Haier Commercial Air Conditioning

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Sep.2015 Version 1.0

Haier

2016 General Catalogue

MRV 50/60Hz R410a

Haier

MRV 50/60Hz R410a

2016 General Catalogue

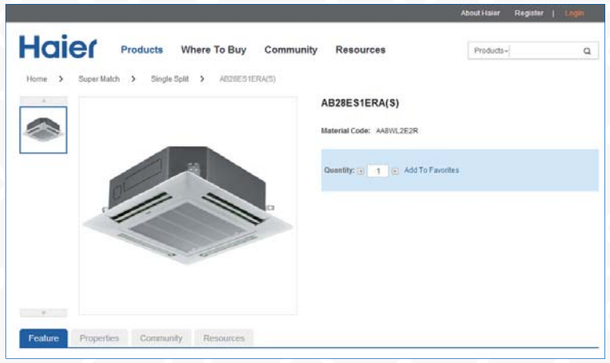
Haier Commercial Air Conditioning

2016

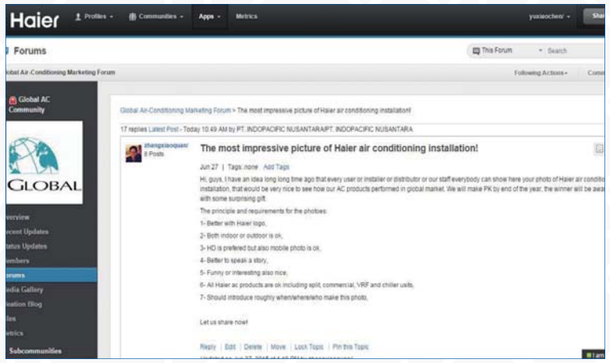
Haier B2B Platform

The Haier Air-conditioning dealer portal (www.haierac.com) is a platform to help Haier distributors, installer and professional personnels better understand and make business with Haier globally.

The portal becomes the official new product release channel, offering the latest materials of Haier A/C products with high resolution pictures, project reference to help our business partners understand how our solutions help the end users globally.



This platform offers an opportunity for our business partners to share projects, applications and other exciting stories with Haier.



This platform offers a community environment for our business partner to attain valuable resources, including catalogue, brochures, leaflat and other marketing documents. Moreover, the platform is a convenient place where all business partners can communicate with Haier directly.

http://www.haierac.com

Haier Brand Story

The Internet era is a diverse and unconventional time, where “one size fits all” products and solutions simply aren’ t enough. Customers want to be treated as individuals and respected for who they are.
Everyone wants their unique lifestyle acknowledged. That is why Haier listens closely to you in order to gain a genuine understanding of what is going on in your life and what is on your mind. So each of you can get the smart home experience you deserve: be it simple, sophisticated, organized or enjoyable.
As a worldwide industry leader, Haier innovates beyond products and solutions and turns the organization into a wholly connected platform. In doing so, internal and external resources are connected quickly and easily. We believe only by doing so, we can best meet our consumers’ expectations in this rapidly evolving world.
Be part of the Haier Network. Create new possibilities.

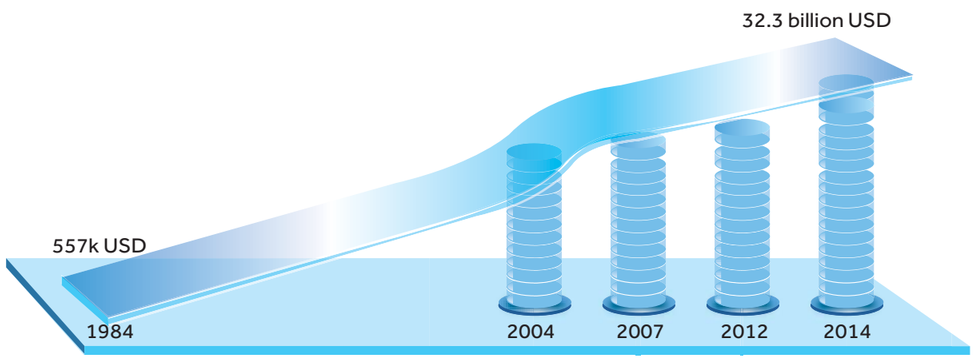
Haier Global Network

Haier has built up its infrastructures globally to meet the customers' quick evolving demands, including R&D centers, production facilities, trading companies and sales networks etc.
Haier's five R&D centers around the world have forged strategic partnerships with first-class suppliers, research institutions, and prestigious universities to create an innovative ecosystem composed of internal and external scientists and engineers connected by virtual and physical networks.

Worldwide Network	Overseas	Global
Trading Company	24	66
R&D Center	4	5
Manufactory	24	24
Industry Park	7	21
Sales Network	37.683	143.330

Haier Global Revenue

Haier is the #1 brand of Major Appliance in the world, with its global revenue reaching 32.3 billion USD in 2014.



Haier AC Milestones

- 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.

Brief of R&D Center

Setting New Standards: Haier's new state of the art HVAC R&D Center commences operation in March, 2014

Driving across the world's longest bridge into the beautiful coastal city of Qingdao and taking the off-ramp to the massive Haier Industrial Park, you will find the world's most advanced HVAC R&D center and its adjacent height drop testing facility towering over other buildings in the park. The commencement of the R&D center puts Haier in the leadership position to provide the best HVAC product solutions suitable for different climates and environments around the globe.

Entering the lobby you will be awed by the installation and display of Haier's world leading magnetic bearing oil free centrifugal chiller that cools the building. Also in display are Haier's latest innovation of residential and commercial products and BMS control solutions.

The 6 story buildng houses 1,000 plus experienced engineers and technicians, and is equipped with 120 test labs. From psychrometric labs that accurately measure product capacity and efficiency to acoustic labs that reduces sound level; from environment simulators to sustainability test labs that ensure product reliability under the harshest ambient conditions, Haier engineers work hand in hand with international team of experts to turn out green and user friendly climate control solutions.

The height drop test tower, standing 106 meters tall, is the tallest test tower of its kind. It allows Haier's latest MRV products to test under all kinds of installation scenarios.

The stage is set, and Haier is ever more ready to provide global customers with world class products. The new R&D Center is the testament of Haier's commitment and vision in being the leading player in the global HVAC industry.

Global Manufacturing Capacity

Domestically, Haier AC is running 9 factories, 1 of which is MHAQ, a JV between Haier and Mitsubishi Heavy. In overseas markets, Haier is running 7 manufacturing plants.
With all these factories, Haier AC has a product capacity amounts to 20.1 million sets per year.

2016 NEW PRODUCT

NEW

MRV IV (T3)

•Single Module: 8/10/12/14HP, 16/18/20HP
•Combination Module: 22-60HP, 3 modules
•Full DC INVERTER technology
•Max.1000m total pipe length, Max.110m height drop
•Compatible with all the MRV indoor units
•High Ambient Temp. Operation up to 52°C

8/10/12/14HP 16/18/20HP 027

MRV S II

•New platform, new outlook.

•Full DC inverter technology, high efficiency

•Low sound level, high comfort.

•High convenience.

4/5/6HP 075

MRV III-RC(208~230V/3Ph/60Hz)

•Power Supply: 3/208~230V/60Hz

•DC Inverter Scroll Compressor & BLDC Fan

•5 Basic Single Modular Units: 8/ 10/ 12/14/16HP

•Max. 3 Modules Combination up to 48HP

•Max Connected Indoor Units up to 64

•Compatible with all the MRV Indoor Units

8/10HP 12/14/16HP 061

MRV W (208~230V/3Ph/50(60)Hz)

•208~230V/3Ph/50(60)Hz

•Water Source MRV Outdoor Unit, Combine Water System and Refrigerant System in one System

•3 Basic Single Module:8/10/12HP, Max 3 Modules

•Combination up to 36HP

•Most Compact Size Outdoor Design in the Industry

•Total 300m Long Pipe Length, Easy for Installation

•Double Coil Outdoor Heat Exchanger

•Compatible with all the MRV Indoor Units

097

Round-way Smart Air Flow Cassette

•Unique Round-way air outlet, no blind spot
•Innovative 4 independent air flow control
•6 adjustable louver positions, 1296 air flow combinations
•Move Eye intelligent system, intelligence all around(optional)

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CONTENTS

MRV 50/60Hz R410a

HAIER MRV Milestone

Haier, as China's earliest VRF practitioners, has been always committed to the extreme pursuit to VRF system

2015

MRV S^{II}

New platform, new outlook

MRV IV-C (T3)

2014

MRV IV-C

Full DC inverter, Largest single module

2012

Full DC inverter Side discharge outdoor MRV S

Largest capacity of side discharge

2013

MRV III-RC

Heat recovery (3 pipe system)

2005

Modular combination MRV II

First pure DC inverter in China

Technology from Toshiba

2008

MRV III-C DC Inverter

23 Olympic reference projects in Beijing

MRV W

Water-cooled MRV

1996

Home VRF (Home MRV - First unit in China)

Haier first home inverter multi

1999

Commercial VRF (C-MRV)

First Modular VRF unit in China

1993

Haier

Joint Venture with MHI and enter into China commercial AC field

PRODUCT LINE-UP (Outdoor Units)

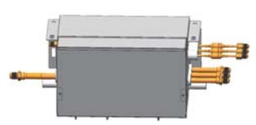
Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
MRV IV-C (T1)	3/380~400/50 3/380~400/60																																	
NEW MRV IV-C (T3)	3/380~400/50 3/380~400/60																																	

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
MRVIII-C (T1)	3/380~400/50 3/380~400/60																					
	3/208~230/60																					
	3/460/60																					
MRVIII-C (T3)	3/380~400/50 3/380~400/60																					
MRVIII-RC	3/380~400/50 3/380~400/60 3/208~230/60 NEW																					

PRODUCT LINE-UP (Outdoor Units)

Series	HP	3	4	5	6	7	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
MRV S[I]	1/220~230/50																										
	1/220~230/50/60																										
	3/380~400/50/60																										
NEW MRV S[II]	1/220~230/50/60																										
	3/380~400/50/60																										
MRV W	3/380~400/50 3/380~400/60 3/208~230/60 NEW																										

EASY MRV

MODEL	MS1-036A	MS1-060A	MS3-036A
Match with indoor	1 by 1	1 by 1	1 by 3
EASY MRV Connection Kit			
Capacity(Btu/h)	≤36K	36K<X≤60K	Every indoor capacity ≤36K
MRV series	MRV S, MRV III-C	MRV S, MRV III-C	MRV S, MRV III-C

DX AHU Connection Kit

MODEL	AH1-280A	AH1-560A
CAPACITY	14 ≤ x ≤28 kW	28 < x ≤56 kW
		
MRV series	MRV S(8/10/12HP), MRV III-C	MRV S(8/10/12HP), MRV III-C

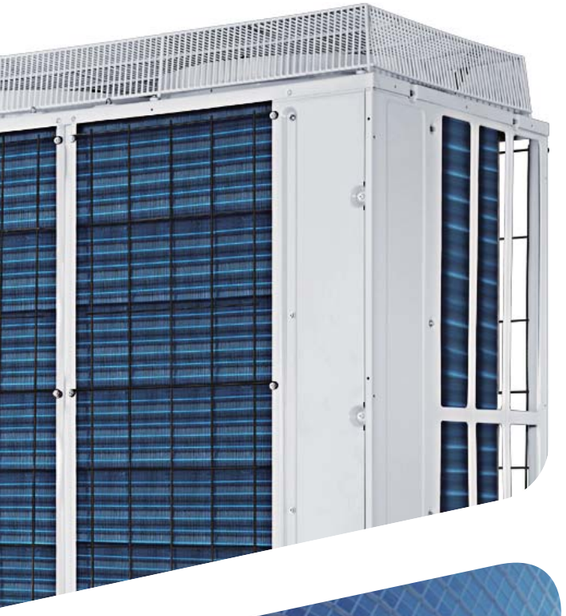
PRODUCT LINE-UP

Series	KBTU/h kW			7 2.2	9 2.8	12 3.6	16 4.5	18 5.6	24 7.1	28 8	30 9	38 11.2	48 14	60 16	72 22.6	96 28
AQUA Hi-Wall (Need match with EASY MRV connection Kit MS1-036A, MS3-036A)		AS**QS2HRA		●	●	●		●								
N F series (Need match with EASY MRV connection Kit MS1-036A, MS3-036A)		AS**NS1HRA		●	●	●		●	●							
N H series (Need match with EASY MRV connection Kit MS1-036A, MS3-036A)		AS**BS4HRA		●	●	●	●	●	●							
Zircon Hi-Wall (Need match with EASY MRV connection Kit MS1-036A, MS3-036A)		AS**ZB1ERA		●	●	●		●	●							
Console (Need match with EASY MRV connection Kit MS1-036A, MS3-036A)		AF*AS1ERA			●	●										
High wall EEV Inside		AS**2MSERA		●	●	●	●	●	●							
Console (EEV inside)		AF*MAERA		●	●	●		● (5.0)								
2 Way cassette		AB**2MBERA		●	●	●	●	●								
Cassette		AB**2MCERA			●	●	●	●	●	●	●	●	●			
NEW 360° Smart Air Flow Cassette		AB**2MRERA		●	●	●	●	●	●	●	●	●	●	●		

PRODUCT LINE-UP

Series	KBTU/h Kw			7 2.2	9 2.8	12 3.6	16 4.5	18 5.6	24 7.1	28 8	30 9	38 11.2	48 14	72 22.6	96 28
Convertible		AC**2MCERA AC**2MFERA			●	●	●	●	●	●	●	●	●		
Slim ESP duct(30Pa)		AD**2MSERA		●	●	●	●	●	●						
Low ESP duct(20Pa)		AD**2MLERA		●	●	●	●	●	●						
Middle ESP duct(50Pa)		AD**2MMERA						●	●	●	●	●	●		
Medium ESP duct (80Pa)		AD**2MNERA									●	●	●		
High ESP duct		AD**2MHERA						●	●	●	●	●	●	●	●
Builit-in floor standing		AE**2MLERA		●	●	●	●	●	●						
Fresh air duct		AD*MPERA											●	●	●
HRV (Heat Reclaim Ventalation) (ERV0150/0260/ 0800/1000ANN)		150m³/h 260m³/h		800m³/h 1000m³/h											

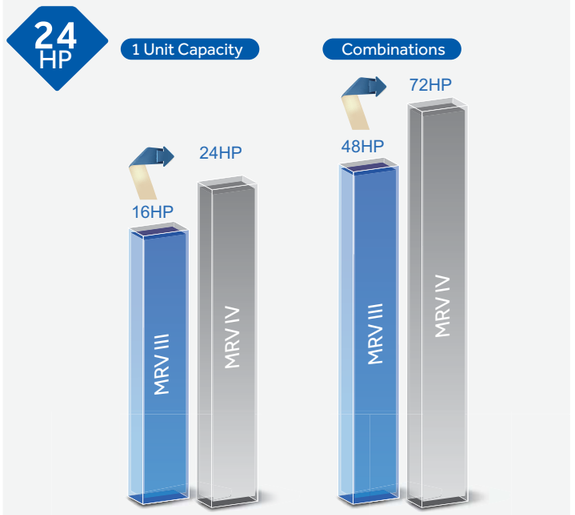
MRV IV-C



FEATURES & BENEFITS

MRV milestones & MRV IV line up

Largest capacity single module



Single module line-up

Capacity
8,10,12,14,16HP

Capacity
18,20,22,24HP

MRV milestones & MRV IV line up

Combination line-up

- Max 3 modules combination 72HP, every 2HP one model.
- Footprint of 72HP only 2.92m², 50% size reduced

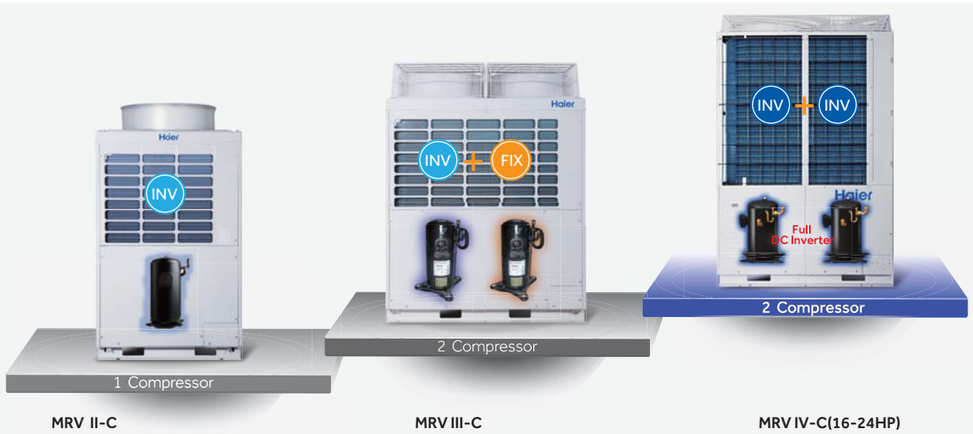
8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

FEATURES & BENEFITS

Full DC Inverter High Efficiency

1. Full DC Inverter technology
2. Key parts to support full DC inverter technology
3. High efficiency

Full DC inverter technology

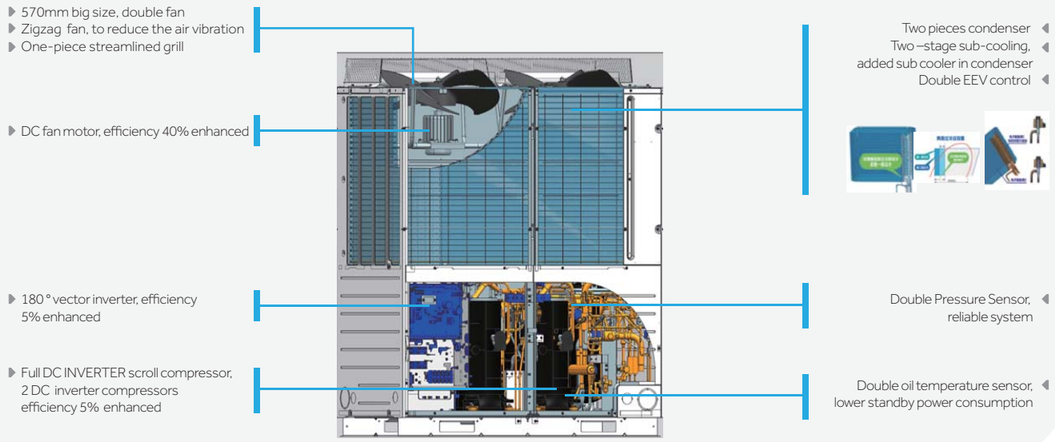


MRV II-C
- One Compressor
- DC INVERTER x 1

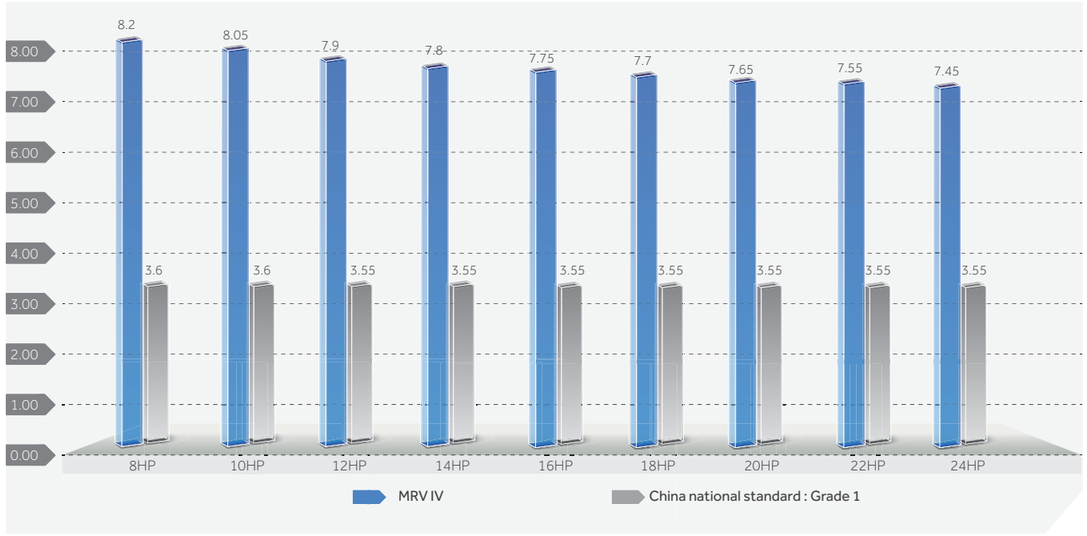
MRV III-C
- Two Compressor
- One DC INVERTER compressor + One Fixed Speed comp ressor

MRV IV-C(16-24HP)
- Two Compressor
- Full DC Inverter x 2

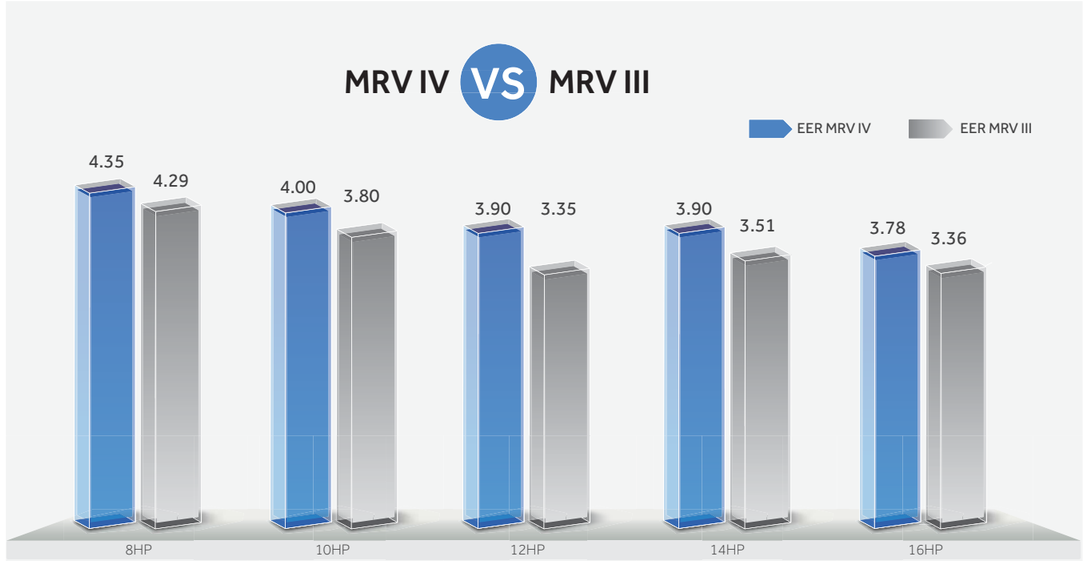
Full new outlook, full DC inverter technology key parts



IPLV(c) up to 8.2, average IPLV(c) up to 7.7, low running cost



Higher energy efficiency than MRV III

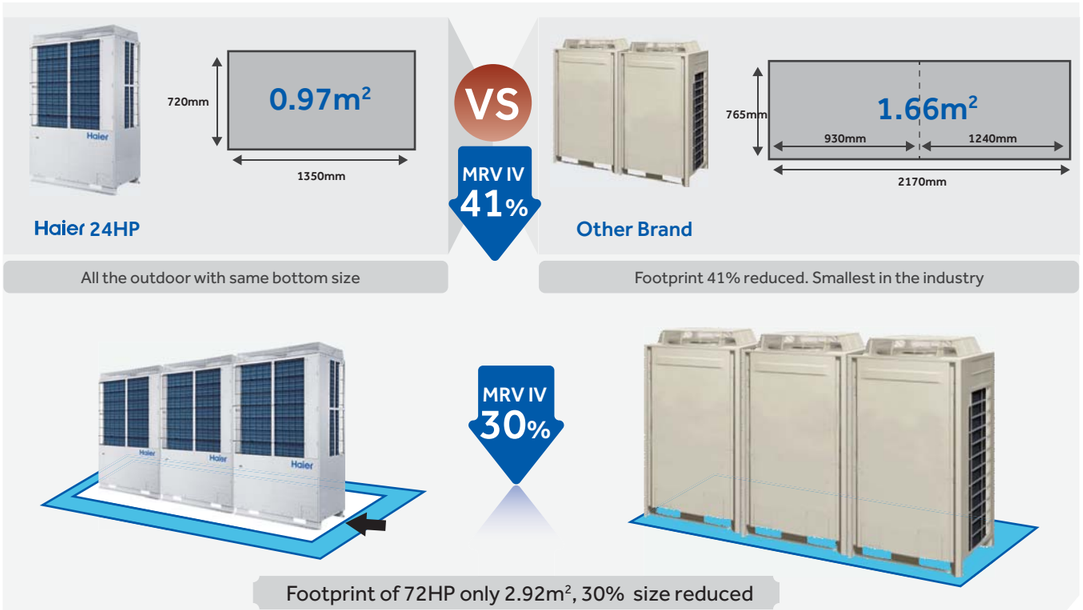


FEATURES & BENEFITS

Easy Installation

1. Largest capacity single module, smallest footprint
2. Long pipe length, high height drop
3. High outdoor ESP

Largest capacity single module in the industry: 24HP ,
Smallest footprint in the industry : 0.97m2



82Pa ESP, Long air duct connecting available

Long pipe length, high height drop

Max. pipe length **1000m**[*1] Standard 500m
Max. Single pipe length **165m** (equivalent pipe **190m**)
Max.Height drop between ID and OD **Max.110m/90m**[*2] Standard 50m/40m
Max height drop between ID **Max 30m**[*3] (Standard 18m)

*1 *2 *3 Need contact your local distributor/dealer for individual design.

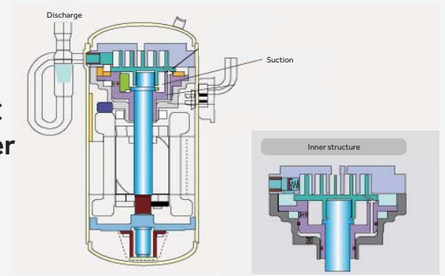
FEATURES & BENEFITS

Comfort

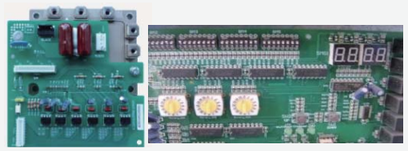
1. Wide operation range
2. Low noise, night silent running
3. Optimal temperature control

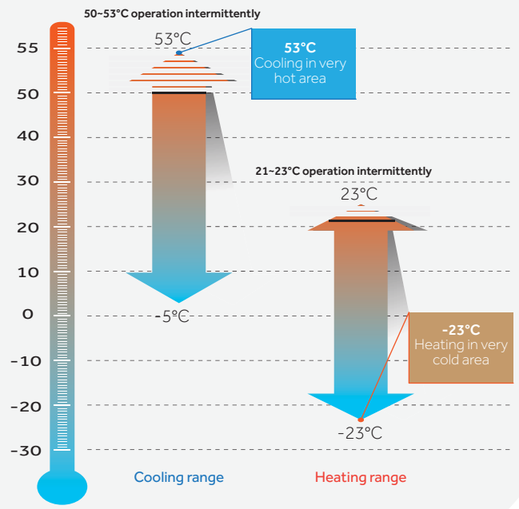
Wide operation range, -23°C heating, 53°C cooling

Full DC Inverter Comp.



