092MFERAB AS092MN(F)ERAC	AS122MNERAB AS122MFERAB AS122MN(F)ERAC	AS162MNERA AS162MFERA AS162MN(F)ERAC	AS182MNERA AS182MFERA AS182MN(F)ERAC	AS242MNERA AS242MFERA AS242MN(F)ERAC	AS282MNERA AS282MNERAC	AS302MNERA AS302MNERAC
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3	19.1	24.2	27.3	30.7
		kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	8	9
	Heating	Btu/h	5.8	8.5	10.9	13.6	17.1	21.5	27.3	30.7	34.1
		kW	1.7	2.5	3.2	4	5	6.3	8	9	10
Electrical Parameters	Power supply	Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Performance	Air flow (H)	m³/h	500/430/370	550/480/420	600/530/470	630/560/500	800/720/650	920/800/720	1010/920/800	1500/1400/1300	1600/1500/1400
	Sound pressure level(H/M/L)	dB(A)	33/31/29	35/31/29	36/31/29	37/33/29	39/36/34	40/39/35	44/40/36	48/43/40	49/44/41
	Sound power level(H/M/L)	dB(A)	49/46//41	50/47/42	52/48/44	54/51/50	56/53/51	57/54/52	58/56/54	60/57/53	61/58/54
Installation	External dimensions(W/D/H)	mm	855/208/280	855/208/280	855/208/280	855/208/280	1115/243/336	1115/243/336	1115/243/336	1316/270/365	1316/270/365
	Shipping dimensions(W/D/H)	mm	954/279/355 *1054/279/355	954/279/355 *1054/279/355	954/279/355 *1054/279/355	954/279/355 *1054/279/355	1206/342/418 *1306/342/418	1206/342/418 *1306/342/418	1206/342/418 *1306/342/418	1403/384/463 *1503/384/463	1403/384/463 *1503/384/463
	Net/Shipping weight	kg	9.9/12 *9.9/14.2	9.9/12 *9.9/14.2	9.9/12 *9.9/14.2	9.9/12 *9.9/14.2	15.8/18.9 *15.8/21.2	15.8/18.9 *15.8/21.2	15.8/18.9 *15.8/21.2	21.8/26.3 *21.8/27.2	21.8/26.3 *21.8/27.2
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88
Controller	Wired(Optional)	/	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT	HW-BA101ABT
		/	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK	HW-PA201ABK
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
	Infrared(Optional)	/	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01	YR-HRS01

*Note: Please choose AV***MN(F)ERAC series for quiet required environment.
The electronic expansion valve of AV***MN(F)ERAC series is outside.
*For AS***MN(F)ERAC

MRV INDOOR Ventilation

313 VENTILATION

Fresh Air Duct

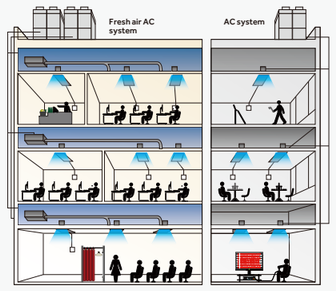
HRV

MRV INDOOR Ventilation

Ventilation

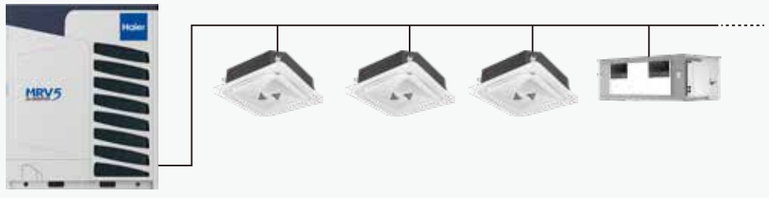
Introduction of fresh air, indoor air supply more comfortable

Haier fresh air duct can heat or cool the outdoor fresh air to close to the indoor temperature and transport fresh air to the room. In spring and autumn, fresh air can be filtered without passing through the coil, directly sent into the room to save the energy.



Adopt R410a environment-friendly refrigerant, efficient use of DC frequency conversion technology, more energy saving

The fresh air duct can be mixed with the MRV indoor units to achieve unified management.



Adopt high efficiency brushless DC fan motor, the rotating speed can be adjusted flexibly according to the actual static pressure to ensure the stable output of air volume, greatly reduce low operating noise.

The built-in float switch can monitor the condensate status of the water receiving tray in real time to avoid accidents. Water leakage and other hidden dangers caused by poor drainage. (for AD72/962MTERAF)

HRV

Design standard

Accord with CE, ROSH and REACH, more safety.

Super comfortable

DC brushless motor and fan simulation volute design, lower noise.

Easy maintenance

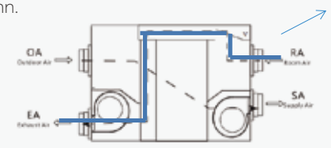
The hydrophilic material is added to the functional film used by the pellet, and its surface friction coefficient is obtained; Smaller, dust particles will not adhere to the surface of the film, no need to frequent cleaning, if you need to clean, you can simply clean with tap water, dry and then use again (can be washed multiple times).The heat exchange core and filter can be pulled out of the structure design, more convenient maintenance.

High efficiency

Graphene material heat exchange core, the effective air exchange rate is up to 95%, and energy saving is achieved through efficient heat recovery technology.

Heat exchange core

This device has a bypass function (the return air can be directly discharged from the outdoor through the bypass without passing through the heat exchanger), which can effectively extend the service life of the heat exchanger. We suggest that you turn on the bypass function in spring or autumn.



Easy control

Indoor units linkage function, can be connected with indoor units , according to the operation of the indoor units automatic interlock control HRV on off operation.

The heat exchange core of the heat recovery fresh air main engine sold on the market is mainly divided into three kinds according to the material: paper, aluminum, graphene.

Item	Paper	Aluminum	Graphen
Heat recovery efficiency	★★★	★★★★★	★★★★
Anti-microbial		★★★	★★★★★
Life time	★	★★★★★	★★★★★
Maintenance	Change	Water wash	Water wash

Fresh Air

DUCT

100~350Pa

Variable static pressure 100~350Pa setting

DC fan motor

Fresh air

50/60Hz

All module can realize 50/60Hz

HW-BA116ABK

HW-SA201ABK

YR-HRS01

Model/Indoor unit			AD482MJERAF	AD722MTERAF	AD962MTERAF
Capacity	Cooling	kBtu/h	47.7	77.1	95.5
		kW	14	22.6	28
	Heating	Btu/h	34.1	68.2	83.5
		kW	10	20	24.5
Electrical Parameters	Power supply	Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Performance	Air flow (H)	m³/h	1900/1600/1460/1200	2800/2300/1800/1500	3200/2800/2400/2000
	Sound pressure level(H/M/L)	dB(A)	48/46/44/42	48/46/44/42	49/47/45/42
	Sound power level(H/M/L)	dB(A)	61/59/57/55	61/59/57/55	62/60/58/55
Installation	External dimensions(W/D/H)	mm	1500/700/248	1333/748/495	1333/748/495
	Shipping dimensions(W/D/H)	mm	1698/857/305	1558/896/668	1558/896/668
	Net/Shipping weight	kg	45.4/52.6	88/110	88/110
	Refrigerant liquid pipe	mm	9.52	12.7	12.7
	Refrigerant gas pipe	mm	15.88	22.22	22.22
	Static pressure(Standard/Max.)	Pa	100/200	100/350	100/350
Controller	Wired (Optional)	/	HW-SA201ABK	HW-SA201ABK	HW-SA201ABK
		/	YR-HQS01	YR-HQS01	YR-HQS01
			HW-BA116ABK	HW-BA116ABK	HW-BA116ABK

HRV

Be controlled with other indoor units together

Heat recovery media element

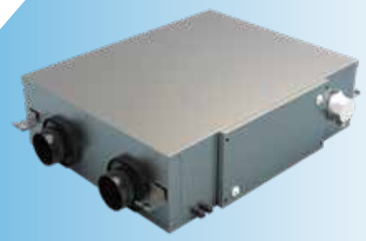
Efficient heat recovery air processing

1000 m³/h

Max. air flow 1000m³/h

W9301

Model/Indoor unit			ERV0150ANW	ERV0260ANW	ERV0500ANW	ERV0800ANW	ERV1000ANW
Electrical	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
	Rated power input	W	135	165	280	360	420
	Rated current	A	0.65	0.79	1.34	1.72	2.01
Enthalpy exchange effectiveness	Cooling condition		58%	57%	61%	68%	61%
	Heating condition		65%	65%	68%	72%	65%
Performance	Air flow (H/M/L)	m³/h	150/110/70	250/200/160	500/430/375	800/680/600	1000/810/730
	Sound pressure level (H/M/L)	dB(A)	38/35/30	40/38/35	45/42/40	48/46/43	50/48/45
	Sound power level （H/L)	dB(A)	48/45/40	50/48/45	55/52/50	58/58/53	60/58/55
Installation	External dimensions(W/D/H)	mm	750/530/240	750/530/270	1000/710/270	1200/940/324	1250/935/350
	Shipping dimensions(W/D/H)	mm	955/575/305	955/575/335	1205/755/335	1405/985/389	1455/980/415
	Net weight/Shipping weight	kg	26/28	30/32	40/42	55/59	56/60
	Static pressure	Pa	80	80	100	100	100
Controller	Wired (Standard)	/	W9301	W9301	W9301	W9301	W9301



E5TB-XF

MODEL			ERV0150BNN	ERV0250BNN	ERV0350BNN	ERV0500BNN	ERV0800BNN	ERV1000BNN	ERV2000BNN
Power supply		Ph/V/Hz	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60	1/220/50/60
Cooling	Airflow※1	m³/h	150	250	350	500	800	1000	2000
	Temperature exchange efficiency(H/M/L)※2	%	71.20/72.50/73.60	67.50/68.90/69.30	67.60/68.90/72.10	71.10/73.50/73.90	68.10/72.40/72.90	70.50/72.60/73.80	67.70/71.90/72.50
	Enthalpy exchange efficiency(H/M/L)※2	%	56.30/60.40/67.20	55.00/59.10/66.20	55.40/60.50/65.40	59.00/60.50/64.00	58.90/62.70/68.30	63.10/65.40/68.80	62.40/65.80/64.80
	Power input ※1	W	60	105	185	315	385	620	950
	Current	A	0.50	0.80	1.30	2.60	3.52	4.28	5.94
Heating	Airflow※1	m³/h	150	250	350	500	800	1000	2000
	Temperature exchange efficiency(H/M/L)※3	%	73.60/75.10/77.30	73.00/74.40/76.20	73.00/73.10/75.90	73.00/75.30/76.90	73.60/74.80/75.10	74.00/75.60/76.80	73.00/73.80/75.60
	Enthalpy exchange efficiency(H/M/L)※3	%	67.60/69.90/74.50	64.40/68.30/70.10	66.80/70.30/73.90	67.40/68.00/70.10	67.40/72.10/73.20	71.36/72.20/75.40	66.70/70.20/73.20
	Power input ※1	W	60	105	185	315	385	620	950
	Current	A	0.50	0.80	1.30	2.60	3.52	4.28	5.94
Operating current		A	0.50	0.80	1.30	2.60	3.52	4.28	5.94
Indoor motor	Type		DC	DC	DC	DC	DC	DC	EC
	Insulation class		Class B	Class B	Class B	Class B	Class B	Class B	Class B
	IP class		IP42	IP42	IP42	IP42	IP42	IP42	IP44
	Power input	W	65	80	160	180	350	350	500
	Power output	W	49	61	126	137	298	298	425
Indoor fan	Quantity		2	2	2	2	2	2	2
Cabinet	Cabinet coating type		Q235	Q235	Q235	Q235	Q235	Q235	Q235
	Cabinet salt spray test duration	Hour	72h	72h	72h	72h	72h	72h	72h
	Control box iP class		IP2X	IP2X	IP2X	IP2X	IP2X	IP2X	IP2X
Construction	Sheet metal thickness	mm	1	1	1	1	1	1	1
Air filter	Material		Non-woven Fabric/ Ultrafine Synthetic Fiber						
	Class		G4/F7	G4/F7	G4/F7	G4/F7	G4/F7	G4/F7	G4/F7
	Pressure drop	Pa	90	90	90	90	90	90	90
Air return dimension		mm	110	150	150	150	200	200	300*260(mm)
Air outlet dimension		mm	110	150	150	150	200	200	300*260(mm)
Sound pressure level(H/M/L)		dB(A)	33/29/26	35/31/27	38/36/31	43/40/34	46/30/37	48/45/39	55/50/44
Sound power level(H/M/L)		dB	36/35/32	41/37/33	44/42/37	49/46/40	52/36/43	54/51/45	61/56/50
Standard static pressure※1		Pa	65	75	80	90	90	75	70
Max. Static pressure		Pa	65	75	80	90	90	75	70
Indoor airflow(h/m/l)※1		m³/h	150/120/90	250/200/150	350/280/210	500/400/300	800/640/480	1000/800/600	2000/1600/1200
Unit dimension (W*D*H)		mm	820/650/235	835/750/235	876/750/235	1100/800/280	1138/1000/385	1295/1150/385	1450/1150/600
Packing dimension (W*D*H)		mm	1065/750/335	1080/850/335	1080/850/335	1345/900/380	1545/1100/485	1545/1250/485	1695/1250/700
Net weight		kg	36	41	43	52	81	91	142
Remote wired controller		/	E5TB-XF						
Operation range		/	-15-43						