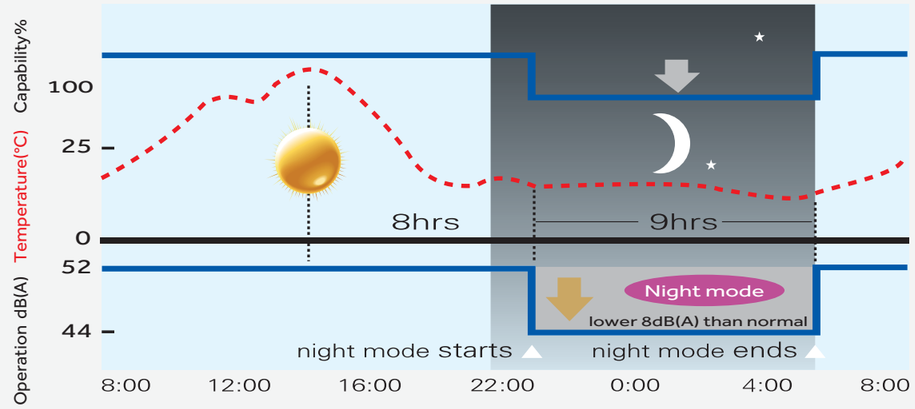
Precise control Tech.





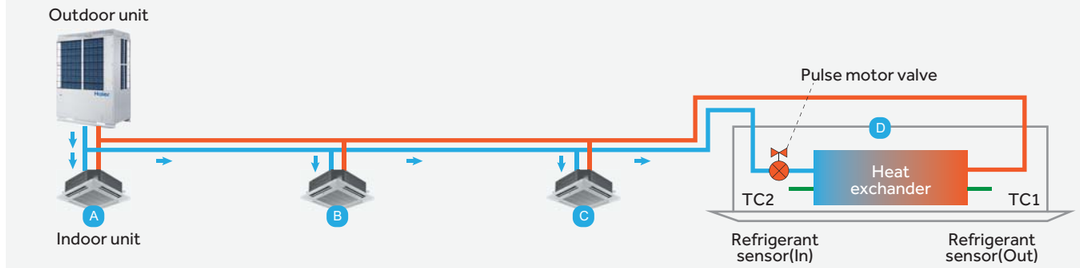
Low noise and night silent running

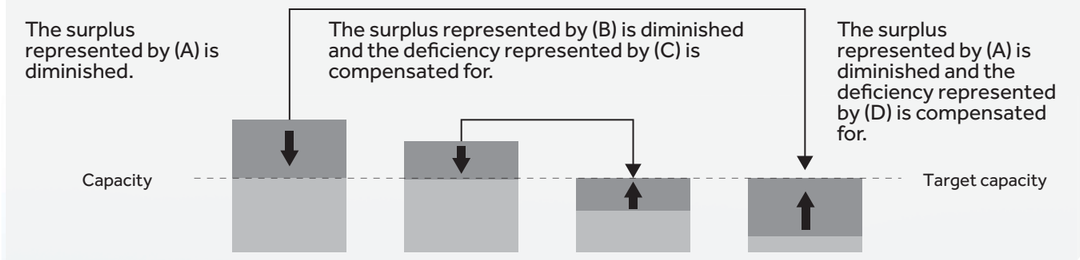
- 8dB/A noise will be reduced if night silent mode starts.



Optimal Temperature Control

- When a multiple number of indoor units are connected, an insufficient or excess amount of refrigerant may be supplied to indoor units depending on the difference in length of the piping connection from outdoor units
- Optimal refrigerant control uses the indoor coil temperature to detect the air conditioning status of each indoor unit and control the capacity(refrigerant amounts) very precisely





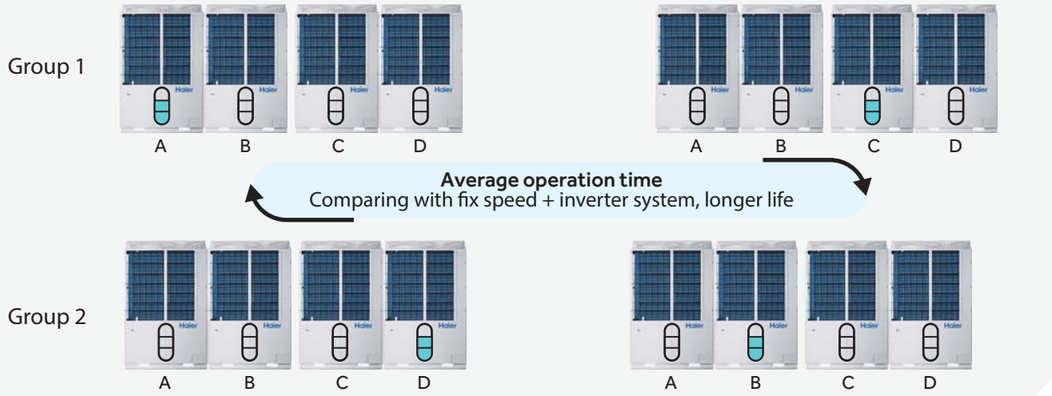
FEATURES & BENEFITS

High Reliability

1. Recycling operation
2. 2 stage oil return
3. Oil temperature sensor
4. Double Pressure sensor
5. Thunder Protection

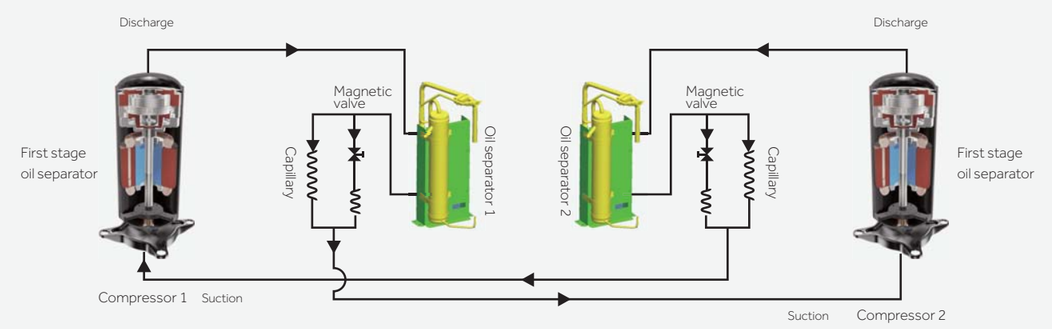
Recycling operation

Recycling operation, longer life of compressor



Oil Return

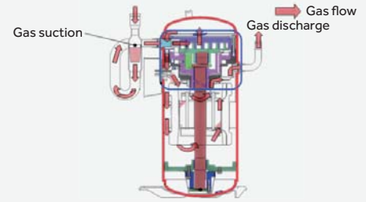
If the compressor operate at low frequency,oil return is only through the capillary. If the compressor operate at high frequency,oil return is through the capillary and magnetic valve.



Compressor double protection

Base on the basic gas discharge sensor, MRV IV add the oil temperature sensor at the bottom of compressor.

With the oil temperature sensor
- Control the on/off of heater of compressor, preventing from the liquid shock of compressor
- Judge if the liquid refrigerant enter into the compressor
- Compressor oil sub heating protection.
- High pressure sensor for every compressor so for the module with 2 compressors ,there are 2 high pressure sensors and 1 low pressure sensors, total 3 sensors



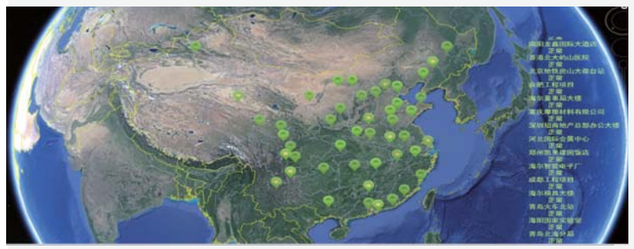
Thunder protection

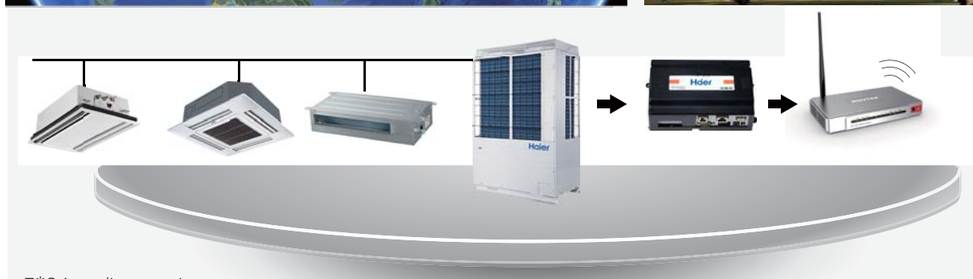
There are electricity discharge wire in the terminal block, to lead the abnormal voltage into the earth, then to prevent the thunder affect.

Cloud Service Platform

1. Cloud Service

Cloud Service





- 7*24 on-line service
- Intelligent service： failure remind, maintenance mind information
- Energy saving： real-time data saving, provide energy saving solution according to data analysis.

50/60Hz-380~400V-3Ph

8/10/12/14/16HP

18/20/22/24HP

- •Single Module: 8/10/12/14/16HP,18/20/22/24HP
- •Combination Module: 26-72HP, 2-3 modules
- •Full DC INVERTER technology
- •Max.1000m total pipe length, Max.110m height drop
- •Compatible with all the MRV indoor units.

Model			AV08NMMEUA	AV10NMMEUA	AV12NMMEUA	AV14NMMEUA	AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	AV22NMMEUA	AV24NMMEUA
Combination model			/	/	/	/	/	/	/	/	/
			/	/	/	/	/	/	/	/	/
			/	/	/	/	/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	14	16	18	20	22	24
	Cooling	kW	25.2	28	33.5	40	45	50.4	56	61.5	68
	Heating	kW	27.3	31.5	37.5	45	50	56.5	63	69	73
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling Rated power input	kW	5.79	7.00	8.59	10.26	11.90	13.62	15.56	17.57	19.71
	Max power input	kW	14.02	14.38	14.73	16.91	22.68	22.10	25.19	30.56	37.47
	Rated current	A	9.57	11.56	14.19	16.94	19.66	22.50	25.69	29.02	32.55
	Max current	A	23.09	23.68	25.1	28.4	36.8	36.15	41.1	49.65	60.45
	Heating Rated power input	kW	6.00	7.08	8.72	10.71	12.05	13.95	15.95	18.16	19.47
	Max power input	kW	12.72	13.23	13.68	15.60	17.20	22.68	25.19	27.72	28.62
	Rated current	A	9.91	11.69	14.40	17.69	19.90	23.04	26.34	29.99	32.15
	Max current	A	20.95	21.79	22.1	25.2	27.88	37.8	42	46.05	47.4
	EER		4.35	4.00	3.90	3.90	3.78	3.70	3.60	3.50	3.45
	COP		4.55	4.45	4.30	4.20	4.15	4.05	3.95	3.80	3.75
Performance	Air flow (H)	m³/h	C:15000/H:13200	C:15000/H:13200	C:15000/H:13200	C:15000/H:13200	C:15600/H:14400	C:16200/H:15000	C:16200/H:15000	C:16200/H:15000	C:16200/H:15000
	Sound pressure level (H)	dB(A)	57	57	59	59.5	61	62	62	62	63
	Sound power level (H)	dB(A)	73	73	75	76	77	79	79	79	80
Installation	External dimensions (W/D/H)	mm	1350×720×1690	1350×720×1690	1350×720×1690	1350×720×1690	1350×720×1690	1350×720×2048	1350×720×2048	1350×720×2048	1350×720×2048
	Shipping dimensions (W/D/H)	mm	1450×826×1885	1450×826×1885	1450×826×1885	1450×826×1885	1450×826×1885	1450×826×2225	1450×826×2225	1450×826×2225	1450×826×2225
	Net/Shipping weight	kg	276/301	276/301	276/301	279/304	321/346	335/360	335/360	359/384	359/384
	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	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1INV	1INV	1INV	1INV	2INV	2INV	2INV	2INV	2INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	9.7	9.7	9.7	10	10	10	10	10	10
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	12.7	12.7	12.7	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4	28.58	28.58	28.58	28.58	28.58	28.58
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Max.total pipe length *1	m	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Standard total pipe length *2	m	500	500	500	500	500	500	500	500	500
	Max. pipe length (Equivalent/Actual)	m	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165
	Max drop between I.U.&O.U (O.U up/down) *3	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*4	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U *5	m	30	30	30	30	30	30	30	30	30
	Standard drop between I.U *6	m	18	18	18	18	18	18	18	18	18
	External static pressure	Pa	82	82	82	82	82	82	82	82	82
Connection ratio	Connectable indoor unit ratio	%	50~160	50~160	50~160	50~160	50~160	50~160	50~160	50~160	50~160
	Maximum number of indoor units		18	20	24	29	33	37	41	45	49
Working temp.	Cooling	°C	(-5-50)								
	Heating	°C	(-23-21)								

Max.total pipe length *1 If the total pipe length to all the indoor units is between 500~1000m, you MUST contact your local distributor/dealer for individual design and separate order.
Standard total pipe length *2 Standard design and production in the factory.
Max drop between I.U.&O.U *3 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.

Model			AV26NMMEUA	AV28NMMEUA	AV30NMMEUA	AV32NMMEUA	AV34NMMEUA	AV36NMMEUA	AV38NMMEUA	AV40NMMEUA	AV42NMMEUA	AV44NMMEUA	AV46NMMEUA	AV48NMMEUA
Combination model			AV12NMMEUA	AV14NMMEUA	AV14NMMEUA	AV14NMMEUA	AV16NMMEUA	AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV22NMMEUA	AV24NMMEUA
			AV14NMMEUA	AV14NMMEUA	AV16NMMEUA	AV18NMMEUA	AV18NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV22NMMEUA	AV24NMMEUA	AV24NMMEUA	AV24NMMEUA
Capacity	Capacity range	HP	26	28	30	32	34	36	38	40	42	44	46	48
	Cooling	kW	73.5	80	85	90.4	95.4	101	106.4	112	117.5	124	129.5	136
	Heating	kW	82.5	90	95	101.5	106.5	113	119.5	126	132	136	142	146
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling Rated power input	kW	18.85	20.51	22.16	23.88	25.53	27.46	29.18	31.11	33.13	35.27	37.28	39.42
	Max power input	kW	31.64	33.81	39.59	39.00	44.78	47.87	47.28	50.37	55.75	62.66	68.03	74.94
	Rated current	A	31.12	33.88	36.60	39.43	42.16	45.35	48.19	51.38	54.71	58.24	61.57	65.10
	Max current	A	53.5	56.8	65.2	64.55	72.95	77.9	77.25	82.2	90.75	101.55	110.1	120.9
	Heating Rated power input	kW	19.44	21.43	22.76	24.66	26.00	28.00	29.90	31.90	34.11	35.42	37.62	38.93
	Max power input	kW	29.28	31.20	32.80	38.28	39.88	42.39	47.87	50.37	52.91	53.81	56.34	57.24
	Rated current	A	32.10	35.39	37.59	40.73	42.94	46.24	49.38	52.68	56.33	58.49	62.14	64.30
	Max current	A	47.3	50.4	53.08	63	65.68	69.88	79.8	84	88.05	89.4	93.45	94.8
	EER		3.90	3.90	3.84	3.79	3.74	3.68	3.65	3.60	3.55	3.52	3.47	3.45
	COP		4.24	4.20	4.17	4.12	4.10	4.04	4.00	3.95	3.87	3.84	3.77	3.75
Performance	Air flow (H)	m³/h	C:30000/H:26400	C:30000/H:26400	C:30600/H:27600	C:31200/H:28200	C:31480/H:29400	C:31480/H:29400	C:32400/H:30000	C:32400/H:30000	C:32400/H:30000	C:32400/H:30000	C:32400/H:30000	C:32400/H:30000
	Sound pressure level (H)	dB(A)	62	62.5	63	64	64.5	64.5	65	65	65	65.5	65.5	66
	Sound power level (H)	dB(A)	79	80	80	81	82	82	83	83	83	83	83	84
Installation	External dimensions (W/D/H)	mm	1350×720×1690 +1350×720×1690	1350×720×1690*2	1350×720×1690 +1350×720×1690	1350×720×1690 +1350×720×2048	1350×720×1690 +1350×720×2048	1350×720×1690 +1350×720×2048	1350×720×2048 +1350×720×2048	1350×720×2048*2	1350×720×2048 +1350×720×2048	1350×720×2048 +1350×720×2048	1350×720×2048 +1350×720×2048	(1350×720×2048)*2
	Shipping dimensions (W/D/H)	mm	1450×826×1885 +1450×826×1885	1450×826×1885*2	1450×826×1885 +1450×826×1885	1450×826×1885 +1450×826×2225	1450×826×1885 +1450×826×2225	1450×826×1885 +1450×826×2225	1450×826×2225 +1450×826×2225	1450×826×2225*2	1450×826×2225 +1450×826×2225	1450×826×2225 +1450×826×2225	1450×826×2225 +1450×826×2225	(1450×826×2225)*2
	Net/Shipping weight	kg	276/301+279/304	279/304*2	279/304+321/346	279/304+335/360	321/346+335/360	321/346+335/360	335/360+335/360	335/360*2	335/360+359/384	335/360+359/384	359/384+359/384	(359/384)*2
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1INV+1INV	1INV*2	1INV+2INV	1INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV	2INV*2	2INV+2INV	2INV+2INV	2INV+2INV	2INV*2
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	19.7	20	20	20	20	20	20	20	20	20	20	20
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88	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	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Max.total pipe length *1	m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Standard total pipe length *2	m	500	500	500	500	500	500	500	500	500	500	500	500
	Max. pipe length (Equivalent/Actual)	m	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165
	Max drop between I.U.&O.U (O.U up/down) *3	m	110/90	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*4	m	50/40	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 *5	m	30	30	30	30	30	30	30	30	30	30	30	30
	Standard drop between I.U *6	m	18	18	18	18	18	18	18	18	18	18	18	18
	External static pressure	Pa	82	82	82	82	82	82	82	82	82	82	82	82
Connection ratio	Connectable indoor unit ratio	%	50~160	50~160	50~160	50~160	50~160	50~160	50~160	50~160	50~160	50~160	50~160	50~160
	Maximum number of indoor units		53	58	62	64	64	64	64	64	64	64	64	64
Working temp.	Cooling	°C	(-5-50)											
	Heating	°C	(-23-21)											

Standard drop between I.U.&O.U *4 Standard design and production in the factory.
Max drop between I.U. *5 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. *6 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)

50/60Hz-380~400V-3Ph

72HP

- Single Module: 8/10/12/14/16HP,18/20/22/24HP
- Combination Module: 26-72HP,2-3 modules
- Full DC INVERTER technology
- Max.1000m total pipe length, Max.110m height drop
- Compatible with all the MRV indoor units.

DC motor | High performance compressor | FULL DC INVERTER Full DC Inverter | Super quiet | Quiet operation | 3 min 3 minutes protection | Blue Blue fin

Model				AV50NMMEUA	AV52NMMEUA	AV54NMMEUA	AV56NMMEUA	AV58NMMEUA	AV60NMMEUA	AV62NMMEUA	AV64NMMEUA	AV66NMMEUA	AV68NMMEUA	AV70NMMEUA	AV72NMMEUA
Combination model				AV14NMMEUA	AV16NMMEUA	AV16NMMEUA	AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV22NMMEUA	AV24NMMEUA
				AV18NMMEUA	AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV22NMMEUA	AV24NMMEUA	AV24NMMEUA	AV24NMMEUA
				AV18NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV22NMMEUA	AV24NMMEUA	AV24NMMEUA	AV24NMMEUA	AV24NMMEUA	AV24NMMEUA
Capacity	Capacity range		HP	50	52	54	56	58	60	62	64	66	68	70	72
	Cooling		kW	140.8	146	151.4	157	162.4	168	173.5	180	185.5	192	197.5	204
	Heating		kW	158	163	169.5	176	182.5	189	195	199	205	209	215	219
Electrical parameters	Power supply		Ph/V/Hz	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60
	Cooling	Rated power input	kW	37.50	39.37	41.08	43.02	44.73	46.67	48.68	50.82	52.84	54.98	56.99	59.13
		Max power input	kW	61.10	70.55	69.96	73.05	72.47	75.56	80.93	87.84	93.22	100.13	105.50	112.41
		Rated current	A	61.93	65.01	67.85	71.04	73.88	77.07	80.40	83.93	87.26	90.79	94.12	97.65
		Max current	A	100.7	114.7	114.05	119	118.35	123.3	131.85	142.65	151.2	162	170.55	181.35
	Heating	Rated power input	kW	38.62	40.05	41.95	43.95	45.85	47.85	50.06	51.37	53.57	54.88	57.09	58.40
		Max power input	kW	60.96	59.59	65.07	67.57	73.05	75.56	78.09	78.99	81.53	82.43	84.96	85.86
		Rated current	A	63.77	66.14	69.28	72.58	75.72	79.02	82.67	84.83	88.48	90.64	94.29	96.45
		Max current	A	100.8	97.76	107.68	111.88	121.8	126	130.05	131.4	135.45	136.8	140.85	142.2
	EER			3.75	3.71	3.69	3.65	3.63	3.60	3.56	3.54	3.51	3.49	3.47	3.45
	COP			4.09	4.07	4.04	4.00	3.98	3.95	3.90	3.87	3.83	3.81	3.77	3.75
Performance	Air flow (H)		m^3/h	C:44440/H:43200	C:44440/H:43480	C:48000/H:44400	C:48000/H:44400	C:48600/H:45000	C:48600/H:45000	C:48600/H:45000	C:48600/H:45000	C:48600/H:45000	C:48600/H:45000	C:48600/H:45000	C:48600/H:45000
	Sound pressure level (H)		dB(A)	66	66	66.5	66.5	67	67	67	67	67	67.5	67.5	68
	Sound power level (H)		dB(A)	84	84	85	85	85	85	85	85	85	86	86	86
Installation	External dimensions (W/D/H)		mm	1350×720×1690 +(1350×720×2048)*2	(1350×720×1690)*2 +(1350×720×2048)	(1350×720×1690) +(1350×720×2048) +(1350×720×2048)	(1350×720×1690) +(1350×720×2048)*2	(1350×720×2048) +(1350×720×2048)*2	(1350×720×2048)*3	(1350×720×2048)*2 +(1350×720×2048)	(1350×720×2048)*2 +(1350×720×2048)	(1350×720×2048) +(1350×720×2048) +(1350×720×2048)	(1350×720×2048) +(1350×720×2048)*2	(1350×720×2048) +(1350×720×2048)*2	(1350×720×2048)*3
	Shipping dimensions (W/D/H)		mm	1450×826×1885 +(1450×826×2225)*2	(1450×826×1885)*2 +(1450×826×2225)	(1450×826×1885) +(1450×826×2225) +(1450×826×2225)	(1450×826×1885) +(1450×826×2225)*2	(1450×826×2225) +(1450×826×2225)*2	(1450×826×2225)*3	(1450×826×2225)*2 +(1450×826×2225)	(1450×826×2225)*2 +(1450×826×2225)	(1450×826×2225) +(1450×826×2225) +(1450×826×2225)	(1450×826×2225) +(1450×826×2225)*2	(1450×826×2225) +(1450×826×2225)*2	(1450×826×2225)*3
	Net/Shipping weight		kg	279/304+(335/360)*2	(321/346)*2+(335/360)	(321/346)+(335/360)+(335/360)	(321/346)+(335/360)*2	(335/360)+(335/360)*2	(335/360)*3	(335/360)*2+(359/384)	(335/360)*2+(359/384)	(335/360)+(335/360)+(359/384)	(335/360)+(359/384)*2	(335/360)+(359/384)*2	(359/384)*3
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1INV+2INV*2	2INV*2+2INV	2INV+2INV+2INV	2INV+2INV*2	2INV+2INV*2	2INV*3	2INV*2+2INV	2INV*2+2INV	2INV+2INV+2INV	2INV+2INV*2	2INV+2INV*2	2INV*3
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	30	30	30	30	30	30	30	30	30	30	30	30
	Refrigerant liquid pipe		mm	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22
	Refrigerant gas pipe		mm	41.3	41.3	41.3	41.3	41.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Max.total pipe length *1		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Standard total pipe length *2		m	500	500	500	500	500	500	500	500	500	500	500	500
	Max. pipe length (Equivalent/Actual)		m	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165
	Max drop between I.U.&O.U (O.U up/down) *3		m	110/90	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*4		m	50/40	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 *5		m	30	30	30	30	30	30	30	30	30	30	30	30
	Standard drop between I.U*6		m	18	18	18	18	18	18	18	18	18	18	18	18
	External static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82	82
Connection ratio	Connectable indoor unit ratio		%	50-160	50-160	50-160	50-160	50-160	50-160	50-160	50-160	50-160	50-160	50-160	50-160
	Maximum number of indoor units			64	64	64	64	64	64	64	64	64	64	64	64
Working temp.	Cooling		°C	(-5-50)								(-5-50)			
	Heating		°C	(-23-21)								(-23-21)			

Max.total pipe length *1 If the total pipe length to all the indoor units is between 500~1000m, you MUST contact your local distributor/dealer for individual design and separate order.
Standard total pipe length *2 Standard design and production in the factory.
Max drop between I.U.&O.U *3 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 *4 Standard design and production in the factory.
Max drop between I.U. *5 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. *6 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)

T3 380-3-50/60

8/10/12/14HP

16/18/20HP

- Single Module: 8/10/12/14HP,16/18/20HP
- Combination Module: 22-60HP, 2-3 modules
- Full DC INVERTER technology
- Max.1000m total pipe length, Max.110m height drop
- Compatible with all the MRV indoor units.

DC motor | High performance compressor | FULL DC INVERTER Full DC Inverter | Super quiet | Quiet operation | 3 min 3 minutes protection | Blue Blue fin

Model				AV08IMMEUB	AV10IMMEUB	AV12IMMEUB	AV14IMMEUB	AV16IMMEUB	AV18IMMEUB	AV20IMMEUB	AV22IMMEUB	AV24IMMEUB	AV26IMMEUB	AV28IMMEUB	AV30IMMEUB	AV32IMMEUB	AV34IMMEUB
Combination model				/	/	/	/	/	/	/	AV10IMMEUB	AV10IMMEUB	AV12IMMEUB	AV14IMMEUB	AV14IMMEUB	AV14IMMEUB	AV16IMMEUB
				/	/	/	/	/	/	/	AV12IMMEUB	AV14IMMEUB	AV14IMMEUB	AV14IMMEUB	AV16IMMEUB	AV18IMMEUB	AV18IMMEUB
				/	/	/	/	/	/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34
	Cooling (T1)		kW	25.2	28	33.5	40	45	50.4	56	61.5	68	73.5	80	85	90.4	95.4
	Cooling (T3)		kW	23.2	25.2	28.5	32.8	39.6	42.8	44.8	53.7	58.0	61.3	65.6	72.4	75.6	82.4
	Heating		kW	27	33.5	37.8	45	50	58.5	63	71.3	78.5	82.8	90	95	103.5	108.5
Electrical parameters	Power supply		Ph/V/Hz	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60
	Cooling (T1)	Rated power input	kW	6.00	7.28	8.52	10.22	11.66	13.25	15.20	15.80	17.50	18.74	20.44	21.88	23.47	24.91
		Rated current	A	10.13	12.29	14.38	17.25	19.68	22.37	25.66	26.67	29.54	31.64	34.51	36.94	39.62	42.05
	Cooling (T3)	Rated power input	kW	7.02	8.66	9.76	11.45	13.26	15.25	16.96	18.42	20.11	21.21	22.90	24.71	26.70	28.51
		Rated current	A	11.85	14.62	16.48	19.33	22.39	25.75	28.63	31.10	33.95	35.81	38.66	41.72	45.08	48.13
	Cooling	Max power input	kW	16.91	17.65	22.68	24.36	32.30	35.24	37.47	40.33	42.01	47.04	48.72	56.66	59.60	67.54
		Max current	A	25.10	28.40	32.37	36.80	54.53	56.60	60.50	60.77	65.20	69.17	73.60	91.33	93.40	111.13
	Heating	Rated power input	kW	5.85	7.32	8.70	10.57	11.95	14.05	15.40	16.02	17.89	19.27	21.14	22.52	24.62	26.00
		Max power input	kW	11.90	15.60	17.20	19.7	23.80	25.20	28.62	32.80	35.30	36.90	39.40	43.50	44.90	49.00
		Rated current	A	9.88	12.36	14.69	17.84	20.17	23.72	26.00	27.05	30.20	32.53	35.69	38.02	41.56	43.89
		Max current	A	19.00	25.20	27.90	33.26	38.00	42.30	47.40	53.10	58.46	61.16	66.52	71.26	75.56	80.30
	EER			4.20	3.85	3.93	3.91	3.86	3.80	3.68	3.89	3.89	3.92	3.91	3.88	3.85	3.83
	COP			4.62	4.58	4.34	4.26	4.18	4.16	4.09	4.45	4.39	4.30	4.26	4.22	4.20	4.17
Performance	Air flow (H)		m^3/h	C:15000/H:13200	C:15000/H:13200	C:15000/H:13200	C:15600/H:14400	C:16200/H:15000	C:16200/H:15000	C:16200/H:15000	(C:15000/H:13200)*2	(C:15000/H:13200) +(C:15600/H:14400)	(C:15000/H:13200) +(C:15600/H:14400)	(C:15600/H:14400)*2	(C:16200/H:15000) +(C:15600/H:14400)	(C:16200/H:15000) +(C:15600/H:14400)	(C:16200/H:15000)*2
	Sound pressure level (H)		dB(A)	57	57	57	58	59	60	61	60	60.5	60.5	61	61.5	62	62.5
	Sound power level (H)		dB(A)	73	73	73	74	76	77	78	77	78	78	78	79	79	80
Installation	External dimensions (W/D/H)		mm	1350×720×1690	1350×720×1690	1350×720×1690	1350×720×1690	1350×720×2048	1350×720×2048	1350×720×2048	(1350×720×1690)*2	(1350×720×1690)*2	(1350×720×1690)*2	1350×720×1690 +1350×720×2048	1350×720×1690 +1350×720×2048	1350×720×1690 +1350×720×2048	(1350×720×2048)*2
	Shipping dimensions (W/D/H)		mm	1450×826×1885	1450×826×1885	1450×826×1885	1450×826×1885	1450×826×2225	1450×826×2225	1450×826×2225	(1450×826×1885)*2	(1450×826×1885)*2	(1450×826×1885)*2	(1450×826×1885)*2	1450×826×1885 +1450×826×2225	1450×826×1885 +1450×826×2225	(1450×826×2225)*2
	Net/Shipping weight		kg	276/301	276/301	279/304	321/346	359/384	359/384	359/384	279/304*2	276/301+321/346	321/346+279/304	321/346*2	321/346+359/384	321/346+359/384	359/384*2
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1INV	1INV	1INV	2INV	2INV	2INV	2INV	1INV+1INV	1INV+2INV	1INV+2INV	2INV*2	2INV*2	2INV*2	2INV*2
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	9.7	9.7	10	10	10	10	10	9.7+9.7	9.7+10	10+10	10+10	10+10	10+10	10+10
	Refrigerant liquid pipe		mm	12.7	12.7	12.7	12.7	12.7	12.7	12.7	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	25.4	25.4	25.4	28.58	28.58	28.58	28.58	31.8	31.8	31.8	31.8	38.1	38.1	38.1
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Max.total pipe length *1		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Standard total pipe length *2		m	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	Max. pipe length(Equivalent/Actual)		m	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165
	Max drop between I.U.&O.U (O.U up/down) *3		m	110/90	110/90	110/90	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) *4		m	50/40	50/40	50/40	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 *5		m	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Standard drop between I.U*6		m	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	External static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82
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	50-130	50-130	50-130
	Maximum number of indoor units			13	16	20	24	27	30	33	36	40	43	46	50	53	57
Working temp.	Cooling		C	(-5-52)							(-5-52)		(-5-52)				
	Heating		C	(-23-21)							(-23-21)		(-23-18)				

Max.total pipe length *1 If the total pipe length to all the indoor units is between 500~1000m, you MUST contact your local distributor/dealer for individual design and separate order.
Standard total pipe length *2 Standard design and production in the factory.
Max drop between I.U.&O.U *3 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 *4 Standard design and production in the factory.
Max drop between I.U. *5 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. *6 Standard design and production in the factory.

** All the specifications are tested under nominal condition(in cooling T1, indoor temp. is 27℃ DB/19℃ WB;Outdoor temp 35℃ DB/24WB;in cooling T3, indoor temp. is 27℃ DB/19℃ WB;Outdoor temp 46℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃ WB)

T3 380-3-50/60

60HP

- Single Module: 8/10/12/14HP,16/18/20HP
- Combination Module: 22-60HP, 2-3 modules
- Full DC INVERTER technology
- Max.1000m total pipe length, Max.110m height drop
- Compatible with all the MRV indoor units.

DC motor | High performance compressor | FULL DC INVERTER Full DC Inverter | Super quiet | Quiet operation | 3 min 3 minutes protection | Blue Blue fin

Model				AV36IMMEUB	AV38IMMEUB	AV40IMMEUB	AV42IMMEUB	AV44IMMEUB	AV46IMMEUB	AV48IMMEUB	AV50IMMEUB	AV52IMMEUB	AV54IMMEUB	AV56IMMEUB	AV58IMMEUB	AV60IMMEUB
Combination model				AV18IMMEUB	AV18IMMEUB	AV20IMMEUB	AV14IMMEUB	AV14IMMEUB	AV14IMMEUB	AV14IMMEUB	AV14IMMEUB	AV16IMMEUB	AV18IMMEUB	AV18IMMEUB	AV18IMMEUB	AV20IMMEUB
				AV18IMMEUB	AV20IMMEUB	AV20IMMEUB	AV14IMMEUB	AV14IMMEUB	AV14IMMEUB	AV16IMMEUB	AV18IMMEUB	AV18IMMEUB	AV18IMMEUB	AV18IMMEUB	AV20IMMEUB	AV20IMMEUB
				/	/	/	AV14IMMEUB	AV16IMMEUB	AV18IMMEUB	AV18IMMEUB	AV18IMMEUB	AV18IMMEUB	AV18IMMEUB	AV20IMMEUB	AV20IMMEUB	AV20IMMEUB
Capacity	Capacity range		HP	36	38	40	42	44	46	48	50	52	54	56	58	60
	Cooling (T1)		kW	100.8	106.4	112	120	125	130.4	135.4	140.8	145.8	151.2	156.8	162.4	168
	Cooling (T3)		kW	85.6	87.6	112	98.4	105.2	108.4	115.2	118.4	125.2	128.4	130.4	132.4	134.4
	Heating		kW	117	121.5	126	135	140	148.5	153.5	162	167	175.5	180	184.5	189
Electrical parameters	Power supply		Ph/V/Hz	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60
	Cooling (T1)	Rated power input	kW	26.50	28.45	30.40	30.66	32.10	33.30	35.13	36.72	38.16	39.75	41.70	43.65	45.60
		Rated current	A	44.74	48.03	51.32	51.76	55.20	56.22	59.31	61.99	64.42	67.11	70.40	73.69	76.98
	Cooling (T3)	Rated power input	kW	30.50	32.21	33.92	34.35	37.07	38.53	39.96	41.95	43.76	45.75	47.46	49.17	50.88
		Rated current	A	51.49	54.38	57.26	57.99	62.58	65.05	67.46	70.82	73.88	77.24	80.12	83.01	85.90
	Cooling	Max power input	kW	70.48	72.71	74.94	73.08	79.48	82.34	91.90	94.84	102.78	105.72	107.95	110.18	112.41
		Max current	A	113.20	117.10	121.00	110.40	125.70	125.97	147.93	150.00	167.73	169.80	173.70	177.60	181.50
	Heating	Rated power input	kW	28.10	29.45	30.80	31.71	33.29	33.91	36.57	38.67	40.05	42.15	43.50	44.85	46.20
		Max power input	kW	50.40	53.82	57.24	59.10	63.92	68.10	68.70	70.10	74.20	75.60	79.02	82.44	85.86
		Rated current	A	47.44	49.72	52.00	53.53	56.20	57.25	61.74	65.28	67.61	71.16	73.44	75.72	78.00
		Max current	A	84.60	89.70	94.80	99.77	105.86	111.56	113.56	117.86	122.60	126.90	132.00	137.10	142.20
	EER			3.80	3.74	3.68	3.91	3.89	3.92	3.85	3.83	3.82	3.80	3.76	3.72	3.68
	COP			4.16	4.13	4.09	4.26	4.21	4.38	4.20	4.19	4.17	4.16	4.14	4.11	4.09
Performance	Air flow (H)		m^3/h	(C:16200/H:15000)*2	(C:16200/H:15000)*2	(C:16200/H:15000)*2	(C:15600/H:14400)*3	(C:15600/H:14400)*2 +(C:16200/H:15000)	(C:15600/H:14400)*2 +(C:16200/H:15000)	(C:15600/H:14400) +(C:16200/H:15000)*2	(C:15600/H:14400) +(C:16200/H:15000)*2	(C:16200/H:15000)*3	(C:16200/H:15000)*3	(C:16200/H:15000)*3	(C:16200/H:15000)*3	(C:16200/H:15000)*3
	Sound pressure level (H)		dB(A)	63	63.5	65	63	63	63.5	64	64	64.5	65	65	65.5	66
	Sound power level (H)		dB(A)	80	81	83	81	81	82	82	82	83	83	83	84	84
Installation	External dimensions (W/D/H)		mm	(1350×720×2048)*2	(1350×720×2048)*2	(1350×720×2048)*2	1350×720×2048 +(1350×720×1690)*3	1350×720×2048 +(1350×720×1690)*2	1350×720×2048 +(1350×720×1690)*2	(1350×720×2048)*2 +1350×720×1690	(1350×720×2048)*2 +1350×720×1690	(1350×720×2048)*3	(1350×720×2048)*3	(1350×720×2048)*3	(1350×720×2048)*3	(1350×720×2048)*3
	Shipping dimensions (W/D/H)		mm	(1450×826×2225)*2	(1450×826×2225)*2	(1450×826×2225)*2	(1450×826×1885)*3	1450×826×2225 +(1450×826×1885)*2	1450×826×2225 +(1450×826×1885)*2	1450×826×1885 +(1450×826×2225)*2	1450×826×1885 +(1450×826×2225)*2	(1450×826×2225)*3	(1450×826×2225)*3	(1450×826×2225)*3	(1450×826×2225)*3	(1450×826×2225)*3
	Net/Shipping weight		kg	359/384*2	359/384*2	359/384*2	321/346*3	321/346*2+359/384	321/346*2+359/384	321/346+359/384*2	321/346+359/384*2	359/384*3	359/384*3	359/384*3	359/384*3	359/384*3
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			2INV*2	2INV*2	2INV*2	2INV*3	2INV*3	2INV*3	2INV*3	2INV*3	2INV*3	2INV*3	2INV*3	2INV*3	2INV*3
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	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	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	19.05	19.05	19.05	19.05	22.22	22.22	22.22
	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	38.1	41.3	41.3	41.3	41.3	41.3	44.5	44.5	44.5
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Max.total pipe length *1		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Standard total pipe length *2		m	500	500	500	500	500	500	500	500	500	500	500	500	500
	Max. pipe length(Equivalent/Actual)		m	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165	190/165
	Max drop between I.U.&O.U (O.U up/down) *3		m	110/90	110/90	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) *4		m	50/40	50/40	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 *5		m	30	30	30	30	30	30	30	30	30	30	30	30	30
	Standard drop between I.U*6		m	18	18	18	18	18	18	18	18	18	18	18	18	18
	External static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82
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	50-130	50-130
	Maximum number of indoor units			60	64	64	64	64	64	64	64	64	64	64	64	64
Working temp.	Cooling		C	(-5-52)					(-5-52)			(-5-52)				
	Heating		C	(-23-18)					(-23-18)			(-23-18)				

Max.total pipe length *1 If the total pipe length to all the indoor units is between 500~1000m, you MUST contact your local distributor/dealer for individual design and separate order.
Standard total pipe length *2 Standard design and production in the factory.
Max drop between I.U.&O.U *3 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 *4 Standard design and production in the factory.
Max drop between I.U. *5 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. *6 Standard design and production in the factory.

** All the specifications are tested under nominal condition(in cooling T1, indoor temp. is 27℃ DB/19℃ WB;Outdoor temp 35℃ DB/24WB;in cooling T3, indoor temp. is 27℃ DB/19℃ WB;Outdoor temp 46℃ DB/24WB;in heating, indoor temp.is 20℃ DB,in heating, outdoor temp.is 7℃ DB/6℃WB)

MRV III-C

FEATURES & BENEFITS

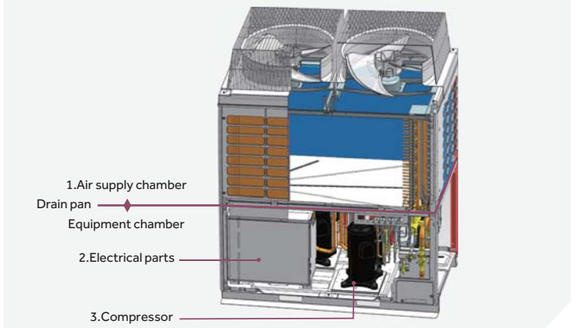
MRV III-C

Air Supply Chamber and Equipment Chamber Separation Design

1. Prevent electrical parts and the main functional components by the rain Erosion, prolong the service life of components;

2. Compressor running noise was closed in the equipment room, reduce the running noise about 3 dB(A);

3. Air supply chamber complete isolation: During commissioning and maintenance, the units can be used normally.



Special Heat Exchanger Design

4 way air return heat exchanger design

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

The two stage heat exchanger are respectively controlled by a electronic expansion valve control, which can adjust the condenser volume.

Two stages heat exchanger design

Two stages heat exchanger can separate control and adjust heat exchanger size, effectively cope with small load operation, to ensure the reliable operation range.

Special Heat Exchanger Design

■ Aviation noise reduction patent fan design

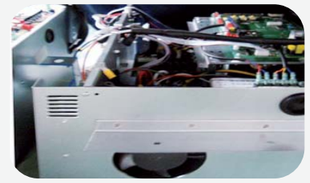
•Streamline vortex fan, sharp fan blade edge, and a certain degree of curvature, reduce the vibration, and pressure loss.

■ DC fan motor

•DC inverter technology •High efficiency •Low noise

Electric Control Box Heat Dissipation Design

Streamline vortex fan forced heat dissipation fan inside the electric control box, to ensure the stable internal temperature and stable system operationn, sharp fan blade edge, and a certain degree of curvature, reduce the vibration, and pressure loss.

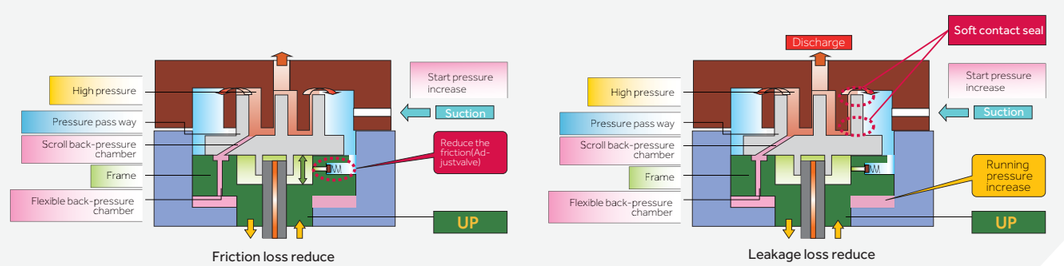


Energy Efficient

High Efficiency DC Inverter Scroll Compressor

•DC inverter scroll compressor imported from mitsubishi electric.

•Equipped with a "Frame Compliance Mechanism" that allows movement in the axial direction of the frame supporting the cradle scroll. This greatly reduces both leakage and friction loss, ensuring very high efficiency throughout the whole speed range.

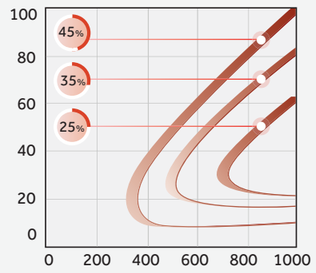


FEATURES & BENEFITS

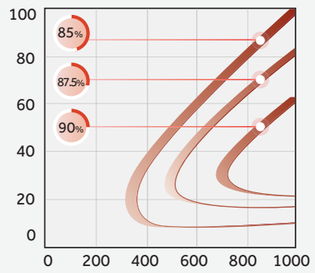
Energy Efficient

64 Stage Speed Adjustment DC Fan Motor

Efficiency increase 45% comparing with AC motor and power input largely decrease.
64 stage speed adjustment plus DC inverter drive, stabilizing compressor discharge pressure and suction pressure to ensure high system reliability.



AC motor efficiency

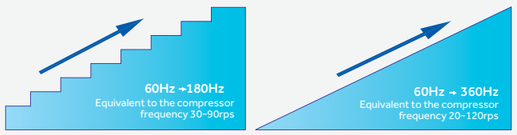


DC motor efficiency

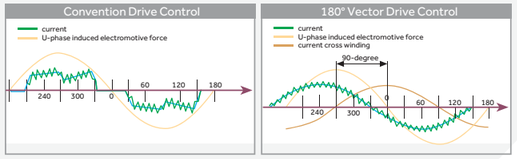
Stepless DC Inverter Control Technology

High precision control, variable frequency drive from 0 to 360Hz.

180° vector DC inverter drive technology: Sine wave current drive, efficiency improve 17% comparing to conventional rectangle wave.

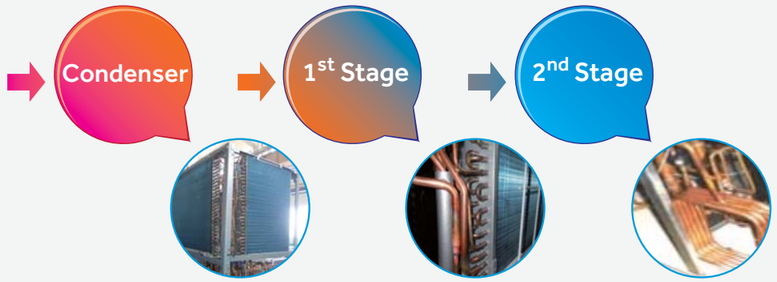


General inverter HAIER MRV III-C inverter



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 xrefrigerant improved by 46% and flow resistance reduced by 55%, and running efficiency improved by 9%.



Energy Management Technology

There is energy saving dip switch (SW8-3) in the indoor unit which can be lock the temperature at 26°C in summer and 20°C in winter, to avoid the energy waste and realize the centralized management.
The temperature lock function also can be realized through the new wired controller YR-E16.

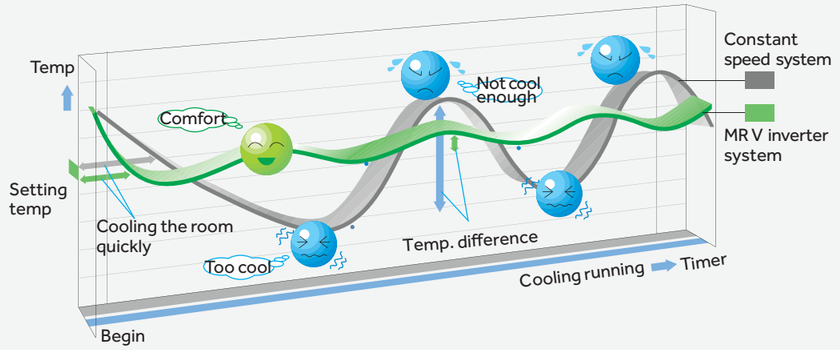
High Efficiency Heat Exchanging Technology

Outdoor high efficiency four way air return heat exchanger design. The compressor and condenser are placed in separated chamber. High efficiency heat exchanger design. Efficient ø8 inner grooved tube and 0.11 hydrophilic aluminum coil fin, corrosion and oxidation resistance treatment.

Comfort

Precise Control

Adopt the inverter control, the temperature could be control precisely within the range of ±0.5°C.

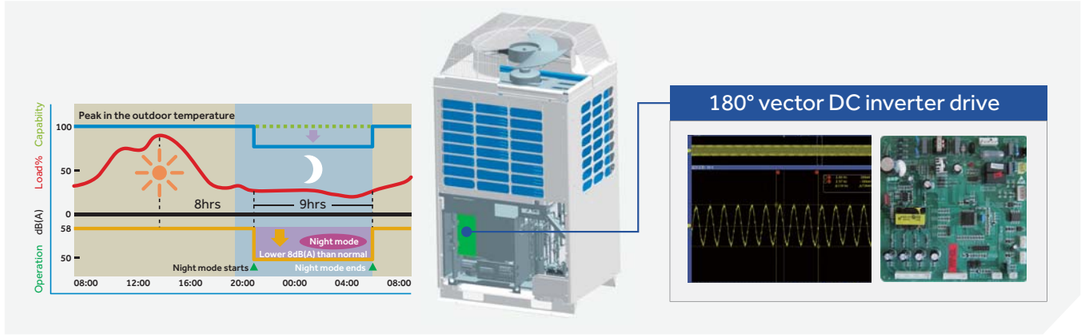


FEATURES & BENEFITS

Comfort

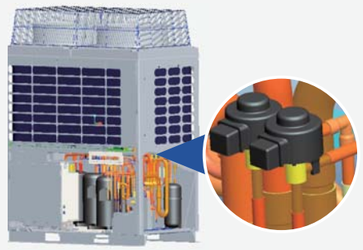
Low Noise and Night Silent Running

Machinery chamber is separated from air supply chamber; Built-in high efficient muffler in the machinery chamber greatly reduce the compressor noise.
The night silent running function can be set on the outdoor PCB. The noise can be reduced by 8 dB(A) at most.



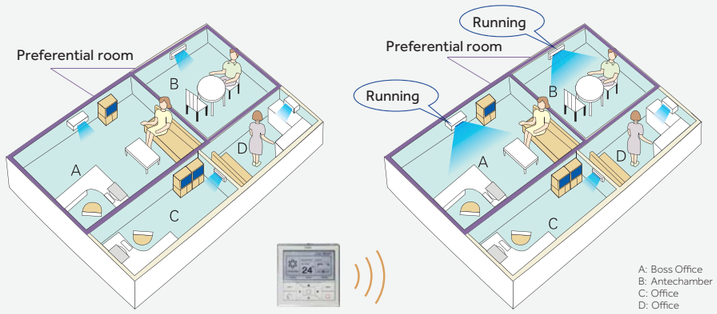
Double EEV Control

Make sure the refrigerant flow equally, to provide more comfort temperature.



Priority Setting

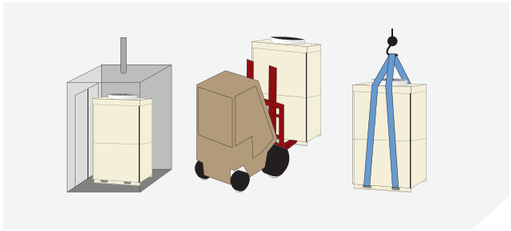
With the human design, you can set different preferential steps of some indoor units according to the room functions, so that it will ensure that the most important room gains high priority.



Convenient Installation

Easy Transportation

Outdoor footprint only occupy 0.74m²(8/10HP) and 1.04m² (12/14/16HP) .
Can lift with elevators and save lots of transport cost and time.

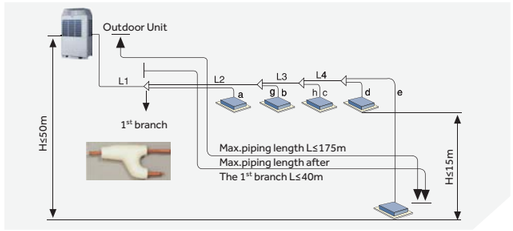


Outdoor High External Static Pressure

Up to 50Pa and can be installed at different floors .