Note:The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level.
Condition： 1. Indoor temperature : 20DB (°C)/15.8WB (°C),outdoor temperature : 20DB (°C)/15.8WB (°C);2. Indoor temperature : 27DB (°C)/19.5WB (°C),outdoor temperature : 35DB (°C)/28WB (°C);
3. Indoor temperature : 21DB (°C)/13WB (°C), outdoor temperature : 2DB (°C)/1WB (°C);

Be controlled with other indoor units together

Heat recovery media element

Efficient heat recovery air processing

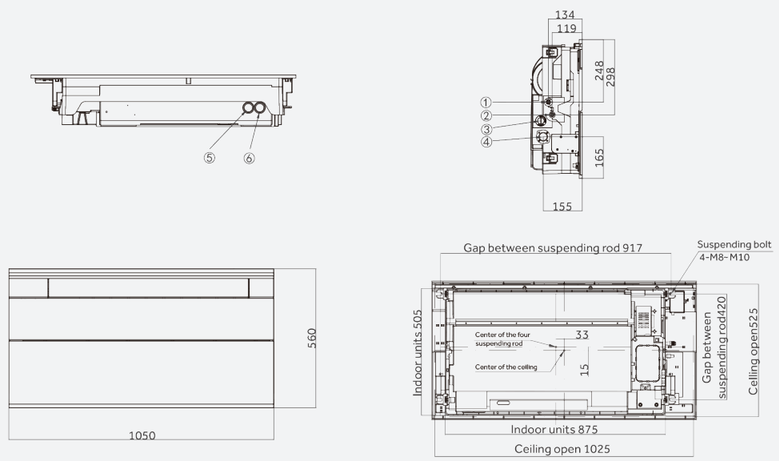
2000 m³/h

Max. air flow 2000m³/h

Dimensions

1-way Cassette

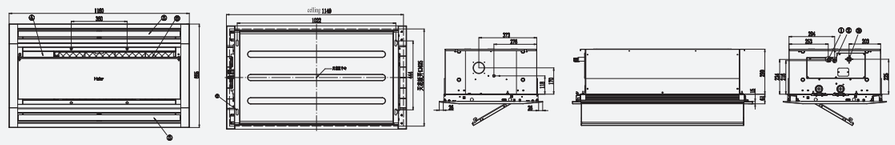
AB052MAERA AB072MAERA AB092MAERA AB122MAERA



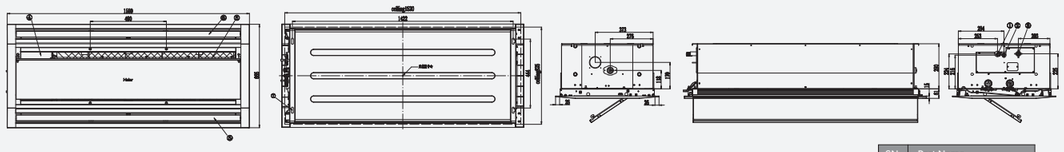
SN	Part Name
1	Gas pipe
2	Liquid pipe
3	Water filling hole
4	Drain pipe
5	Power supply
6	Communication wire

1-way Cassette

AB052MAERAD AB072MAERAD AB092MAERAD AB122MAERAD AB162MAERAD AB182MAERAD AB242MAERAD



AB05~162MAERAD

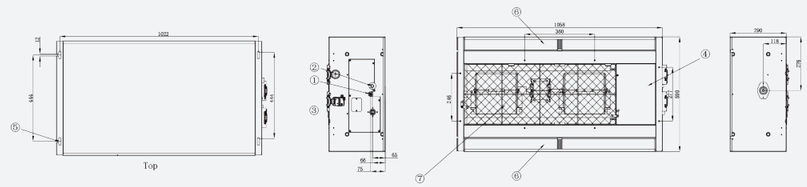


AB18~242MAERAD

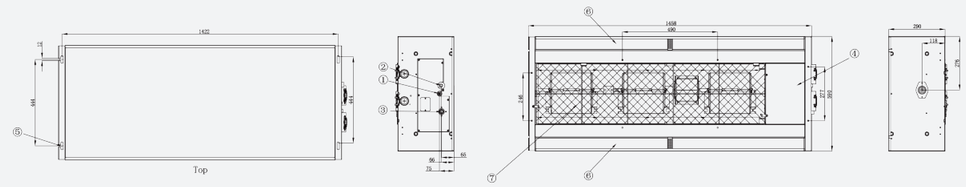
SN	Part Name
1	Gas pipe
2	Liquid pipe
3	Drain pipe
4	Electrical box
5	Air outlet
6	Air inlet
7	Pothook

2-way Cassette

AB072MBERAD AB092MBERAD AB122MBERAD AB162MBERAD AB182MBERAD AB242MBERAD
AB282MBERAD AB302MBERAD AB382MBERAD AB482MBERAD



AB07~242MBERAD

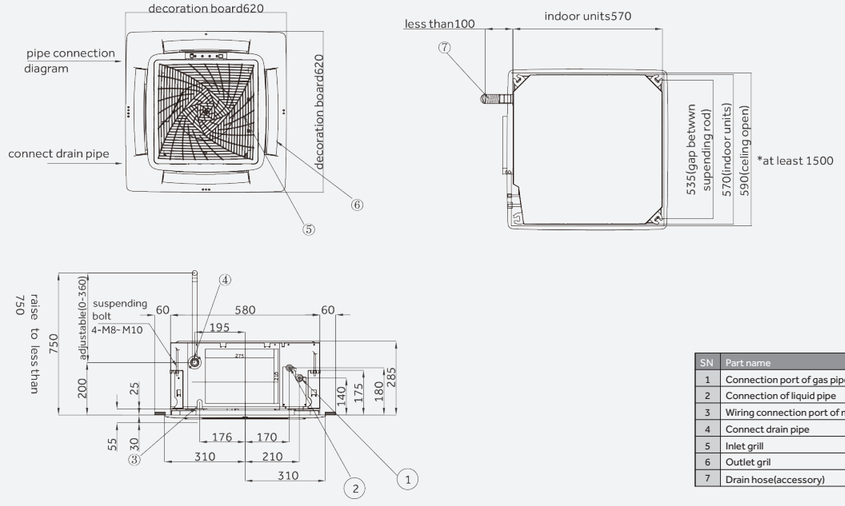


AB28~482MBERAD

Code	Name
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electrrical box
5	Angle iron for hanging
6	Air outlet
7	Air inlet

Compact Cassette

AB052MCERA(M) AB072MCERA(M) AB092MCERA(M) AB122MCERA(M) AB162MCERA(M) AB182MCERA(M)

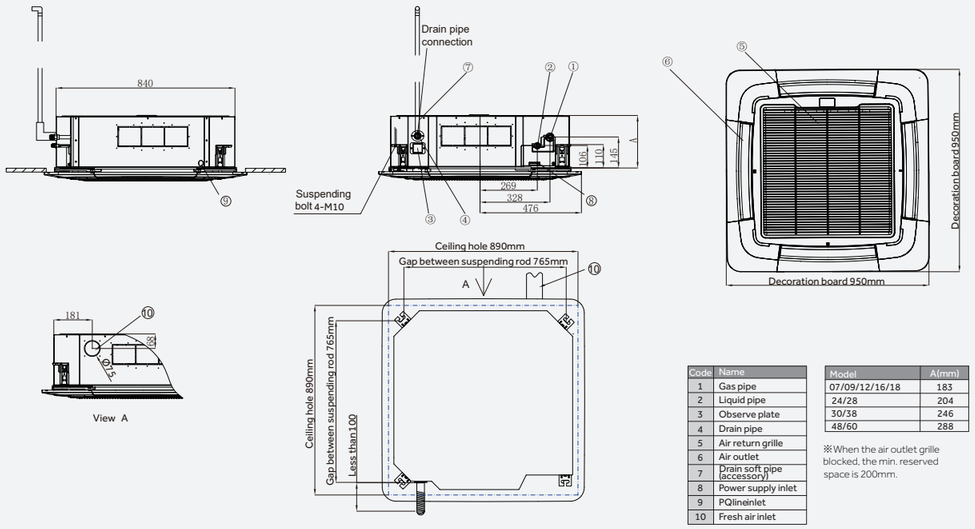


SN	Part name
1	Connection port of gas pipe
2	Connection of liquid pipe
3	Wiring connection port of motor/pumping motor
4	Connect drain pipe
5	Inlet grill
6	Outlet gril
7	Drain hose(accessory)

Dimensions

Round Way Cassette

AB072MNERAB AB092MNERAB AB122MNERAB AB162MNERAB AB182MNERAB AB242MNERAB
AB282MNERAB AB302MNERAB AB382MNERAB AB482MNERAB AB602MNERAB



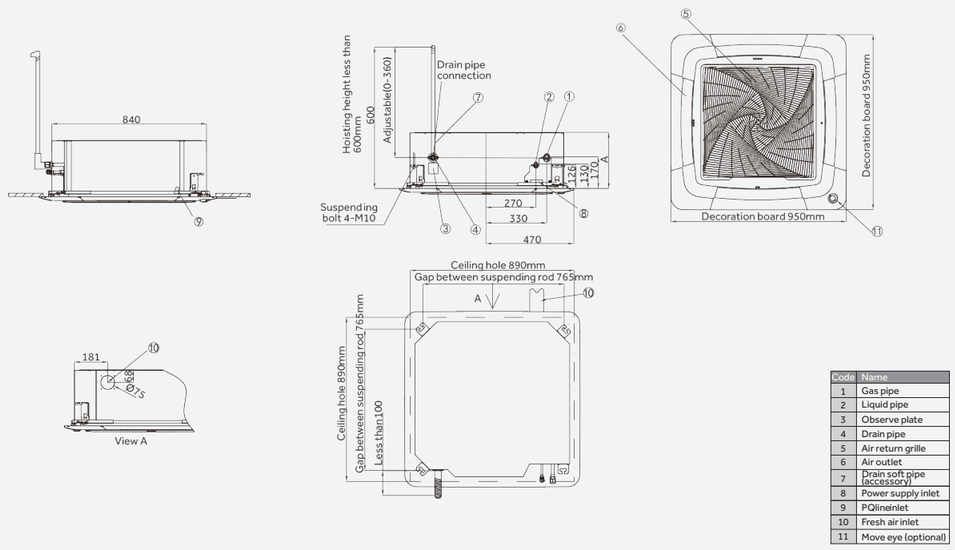
Code	Name
1	Gas pipe
2	Liquid pipe
3	Observe plate
4	Drain pipe
5	Air return grille
6	Air outlet
7	Drain soft pipe (accessory)
8	Power supply inlet
9	PQlineinlet
10	Fresh air inlet

Model	A(mm)
07/09/12/16/18	183
24/28	204
30/38	246
48/60	288

※When the air outlet grille blocked, the min. reserved space is 200mm.