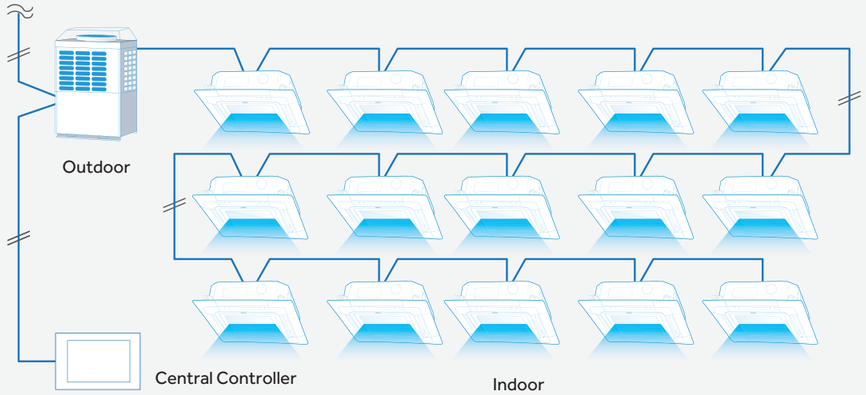
Long Pipe Length, High Height Drop

Total 300m refrigerant piping length.
Max.175m refrigerant piping length.
Max.50m height drop between indoor and outdoor units.
Max.15m height drop between indoor units.



Connection Wire

Two core nonpolar communication line way, no joint wrong hidden trouble.
Centralized controller bus and indoor/outdoor bus shareable, wiring and access is very simple Indoor address automatically set.

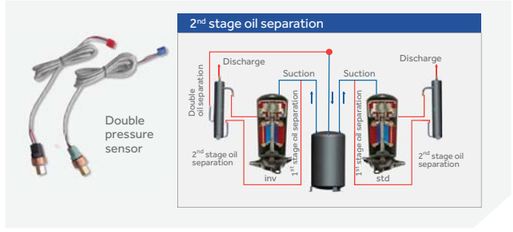


FEATURES & BENEFITS

High Reliability

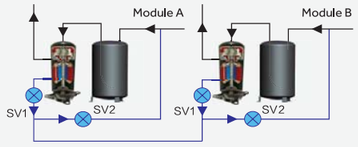
The First 2-stages Oil Separation and Cross Oil Return Technology in The Industry

1st stage oil separation: built-in oil separating unit, greatly reduced the oil from the compressor discharge.
2nd stage oil separation: external oil separator to separate the small amount oil from discharge.



High Pressure Difference Oil Equalization

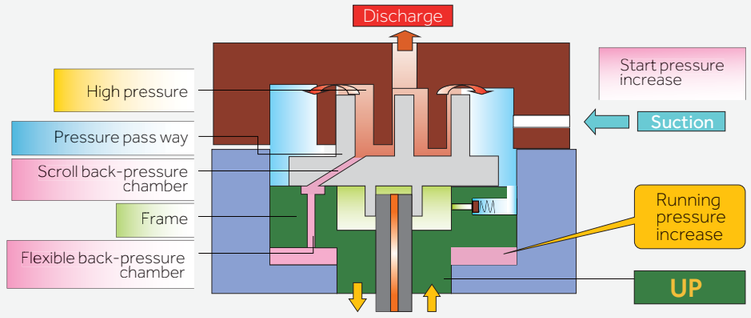
Using the pressure difference between suction and discharge, to realize fast oil balance between module.



Flow	a → b		b → a	
ON	SV1a	SV2b	SV1b	SV2a
OFF	SV1b	SV2a	SV1a	SV2b

Compressor Anti-liquid Shock Technology

Compressor adopt flexible frame mechanism, when any liquid enter into compressor, cradle scroll detaching fixed scroll, discharging liquid refrigerant out of scroll set, to avoid scroll damage.



Duty Cycle Operation to Extend the System Lifetime (Combination Model)

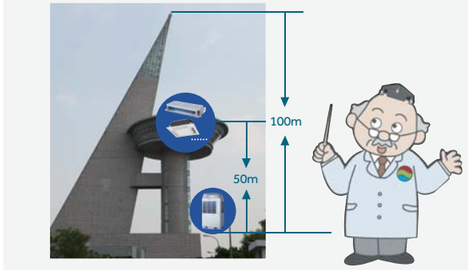
The outdoor units priority operating changes every 24 hours. Outdoor units start in turn and operation time can be balanced. Inverter compressor lifetime can be extend maximum 3 times.

First time operation　Second time operation　Third time operation

High Reliability

Field Test

The system has been running for over 3 years at the jobsite where the vertical height approximately to 100m.



Backup Operation

If one outdoor unit get into malfunction, the other units continue to operate without affecting the whole system.

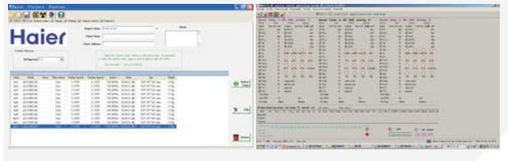
Supporting Tools

■ MRV design express

This software supply a solution of piping & wiring design, can help the designer select the right material lists, basic wiring diagram and control wiring diagram etc., most important thing is to save lots of time during design procedure.

■ On-site service software

Features: Save the installation and maintenance people time. More precise than normal checking method.



Test Lab.

MRV IV-C
MRV III-C
MRVIII-RC
MRV S
MRV W
Easy MRV
MRV AHU
MRV Indoor
Control System
Reference Projects

MRVIII-C(T1) 50/60Hz-380~400V-3Ph

8/10HP

12/14/16HP

DC motor · High performance compressor · DC INVERTER 180° sine wave · Super quiet · Quiet operation · 3 min 3 minutes protection · -15°C HEATING Lowambient heating · -5°C Lowambient cooling · Blue Blue fin

Model				AV08NMVESA	AV10NMVESA	AV12IMVESA	AV14IMVESA	AV16IMVESA	AV18IMVESA	AV20IMVESA	AV22IMVESA	AV24IMVESA
Combination model				/	/	/	/	/	AV08NMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA
				/	/	/	/	/	AV10NMVESA	AV10NMVESA	AV12IMVESA	AV14IMVESA
				/	/	/	/	/	/	/	/	/
Capacity	Capacity range		HP	8	10	12	14	16	18	20	22	24
	Cooling		kW	22.6	28	33.5	40	45	50.6	56	61.5	68
	Heating		kW	25	31.5	37.5	45	50	56.5	63	69	76.5
Electrical parameters	Power supply		Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling	Rated power input	kW	5.27	7.36	10	11.4	13.4	12.63	14.72	17.36	18.76
		Max power input	kW	12.37	14.7	17.54	18.55	20.48	27.07	29.4	29.91	33.25
		Rated current	A	8.7	11.1	14.2	19.05	20.3	19.8	22.2	25.3	30.15
		Max current	A	19.85	23.4	27.9	29.5	32.37	43.25	46.8	47.75	52.9
	Heating	Rated power input	kW	5.89	7.97	10	11.6	13.5	13.86	15.94	17.97	19.57
		Max power input	kW	9.77	11.9	14.6	16.6	17.8	21.67	23.8	24.37	28.5
		Rated current	A	9.7	12.5	15.1	17.96	19.3	22.2	25	27.6	30.46
		Max current	A	15.7	19	23.3	26.5	28.4	34.7	38	39	45.5
	EER			4.29	3.80	3.35	3.51	3.36	4.01	3.80	3.54	3.62
	COP			4.24	3.95	3.75	3.88	3.70	4.08	3.95	3.84	3.91
Performance	Air flow (H)		m³/h	11000	11000	14100	14100	14100	22200	22200	25200	25200
	Sound pressure level (H)		dB(A)	57	57	60	60	60	60	60	61	61
	Sound power level (H)		dB(A)	73	73	76	76	76	77	77	78	78
Installation	External dimensions (W/D/H)		mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)		mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990
	Net/Shipping weight		kg	240/255	240/255	360/378	360/378	368/386	480/510	480/510	600/633	600/633
	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	DC INV SCROLL
	Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 INV	1 INV +1 INV	(1 INV) +(1 INV+1 FIX)	(1 INV) +(1 INV+1 FIX)
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	10	10	20	20	20	20
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88
	Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58
	Oil equalization pipe		mm	9.52	9.52	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	300	300
	Max. pipe length(Equivalent/Actual)		m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure		Pa	50	50	50	50	50	50	50	50	50
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			13	16	19	23	26	29	33	36	39
Working temp.	Cooling		°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating		°C	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21

Model				AV26IMVESA	AV28IMVESA	AV30IMVESA	AV32IMVESA	AV34IMVESA	AV36IMVESA	AV38IMVESA	AV40IMVESA	AV42IMVESA	AV44IMVESA	AV46IMVESA	AV48IMVESA
Combination model				AV10NMVESA	AV14IMVESA	AV14IMVESA	AV16IMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA	AV12IMVESA	AV14IMVESA	AV16IMVESA
				AV16IMVESA	AV14IMVESA	AV16IMVESA	AV16IMVESA	AV10NMVESA	AV10NMVESA	AV14IMVESA	AV14IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA
				/	/	/	/	AV14IMVESA	AV16IMVESA	AV14IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA
Capacity	Capacity range		HP	26	28	30	32	34	36	38	40	42	44	46	48
	Cooling		kW	73	80	85	90	96	101	108	113	118	123.5	130	135
	Heating		kW	81.5	90	95	100	108	113	121.5	126.5	131.5	137.5	145	150
Electrical parameters	Power supply		Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling	Rated power input	kW	20.76	22.8	24.8	26.8	26.12	28.12	30.16	32.16	34.16	36.8	38.2	40.2
		Max power input	kW	35.18	37.1	39.03	40.96	47.95	49.88	51.8	53.73	55.66	58.5	59.51	61.44
		Rated current	A	31.4	38.1	39.35	40.6	41.25	42.5	49.2	50.45	51.7	54.8	59.65	60.9
		Max current	A	55.77	59	61.87	64.74	76.3	79.17	82.4	85.27	88.14	92.64	94.24	97.11
	Heating	Rated power input	kW	21.47	23.2	25.1	27	27.54	29.4	31.17	33.07	34.97	37	38.6	40.5
		Max power input	kW	29.7	33.2	34.4	35.6	40.4	41.6	45.1	46.3	47.5	50.2	52.2	53.4
		Rated current	A	31.8	35.92	37.26	38.6	42.96	44.3	48.42	49.76	51.1	53.7	56.56	57.9
		Max current	A	47.4	53	54.9	56.8	64.5	66.4	72	73.9	75.8	80.1	83.3	85.2
	EER			3.52	3.51	3.43	3.36	3.68	3.59	3.58	3.51	3.45	3.36	3.40	3.36
	COP			3.80	3.88	3.78	3.70	3.92	3.84	3.90	3.83	3.76	3.72	3.76	3.70
Performance	Air flow (H)		m³/h	25200	28200	28200	28200	36300	36300	39300	39300	39300	42300	42300	42300
	Sound pressure level (H)		dB(A)	61	62	62	62	63	63	63	63	63	64	64	64
	Sound power level (H)		dB(A)	78	79	79	79	81	81	81	81	81	82	82	82
Installation	External dimensions (W/D/H)		mm	990/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)		mm	1090/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990
	Net/Shipping weight		kg	608/641	720/756	728/764	736/772	840/888	848/896	960/1011	968/1019	976/1027	1096/1150	1096/1150	1104/1158
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity			(1 INV) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	20	20	20	20	30	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	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	31.8	31.8	31.8	31.8	31.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	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	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)		m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U		m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure		Pa	50	50	50	50	50	50	50	50	50	50	50	50
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	50~130
	Maximum number of indoor units			43	46	50	53	56	59	63	64	64	64	64	64
Working temp.	Cooling		°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating		°C	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21

* 1 outdoor above 50m,outdoor below 40m.
* 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).

MRVIII-C(T1) 60Hz-208~230V-3Ph

8/10HP

12/14/16HP

DC motor · High performance compressor · DC INVERTER 180° sine wave · Super quiet · Quiet operation · 3 min 3 minutes protection · -15°C HEATING Lowambient heating · -5°C Lowambient cooling · Blue Blue fin

Model			AV08CMVESA	AV10CMVESA	AV12CMVESA	AV14CMVESA	AV16CMVESA	AV18CMVESA	AV20CMVESA	AV22CMVESA	AV24CMVESA
Combination model			/	/	/	/	/	AV08CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA
			/	/	/	/	/	AV10CMVESA	AV10CMVESA	AV12CMVESA	AV14CMVESA
			/	/	/	/	/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	14	16	18	20	22	24
	Cooling	kW	22.6	28	33.5	40	45	50.6	56	61.5	68
	Heating	kW	25	31.5	37.5	45	50	56.5	63	69	76.5
Electrical parameters	Power supply	Ph/V/Hz	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60
	Cooling Rated power input	kW	5.6	8.5	10	12	14	14.1	17	18.5	20.5
	Cooling Max power input	kW	12.5	14.5	16.5	18.5	20	27	29	31	33
	Cooling Rated current	A	15.15	23.35	27.55	32.75	38.95	38.5	46.7	50.9	56.1
	Cooling Max current	A	38.6	44.7	50.9	57.1	61.7	83.3	89.4	95.6	101.8
	Heating Rated power input	kW	5.9	8.8	10.3	12.6	14.5	14.7	17.6	19.1	21.4
	Heating Max power input	kW	12.5	14.5	16.5	18.5	20	27	29	31	33
	Heating Rated current	A	16.05	24.25	28.45	34.65	39.85	40.3	48.5	52.7	58.9
	Heating Max current	A	38.6	44.7	50.9	57.1	61.7	83.3	89.4	95.6	101.8
	EER		4.04	3.29	3.35	3.33	3.21	3.59	3.29	3.32	3.32
	COP		4.24	3.58	3.64	3.57	3.45	3.84	3.58	3.61	3.57
Performance	Air flow (H)	m³/h	11100	11100	14100	14100	14100	22200	22200	25200	25200
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60	60	61	61
	Sound power level (H)	dB(A)	73	73	76	76	76	77	77	78	78
Installation	External dimensions (W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	240/255	240/255	368/386	368/386	368/386	480/510	480/510	608/641	608/641
	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	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 INV	1 INV +1 INV	(1 INV) +(1 INV+1 FIX)	(1 INV) +(1 INV+1 FIX)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20	20	20	20
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88
	Refrigerant gas pipe	mm	22.22	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58
	Oil equalization pipe	mm	9.52	9.52	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	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50
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		13	16	19	23	26	29	33	36	39
Working temp.	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21

Model			AV26CMVESA	AV28CMVESA	AV30CMVESA	AV32CMVESA	AV34CMVESA	AV36CMVESA	AV38CMVESA	AV40CMVESA	AV42CMVESA	AV44CMVESA	AV46CMVESA	AV48CMVESA
Combination model			AV10CMVESA	AV14CMVESA	AV14CMVESA	AV16CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA	AV12CMVESA	AV14CMVESA	AV16CMVESA
			AV16CMVESA	AV14CMVESA	AV16CMVESA	AV16CMVESA	AV10CMVESA	AV10CMVESA	AV14CMVESA	AV14CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA
			/	/	/	/	AV14CMVESA	AV16CMVESA	AV14CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA
Capacity	Capacity range	HP	26	28	30	32	34	36	38	40	42	44	46	48
	Cooling	kW	73	80	85	90	96	101	108	113	118	123.5	130	135
	Heating	kW	81.5	90	95	100	108	113	121.5	126.5	131.5	137.5	145	150
Electrical parameters	Power supply	Ph/V/Hz	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60
	Cooling Rated power input	kW	22.5	24	26	28	29	31	32.5	34.5	36.5	38	40	42
	Cooling Max power input	kW	34.5	37	38.5	40	47.5	49	51.5	53	54.5	56.5	58.5	60
	Cooling Rated current	A	62.3	65.5	71.7	77.9	79.5	85.7	88.9	95.1	101.3	105.5	110.7	116.9
	Cooling Max current	A	106.4	114.2	118.8	123.4	146.5	151.1	158.9	163.5	168.1	174.3	180.5	185.1
	Heating Rated power input	kW	23.3	25.2	27.1	29	30.2	32.1	34	35.9	37.8	39.3	41.6	43.5
	Heating Max power input	kW	34.5	37	38.5	40	47.5	49	51.5	53	54.5	56.5	58.5	60
	Heating Rated current	A	64.1	69.3	74.5	79.7	83.2	88.4	93.6	98.8	104.0	108.2	114.4	119.6
	Heating Max current	A	106.4	114.2	118.8	123.4	146.5	151.1	158.9	163.5	168.1	174.3	180.5	185.1
	EER		3.24	3.33	3.27	3.21	3.31	3.26	3.32	3.28	3.23	3.25	3.25	3.21
	COP		3.50	3.57	3.51	3.45	3.58	3.52	3.57	3.52	3.48	3.50	3.49	3.45
Performance	Air flow (H)	m³/h	25200	28200	28200	28200	36300	36300	39300	39300	39300	42300	42300	42300
	Sound pressure level (H)	dB(A)	61	62	62	62	63	63	63	63	63	64	64	64
	Sound power level (H)	dB(A)	78	79	79	79	81	81	81	81	81	82	82	82
Installation	External dimensions (W/D/H)	mm	990/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)	mm	1090/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	608/641	736/772	736/772	736/772	848/896	848/896	976/1027	976/1027	976/1027	1104/1158	1104/1158	1104/1158
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		(1 INV) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20	30	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	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	31.8	31.8	31.8	31.8	31.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	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	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50	50	50	50
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	50-130
	Maximum number of indoor units		43	46	50	53	56	59	63	64	64	64	64	64
Working temp.	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21

* 1 outdoor above 50m,outdoor below 40m.
* 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).

MRVIII-C(T1) 60Hz-460V-3Ph

8/10HP

12/14/16HP

Dual Frequency 60Hz-460V-3Ph
DC Inverter Scroll Compressor & BLDC Fan
5 Basic Modular Units: 8HP, 10HP, 12HP, 14HP, 16HP
Free Combination up to 48HP with Incremental 2HP,
Max. Indoor Units up to 64

Model			AV08GMVESA	AV10GMVESA	AV12GMVESA	AV14GMVESA	AV16GMVESA	AV18GMVESA	AV20GMVESA	AV22GMVESA	AV24GMVESA
Combination model			/	/	/	/	/	AV08GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA
			/	/	/	/	/	AV10GMVESA	AV10GMVESA	AV12GMVESA	AV14GMVESA
			/	/	/	/	/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	14	16	18.0	20.0	22.0	24.0
	Cooling	kW	22.4	28	33.5	40	45	50.4	56.0	61.5	68.0
	Heating	kW	25	31.5	37.5	45	50	56.5	63.0	69.0	76.5
Electrical parameters	Power supply	Ph/V/Hz	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60
	Cooling Rated power input	kW	5.27	7.36	10.00	11.40	13.40	12.63	14.72	17.36	18.76
	Max power input	kW	13.00	15.00	17.00	19.00	20.50	28.00	30.00	32.00	34.00
	Rated current	A	6.96	9.72	13.21	15.06	17.70	16.69	19.45	22.94	24.79
	Max current	A	17.18	19.82	22.46	25.10	27.08	37.00	39.64	42.28	44.92
	Heating Rated power input	kW	5.89	7.97	10.00	11.60	13.50	13.86	15.94	17.97	19.57
	Max power input	kW	10.27	12.40	15.10	17.10	18.30	22.67	24.80	27.50	29.50
	Rated current	A	7.78	10.53	13.21	15.33	17.84	18.31	21.06	23.74	25.86
	Max current	A	13.57	16.38	19.95	22.59	24.18	29.95	32.77	36.33	38.98
	EER		4.25	3.80	3.35	3.51	3.36	3.99	3.80	3.54	3.62
	COP		4.24	3.95	3.75	3.88	3.70	4.08	3.95	3.84	3.91
Performance	Air flow (H)	m³/h	11000	11000	14100	14100	14100	22000	22000	25100	25100
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60	60	61	61
	Sound power level (H)	dB(A)	73	73	76	76	76	77	77	78	78
Installation	External dimensions (W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	(990*1808*750)*2	(990/750/1808)*2	990/750/1808 +1390/750/1808	990/750/1808 +1390/750/1808
	Shipping dimensions (W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	(1090*1990*860)*2	(1090/860/1990)*2	1090/860/1990 +1490/860/1990	1090/860/1990 +1490/860/1990
	Net/Shipping weight	kg	240/255	240/255	368/386	368/386	368/386	240/255+240/255	(240/255)*2	240/255+368/386	240/255+368/386
	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	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV+1 INV	1 INV*2	1 INV +(1 INV +1 FIX)	1 INV +(1 INV +1 FIX)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20	20	20	20
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88
	Refrigerant gas pipe	mm	22.22	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58
	Oil equalization pipe	mm	9.52	9.52	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	300	300
	Max.pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50
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		13	16	19	23	26	26	26	26	26
Working temp.	Cooling	°C	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43
	Heating	°C	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21

Model			AV26GMVESA	AV28GMVESA	AV30GMVESA	AV32GMVESA	AV34GMVESA	AV36GMVESA	AV38GMVESA	AV40GMVESA	AV42GMVESA	AV44GMVESA	AV46GMVESA	AV48GMVESA
Combination model			AV10GMVESA	AV14GMVESA	AV14GMVESA	AV16GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA	AV12GMVESA	AV14GMVESA	AV16GMVESA
			AV16GMVESA	AV14GMVESA	AV16GMVESA	AV16GMVESA	AV10GMVESA	AV10GMVESA	AV14GMVESA	AV14GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA
			/	/	/	/	AV14GMVESA	AV16GMVESA	AV14GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA
Capacity	Capacity range	HP	26.0	28.0	30	32	34	36	38.0	40	42.0	44.0	46.0	48.0
	Cooling	kW	73.0	80.0	85	90	96	101	108.0	113	118.0	123.5	130.0	135.0
	Heating	kW	81.5	90.0	95	100	108	113	121.5	127	131.5	137.5	145.0	150.0
Electrical parameters	Power supply	Ph/V/Hz	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60
	Cooling Rated power input	kW	20.76	22.80	24.80	26.80	26.12	28.12	30.16	32.16	34.16	36.80	38.20	40.20
	Max power input	kW	35.50	38.00	39.50	41.00	49.00	50.50	53.00	54.50	56.00	58.00	60.00	61.50
	Rated current	A	27.43	30.12	32.77	35.41	34.51	37.15	39.85	42.49	45.13	48.62	50.47	53.11
	Max current	A	46.90	50.20	52.18	54.16	64.74	66.72	70.02	72.00	73.98	76.62	79.26	81.24
	Heating Rated power input	kW	21.47	23.20	25.10	27.00	27.54	29.44	31.17	33.07	34.97	37.00	38.60	40.50
	Max power input	kW	30.70	34.20	35.40	36.60	41.90	43.10	46.60	47.80	49.00	51.70	53.70	54.90
	Rated current	A	28.37	30.65	33.16	35.67	36.39	38.90	41.18	43.69	46.20	48.88	51.00	53.51
	Max current	A	40.56	45.19	46.77	48.36	55.36	56.94	61.57	63.15	64.74	68.31	70.95	72.53
	EER		3.52	3.51	3.43	3.36	3.68	3.59	3.58	3.51	3.45	3.36	3.40	3.36
	COP		3.80	3.88	3.78	3.70	3.92	3.84	3.90	3.83	3.76	3.72	3.76	3.70
Performance	Air flow (H)	m³/h	25100	28200.0	28200	28200	36100	36100	39200.0	39200	39200	42300	42300	42300
	Sound pressure level (H)	dB(A)	61	62	62	62	63	63	63	63	63	64	64	64
	Sound power level (H)	dB(A)	78	79	79	79	81	81	81	81	81	82	82	82
Installation	External dimensions (W/D/H)	mm	990/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808	1390/750/1808)*2	990/750/1808*2 +1390/750/1808	(990/750/1808)*2 +(1390/750/1808)	(990/750/1808) +(1390/750/1808) +(1390/750/1808)	(990/750/1808) +(1390/750/1808) +(1390/750/1808)	(990/750/1808) +(1390/750/1808)*2	(1390/750/1808) +(1390/750/1808)*2	(1390/750/1808) +(1390/750/1808)*2	(1390/750/1808)*3
	Shipping dimensions (W/D/H)	mm	1090/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990	1490/860/1990)*2	1090/860/1990*2 +1490/860/1990	(1090/860/1990)*2 +(1490/860/1990)	(1090/860/1990) +(1490/860/1990) +(1490/860/1990)	(1090/860/1990) +(1490/860/1990) +(1490/860/1990)	(1090/860/1990) +(1490/860/1990)*2	(1490/860/1990) +(1490/860/1990)*2	(1490/860/1990) +(1490/860/1990)*2	1490/860/1990)*3
	Net/Shipping weight	kg	240/255+368/386	368/386+368/386	368/386+368/386	(368/386)*2	240/255*2+368/386	240/255*2+368/386	240/255+368/386+368/386	240/255+368/386+368/386	240/255+368/386*2	368/386+368/386*2	368/386+368/386*2	(368/386)*3
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV +(1 INV +1 FIX)	(1 INV +1 FIX) +(1 INV +1 FIX)	(1 INV +1 FIX) +(1 INV +1 FIX)	(1 INV +1 FIX)*2	1 INV*2 +(1 INV +1 FIX)	1 INV*2 +(1 INV +1 FIX)	1 INV +(1 INV +1 FIX) +(1 INV +1 FIX)	1 INV +(1 INV +1 FIX) +(1 INV +1 FIX)	1 INV +(1 INV +1 FIX)*2	(1 INV +1 FIX) +(1 INV +1 FIX)*2	(1 INV +1 FIX) +(1 INV +1 FIX)*2	(1 INV +1 FIX)*3
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20	30	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	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	31.8	31.8	31.8	31.8	31.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	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	300	300	300	300	300
	Max.pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50	50	50	50
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	50-130
	Maximum number of indoor units		26	26	26	26	26	26	26	26	26	26	26	26
Working temp.	Cooling	°C	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43
	Heating	°C	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21

* 1 outdoor above 50m,outdoor below 40m.
* 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).

MRVIII-C(T3) 50/60Hz-380~400v-3Ph

8HP

10/12HP

Dual Frequency 50/60Hz-380~400v-3Ph
DC Inverter Scroll Compressor & BLDC Fan
3 Basic Modular Units: 8HP, 10HP, 12HP
Free Combination up to 36HP with Incremental 2HP,
Max. Indoor Units up to 36
High Ambient Operation up to 52°C

Model				AV08NMVERB	AV10NMVERB	AV12NMVERB	AV16NMVERB	AV18NMVERB	AV20NMVERB		AV22NMVERB	AV24NMVERB	AV26NMVERB	AV28NMVERB	AV30NMVERB	AV32NMVERB	AV34NMVERB	AV36NMVERB
Combination model				/	/	/	AV08NMVERB	AV08NMVERB	AV10NMVERB		AV10NMVERB	AV12NMVERB	AV08NMVERB	AV08NMVERB	AV10NMVERB	AV10NMVERB	AV10NMVERB	AV12NMVERB
				/	/	/	AV08NMVERB	AV10NMVERB	AV10NMVERB		AV12NMVERB	AV12NMVERB	AV08NMVERB	AV08NMVERB	AV10NMVERB	AV10NMVERB	AV12NMVERB	AV12NMVERB
				/	/	/	/	/	/		/	/	AV10NMVERB	AV12NMVERB	AV10NMVERB	AV12NMVERB	AV12NMVERB	AV12NMVERB
Capacity	Capacity range		HP	8	10	12	16	18	20		22	24	26	28	30	32	34	36
	Cooling capacity		kW	22.6	28.0	33.5	45.2	50.6	56		61.5	67.0	73.2	78.7	84.0	89.5	95.0	100.5
	Heating capacity		kW	25.0	31.5	37.5	50.0	56.5	63.0		69.0	75.0	81.5	87.5	94.5	100.5	106.5	112.5
Electrical parameters	Power supply		Ph/V/Hz	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60		3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60
	Cooling	Rated power input	kW	6.28	7.81	9.36	12.6	14.1	15.62		17.2	18.7	20.4	21.9	23.4	25.0	26.5	28.08
		Max. power input	kW	14.7	17.54	20.48	29.4	32.2	35.08		38.0	41.0	46.9	49.9	52.6	55.6	58.5	61.44
		Rated current	A	10.6	13.18	15.8	21.2	23.8	26.36		29.0	31.6	34.4	37.0	39.5	42.2	44.8	47.4
		Max.current	A	23.4	27.9	32.37	46.8	51.3	55.8		60.3	64.7	74.7	79.2	83.7	88.2	92.6	97.11
	Heating	Rated power input	kW	5.98	7.51	9.11	12.0	13.49	15.02		16.6	18.2	19.5	21.1	22.5	24.1	25.7	27.33
		Max. power input	kW	11.9	14.6	17.8	23.8	26.5	29.2		32.4	35.6	38.4	41.6	43.8	47.0	50.2	53.4
		Rated current	A	10.1	12.68	15.38	20.2	22.8	25.36		28.1	30.8	32.9	35.6	38.0	40.7	43.4	46.14
		Max.current	A	19	23.3	28.4	38.0	42.3	46.6		51.7	56.8	61.3	66.4	69.9	75.0	80.1	85.2
	EER			3.60	3.59	3.58	3.60	3.59	3.59		3.58	3.58	3.59	3.59	3.59	3.58	3.58	3.58
	COP			4.18	4.19	4.12	4.18	4.19	4.19		4.15	4.12	4.19	4.15	4.19	4.16	4.14	4.12
Performance	Air flow (H)		m^3/h	11000	14100	14100	22000.0	25100.0	28200		28200.0	28200.0	36100.0	36100.0	42300.0	42300.0	42300.0	42300
	Sound pressure level (H)		dB(A)	60	65	65	63	66	68		68	68	67	67	70	70	70	70
	Sound power level (H)		dB(A)	76	81	81	80	83	85		85	85	85	85	88	88	88	88
Installation	External dimensions(W/D/H)		mm	990/750/1808	1390/750/1808	1390/750/1808	990/750/1808 +990/750/1808	990/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808		1390/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808	990/750/1808 +990/750/1808 +1390/750/1808	990/750/1808 +990/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808 +1390/750/1808	1390/750/1808 +1390/750/1808 +1390/750/1808
	Shipping dimensions(W/D/H)		mm	1090/860/1990	1490/860/1990	1490/860/1990	1090/860/1990 +1090/860/1990	1090/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990		1490/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990	1090/860/1990 +1090/860/1990 +1490/860/1990	1090/860/1990 +1090/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990 +1490/860/1990	1490/860/1990 +1490/860/1990 +1490/860/1990
	Net/Shipping weight		kg	240/255	360/378	368/386	480/510	600/633	720/756		728/764	736/772	840/888	848/896	1080/1134	1088/1142	1096/1150	1104/1158
	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	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor quantity			1 INV	1 INV +1 FIX	1 INV +1 FIX	2 INV	2 INV +1 FIX	2 INV +2 FIX		2 INV +2 FIX	2 INV +2 FIX	3 INV +1 FIX	3 INV +1 FIX	3 INV +3 FIX	3 INV +3 FIX	3 INV +3 FIX	3 INV +3 FIX
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	10	10	10	20	20	20		20.0	20.0	30.0	30.0	30.0	30.0	30.0	30
	Refrigerant liquid pipe		mm	9.52	12.7	12.7	15.88	15.88	15.88		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	22.22	25.4	28.58	28.58	28.58	28.58		31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	9.52		9.52	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	300	300	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)		m	175/150	175/150	175/150	175/150	175/150	175/150		175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U		m	50/40	50/40	50/40	50/40	50/40	50/40		50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure		Pa	50	50	50	50	50	50		50	50	50	50	50	50	50	50
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	50-130	50-130	50-130
	Maximum number of indoor units			10	13	16	20	20	24		24	28	28	28	32	32	36	36
Working temp.	Cooling		°C	-5-52	-5-52	-5-52	-5-52	-5-52	-5-52		-5-52	-5-52	-5-52	-5-52	-5-52	-5-52	-5-52	-5-52
	Heating		°C	-15-15.5	-15-15.5	-15-15.5	-15-15.5	-15-15.5	-15-15.5		-15-15.5	-15-15.5	-15-15.5	-15-15.5	-15-15.5	-15-15.5	-15-15.5	-15-15.5

* 1.outdoor above 50m,outdoor below 40m.
* 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).

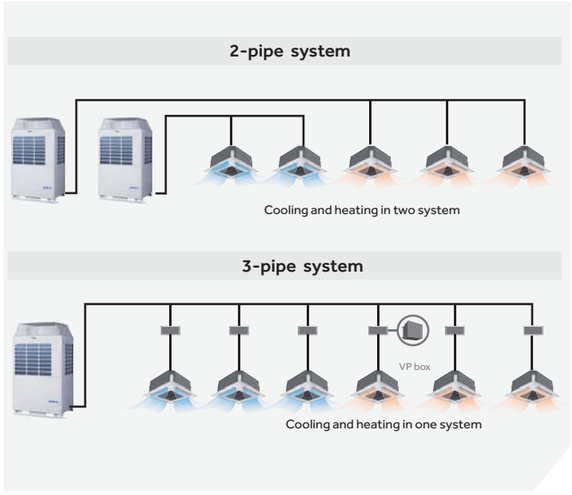
MRV III-RC

FEATURES & BENEFITS

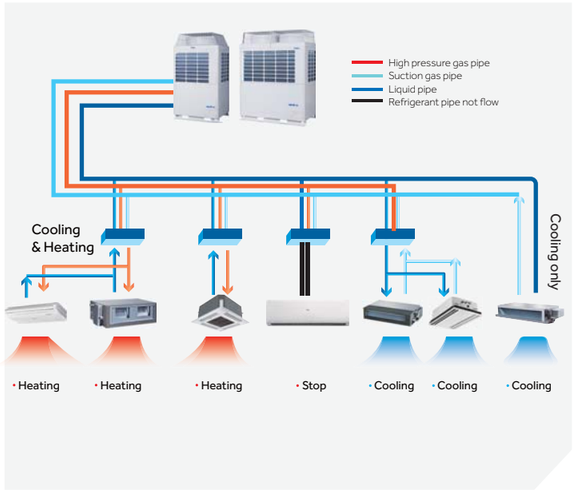
System Introduction

What is MRVIII-RC

•Cooling and heating simultaneously with only one outdoor unit
•Heat recovery system

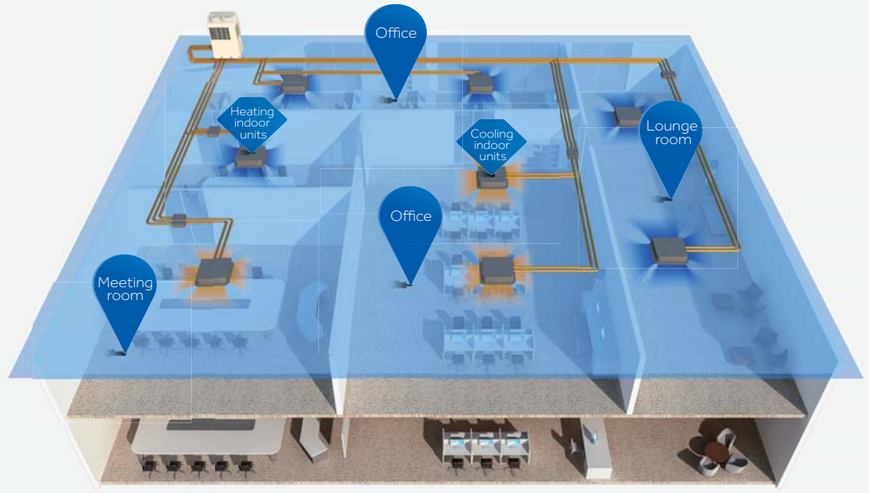


Variable operation mode in one system



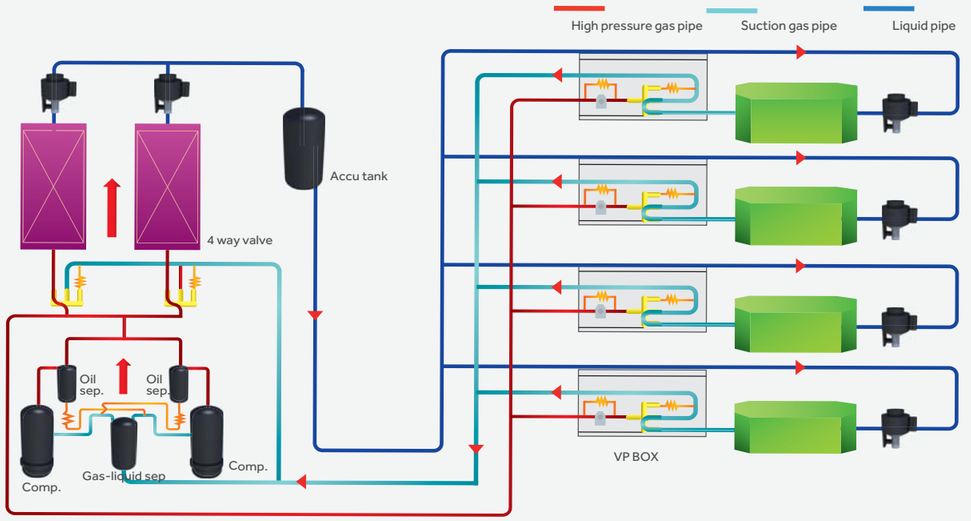
System Introduction

Typical 3 pipe system



All cooling circuit

•12/14/16HP double compressor module for example

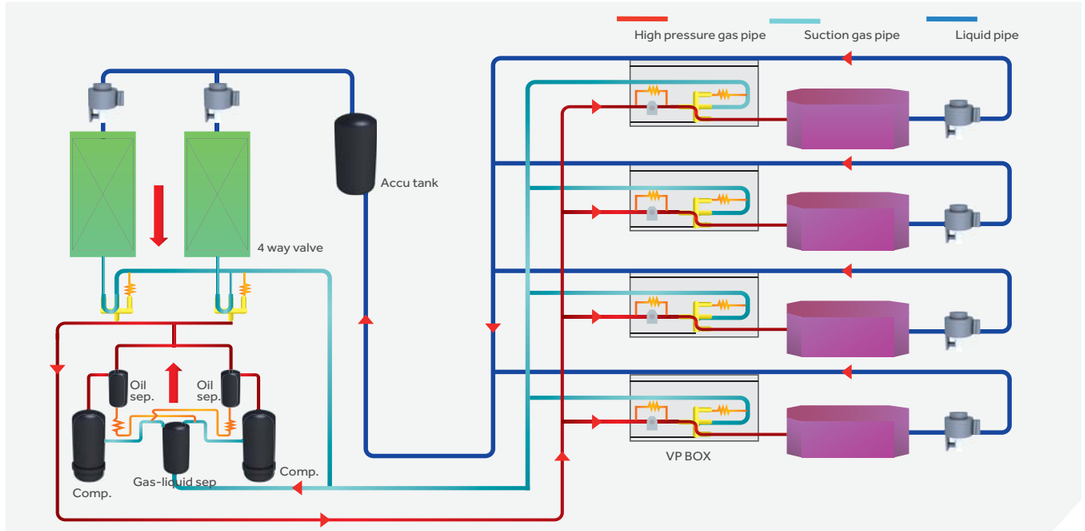


FEATURES & BENEFITS

System Introduction

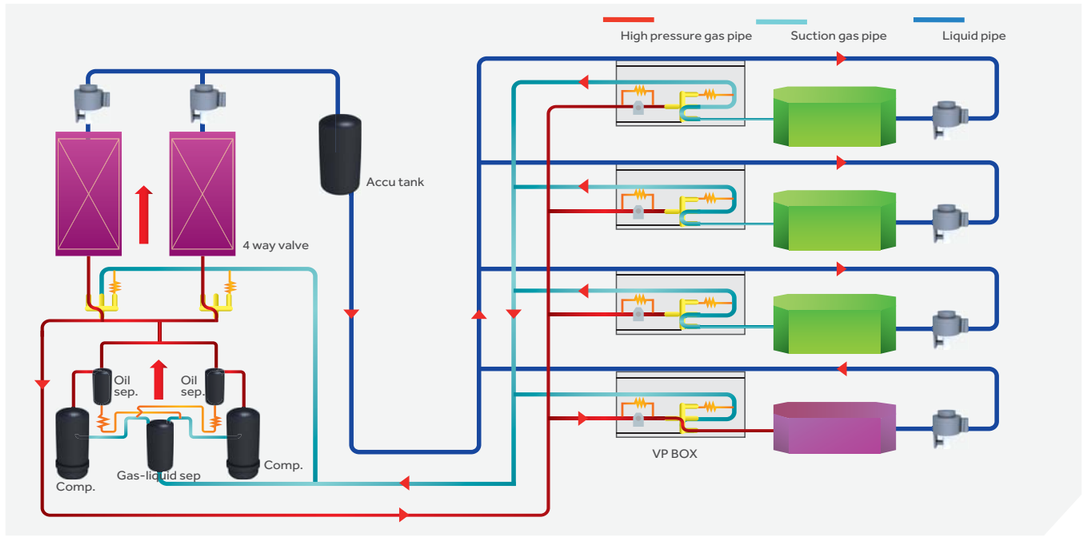
All heating circuit

•12/14/16HP double compressor module for example



Cooling > heating circuit

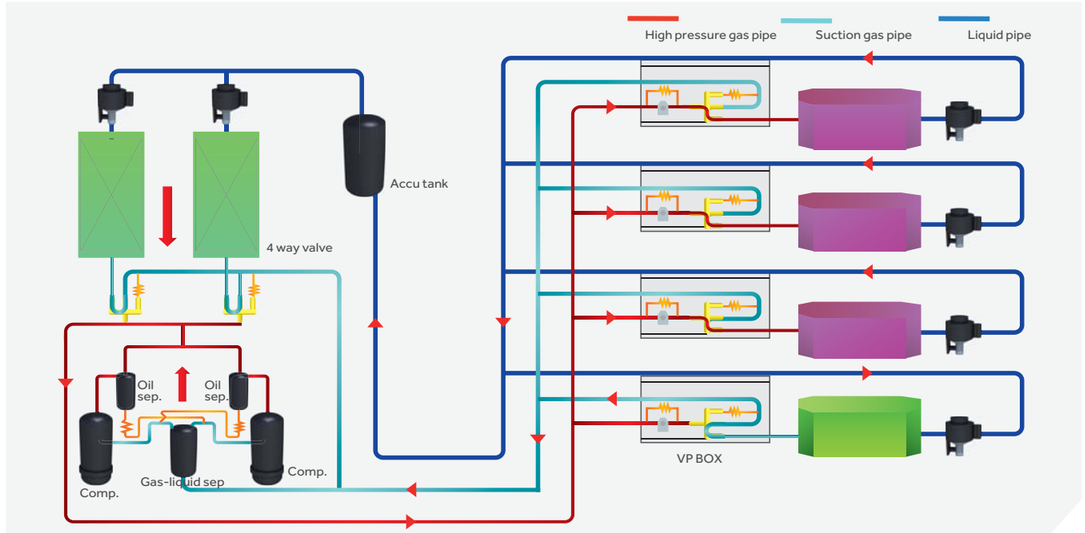
•12/14/16HP double compressor module for example



System Introduction

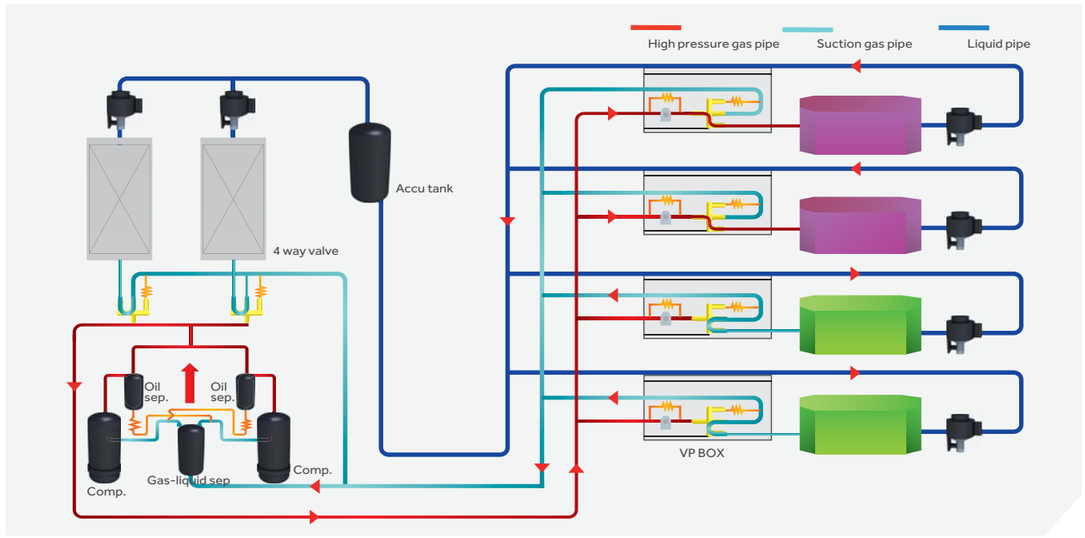
Cooling < heating circuit

•12/14/16HP double compressor module for example



Cooling = heating circuit

•12/14/16HP double compressor module for example

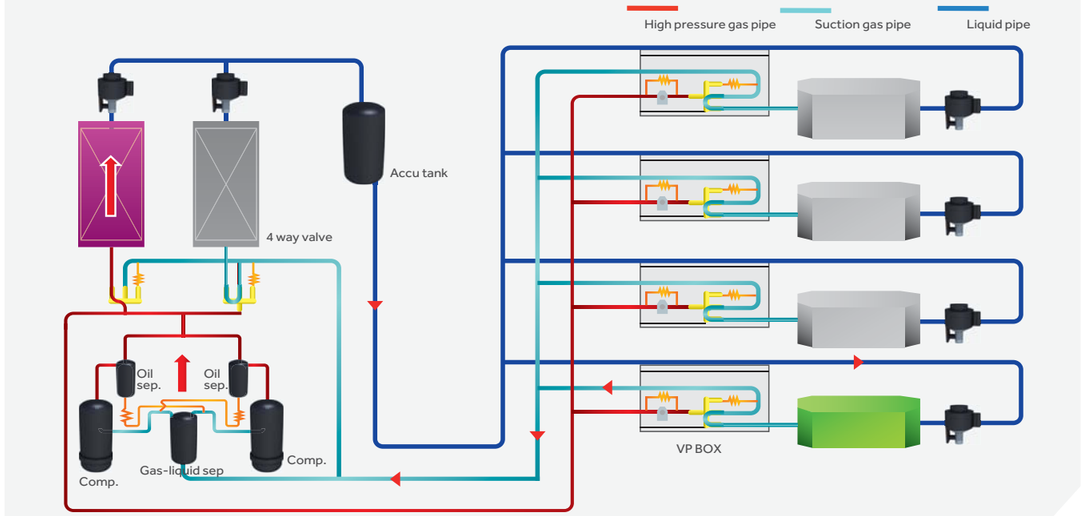


FEATURES & BENEFITS

System Introduction

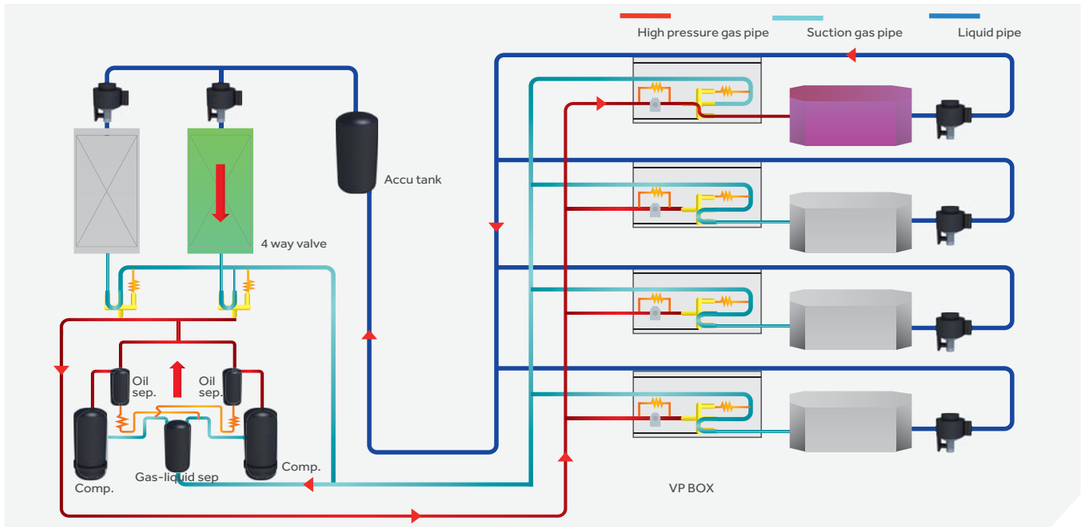
Light part load cooling

•12/14/16HP double compressor module for example, little indoor heating, others off



Light part load heating

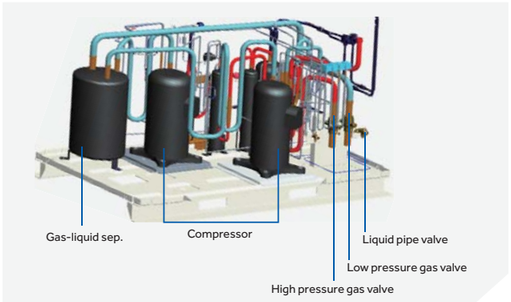
•12/14/16HP double compressor module for example, little indoor heating, others off



Outdoor Structure

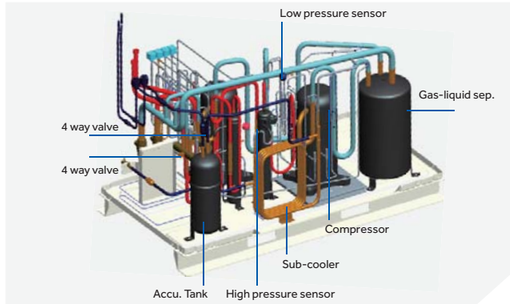
Inner system

Core Parts: For 12/14/16 Single Module



Inner system

Core Parts: For 12/14/16 Single Module



User friendly outdoor structure

Core Technologies and Parts

Patent fan design and DC fan motor

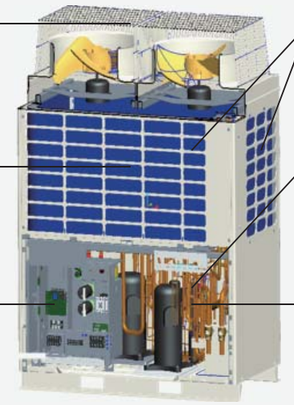
•Air flow improved by 17.5% with patent fan design
•Noise reduced 3 dB(A) with DC fan motor

2 stages heat exchanger

Separate control and heat exchanger size can be adjusted, effectively cope with small load operation, to ensure reliable operation

Forced heat dissipation fan

Forced heat dissipation fan inside the electric control box, to ensure the stable Internal temperature and stable system operation



4 way air return

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

Double EEV design

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

DC Inverter scroll Compressor

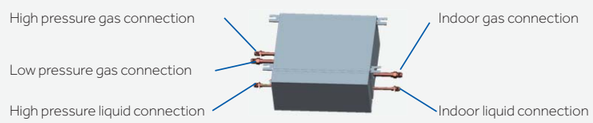
•DC inverter scroll compressor from Mitsubishi electric
•For big module, also with another fixed-speed compressor from mitsubishi electric

Vp (valve pipe) box structure

Overview

Individual Valve + Pipe Box for Heat Recovery

•High comfort: Individual control box and change over for one group indoor units
•Super slim built-in height: only 180mm
•Threaded joint connection, easy for installation