Round Way Cassette

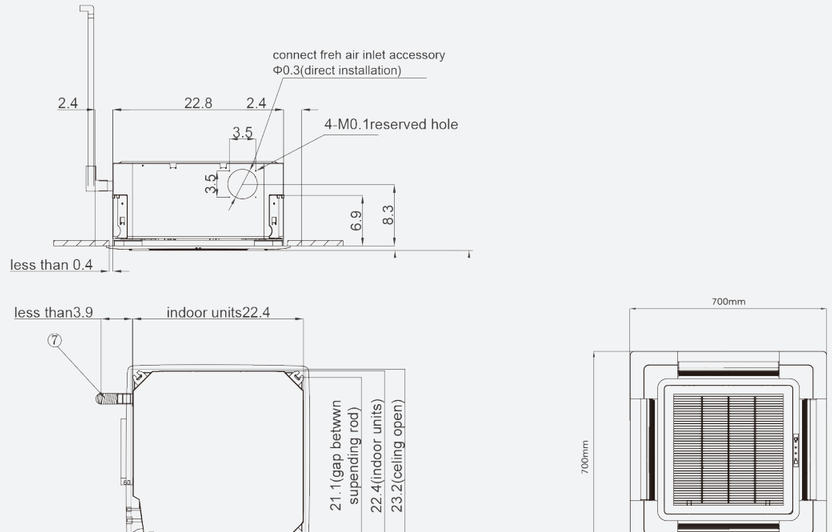
AB072MRERA AB092MRERA AB122MRERA AB162MRERA AB162MRERA AB242MRERA
AB282MRERA AB302MRERA AB302MRERA AB482MRERA AB602MRERA



Code	Name
1	Gas pipe
2	Liquid pipe
3	Observe plate
4	Drain pipe
5	Air return grille
6	Air outlet
7	Drain soft pipe (accessory)
8	Power supply inlet
9	PQlineinlet
10	Fresh air inlet
11	Move eye (optional)

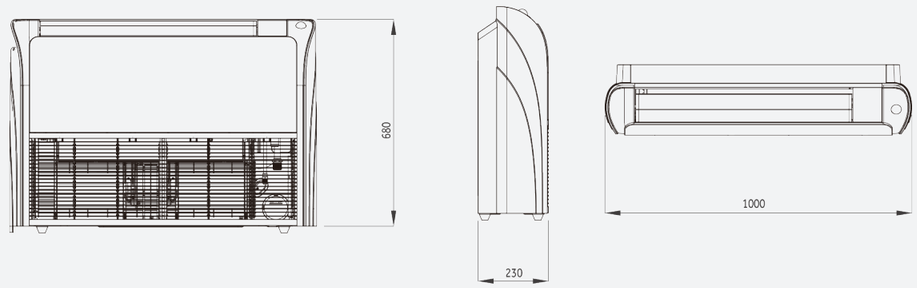
4-way Cassette

AB052MCERA AB072MCERA AB092MCERA AB122MCERA AB162MCERA AB182MCERA(C)



Convertible

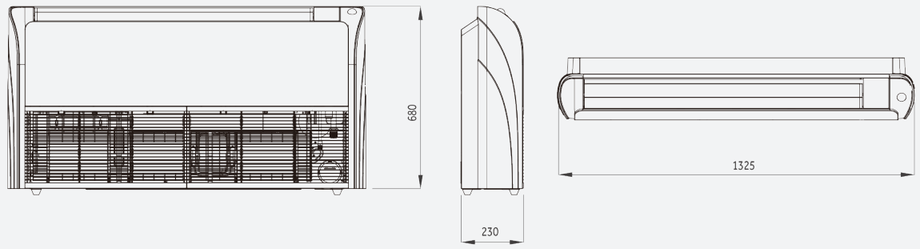
AC092MDERA AC122MDERA AC162MDERA AC182MDERA



Dimensions

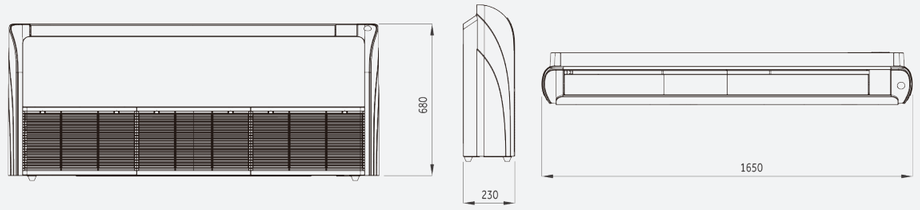
Convertible

AC242MDERA AC282MDERA AC302MDERA

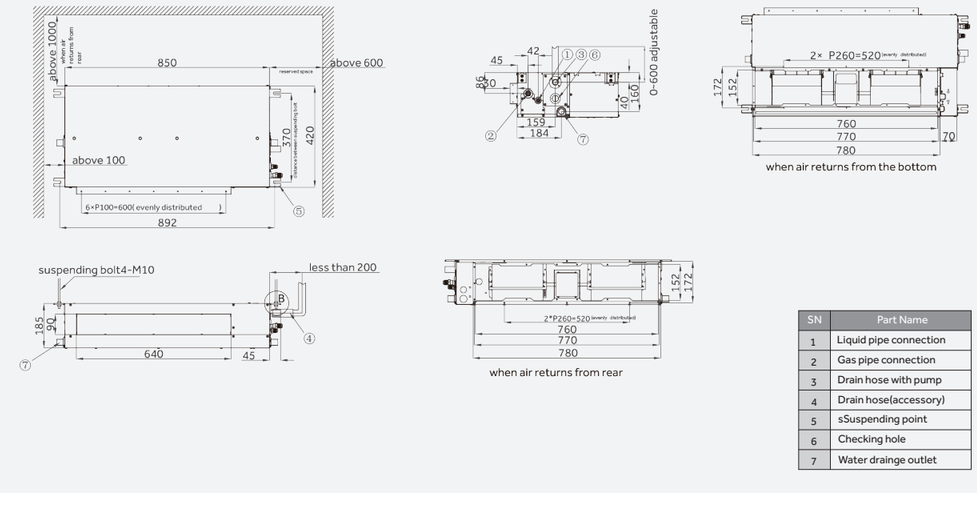


Convertible

AC382MDERA AC482MDERA

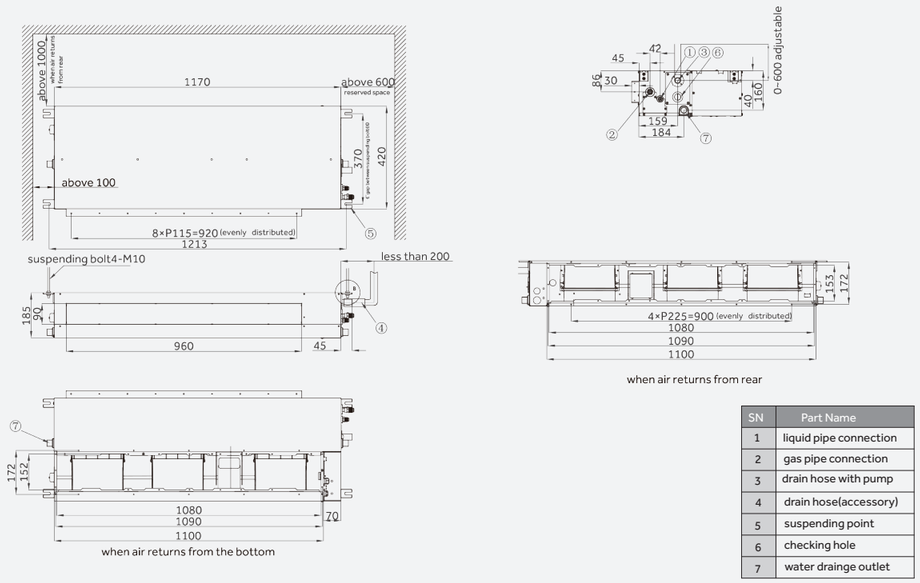


Slim Duct(0/15/30Pa) AD052MSERA(H) AD072MSERA(H) AD092MSERA(H) AD122MSERA(H) AD162MSERA(H)
Slim Duct(0/15/30Pa) AD052MSERA(D) AD072MSERA(D) AD092MSERA(D) AD122MSERA(D) AD162MSERA(D)
Slim Duct(0/30Pa) AD052MSERA AD072MSERA AD092MSERA AD122MSERA AD162MSERA



SN	Part Name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain hose with pump
4	Drain hose(accessory)
5	sSuspending point
6	Checking hole
7	Water drainge outlet

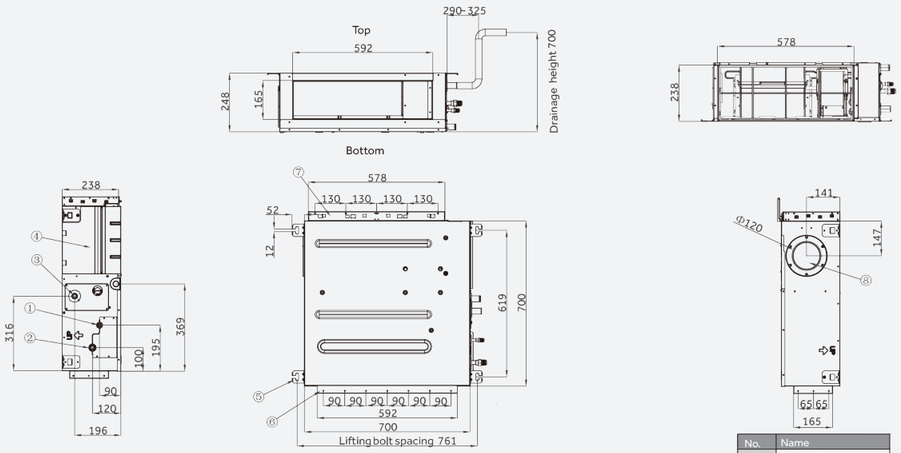
Slim Duct(0/15/30Pa) AD182MSERA(H) AD242MSERA(H)
Slim Duct(0/15/30Pa) AD182MSERA(D) AD242MSERA(D)
Slim Duct(0/30Pa) AD182MSERA AD242MSERA



SN	Part Name
1	liquid pipe connection
2	gas pipe connection
3	drain hose with pump
4	drain hose(accessory)
5	suspending point
6	checking hole
7	water drainge outlet

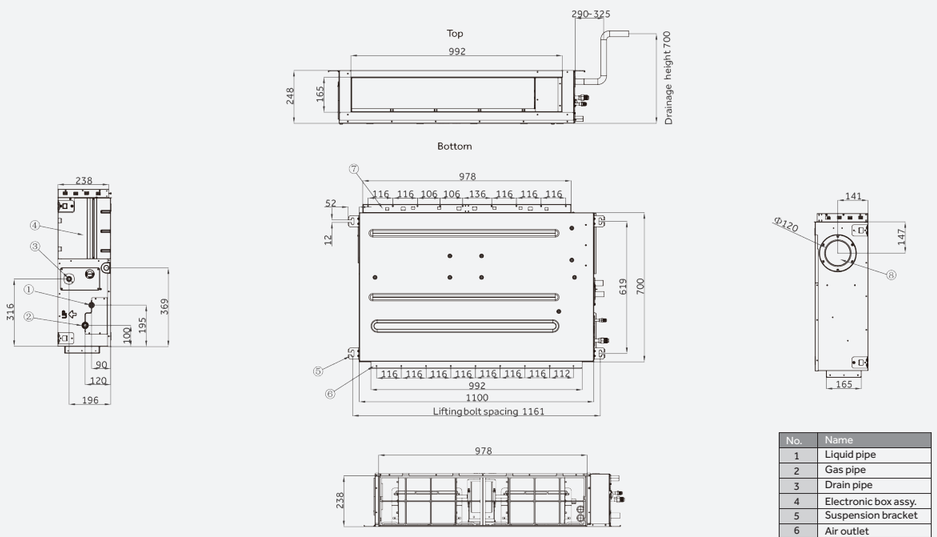
Dimensions

High ESP Duct(20/200Pa) AD052MJERA(H) AD072MJERA(H) AD092MJERA(H) AD122MJERA(H) AD162MJERA(H)
Medium ESP Duct(50/100Pa) AD052MJERAB AD072MJERAB AD092MJERAB AD122MJERAB AD162MJERAB
High ESP Duct(20/200Pa) AD52MJERAD AD72MJERAD AD92MJERAD AD122MJERAD AD162MJERAD



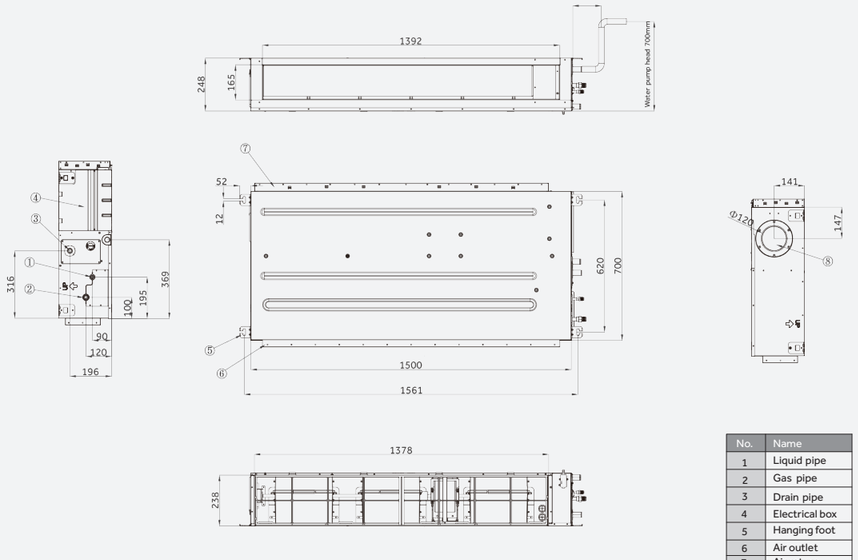
No.	Name
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electronic box assy.
5	Suspension bracket
6	Air outlet
7	Air return
8	Fresh air

High ESP Duct(20/200Pa) AD182MJERA(H) AD242MJERA(H) AD282MJERA(H) AD302MJERA(H)
Medium ESP Duct(50/100Pa) AD182MJERAB AD242MJERAB AD282MJERAB AD302MJERA
High ESP Duct(20/200Pa) AD182MJERAD AD242MJERAD AD282MJERAD AD302MJERAD



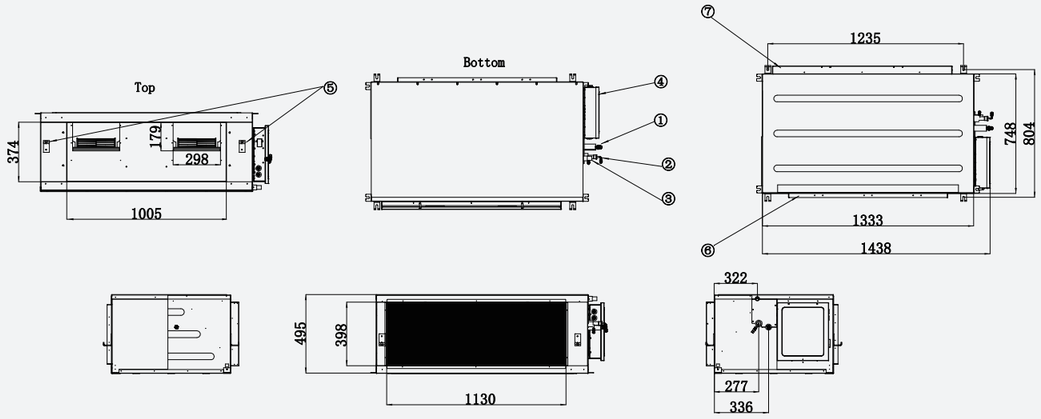
No.	Name
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electronic box assy.
5	Suspension bracket
6	Air outlet
7	Air return
8	Fresh air

High ESP Duct(20/200Pa) AD382MJERA(H) AD482MJERA(H) AD542MJERA(H)
Medium ESP Duct(50/100Pa) AD382MJERA AD482MJERA AD542MJERA
High ESP Duct(20/200Pa) AD382MJERAD AD482MJERAD AD542MJERAD



No.	Name
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electrical box
5	Hanging foot
6	Air outlet
7	Air return
8	Fresh air

High ESP Duct (100/250Pa) AD722MTERAB AD962MTERAB
High ESP Duct (0-300Pa) AD722MTERAD AD962MTERAD

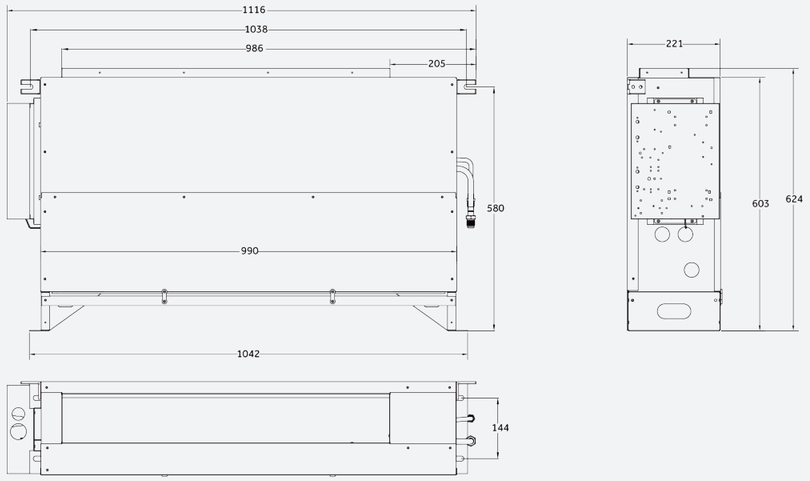


No.	Name
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electrical box
5	Angle iron for hanging
6	Air outlet
7	Air return

Dimensions

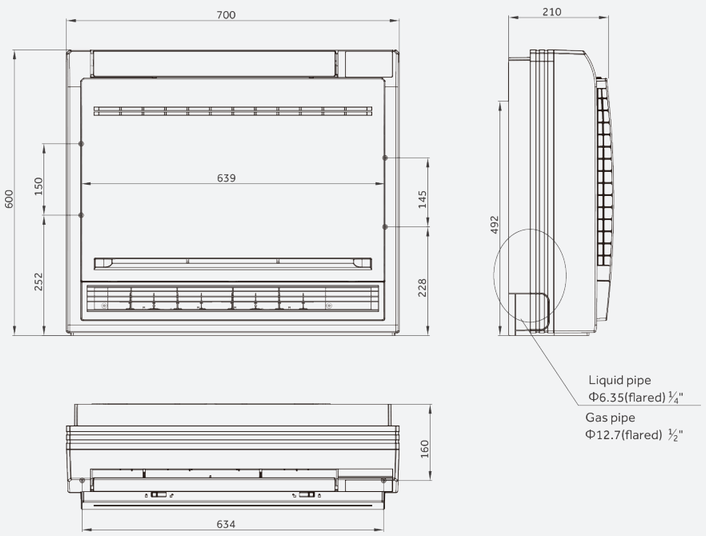
Built-in Floor Standing

AE072MLERA AE092MLERA AE122MLERA AE162MLERA AE182MLERA AE242MLERA



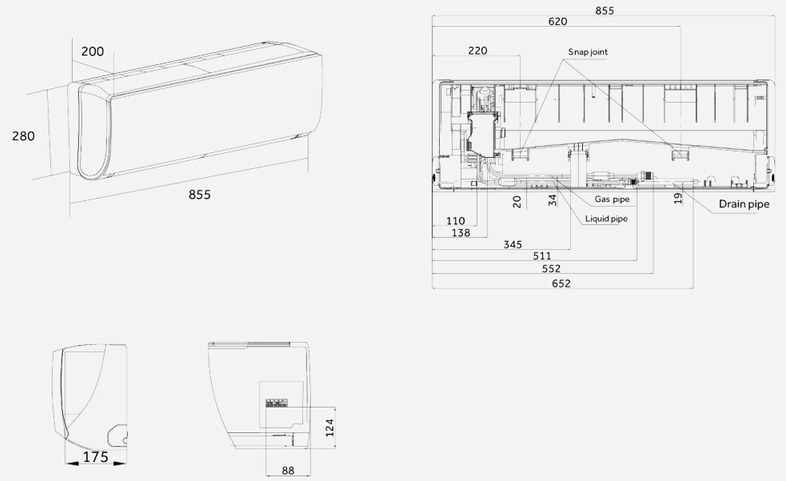
Console

AF052MBERA AF072MBERA AF092MBERA AF122MBERA AF162MBERA AF182MBERA



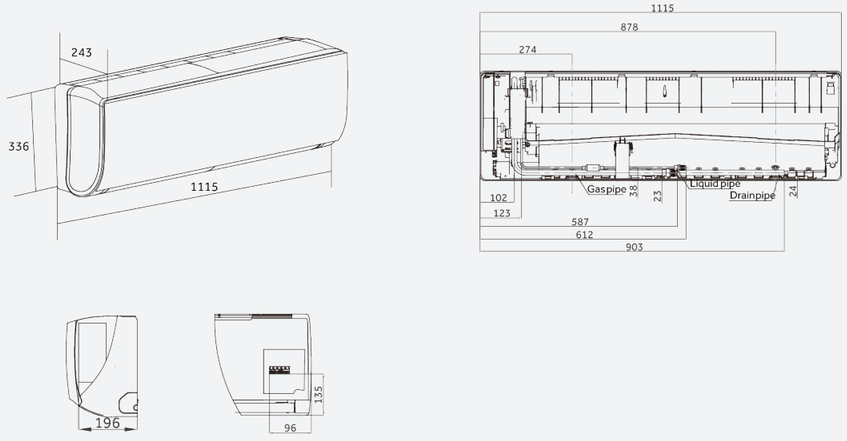
N High Wall

AS052MNERAB AS072MNERAB AS092MNERAB AS122MNERAB
AS052MFERAB AS072MFERAB AS092MFERAB AS122MFERAB



N High Wall

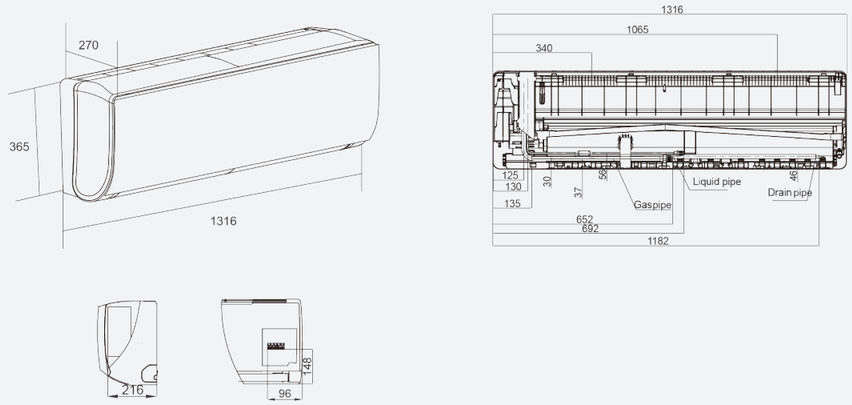
AS162MNERA AS182MNERA AS242MNERA
AS162MFERA AS182MFERA AS242MFERA



Dimensions

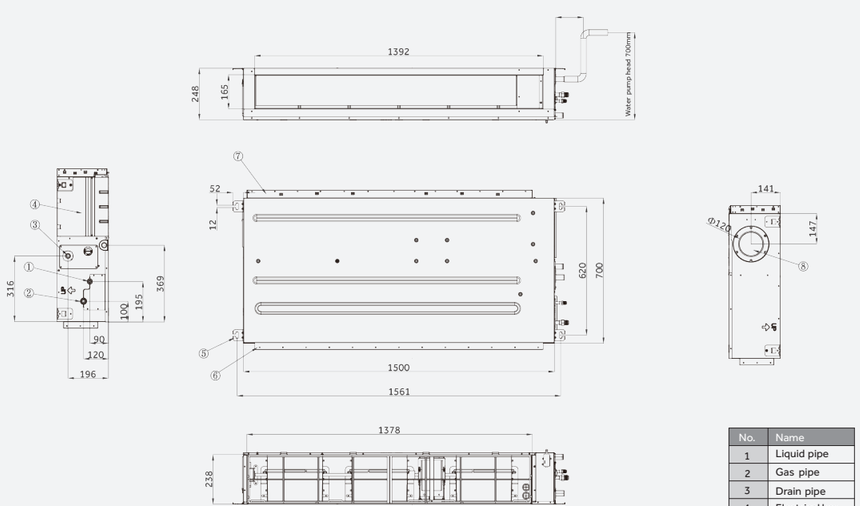
N High Wall

AS282MNERA AS302MNERA



Fresh Air Duct

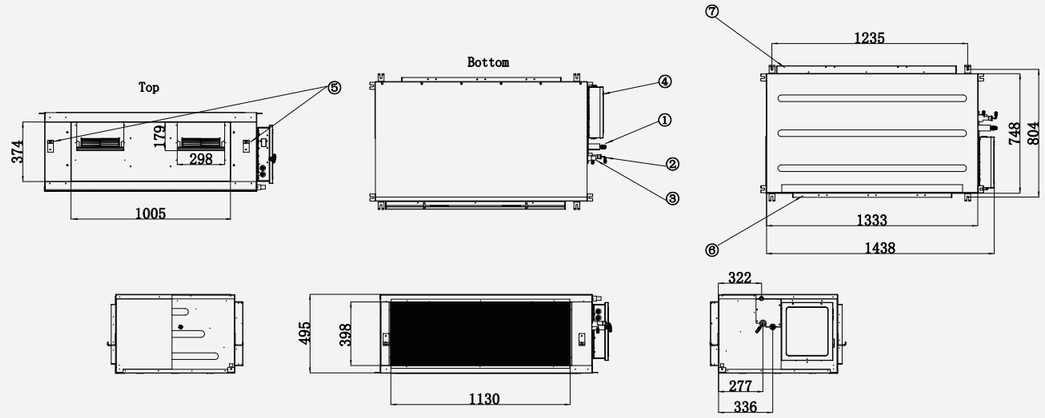
AD482MJERF



No.	Name
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electrical box
5	Hanging foot
6	Air outlet
7	Air return
8	Fresh air

Fresh Air Duct

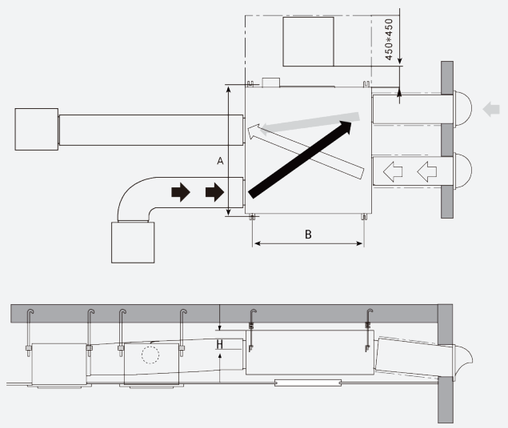
AD722MTERAF AD962MTERAF



No.	Name
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electrical box
5	Angle iron for hanging
6	Air outlet
7	Air return