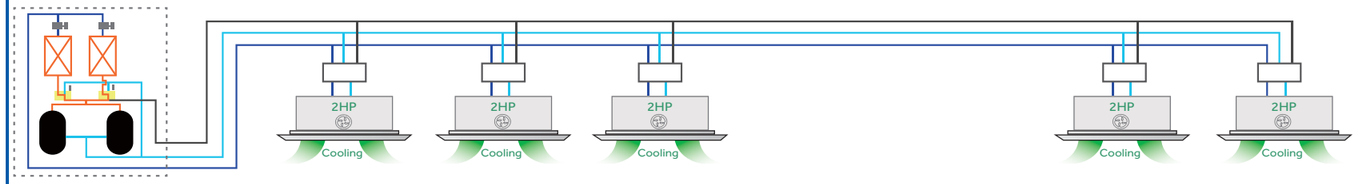
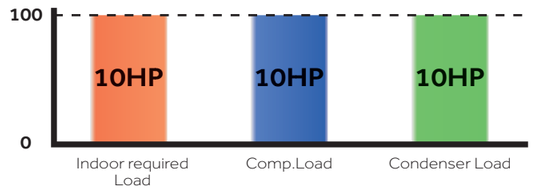
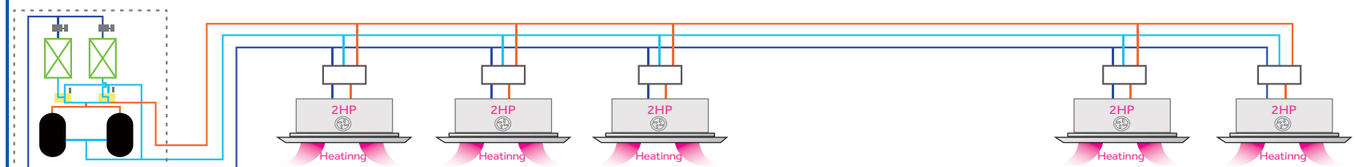
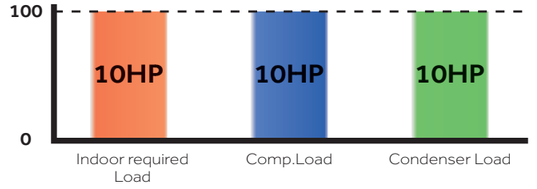
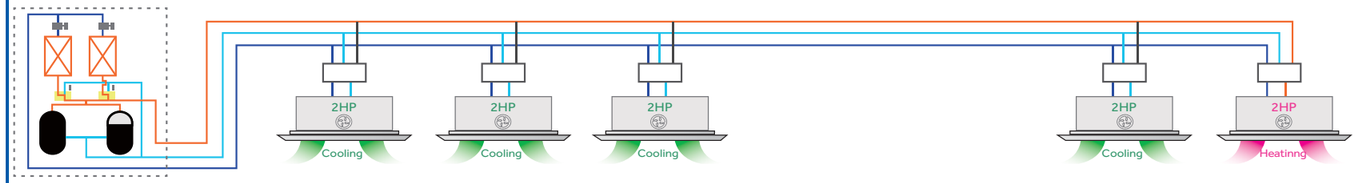
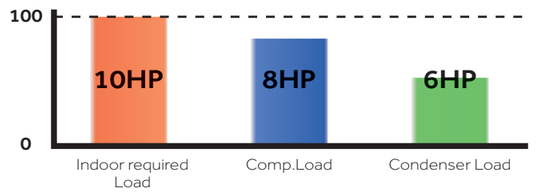
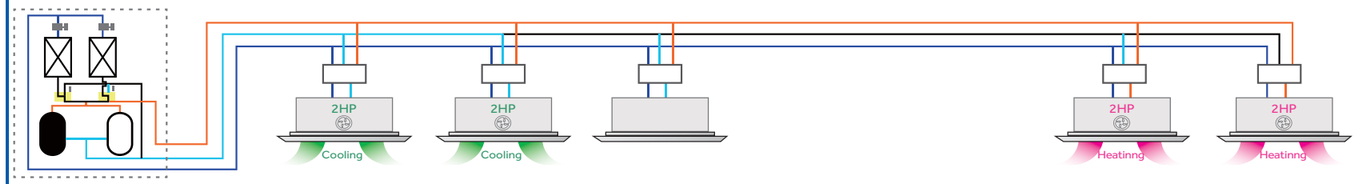
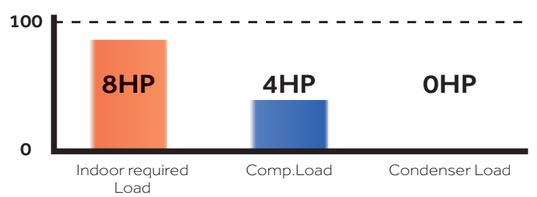
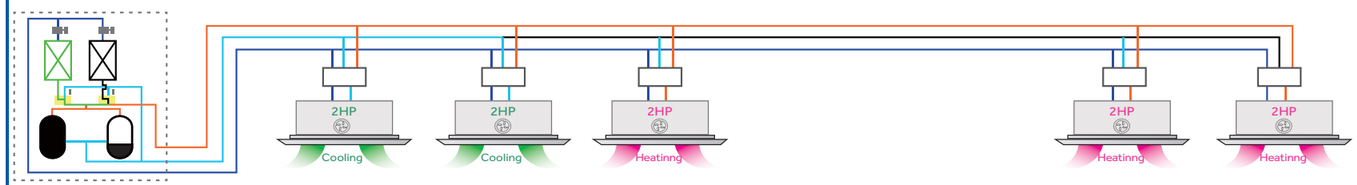
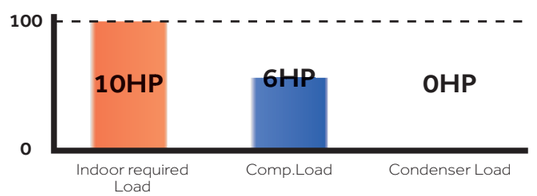
Model name	Max.capacity of indoor(kw)	Power Supply	Max. indoor units	Dimension
VP1-112A	x≤11.2	1/220~240/50/60	5	400/365/180
VP1-180A	11.2<x≤18	1/220~240/50/60	8	400/365/180
VP1-280A	18<x≤28	1/220~240/50/60	8	400/365/180

FEATURES & BENEFITS

System Introduction

Typical 3 pipe system

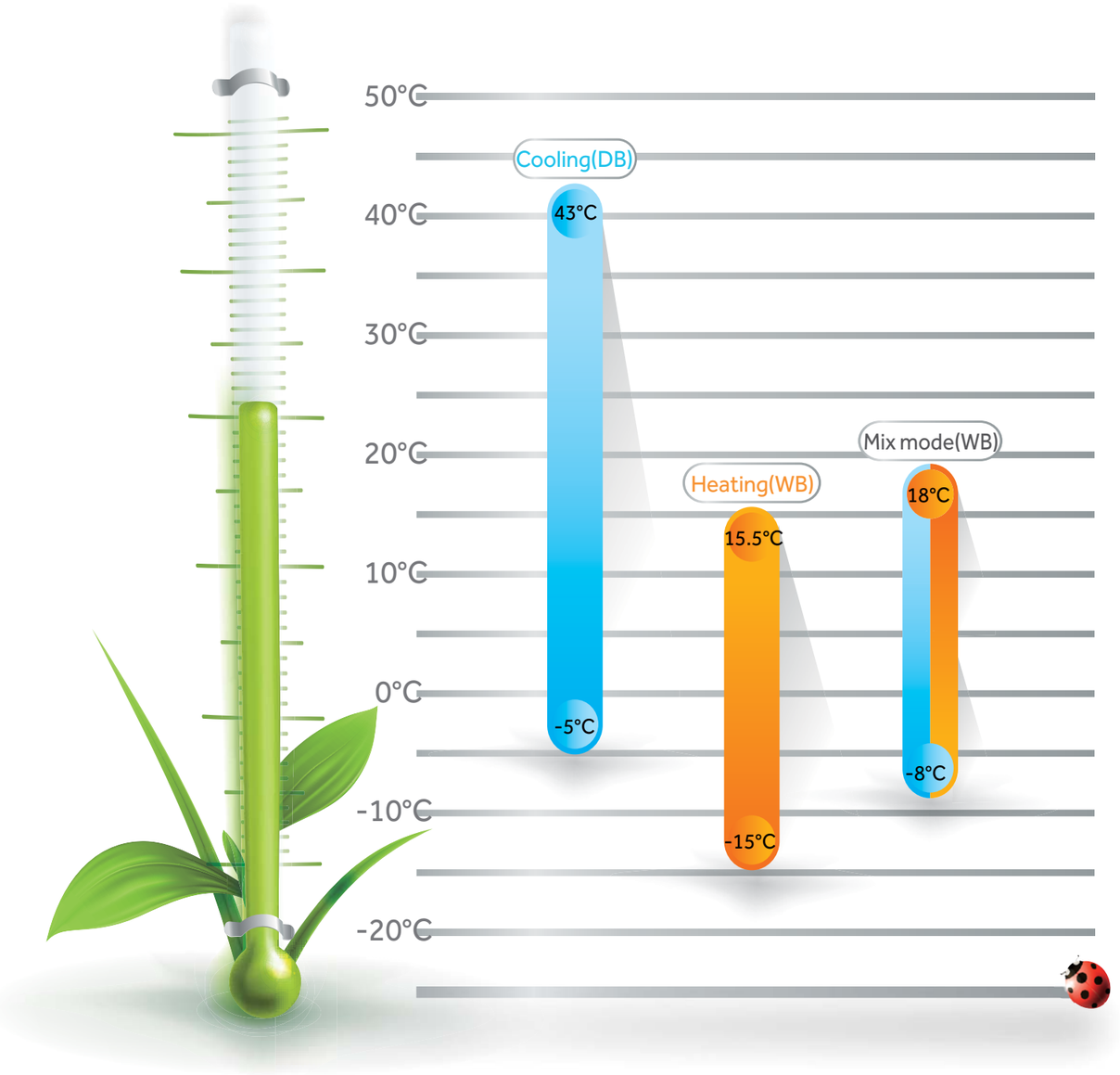
The heat discharged from outdoor unit can be used to cooling Indoor units. It can save energy above 30% averagely

Mode	Heat Recovery system operation	Part Load	Energy Saving
Cooling only (10HP outdoor each indoor 2HP)			0%
Heating only (10HP outdoor)			0%
Cooling>Heatinng			20%
Cooling=Heatinng			50%
Cooling<Heatinng			40%

FEATURES & BENEFITS

System Introduction

Wide temperature operation range



MRV III-RC (HEAT RECOVERY)

8/10HP

12/14/16HP

Power Supply: 3/380~400/50/60
DC Inverter Scroll Compressor & BLDC Fan
5 Basic Single Modular Units: 8HP, 10HP, 12HP, 14HP, 16HP
Max. 3 Modules Combination up to 48HP,
Max Connected Indoor Units up to 64 .
Compatible with all the MRV Indoor Units

DC motor | High performance compressor | DC INVERTER 180° sine wave | Super quiet | Quiet operation | 3 min 3 minutes protection | -15°C HEATING Lowambient heating | -5°C Lowambient cooling | Blue Blue fin

Model		Unit	AV08IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA	AV18IMVUSA	AV20IMVUSA	AV22IMVUSA	AV24IMVUSA
Combination model			/	/	/	/	/	AV08IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA
			/	/	/	/	/	AV10IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA
			/	/	/	/	/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	14	16	18	20	22	24
	Cooling	kW	22.4	28	33.5	40	45	50.4	56	61.5	68
	Heating	kW	25	31.5	37.5	45	50	56.5	63	69	76.5
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling Rated power input	kW	5.81	7.55	9.18	12.3	14.1	13.36	15.1	16.73	19.85
	Cooling Max power input	kW	12.37	14.7	17.54	18.55	20.48	27.07	29.4	32.24	33.25
	Cooling Rated current	A	9.49	12.33	15.00	20.10	23.04	21.83	24.67	27.33	32.43
	Cooling Max current	A	19.85	23.4	27.9	29.5	32.37	43.25	46.8	51.3	52.9
	Heating Rated power input	kW	6.1	7.97	9.15	11.1	13.5	14.07	15.94	17.12	19.07
	Heating Max power input	kW	9.77	11.9	14.6	16.6	17.8	21.67	23.8	26.5	28.5
	Heating Rated current	A	9.97	13.02	14.95	18.13	22.06	22.99	26.04	27.97	31.16
	Heating Max current	A	15.7	19	23.3	26.5	28.4	34.7	38	42.3	45.5
	EER		3.86	3.71	3.65	3.25	3.19	3.77	3.71	3.68	3.43
	COP		4.10	3.95	4.10	4.05	3.70	4.02	3.95	4.03	4.01
Performance	Air flow (H)	m³/h	11100	11100	14100	14100	14100	22200	22200	25200	25200
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60	60	61	61
	Sound power level (H)	dB(A)	73	73	76	76	76	77	77	78	78
Installation	External dimensions (W/D/H)	mm	990/750/1808	990/750/1808	1390/1808/750	1390/1808/750	1390/1808/750	990/750/1808+ 990/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)	mm	1090/860/1990	1090/860/1990	1490/1990/860	1490/1990/860	1490/1990/860	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	240/268	240/268	368/393	368/393	368/393	480/536	480/536	608/661	608/641
	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	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 INV	1 INV +1 INV	(1 INV) +(1 INV+1 FIX)	(1 INV) +(1 INV+1 FIX)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20	20	20	20
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58
	Gas pipe	mm	19.05	19.05	22.22	22.22	22.22	25.4	25.4	25.4	25.4
	Oil equalization pipe	mm	9.52	9.52	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	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50
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		13	16	19	23	26	29	33	36	39
Working temp.	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5
	Cooling & Heating	°C	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18

Model		Unit	AV26IMVUSA	AV28IMVUSA	AV30IMVUSA	AV32IMVUSA	AV34IMVUSA	AV36IMVUSA	AV38IMVUSA	AV40IMVUSA	AV42IMVUSA	AV44IMVUSA	AV46IMVUSA	AV48IMVUSA
Combination model			AV10IMVUSA	AV14IMVUSA	AV14IMVUSA	AV16IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA
			AV16IMVUSA	AV14IMVUSA	AV16IMVUSA	AV16IMVUSA	AV10IMVUSA	AV10IMVUSA	AV14IMVUSA	AV14IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA
			/	/	/	/	AV14IMVUSA	AV16IMVUSA	AV14IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA
Capacity	Capacity range	HP	26	28	30	32	34	36	38	40	42	44	46	48
	Cooling	kW	73	80	85	90	96	101	106.5	113	118	123.5	130	135
	Heating	kW	81.5	90	95	100	108	113	119	126.5	131.5	137.5	145	150
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling Rated power input	kW	21.65	24.6	26.4	28.2	27.4	29.2	30.83	33.95	35.75	37.38	40.5	42.3
	Cooling Max power input	kW	35.18	37.1	39.03	40.96	47.95	49.88	52.72	53.73	55.66	58.5	59.51	61.44
	Cooling Rated current	A	35.37	40.19	43.13	46.07	44.76	47.71	50.37	55.47	58.41	61.07	66.17	69.11
	Cooling Max current	A	55.77	59	61.87	64.74	76.3	79.17	83.67	85.27	88.14	92.64	94.24	97.11
	Heating Rated power input	kW	21.47	22.2	24.6	27	27.04	29.44	30.62	32.57	34.97	36.15	38.1	40.5
	Heating Max power input	kW	29.7	33.2	34.4	35.6	40.4	41.6	44.3	46.3	47.5	50.2	52.2	53.4
	Heating Rated current	A	35.08	36.27	40.19	44.11	44.18	48.10	50.03	53.21	57.13	59.06	62.25	66.17
	Heating Max current	A	47.4	53	54.9	56.8	64.5	66.4	70.7	73.9	75.8	80.1	83.3	85.2
	EER		3.37	3.25	3.22	3.19	3.50	3.46	3.45	3.33	3.30	3.30	3.21	3.19
	COP		3.80	4.05	3.86	3.70	3.99	3.84	3.89	3.88	3.76	3.80	3.81	3.70
Performance	Air flow (H)	m³/h	25200	28200	28200	28200	36300	36300	39300	39300	39300	42300	42300	42300
	Sound pressure level (H)	dB(A)	61	62	62	62	63	63	63	63	63	64	64	64
	Sound power level (H)	dB(A)	78	79	79	79	81	81	81	81	81	82	82	82
Installation	External dimensions (W/D/H)	mm	990/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)	mm	1090/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	608/641	736/786	736/786	736/786	848/929	848/929	976/1054	976/1054	976/1054	1104/1179	1104/1179	1104/1179
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		(1 INV) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20	30	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	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	31.8	31.8	31.8	31.8	34.9	34.9	38.1	38.1	38.1	38.1	38.1	38.1
	Gas pipe	mm	28.58	28.58	28.58	28.58	28.58	28.58	31.8	31.8	31.8	31.8	31.8	31.8
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	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	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50	50	50	50
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	50~130
	Maximum number of indoor units		43	46	50	53	56	59	63	64	64	64	64	64
Working temp.	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5
	Cooling & Heating	°C	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18

* 1 outdoor above 50m,outdoor below 40m.
* 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).
* The specification may change according to the further product developement

MRV III-RC (HEAT RECOVERY)

8/10HP

12/14/16HP

DC motor | High performance compressor | DC INVERTER 180° sine wave | Super quiet | Quiet operation | 3 min 3 minutes protection | -15°C HEATING Lowambient heating | -5°C Lowambient cooling | Blue Blue fin

Model		Unit	AV08CMVUSA	AV10CMVUSA	AV12CMVUSA	AV14CMVUSA	AV16CMVUSA	AV18CMVUSA	AV20CMVUSA	AV22CMVUSA	AV24CMVUSA
Combination model			/	/	/	/	/	AV08CMVUVA	AV10CMVUVA	AV10CMVUVA	AV10CMVUVA
			/	/	/	/	/	AV10CMVUVA	AV10CMVUVA	AV12CMVUVA	AV14CMVUVA
			/	/	/	/	/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	14	16	18	20	22	24
	Cooling	kW	22.4	28	33.5	40	45	50.4	56	61.5	68
	Heating	kW	25	31.5	37.5	45	50	56.5	63	69	76.5
Electrical parameters	Power supply	Ph/V/Hz	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60
	Cooling Rated power input	kW	5.81	7.55	9.18	12.3	14.1	13.36	15.1	16.73	19.85
	Cooling Max power input	kW	12.5	14.5	16.5	18.5	20	27	29	31	33
	Cooling Rated current	A	16.40	21.31	25.91	34.71	39.79	37.70	42.61	47.21	56.02
	Cooling Max current	A	38.6	44.7	50.9	57.1	61.7	83.3	89.4	95.6	101.8
	Heating Rated power input	kW	6.1	7.97	9.15	11.1	13.5	14.07	15.94	17.12	19.07
	Heating Max power input	kW	12.5	14.5	16.5	18.5	20	27	29	31	33
	Heating Rated current	A	17.21	22.49	25.82	31.32	38.10	39.70	44.98	48.31	53.81
	Heating Max current	A	38.6	44.7	50.9	57.1	61.7	83.3	89.4	95.6	101.8
	EER		3.86	3.71	3.65	3.25	3.19	3.77	3.71	3.68	3.43
	COP		4.10	3.95	4.10	4.05	3.70	4.02	3.95	4.03	4.01
Performance	Air flow (H)	m^3/h	11100	11100	14100	14100	14100	22200	22200	25200	25200
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60	60	61	61
	Sound power level (H)	dB(A)	73	73	76	76	76	77	77	78	78
Installation	External dimensions (W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	240/268	240/268	368/393	368/393	368/393	480/536	480/536	608/661	608/641
	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	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 INV	1 INV +1 INV	(1 INV) +(1 INV+1 FIX)	(1 INV) +(1 INV+1 FIX)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20	20	20	20
	Refrigerant liquid pipe	mm	9.52	9.52	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Refrigerant gas pipe	mm	19.05	22.22	25.40	25.40	28.58	28.58	28.58	28.58	28.58
	Gas pipe	mm	19.05	19.05	22.22	22.22	22.22	25.40	25.40	25.40	25.40
	Oil equalization pipe	mm	9.52	9.52	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	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50
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		13	16	19	23	26	29	33	36	39
Working temp.	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5
	Cooling & Heating	°C	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18

Model		Unit	AV26CMVUSA	AV28CMVUSA	AV30CMVUSA	AV32CMVUSA	AV34CMVUSA	AV36CMVUSA	AV38CMVUSA	AV40CMVUSA	AV42CMVUSA	AV44CMVUSA	AV46CMVUSA	AV48CMVUSA
Combination model			AV10CMVUVA	AV14CMVUVA	AV14CMVUVA	AV16CMVUVA	AV10CMVUVA	AV10CMVUVA	AV10CMVUVA	AV10CMVUVA	AV10CMVUVA	AV12CMVUVA	AV14CMVUVA	AV16CMVUVA
			AV16CMVUVA	AV14CMVUVA	AV16CMVUVA	AV16CMVUVA	AV10CMVUVA	AV10CMVUVA	AV14CMVUVA	AV14CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA
			/	/	/	/	AV14CMVUVA	AV16CMVUVA	AV14CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA
Capacity	Capacity range	HP	26	28	30	32	34	36	38	40	42	44	46	48
	Cooling	kW	73	80	85	90	96	101	106.5	113	118	123.5	130	135
	Heating	kW	81.5	90	95	100	108	113	119	126.5	131.5	137.5	145	150
Electrical parameters	Power supply	Ph/V/Hz	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60
	Cooling Rated power input	kW	21.65	24.6	26.4	28.2	27.4	29.2	30.83	33.95	35.75	37.38	40.5	42.3
	Cooling Max power input	kW	34.5	37	38.5	40	47.5	49	51	53	54.5	56.5	58.5	60
	Cooling Rated current	A	61.09	69.42	74.50	79.58	77.32	82.40	87.00	95.80	100.88	105.48	114.29	119.37
	Cooling Max current	A	106.4	114.2	118.8	123.4	146.5	151.1	157.3	163.5	168.1	174.3	180.5	185.1
	Heating Rated power input	kW	21.47	22.2	24.6	27	27.04	29.44	30.62	32.57	34.97	36.15	38.1	40.5
	Heating Max power input	kW	34.5	37	38.5	40	47.5	49	51	53	54.5	56.5	58.5	60
	Heating Rated current	A	60.59	62.65	69.42	76.19	76.31	83.08	86.41	91.91	98.68	102.01	107.52	114.29
	Heating Max current	A	106.4	114.2	118.8	123.4	146.5	151.1	157.3	163.5	168.1	174.3	180.5	185.1
	EER		3.37	3.25	3.22	3.19	3.50	3.46	3.45	3.33	3.30	3.30	3.21	3.19
	COP		3.80	4.05	3.86	3.70	3.99	3.84	3.89	3.88	3.76	3.80	3.81	3.70
Performance	Air flow (H)	m^3/h	25200	28200	28200	28200	36300	36300	39300	39300	39300	42300	42300	42300
	Sound pressure level (H)	dB(A)	61	62	62	62	63	63	63	63	63	64	64	64
	Sound power level (H)	dB(A)	78	79	79	79	81	81	81	81	81	82	82	82
Installation	External dimensions (W/D/H)	mm	990/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808
	Shipping dimensions (W/D/H)	mm	1090/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	608/641	736/786	736/786	736/786	848/929	848/929	976/1054	976/1054	976/1054	1104/1179	1104/1179	1104/1179
	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	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	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		(1 INV) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +1 INV +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)	(1 INV+1 FIX) +(1 INV+1 FIX) +(1 INV+1 FIX)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	20	20	30	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	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	31.80	31.80	31.80	31.80	34.90	34.90	38.10	38.10	38.10	38.10	38.10	38.10
	Gas pipe	mm	28.58	28.58	28.58	28.58	28.58	28.58	31.80	31.80	31.80	31.80	31.80	31.80
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	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	300	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50	50	50	50	50	50	50	50
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	50~130
	Maximum number of indoor units		43	46	50	53	56	59	63	64	64	64	64	64
Working temp.	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5	-15~15.5
	Cooling & Heating	°C	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18

* 1 outdoor above 50m,outdoor below 40m.
* 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).
* The specification may change according to the further product developement

MRV S

MRV S^{II} (4/5/6HP)

New platform, new outlook

Spiral air outlet grill
Better outlook and lower noise

Built- in stop valve
Better outlook and easier to install

Round corner
Better outlook & safer

High energy efficiency

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

2 DC fan motor and 550mm big fan
38% power input lower and 8% airflow higher

3 Larger heat exchanger
Heat exchange area rise 10 % . (14kw)

4 Ball valve
0 pressure loss when refrigerant goes through the valve .
capacity rise 0.5% with same power input

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

Comfort

6 New aerodynamics fan
550mm super big diameter aerospace helix fan.
lowering sound level 3 dB(A)

7 Enlarged air inlet path and spiral air outlet path
Air flow direction follows the grill direction .
lowering sound level 2-4 dB(A)

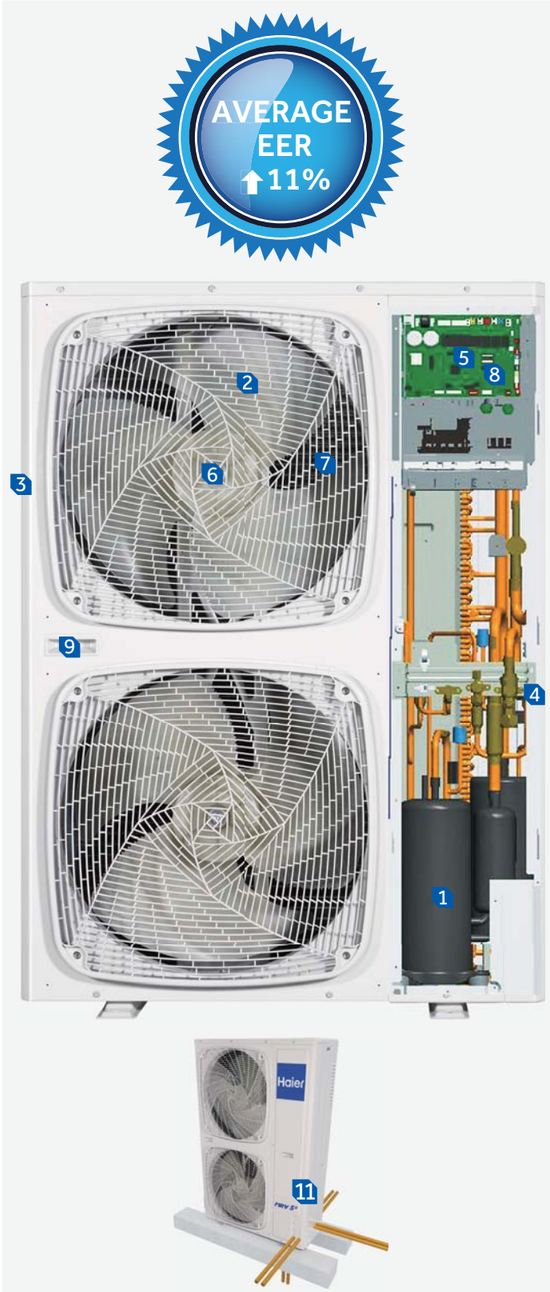
8 Automatic sound-lowering programme
Night mode set by PCB, 8dB(A) lower

Convenience

9 Double side “4 ” handles
Easy to carry

10 “888” test panel
All running data & error code can be checked from "888" screen, which is easy for installers

11 “Four-way” pipe connection
4-way (front,back,left & right) pipe connection, easy to design and install