HRV

ERV0150ANW ERV0260ANW ERV0500ANW ERV0800ANW ERV1000ANW

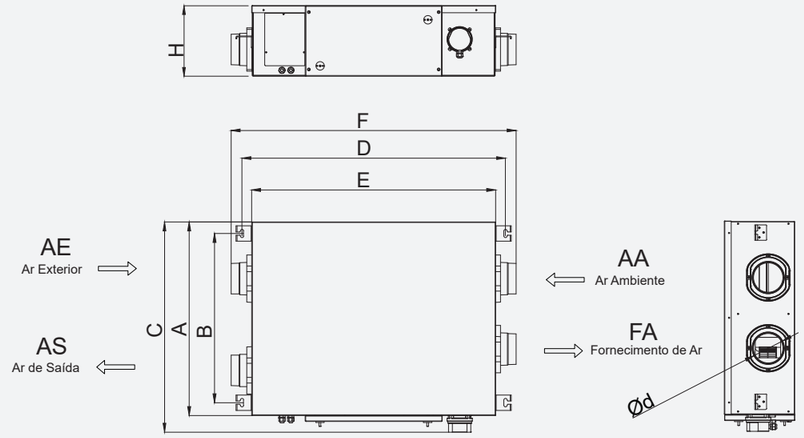


Model	A	B	H
ERV0150ANW	530	750	240
ERV0260ANW	530	750	270
ERV0500ANW	690	1000	256
ERV0800ANW	920	1200	324
ERV01000ANW	915	1250	350

Dimensions

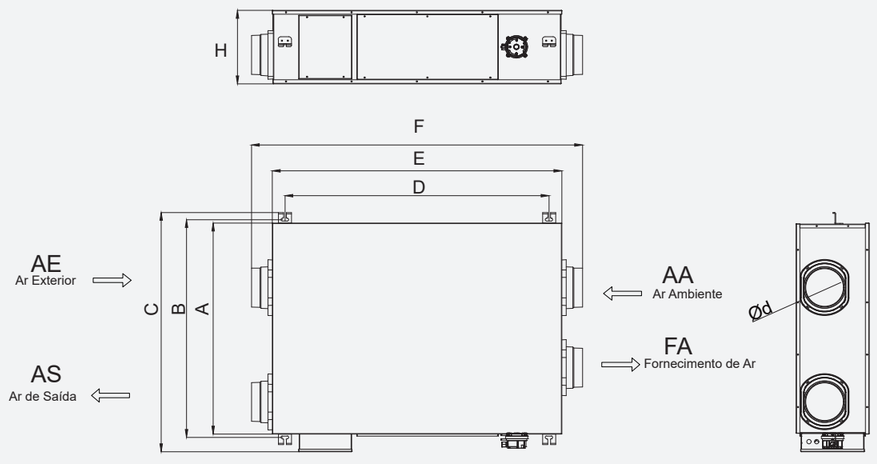
HRV

ERV0150BNN



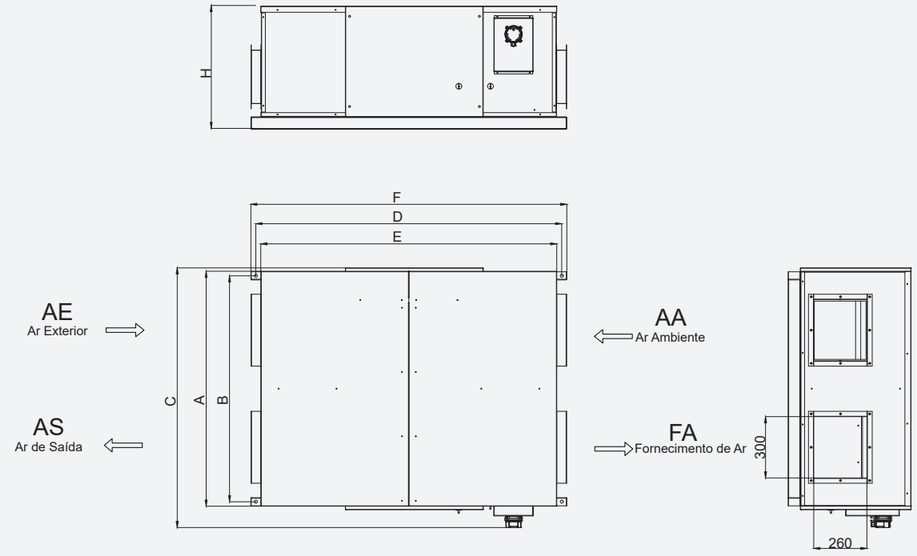
HRV

ERV0250BNN ~ ERV1000BNN



HRV

ERV2000BNN



Modelo	A	B	C	D	E	F	H	d
ERV0150BNN	650	571	710	890	820	962	235	Φ110
ERV0250BNN	750	790	848	792	835	1038	235	Φ150
ERV0350BNN	750	790	848	792	876	1038	235	Φ150
ERV0500BNN	800	831	913	1008	1100	1264	280	Φ150
ERV0800BNN	1000	1066	1158	1071	1138	1375	385	Φ200
ERV1000BNN	1295	1351	1449	1071	1150	1375	385	Φ200
ERV2000BNN	1150	1106	1272	1497	1450	1547	600	260×300

CONTROL SYSTEM

337 Individual Controller

339 Centralized Controller

343 BMS Solution

349 Multi Tenant Solution

350 Service Tool

Individual Controller

The individual control system has a variety of wired and wireless controllers which enable you easy and intelligent control of your air conditioners. You can choose the one which best suits for your air conditioning management.

Individual Controller

YR-HQS01

- On/Off, operation mode, fan speed, temperature setting, swing
- Turbo and quiet
- Individual louver control for round flow 4-way cassette and mini 4-way cassette
- Clock & timer
- Health function
- Self-cleaning function
- Backlight
- Convenient to operate most functions through one button

YR-HRS01

- On/Off, operation mode, fan speed, temperature setting, swing
- Turbo and quiet
- Individual louver control for round flow 4-way cassette and mini 4-way cassette
- Self-cleaning function
- Timer
- Health function
- Backlight

Individual Controller

HW-SA201ABK

- Individual & group control(Max. 16 indoor units)
- On/Off, mode, fan speed, temperature, swing
- °C/°F, Temp. adjustment sensitivity ±0.5°C(±1°F)
- Timer
- Backlight off
- Built-in infrared signal receiver for duct units
- Individual louver control for round-way cassette
- R32 refrigerant leakage alarm
- Self-cleaning function

HW-BA116ABK

- Alternating current
- Basic fucntion: On/Off, mode, fan speed, temperature
- Individual & group control (Max.16 indoor units)
- Simple and smart design, 86*86*14.80mm
- Could receive wireless controller signal

HW-BA101ABT

- Individual & group control (Max. 16 indoor units controllable)
- Compact design 86*86mm
- Touch screen
- Black and tempered glass body with highlight LED icon display
- Basic function: On/Off, mode, swing, dry, auto
- Built-in infrared signal receiver for infrared remote control
- Built-in buzzer

HW-PA201ABK

- Colorful screen
- Individual & group control(Max. 16 indoor units)
- Basic function : On/Off, mode, fan speed, temperature, swing
- °C/°F, Temp. adjustment sensitivity ±0.5°C(±1°F)
- Weekly timer
- Electric heater
- Individual louver control for round-way cassette
- R32 refrigerant leakage alarm
- Multi-language

HA-SB101DB

- Infrared signal receiver
- Realize the remote control of duct type indoor unit
- Model selection depens on the duct indoor unit

Central Control WIFI Module (HI-WA164DBI)

- Individual/central remote control by APP
- Max.64 IDUs controllable for single wifi module (Max. 256 for combinations)
- Remote monitoring and control: On/Off, Temp. operation mode, fan speeds
- Weekly scheduling
- Error alarm and error history
- Convenient management authority sharing without repeating to pair with units
- Connecting to 5-inch central controller (HC-SA164DBT); (MRV5 and HA-MA164AD gateway can connect directly.)

Centralized Controller

The centralized control system offers you a smart and convenient experience while managing your air conditioner individually or by groups or by zones. a variety of controllers can be used to perfect your air conditioning management.

Centralized Controller

HC-SA164DBT

- Individual control, central control (Max. 64 indoor units)
- 5-inch TFT LCD touch screen with back light
- Weekly timer
- Indoor units' information editable
- Historical error
- MRV 5 system and upgraded MRV SII(8/10/12HP) outdoor units can connect directly
- Other MRV system requires HA-MA164AD

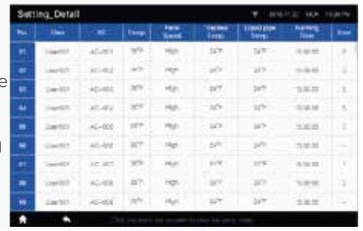
Centralized Controller

Monitoring up to 64 indoor unit could control HRV and monitoring the state of all IDU display fault IDU number

Set schedule for unit, group,all time control could be add,change, delete, unit control, group control, all On/Off

Turn ON/OFF the DST DST schedule time setting DST compensation setting

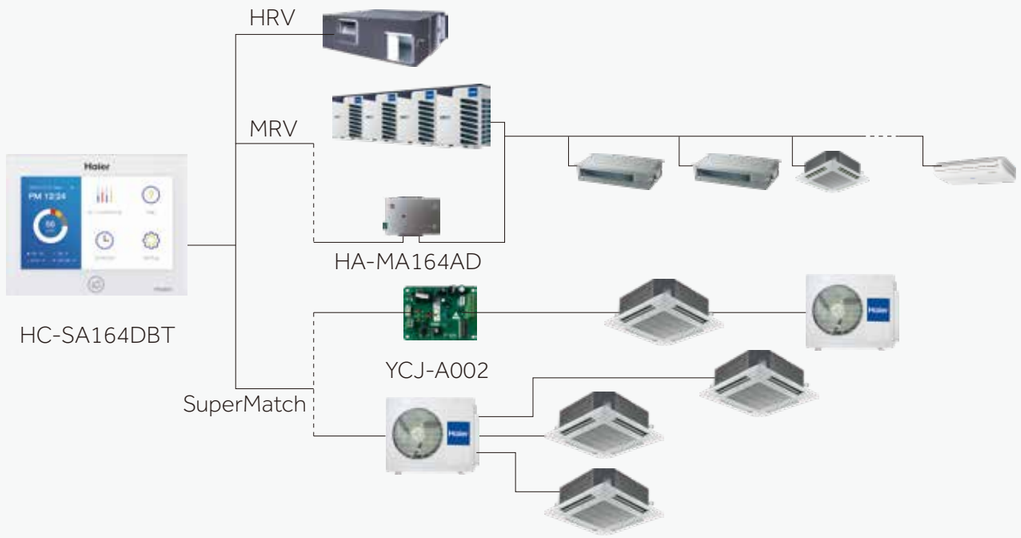
Display the detailed information check the name, number, temperature, running time and fault code



Interface display mode choice: list or icon all On, all Off, control all, control select

Setting password according to user demand

HC-SA164DBT system

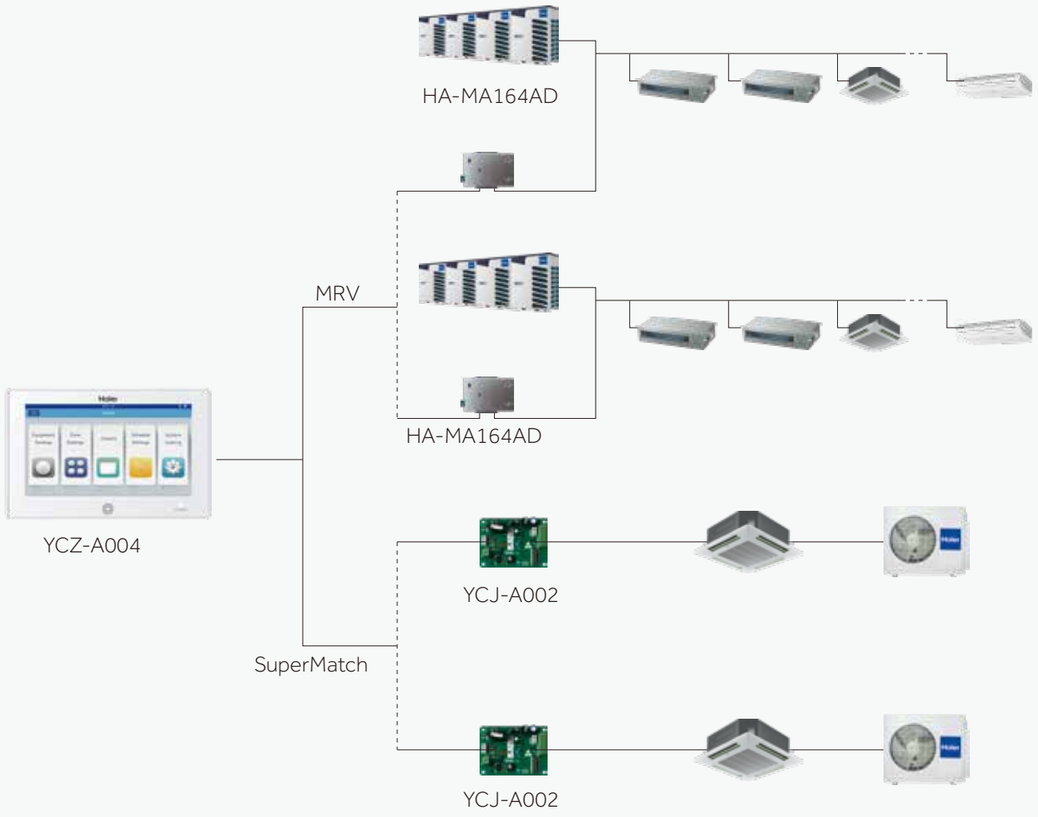


Centralized Controller

YCZ-A004

•Individual control, group control & central control (Max. 256 indoor units)
•7-inch TFT LCD touch screen with back light
•Weekly timer
•Indoor units' information editable
•Error display
•Other MRV system requires HA-MA164AD

YCZ-A004 system

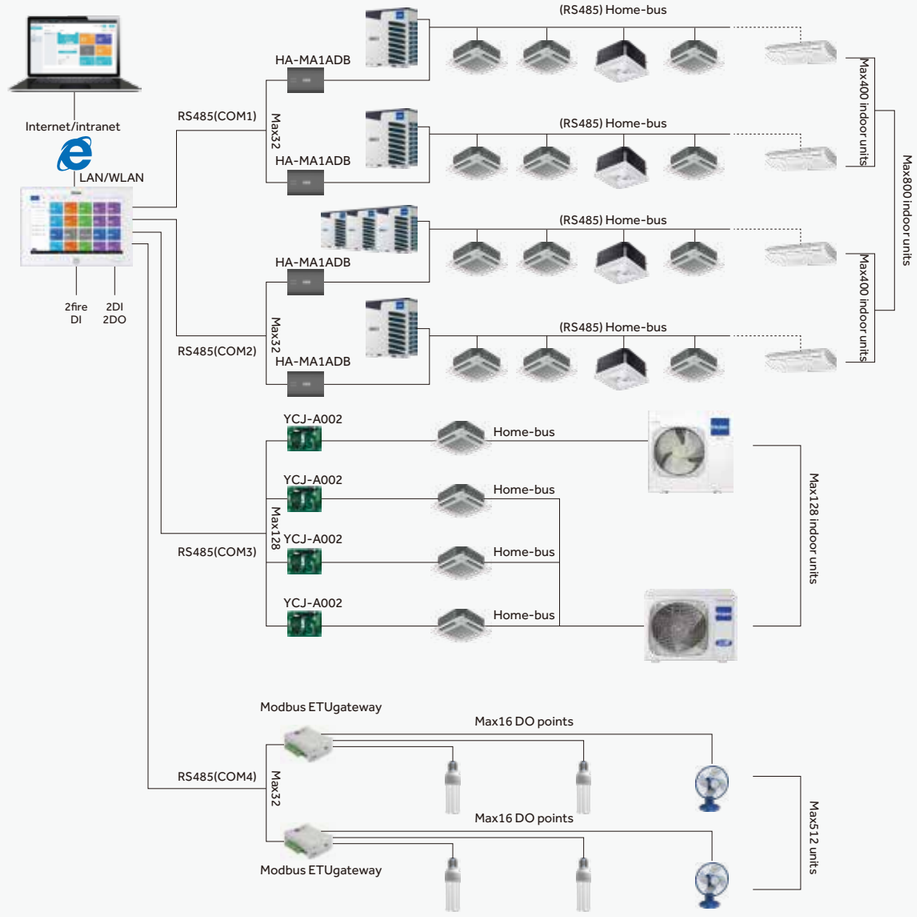


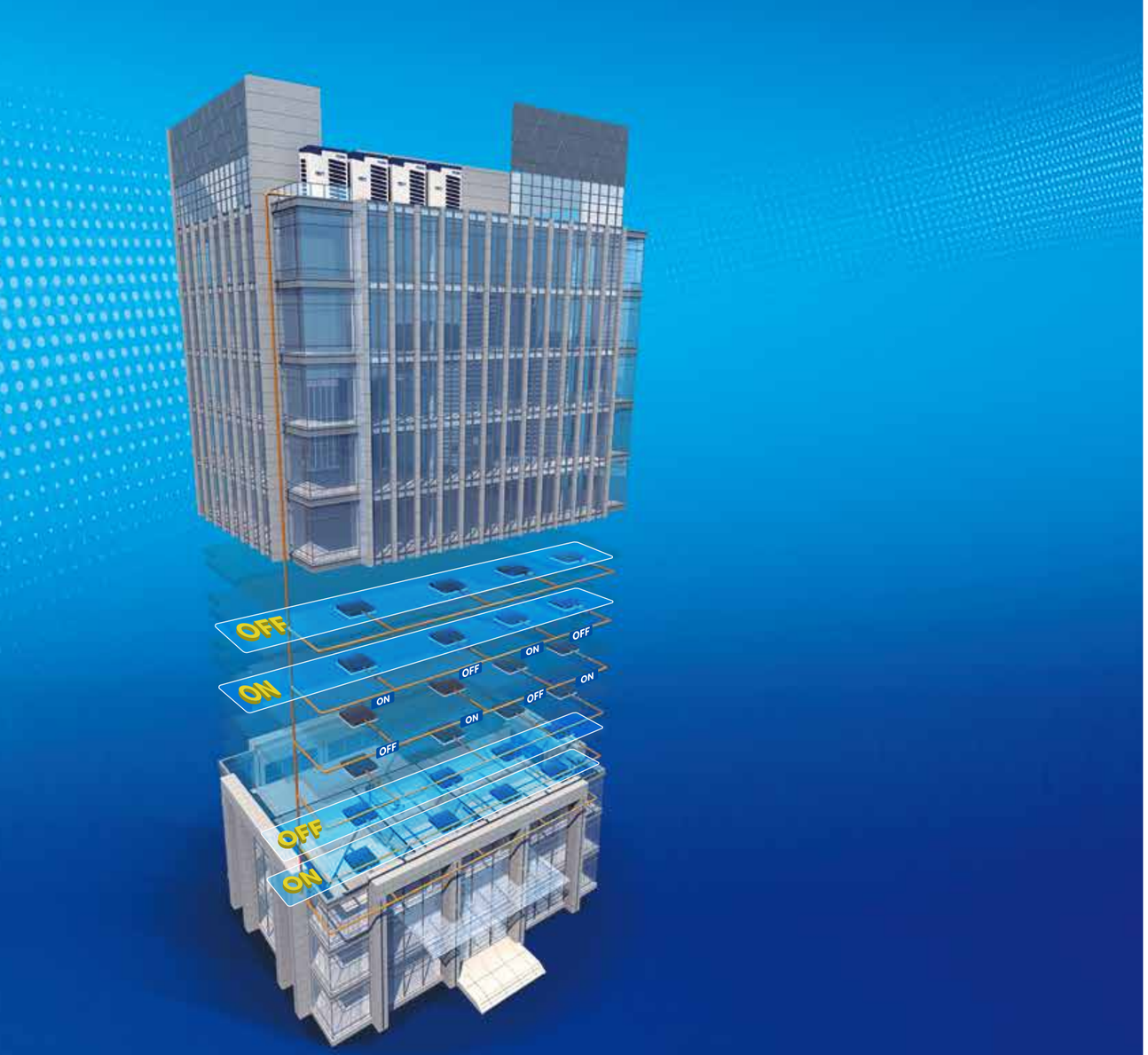
Centralized Controller

HC-LA1CDBT

•12.5-inch TFT LCD touch screen
•Max. 800 MRV indoor units and Max. 128 LCAC IDUs connectable for one controller totally 928 IDUS connectable
•Floor plan layout view
•Web access and email alarm
•Weekly schedule and special day setting
•Integrate 3rd party devices like fire alarm, lighting with Haier indoor units
•All MRV system requires the new gateway HA-MA1ADB(one system requires one gateway)
•LCAC products requires PCB adapter YCJ-A002(One IDU requires one YCJ-A002)
•Total electricity consumption display
•Data curve
•Electricity consumption distribution for tenant billing
•Multi language

HC-LA1CDBT system





BMS Solution

The building management modules could perfectly integrate air conditioners into the building management system, providing an excellent solution for large commercial areas.

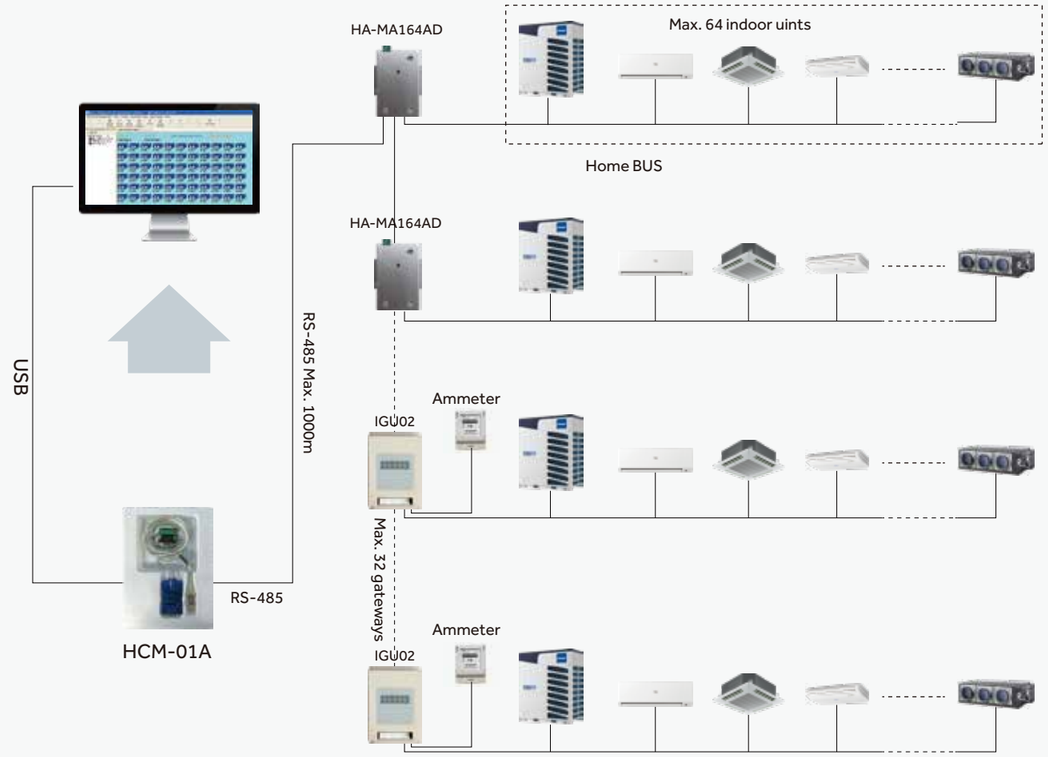
Haier BMS monitor system is used to meet the demands of remote monitoring and controlling the AC systems, 3rd party BMS or BAS interface and electricity distribution management i.g the tenant billing.

BMS BMS Monitor

HCM-01A

- Local control version; convert USB to RS-485
- Max. 400 indoor units can be controlled
- Modbus rtu interface
- Brand new interface design
- Win 7 32bits/64bits, Win 8 Pro, Win 10 Pro
- Max.32 systems connectable
- MRV 5 system and upgraded MRV SII(8/10/12HP) outdoor units can directly connect with HCM-01A
- Other MRV system outdoor units require HA-MA164AD
- Electricity charge report (must use IGU02)

HCM-01A system



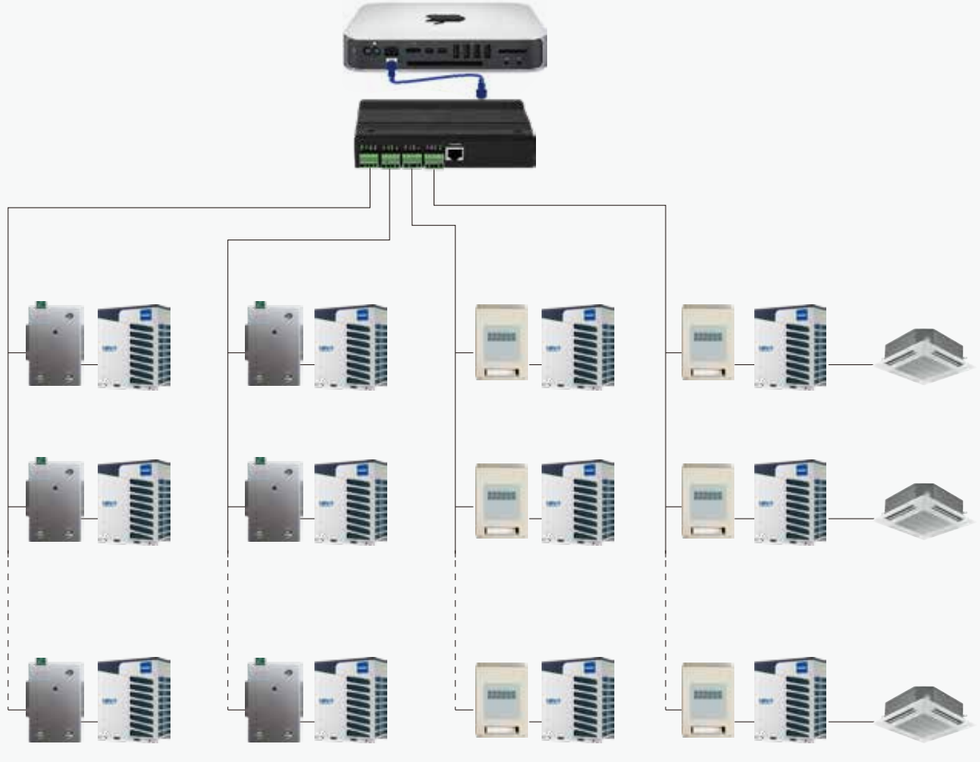
*Each outdoor system requires one HA-MA164AD; For power consumption function, users should connect IGU02 and ammeter.