MRV S^{II} (8/10/12HP)

Outdoor Structure (8/10/12HP Side Discharge)

Bigger Outdoor Capacity, More Flexible Application

Twin rotary DC Inverter compressor

- High chamber DC INVERTER twin rotary compressor
- Small vibration, low noise, high energy efficiency

Double pressure sensor

- Equipped with high and low voltage Pressure double sensors
- Accurate Pressure control, the system run more smoothly, more energy efficiency

Large diameter fan

- 570mm 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 Ø8 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

High efficiency DC fan motor

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

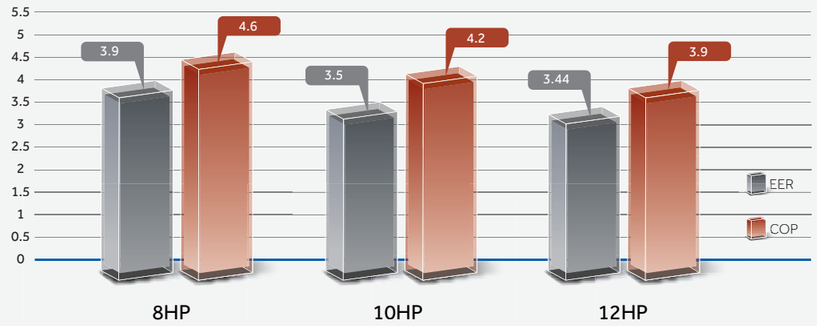
1 Energy Efficiency

2 Comfort Environment

3 Side Discharge and Compact Design

4 High Reliability

High EER and COP



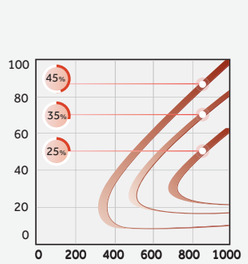
DC Fan and Fan Motor

DC inverter fan motor more higher efficiency in part load running

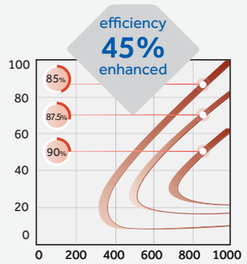
- 16-stage speed control; high efficiency running especially in low speed
- Efficiency increase 45% comparing with AC motor and power input largely decrease

Big diameter fan

- 570mm big diameter fan, more big air flow and more higher efficiency



AC motor efficiency



DC motor efficiency

DC motor

Ø570mm fan

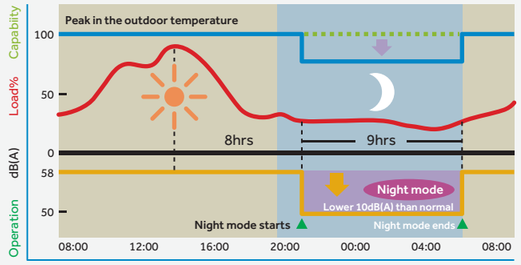
MRV S^{II} (8/10/12HP)

Energy Efficiency

Low noise level

Night Quiet Operation Function

Noise can be reduced to 45dB(A)



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

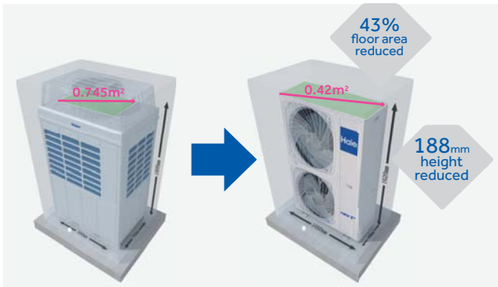
Easy installation

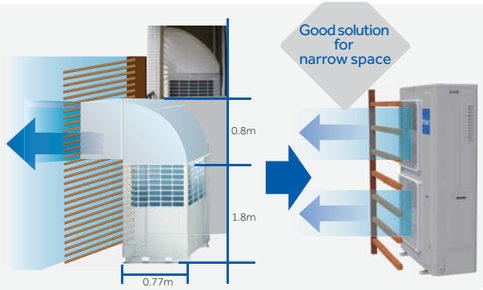
Compact Side Discharge Design, Big Capacity, Small Floor Area

Small floor area, only 0.42m², 43% floor area can be reduced

Compact Side Discharge Design

No need additional ventilation hood comparing with top discharge unit





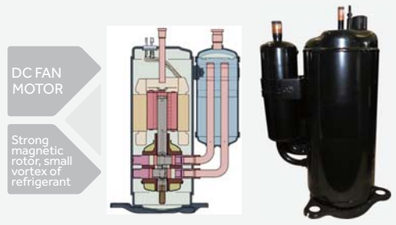
Easy installation

4 Way pipe connection

Front, rear, right, down 4 way pipe connection, flexible installation

New DC inverter twin rotary compressor

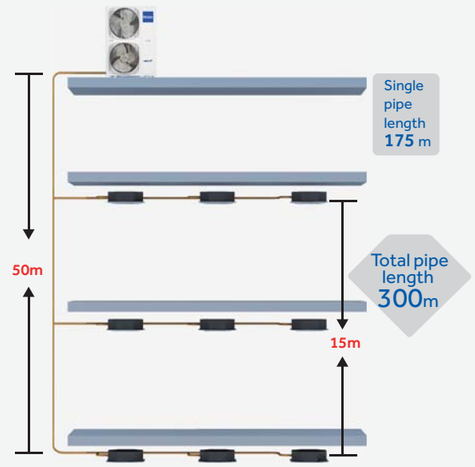
- Small torque change, good dynamic balance, the system runs stably, little vibration, low noise, high efficiency
- More higher efficiency in part load running



Easy Installation

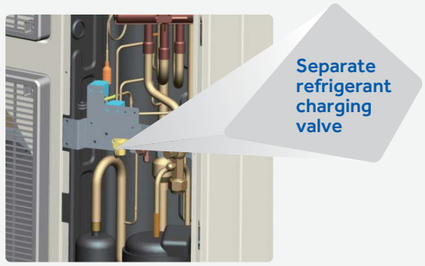
Long pipe length, high height drop

- 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



Separate refrigerant charging valve

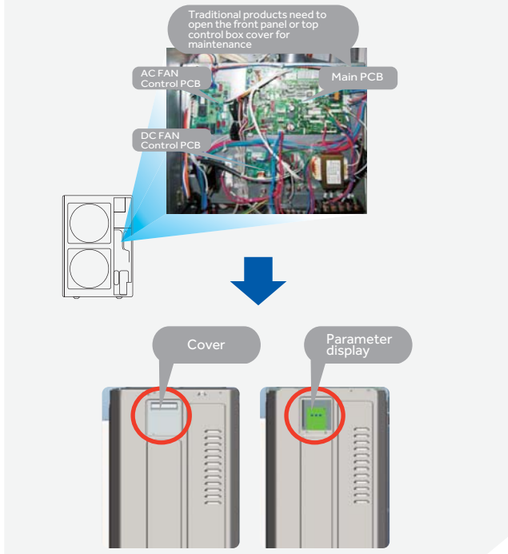
Easy for refrigerant charging



Easy Service

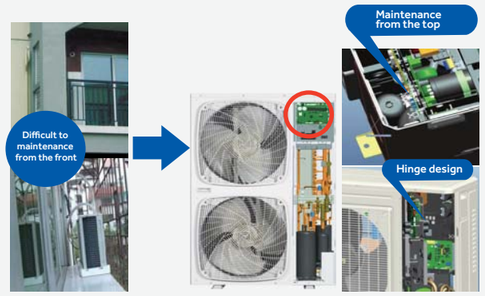
Parameter display panel

- 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

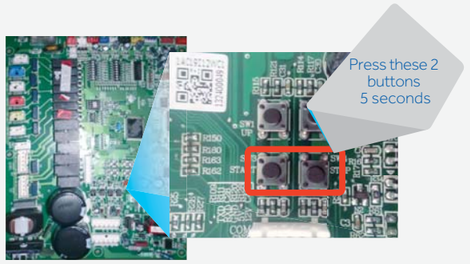


FEATURES & BENEFITS

High Reliability

Refrigerant automatically reclaim Technology

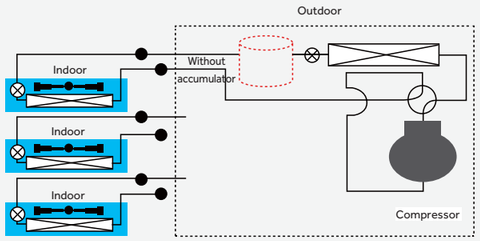
•Set refrigerant automatically reclaim through dip switch, the refrigerant in indoor and pipe can be automatically return to outdoor, convenient in maintenance and reducing waste of refrigerant, reduce customer maintenance cost, improve the efficiency of after-sales maintenance



Refrigerant control technology

•Refrigerant control technology without high pressure accumulator, reducing the refrigerant volume

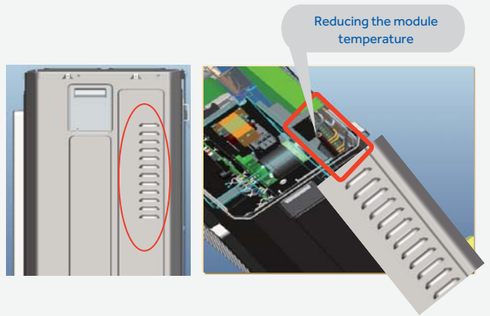
and enhancing the running efficiency



High Reliability

Air inlet grill design on right side panel

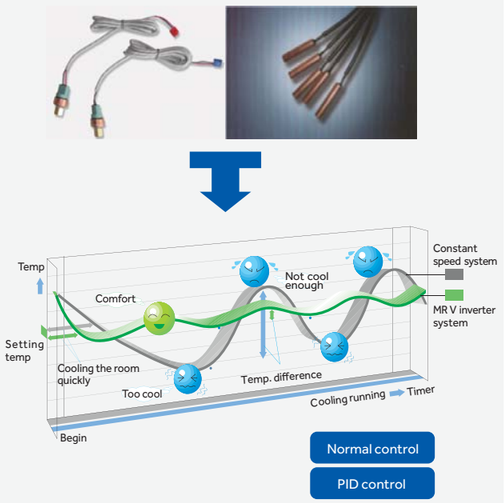
•Air inlet grill design, reducing the module temperature and avoid air dust into air conditioner



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℃



MRV S^{II} OUTDOOR

- AU042FPERA
- AU052FPERA
- AU05IFPERA
- AU06IFPERA

DC motor · High performance compressor · DC INVERTER 180° sine wave · Super quiet · Quiet operation · 3 min 3 minutes protection · -15°C HEATING Lowambient heating · -5°C Lowambient cooling · Blue Blue fin

Model			AU042FPERA	AU052FPERA	AU05IFPERA	AU06IFPERA
Capacity	Capacity range	HP	4	5	5	6
	Cooling	kBtu/h	43	47.8	47.8	52.9
		kW	12.6	14	14	15.5
	Heating	kBtu/h	48.4	54.6	54.6	61.4
		kW	14.2	16	16	18
Electrical parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	3/380-400/50/60	3/380-400/50/60
	Power input (Cooling)	kW	3.41	3.84	3.90	4.89
	Power input (Heating)	kW	3.40	4.12	4.19	5.04
	EER/COP		3.70	3.65	3.59	3.17
Performance	Air flow (H)	m³/h	4.18	3.88	3.82	3.57
	Sound pressure level (H)	dB(A)	7200	7200	7200	7200
	Sound power level (H)	dB(A)	50	51	51	53
Installation	External dimensions(W/D/H)	mm	66	67	67	69
	Shipping dimensions(W/D/H)	mm	950/370/1340	950/370/1340	950/370/1340	950/370/1340
	Net/Shipping weight	kg	1023/471/1420	1023/471/1420	1023/471/1420	1023/471/1420
	Compressor type		115/123	115/123	115/123	115/123
	Compressor brand		Rotary MITSUBISHI ELECTRIC	Rotary MITSUBISHI ELECTRIC	Rotary MITSUBISHI ELECTRIC	Rotary MITSUBISHI ELECTRIC
	Compressor quantity		1	1	1	1
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	4	4	4	4
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88
	Total pipe lenth	m	300	300	300	300
	Max. pipe length(Equivalent/Actual)	m	150	150	150	150
	Max drop between I.U.&O.U	m	50	50	50	50
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
	Maximum number of indoor units		7	10	10	12
Working temp.	Cooling	℃	-15~48	-15~48	-15~48	-15~48
	Heating	℃	-20~27	-20~27	-20~27	-20~27

* Models are under development, data is pending.

MRV S^{II} OUTDOOR

- AV08NMSETA
- AV10NMSETA
- AV12NMSETA

DC motor · High performance compressor · DC INVERTER 180° sine wave · Super quiet · Quiet operation · 3 min 3 minutes protection · -15°C HEATING Lowambient heating · -5°C Lowambient cooling · Blue Blue fin

Model			AV08NMSETA	AV10NMSETA	AV12NMSETA
Capacity	Capacity range	HP	8	10	12
	Cooling	kBtu/h	77.1	95.5	114.3
		kW	22.6	28	33.5
	Heating	kBtu/h	85.3	107.5	128
		kW	25	31.5	37.5
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Power input (Cooling)	kW	5.79	8	9.75
	Power input (Heating)	kW	5.43	7.5	9.62
	EER/COP		3.9/4.6	3.5/4.2	3.44/3.9
Performance	Air flow (H)	m³/h	10000	10000	10000
	Sound pressure level (H)	dB(A)	55	58	60
	Sound power level (H)	dB(A)	66	69	71
Installation	External dimensions(W/D/H)	mm	1050/400/1636	1050/400/1636	1050/400/1636
	Shipping dimensions(W/D/H)	mm	1150/510/1795	1150/510/1795	1150/510/1795
	Net/Shipping weight	kg	168/183	168/183	168/183
	Compressor type		Rotary	Rotary	Rotary
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV
	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	kg	7.4	7.4	7.4
	Refrigerant liquid pipe	mm	9.52	12.7	12.7
	Refrigerant gas pipe	mm	19.05	22.22	25.4
	Total pipe lenth	m	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/135	175/135	175/135
	Max drop between I.U.&O.U	m	50	50	50
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130
	Maximum number of indoor units		13	16	19
Working temp.	Cooling	℃	-5~43	-5~43	-5~43
	Heating	℃	-15~21	-15~21	-15~21

* 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^{I} (3/5/7HP)

DC Inverter Twin Rotary Compressor

Realize high efficiency and compact designed compressor by joint wrap & earths metal magnet motor.

Wide range inverter compressors would satisfy the customer's innovative requirement and design.

DC Inverter Twin Rotary Compressor

DC Inverter Technology

DC inverter motor

•DC fan motor speed can be adjusted from 0~1000 r/min, it can improve the unit efficiency, at the same time, the unit can realize low ambient cooling operation.

High efficiency

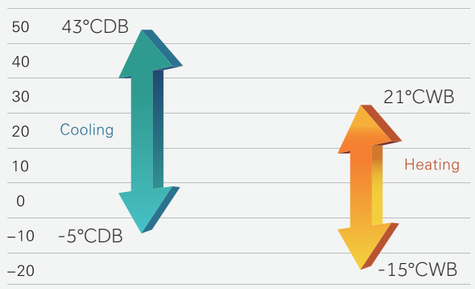
Low vibration, low noise

High reliability

Operation Range

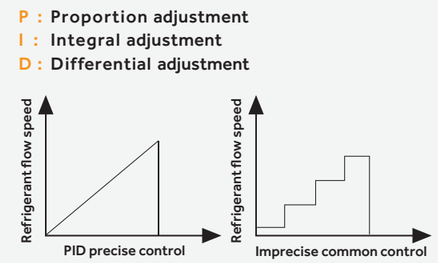
•MRV S^{I} series permits a system design considering a heating range operation under a low temperature condition from -15°C of previous model and a cooling range operation -5°C.

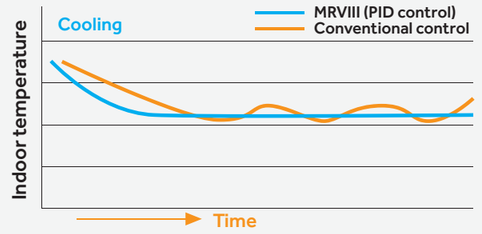
•For the capacities under low temperature conditions, please see technical data sheets.

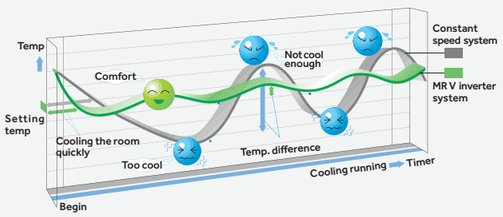


Precise Control

•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.



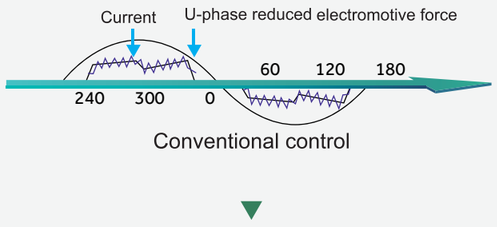


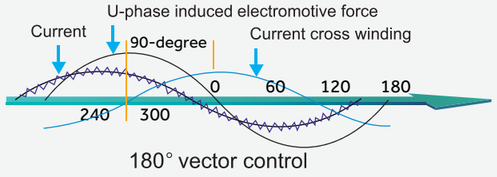


MRV S^{I} 3/5/7HP

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%.





Side Discharge MRV S^{I} Outdoor Units

•Dual Frequency 50/60Hz

DC Inverter TWIN Rotary Compressor

BLDC Fan (BrushLess DC motor)

15kW 1 Phase
15kW 3 Phase
18kW 3 Phase

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.

MRV S^{I} OUTDOOR

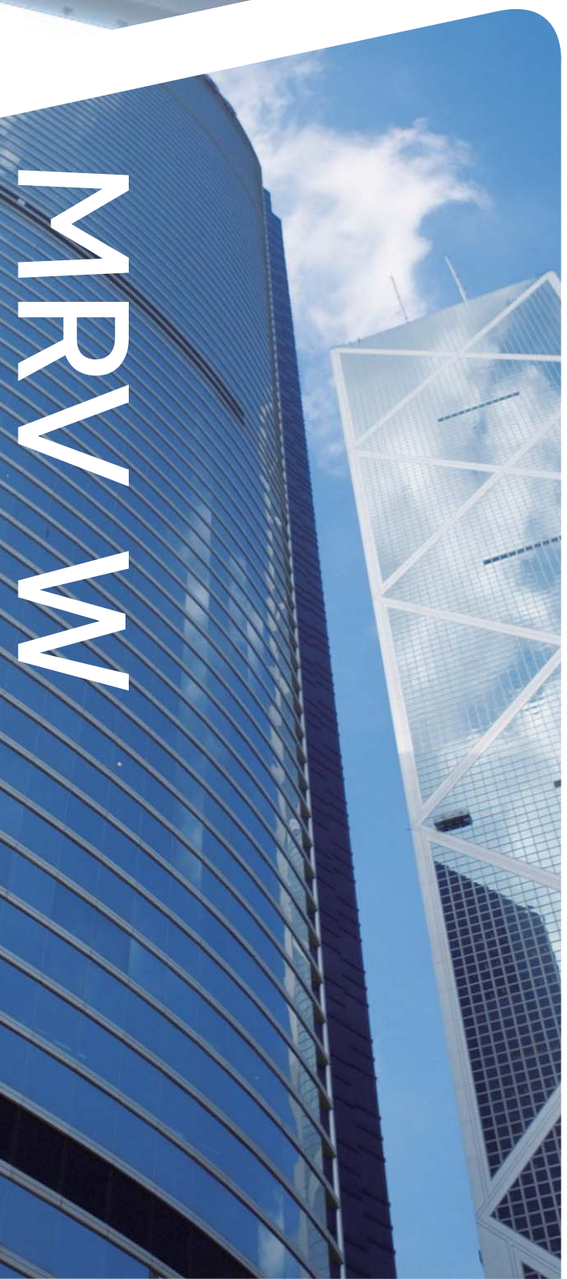
- AU282FHERA
- AU482FIERA(G)
- AU48NFIERA(G)
- AU60NFIERA(G)

DC motor | High performance compressor | DC INVERTER 180° sine wave | Super quiet | Quiet operation | 3 min 3 minutes protection | -15°C HEATING Lowambient heating | -5°C Lowambient cooling | Blue Blue fin

Model			AU282FHERA	AU482FIERA(G)	AU48NFIERA(G)	AU60NFIERA(G)
Capacity	Capacity range	HP	3HP	5HP	5HP	7HP
	Cooling	kBtu/h	27.3	51.2	51.2	61.4
		kW	8	15	15	18
	Heating	kBtu/h	32.4	58	58	68.2
		kW	9.5	17	17	20
Electrical parameters	Power supply	Ph/V/Hz	1/220~230/50	1/220~230/50/60	3/380~400/50/60	3/380~400/50/60
	Power input (Cooling)	kW	2.2	4.2	4.2	5.5
	Power input (Heating)	kW	2.15	4	4	5.25
	EER/COP		3.64/4.42	3.57/4.25	3.57/4.25	3.27/3.8
Performance	Air flow (H)	m³/h	3500	6500	6500	6500
	Sound pressure level (H)	dB(A)	55	59	59	60
	Sound power level (H)	dB(A)	66	70	70	71
Installation	External dimensions(W/D/H)	mm	960/340/830	960/340/1250	960/340/1250	960/340/1250
	Shipping dimensions(W/D/H)	mm	1095/410/945	1095/410/1400	1095/410/1400	1095/410/1400
	Net/Shipping weight	kg	74/89	105/113	105/113	105/113
	Compressor type		Rotary	Rotary	Rotary	Rotary
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV	1 INV
	Refrigerant type		R410A	R410A	R410A	R410A
	Refrigerant charge	kg	2.6	3.6	4	4
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	19.05	19.05	19.05
	Total pipe lenth	m	50	100	100	100
	Max. pipe length(Equivalent/Actual)	m	35	70	70	70
	Max drop between I.U.&O.U	m	30	30	30	30
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130
	Maximum number of indoor units		4	8	8	9
Working temp.	Cooling	℃	10~43	-5~43	-5~43	-5~43
	Heating	℃	-15~21	-15~21	-15~21	-15~21

* 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)

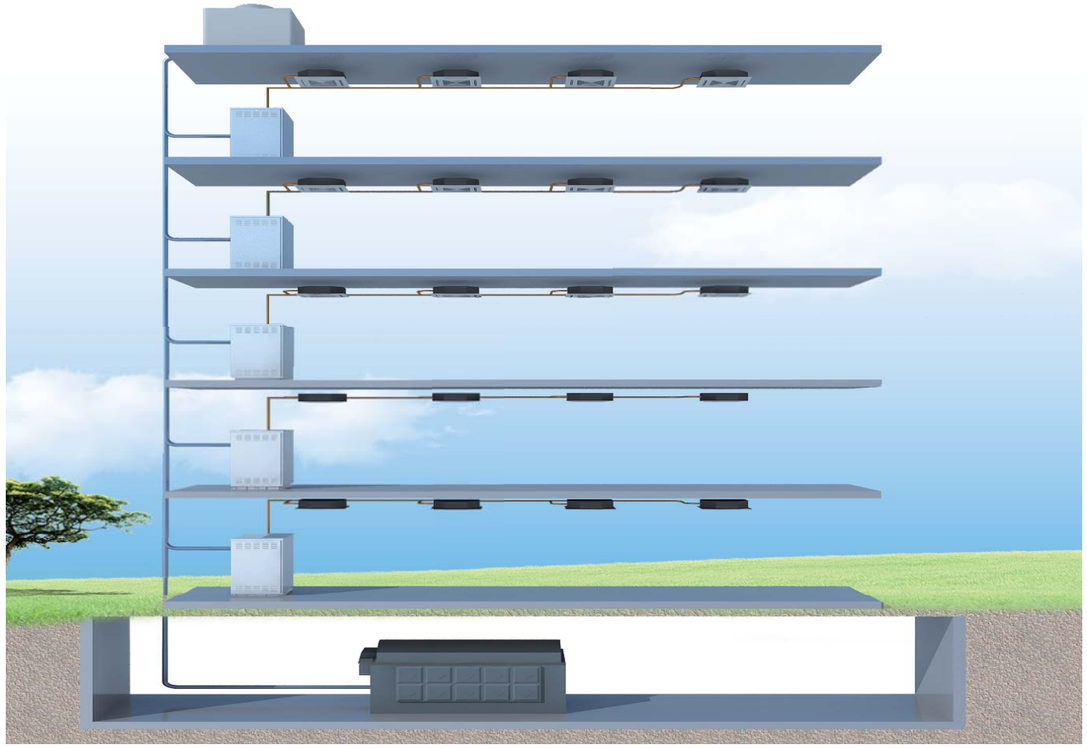
MRV W



FEATURES & BENEFITS

Outdoor Structure (8/10/12hp Side Discharge)

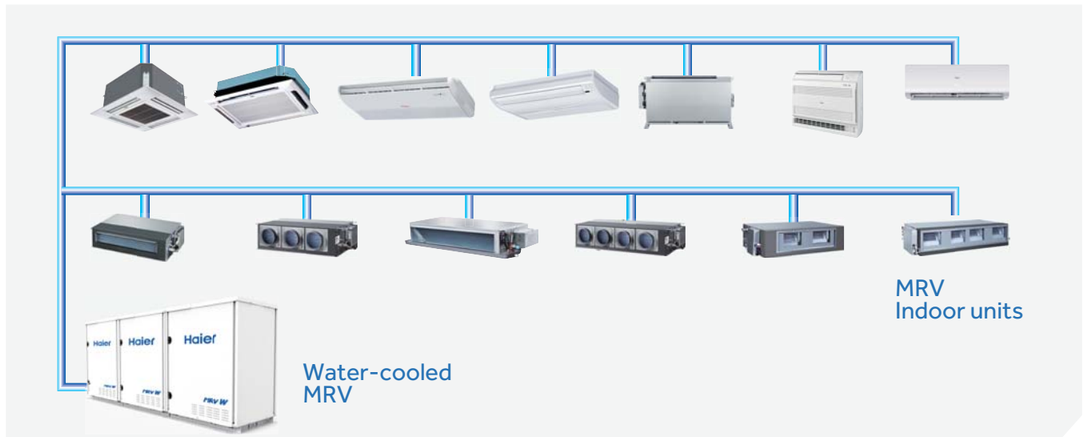
More Bigger Outdoor Capacity, More Flexible Application