BMS BMS Monitor

HCM-03A

•Remote monitoring version; third party interface: BACnet ip/ modbus ip
•Max. 1500 indoor units can be controlled
•Max. 4 groups. Each group can connect 20 systems
•Other MRV system outdoor units require HA-MA164AD
•Operation status setting & monitoring
•Schedule setting
•Multi user management with different authorized levels
•Operation and error history log
•Electricity charge report (must use IGU02)
•MRV 5 system and upgraded MRV SII(8/10/12HP) outdoor units can directly connect with HCM-03A

HCM-03A system

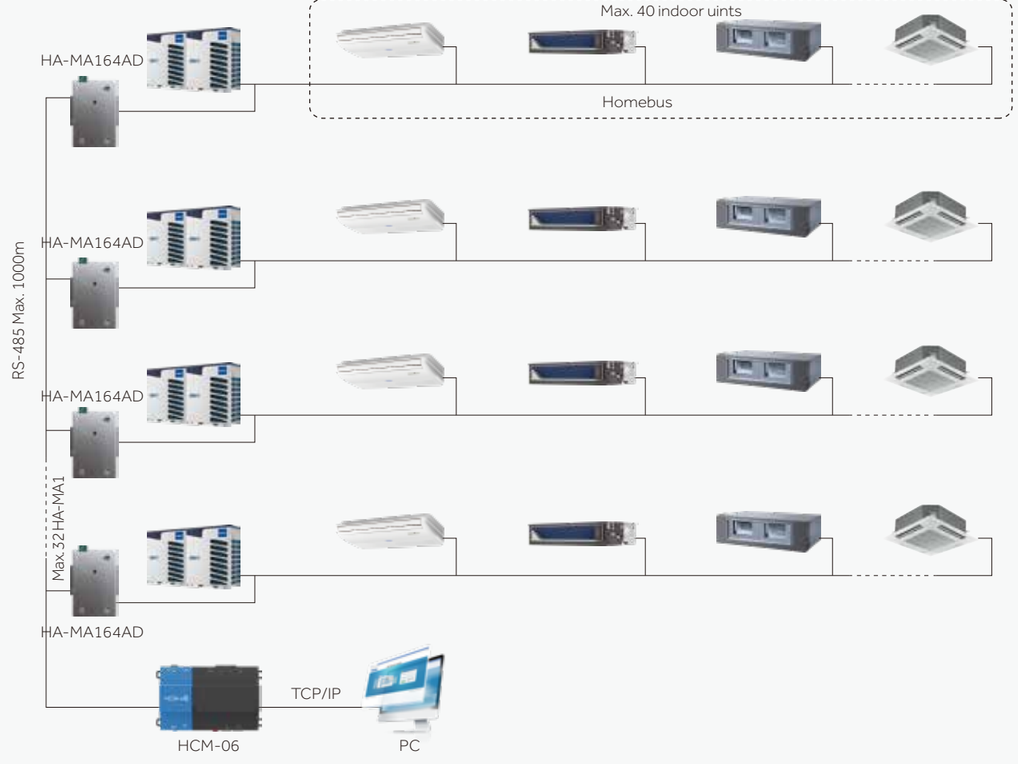


BMS BMS Monitor

HCM-06

•Remote monitoring version
•Third party interface: BACnet ip
•Max. 250 indoor units can be controlled for HCM-06
•Max. 32 systems for HCM-06. each system requires one IGU02/HA-MA164AD
•Operation status setting & monitoring
•Schedule setting
•Multi user management with different authorized levels
•Electricity charge report (must use IGU02)
•Operation and error history log
•Cooperated technology with honeywell

HCM-06 system



BMS interface

The adapters offer you an easy and convenient way to integrate air conditioners into various building management system; perfect for large commercial projects.

Haier BMS interface devices are used to connect the 3rd party BMS or BAS system, including the modbus interface, BACnet interface and lonworks interface, etc.

BMS BMS Interface

HA-MA164AD

- Protocol adapter, convert homebus to modbus
- Gateway: modbus rtu
- Max. 64 indoor units can be connected with one HA-MA164AD
- MRV 5 system and upgraded MRV SII (8/10/12HP) outdoor units can directly connect with central controller HC-SA164AD and YCZ-A004 or BMS monitor: HCM-01A and HCM-03A
- Other MRV system outdoor units require HA-MA164AD

HA-MA1ADB

- Interface: modbus
- Match with 12.5-inch webserver central controller HC-LA1CDBT
- Max. 128 indoor units connectable
- Digital tube display Indoor quantity, gateway address, time and date
- Electricity data collection, calculation, distribution and storage

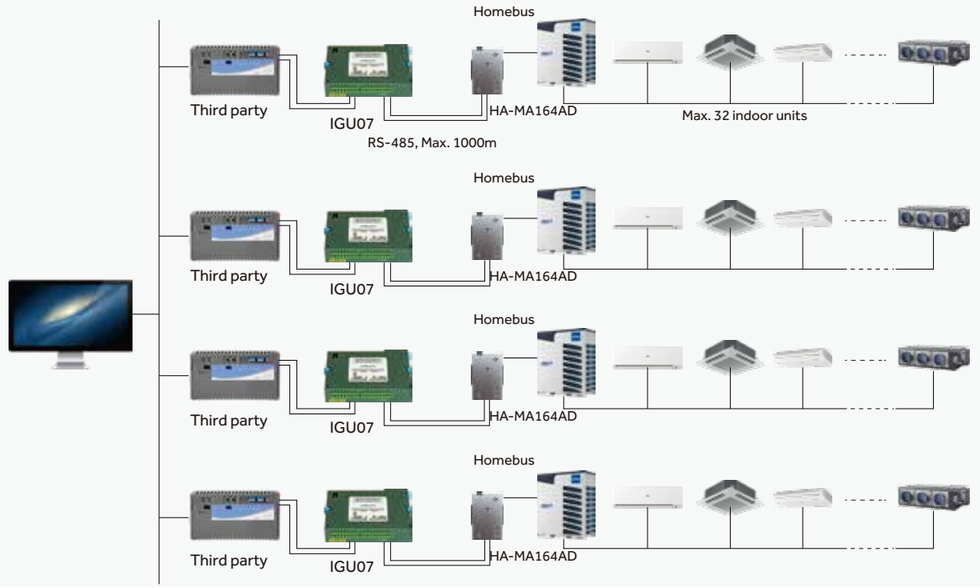
IGU02

- Protocol adapter, convert homebus to modbus
- Electricity data collection, calculation, allocation and storage
- Match with BMS (HCM-01A,03A,05,05A). each system requires one IGU02
- Max.40 indoor units can be connected with one IGU02

IGU07

- Protocol adapter, convert modbus rtu to lonworks
- Each system requires one IGU07+ HA-MA164AD
- Max. 32 indoor units can be connected in one system
- External 24V DC power supply is needed

LonWorks system



BMS Interface

HCM-04

•BACnet gateway, convert modbus rtu to BACnet ip
•Max.128 indoor units/ 4 systems can be controlled. Max. 32 indoor units for one system
•MRV 5 and upgraded MRV SI I (8/10/12HP) can connect directly with HCM-04.
•Other MRV systems require IGU02 or HA-MA164AD
•BTL certificate

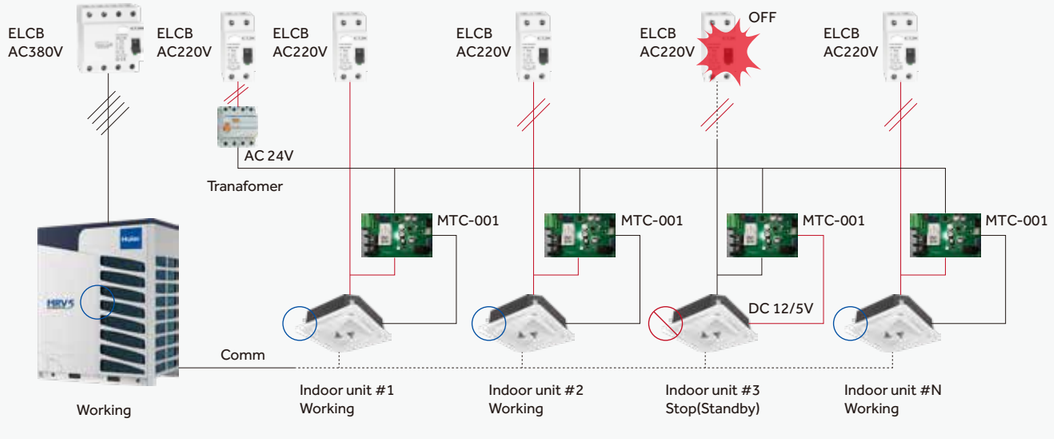
HA-AC-KNX-8 / HA-AC-KNX-16 / HA-AC-KNX-64

•KNX gateway
•Convert modbus to KNX
•Max. 8/ 16/ 64 indoor units can be connected in one system
•MRV 5 and upgraded MRV SI I (8/10/12HP) can connect directly
•Other MRV systems require HA-MA164AD
*For the KNX gateway purchase, please contact the KNX manufacture Intesis directly

Multi Tenant Solution

MTC-001

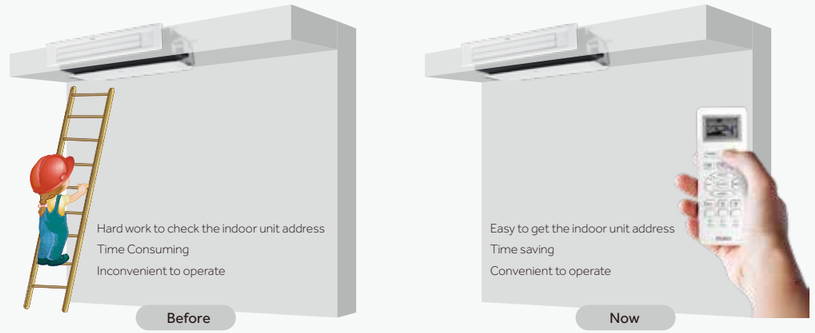
Application Scenario:
•a. The multi tenant site using separate circuit breaker for each indoor unit
•b. The hotel room using key-tag system which cuts off the power of indoor unit directly
•When it is detected that any connected indoor unit is forcibly cut off, the MTC-001 provides DC power to the indoor PCB to ensure that the indoor unit maintains standby mode: the EEV is turned off and the control signal is blocked to prevent the system from alarming
•Note: If there is power or communication failure in the indoor computer board, MTC-001 cannot be prevented and detected



Service Tool

Address setting and checking tool YR-NS

•On/Off, mode, fan speed, temperature setting, swing
•IDU address checking
•IDU address setting

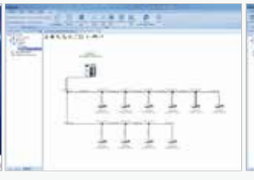


Haier HACS Selection Software -easy to Design and Customization

Haier HACS selection software supports PC & APP, which means the reports and information on the phone and computer are synchronous.

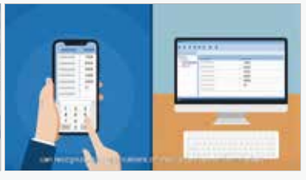
With the Haier MRV selection software, engineers and consultants can easily design, layout and prepare a full MRV system for quotation in a few steps. It selects the right models to meet your building load requirements and calculates the piping schematic automatically or manually, as well as the wiring. It’ s possible to import dwg or jpg drawings. The selection software guides you within design rules and offers a comprehensive system design report under pdf, word or excel format.

Launch Page



System Layout Page

System Configuration Page

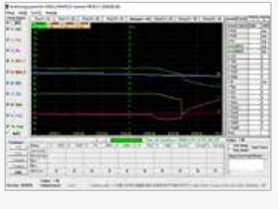


Synchronous Information on PC & APP

Service tool TD-03 with monitoring software

Installers can use TD-03 service tool together with monitoring software to realize real-time monitoring the operation data of VRF system through the PC. The running data and parameters can be used to analyze the error for fast troubleshooting. Also you can save the data for further analysis.

TD-03



Controllers Match Table For MRV Indoor Units

Outlook	Series	Model	YR-HRS01	YR-HQS01	HW-BA116ABK	HW-BA101ABT	HW-SA201ABK	HW-PA201ABK
	1-way Cassette	AB**2MAERA	•	•	•	•	•	•
	2-way Cassette	AB**2MBERA	•	•	•	•	•	•
	Compact Cassette	AB**2MCERA(M)	•	•			•	•
	Round Way Cassette	AB**2MRERA	•	•			•	•
	4-way Cassette	AB**2MCERA	•	•	•	•	•	•
	Convertible	AC**2MDERA	•	•			•	•
	Slim Duct (0/15/30Pa) (Air Guard)	AD**2MSERA(H)	•			•	•	•
	Slim Duct (0/15/30Pa)	AD**2MSERA(D)	•			•	•	•
	Slim Duct (0/30Pa)	AD**2MSERA	•		•	•	•	•
	High ESP Duct (20/200Pa) (Air Guard)	AD**2MJERA(H)	•		•	•	•	•
	Medium ESP Duct (50/100 Pa)	AD**2MJERA AD**2MJERAB AD**2MJERAC	•	•	•	•	•	•
	High ESP Duct (20/200Pa)	AD**2MJERAD	•		•	•	•	•
	High ESP Duct (100-250Pa)	AD**2MGERA						•
	High ESP Duct (0-300Pa)	AD**2MTERAD		•			•	
	High Wall (N platfomr)	AS**2MFERA(B) AS**2MVERAC	•	•	•	•	•	•
	High Wall (N platform)	AS**2MFERA AS**2MFERAC	•	•	•	•	•	•
	Console	AF**2MBERA	•	•			•	•
	Built-in Floor Standing	AE**2MLERA	•	•	•	•	•	•
	Fresh Air Duct	AD482MJERF AD722MTERF AD962MTERF			•	•	•	•

●Controllers can match with the indoor unit

Accessories

Name	Design	Model	Functions	For what units
Gather pipe		HZG-20A	Refrigerant gathering for MRV III, MRV III-PLUS	2 outdoor units
Gather pipe		HZG-30A	Refrigerant gathering for MRV III, MRV III-PLUS	3 outdoor units
Gather pipe		HZG-20B	Refrigerant gathering for MRV IV, MRV 5	2 outdoor units
Gather pipe		HZG-30B	Refrigerant gathering for MRV IV, MRV 5	3 outdoor units
Gather pipe		HZG-R20A	Refrigerant gathering for MRV III-RC	2 outdoor units
Gather pipe		HZG-R30A	Refrigerant gathering for MRV III-RC	3 outdoor units
Gather pipe		HZG-R20B	Refrigerant gathering for MRV 5-RC	2 outdoor units
Gather pipe		HZG-R30B	Refrigerant gathering for MRV 5-RC	3 outdoor units
Gather pipe		HZG-R40B	Refrigerant gathering for MRV 5-RC	4 outdoor units
Manifold pipe		FQG-B335A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 33,500W
Manifold pipe		FQG-B506A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 50,600W, but equal or bigger than 33,500W
Manifold pipe		FQG-B730A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 73,000W, but equal or bigger than 50,600W
Manifold pipe		FQG-B1350A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 135,000W, but equal or bigger than 73,000W
Manifold pipe		FQG-R335A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 33,500W
Manifold pipe		FQG-R506A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 50,600W, but equal or bigger than 33,500W
Manifold pipe		FQG-R730A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 73,000W, but equal or bigger than 50,600W
Manifold pipe		FQG-R1350A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 135,000W, but equal or bigger than 73,000W
Manifold pipe		FQG-B2040A	Refrigerant distribution for heat pump	Total indoor capacity less than 204,000W but equal or bigger than 135,000W
Manifold pipe		FQG-R2040A	Refrigerant distribution for heat recover	Total indoor capacity less than 204,000W but equal or bigger than 135,000W
VP box		VP1-112A, VP1-180A VP1-280A	Vavle pipe box	MRV III-RC(heat recovery)
VP box		VP4-450A	Vavle pipe box	MRV III-RC(heat recovery)
VP box		VP1-112C, VP1-180C VP1-280C	Vavle pipe box	MRV 5-RC(heat recovery)
VP box		VP4-450C	Vavle pipe box	MRV 5-RC(heat recovery)

REFERENCE PROJECTS

Reference Projects

Country: **Albania**
Project Name: **Studioluce, Tirana**
Equipment Installed: **MRV5**





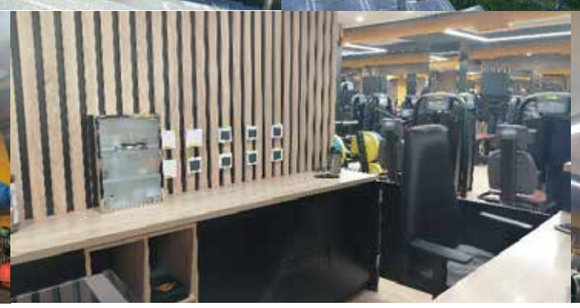

Country: **Albania**
Project Name: **EU4 Schools, Sukth**
Equipment Installed: **MRV5**




Country: **Albania**
Project Name: **Hilal Palce(Bar and Restaurant), Golem**
Equipment Installed: **MRV5**



Country: **Albania**
Project Name: **Urban Fit, Tirana**
Equipment Installed: **MRV5**


Reference Projects

Country: **Australia**
Project Name: **Queensland Toondah**
Equipment Installed: **MRV S + Hydro Box**



Country: **Australia**
Project Name: **Hilton Hotel in New Caledonia**
Equipment Installed: **MRV5**




Country: **Czech Republic**
Project Name: **Prague Main Railway Station**
Equipment Installed: **MRV 5**





Country: **Czech Republic**
Project Name: **Mountfiled Shop**
Equipment Installed: **MRV 5+MRV S**




Reference Projects

Country: **Czech Republic**
Project Name: **Outlet Arena Moravia**
Equipment Installed: **MRV-S + MRV5**




Country: **Czech Republic**
Project Name: **Renta Tábor**
Equipment Installed: **MRV 5**




Country: **Czech Republic**
Project Name: **Pragolaktos**
Equipment Installed: **MRV-S + MRV5**




Country: **Czech Republic**
Project Name: **DEK Stavebniny**
Equipment Installed:**MRV-S**




Reference Projects

Country: **Italy**
Project Name: **Shoes Manufacturing Industry in Fossò (Venice)**
Equipment Installed:**MRV 5**

Country: **Italy**
Project Name: **Audi Shop**
Equipment Installed: **MRV 5+MRV S**

Country: **Italy**
Project Name: **Ca 'Foscari University**
Equipment Installed: **MRV 5**

Country: **India**
Project Name: **Enrise Sayaji Hotels**
Equipment Installed: **MRV 5+ Light Commercial**

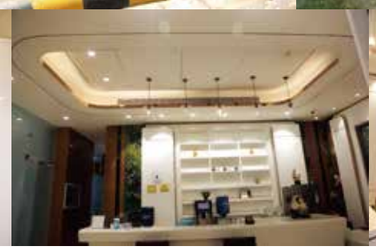
Reference Projects

Country: **India**
Project Name: **Saveetha Engg. College**
Equipment Installed: **MRV 5**





Country: **India**
Project Name: **Sky Mansion (Sample)**
Equipment Installed: **MRV 5**


Country: **Israel**
Project Name: **Acro Real Estate High-end Residential Project**
Equipment Installed: **MRV SII**





Country: **Malta**
Project Name: **St. Vincent de Paul Residence**
Equipment Installed: **MRV IV+MRV S**





Reference Projects

Country: **Pakistan**
Project Name: **Meezan Bank Head Office**
Equipment Installed: **MRV 5**



Country: **Pakistan**
Project Name: **Interloop HD-2**
Equipment Installed: **MRV 5**



Country: **Pakistan**
Project Name: **Chase Value Centre**
Equipment Installed: **MRV 5**


Country: **Pakistan**
Project Name: **Ramada Hotel**
Equipment Installed: **MRV 5**




Reference Projects

Country: **Pakistan**
Project Name: **Integrated Medical Care (IMC) Hospital**
Equipment Installed: **MRV 5**

Country: **Pakistan**
Project Name: **Dr. Ziauddin Hospital**
Equipment Installed: **MRV 5**

Country: **Pakistan**
Project Name: **Nagina Head Office's HVAC Project**
Equipment Installed: **MRV 5**

Country: **Pakistan**
Project Name: **Cybernet Pakistan**
Equipment Installed: **MRV 5**

Reference Projects

Country: **Slovenia**
Project Name: **Residential Building**
Equipment Installed: **MRV 5**


Country: **Slovenia**
Project Name: **Business Zone**
Equipment Installed: **MRV5-H**



Country: **Switzerland**
Project Name: **McDonald's restaurant**
Equipment Installed: **MRV 5-H**




Country: **Spain**
Project Name: **Sports Hall in Bollullos de la Mitación(club)**
Equipment Installed: **MRV 5**





Reference Projects

Country: **Spain**
Project Name: **Guardería Hospital Niño Jesús**
Equipment Installed: **MRV-S**

Country: **Spain**
Project Name: **Facultad de Turismo de Murcia**
Equipment Installed: **MRV 5**

Country: **Spain**
Project Name: **B&B Hotel**
Equipment Installed: **MRV 5+MRV S**

Country: **Spain**
Project Name: **Kiwoko**
Equipment Installed: **MRV 5**

Reference Projects

Country: **Spain**
Project Name: **Faculty of Statistical Sciences**
Equipment Installed: **MRV S**




Country: **Thailand**
Project Name: **Histar Technology (Thailand) Renovation Project**
Equipment Installed: **MRV 5**




Country: **Thailand**
Project Name: **Siamgrand Hotel**
Equipment Installed: **MRV 5**




Country: **Thailand**
Project Name:**Paolo Hospital**
Equipment Installed: **MRV 5**



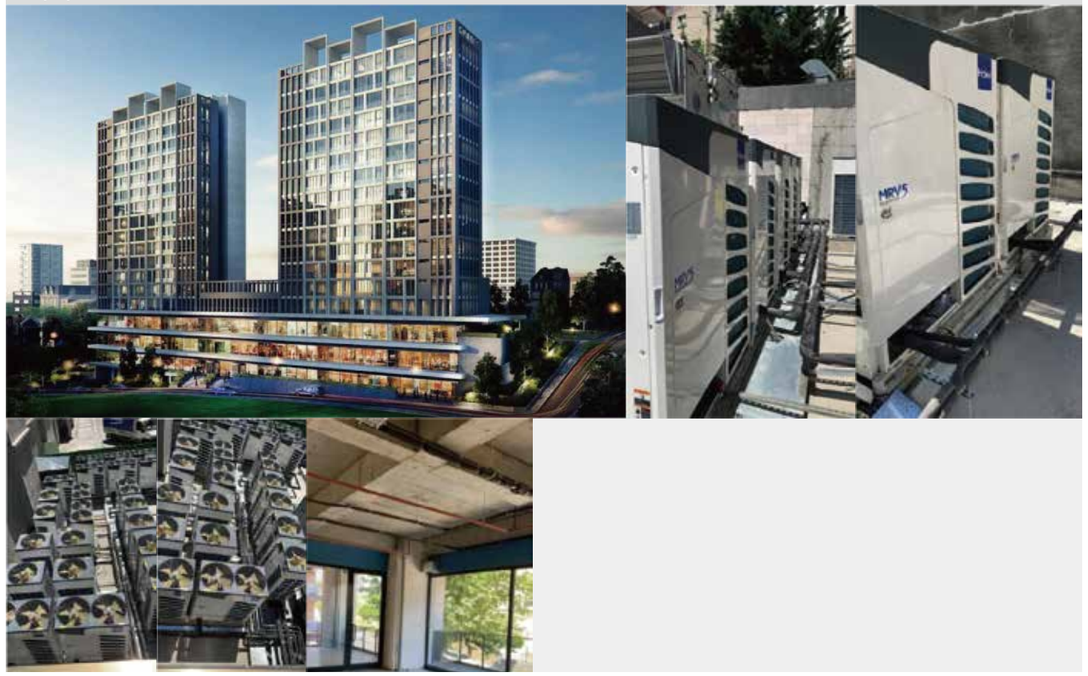
Reference Projects

Country: **Turkey**
Project Name: **Caspian Shopping Center**
Equipment Installed: **MRV 5**

Country: **Thailand**
Project Name: **Sukhumvit Hotel**
Equipment Installed: **MRV 5, MRV S**

Country: **Thailand**
Project Name:**Mukdaharn Hospital**
Equipment Installed: **MRV5**

Country: **Turkey**
Project Name: **Caspian Shopping Center**
Equipment Installed: **MRV 5**



Reference Projects

Country: **United States (Austin)**
Project Name: **Fairfield Inn Hotel**
Equipment Installed: **MRV 5**

Country: **United States (Austin)**
Project Name: **Elementary School**
Equipment Installed: **MRV 5**

Country: **United States (Austin)**
Project Name:**Office Building**
Equipment Installed: **MRV5**

Country: **Ukraine**
Project Name: **IT-Center**
Equipment Installed: **MRV 5**

Date / /