What is MRV W Series

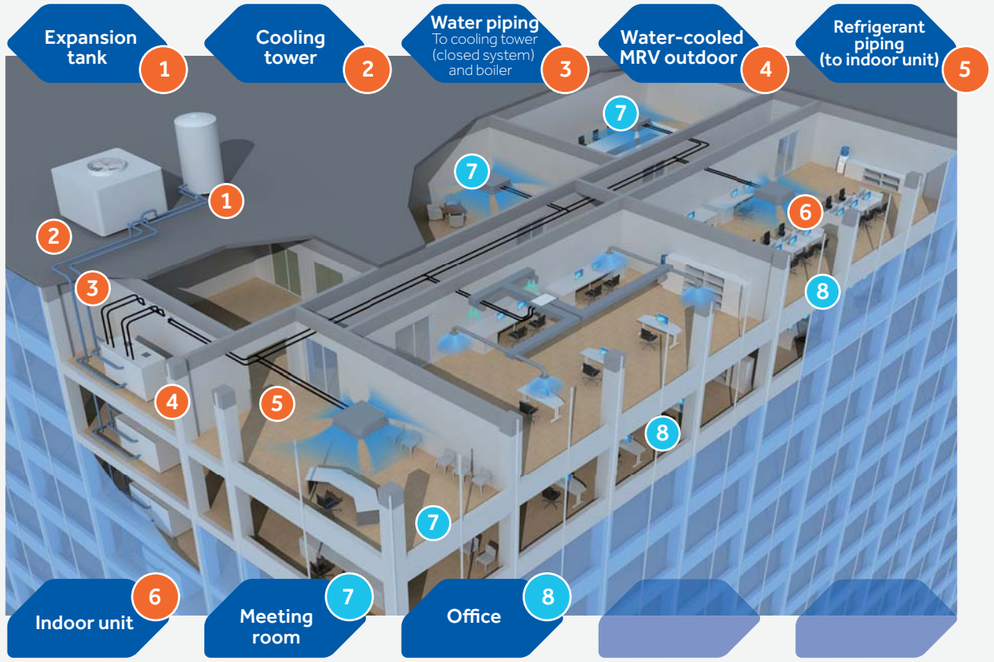
•MRV W series system is a VRF air conditioning system that adopts water as a cooling or heating source

•MRV W series can combine water system and refrigerant system together

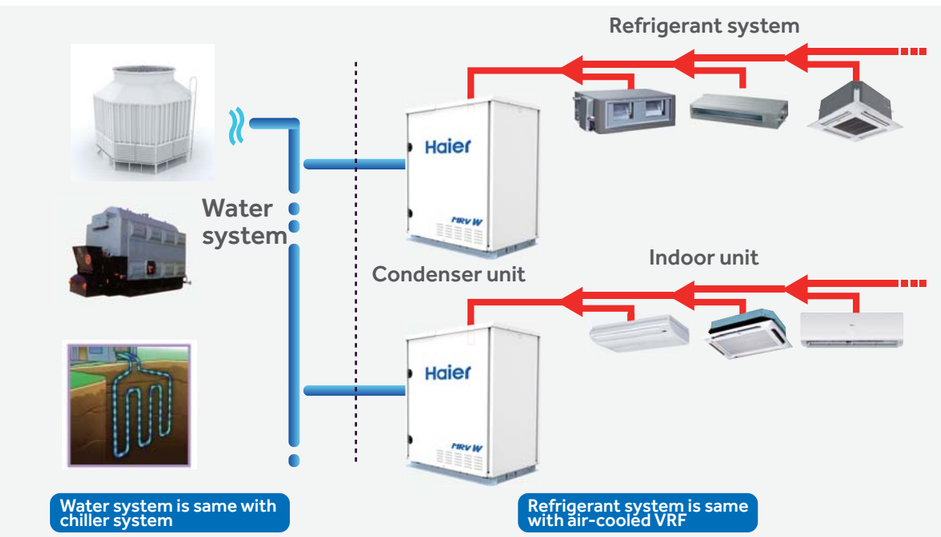


FEATURES & BENEFITS

System Introduction

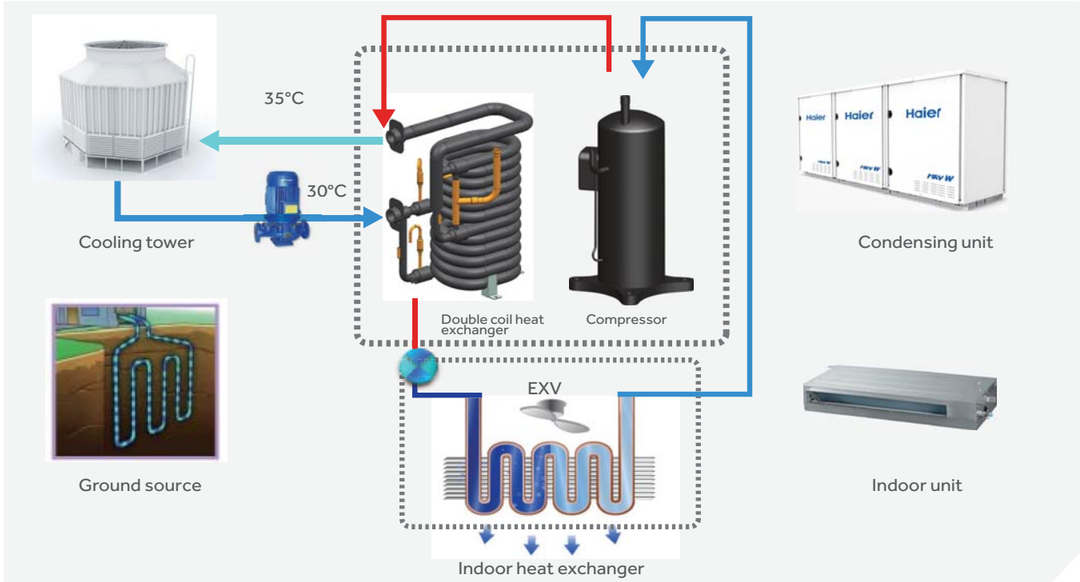


Working Principle

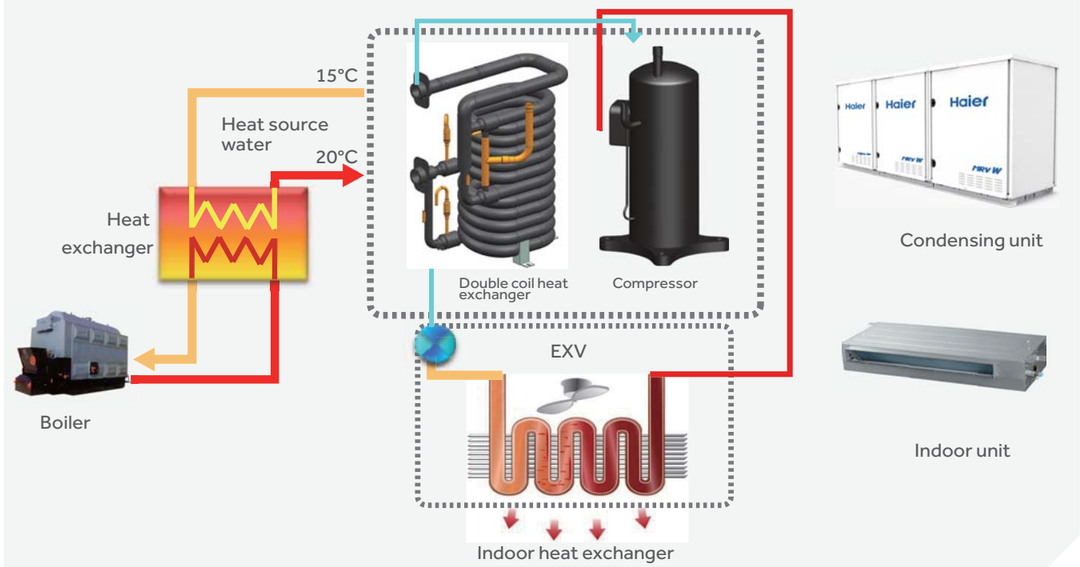


Working Principle

Working principle in cooling mode



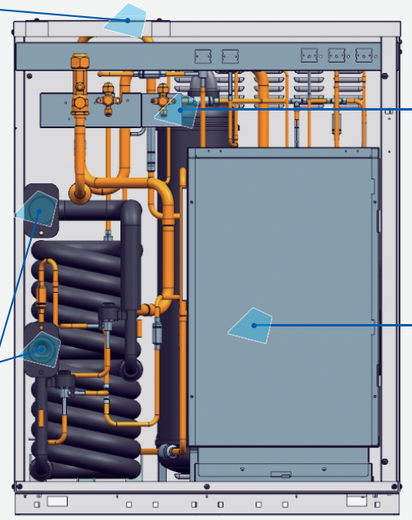
Working principle in heating mode



FEATURES & BENEFITS

Outdoor 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

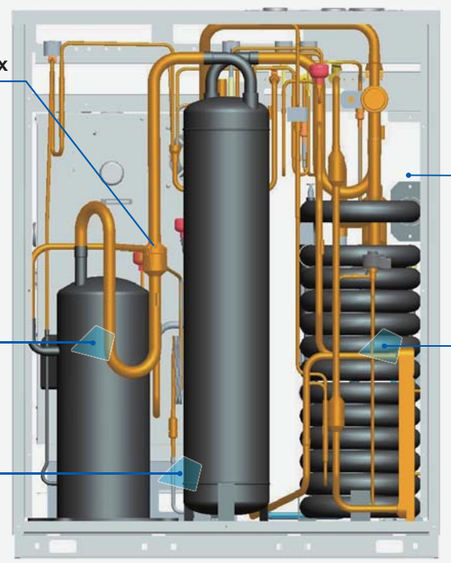
Gas-liquid separator

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

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

MRV W Application Typical high-rise buildings

3 Types Typical High-rise Buildings

•Compact inner structure and core parts

Type 1

High rise building without podium

Type 2

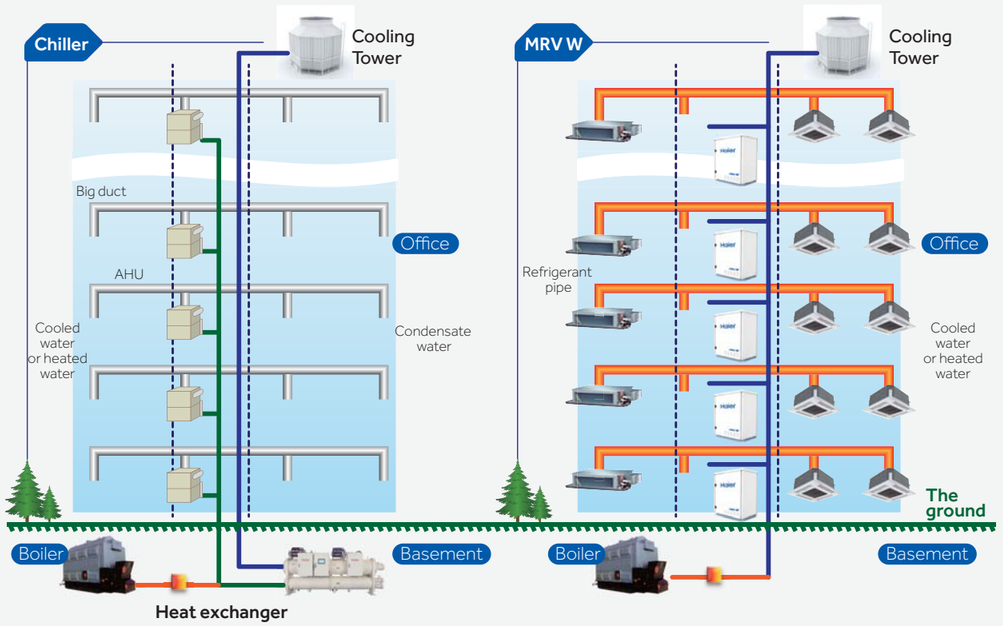
High rise building with podium

Type 3

Single layer with a large area

Type 1 High-rise Building

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

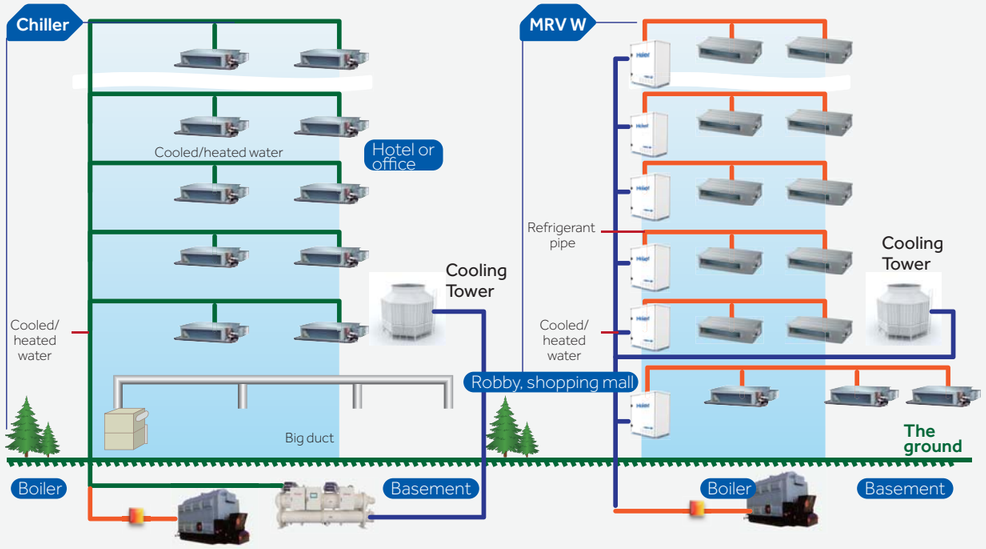


FEATURES & BENEFITS

MRV W Application

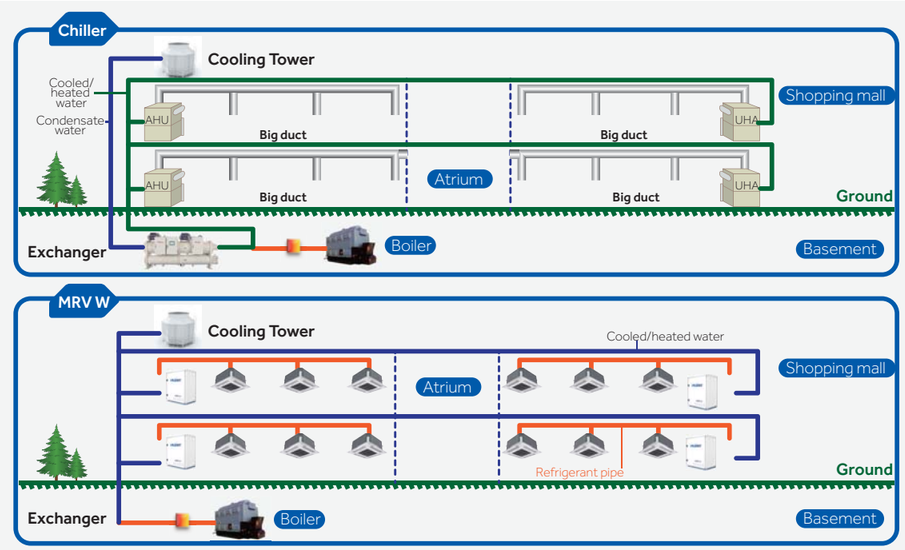
Type 2 High-rise Building

•Conventional chiller system, and water-cooled MRV solution



Type 3 High-rise Building

•Conventional chiller system, and water-cooled MRV solution



MRV W Application

Buildings That Suitable

•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

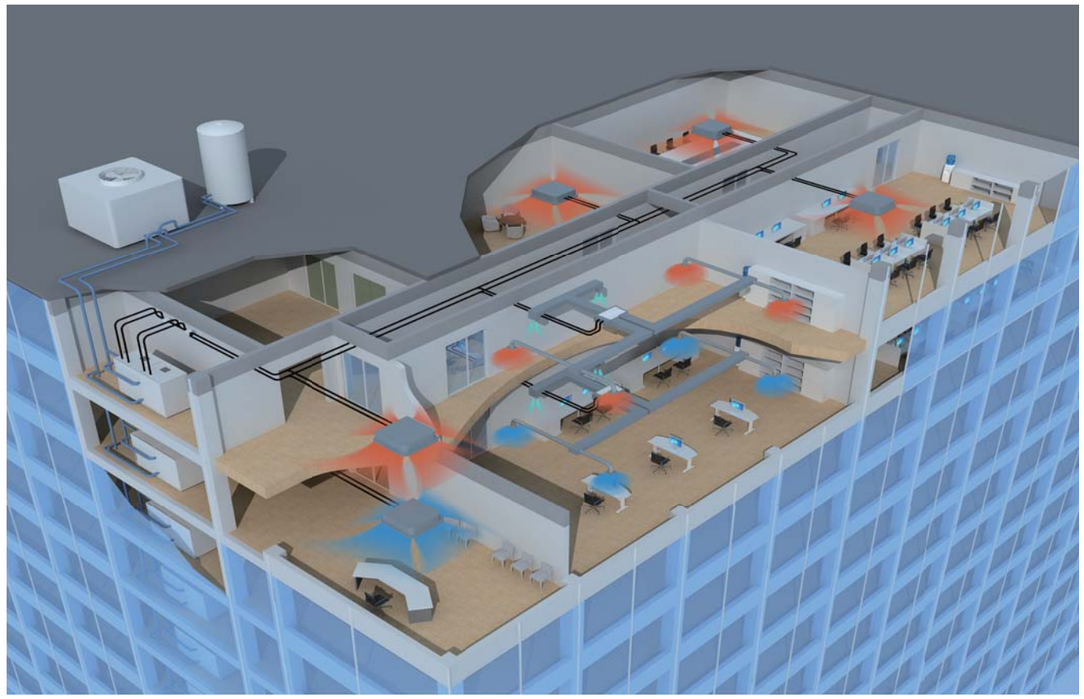
•Lower initial cost for the developer and builder

•Client or developer can add air conditioning to match load requirement

•No rebalancing of water systems if commissioning valves are installed on each floor

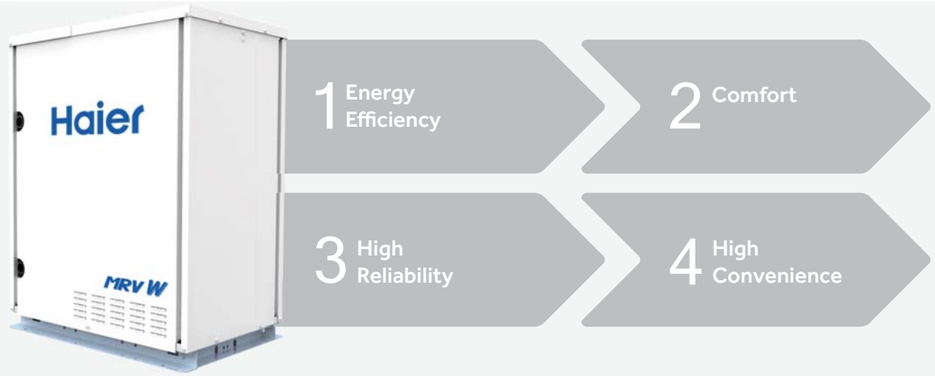
•Connect to the full suite of MRV control solution A/C management system

•Separate control to every indoor unit



FEATURES & BENEFITS

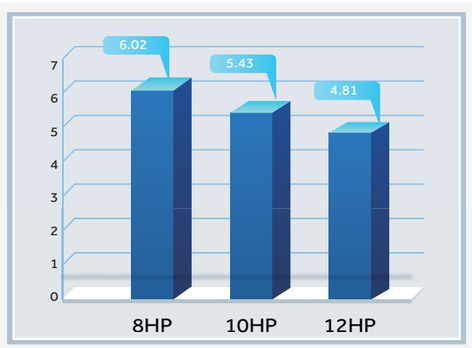
Overview

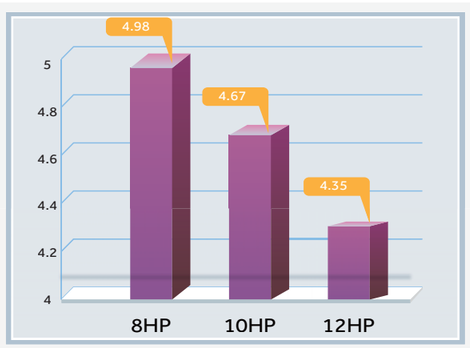


Energy saving

•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





Energy Saving

High efficiency dc inverter compressor

•High efficiency DC inverter compressor from mitsubishi electric

Energy Saving

High efficiency double coil heat exchanger

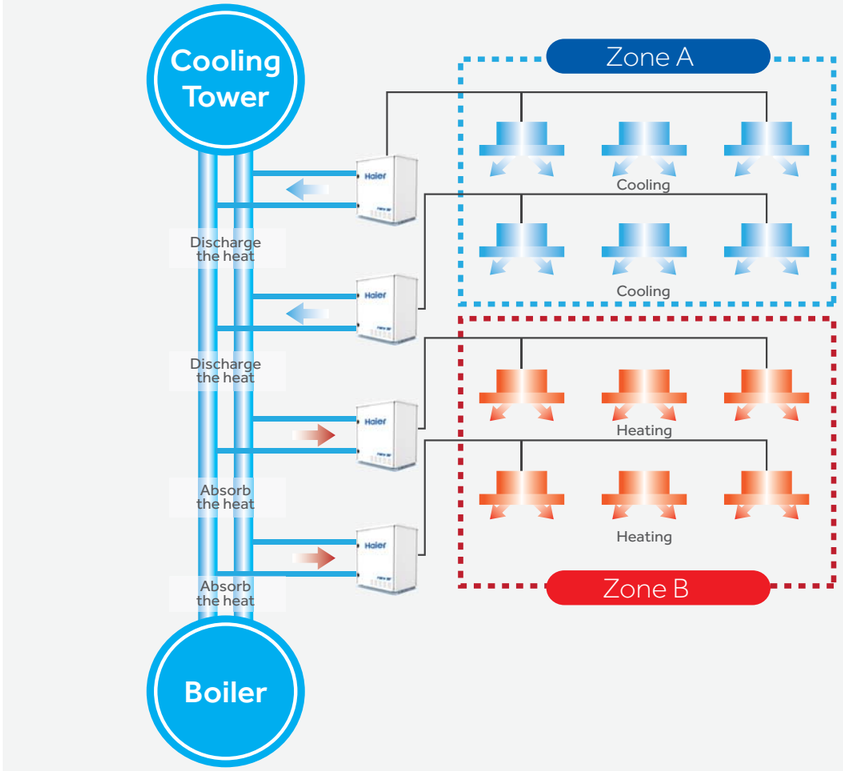
•Double coil heat-exchanger, more uniform heat transfer effect

Energy Saving

Heat recovery between different refrigerant system

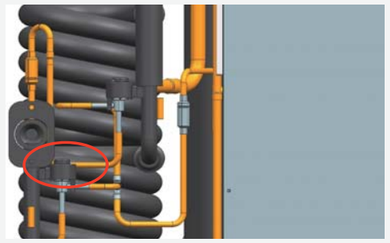
•Heat recovery is achieved within the water loop between different refrigerant system, more higher total COP

•Cooling and heating at the same time in different refrigerant system



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,

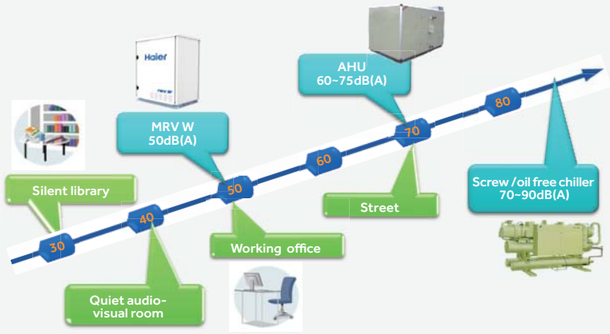
with the heat exchanging capacity per unit mass of refrigerant improved by 46% and flow resistance reduced by 55%, and running efficiency improved by 9%

FEATURES & BENEFITS

Comfortable 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



No Influence From Ambient Temperature

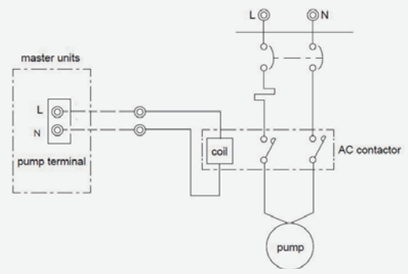
•Thanks to the stable water source, the capacity and efficiency will not reduce with extreme ambient conditions compare with air-cooled system

•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

High Reliability

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



High Convenience (Use/installation/service)

Compact and Lightweight Design

•The industry's most compact and lightweight design, installed in the narrow space.
Comparing with the conventional top discharge air-cooled system, height 45% reduced, footprint 43% reduced

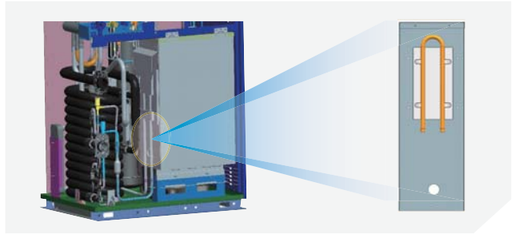
Stacked Installation

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

High Reliability

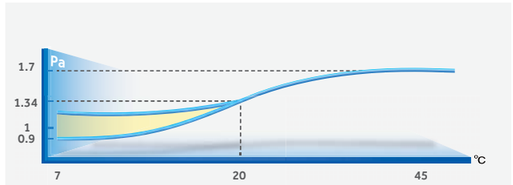
Chilled Electric Control Module

•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

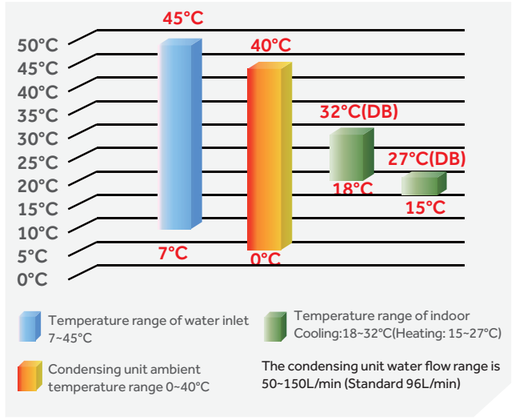


Stable Pressure Setting

•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

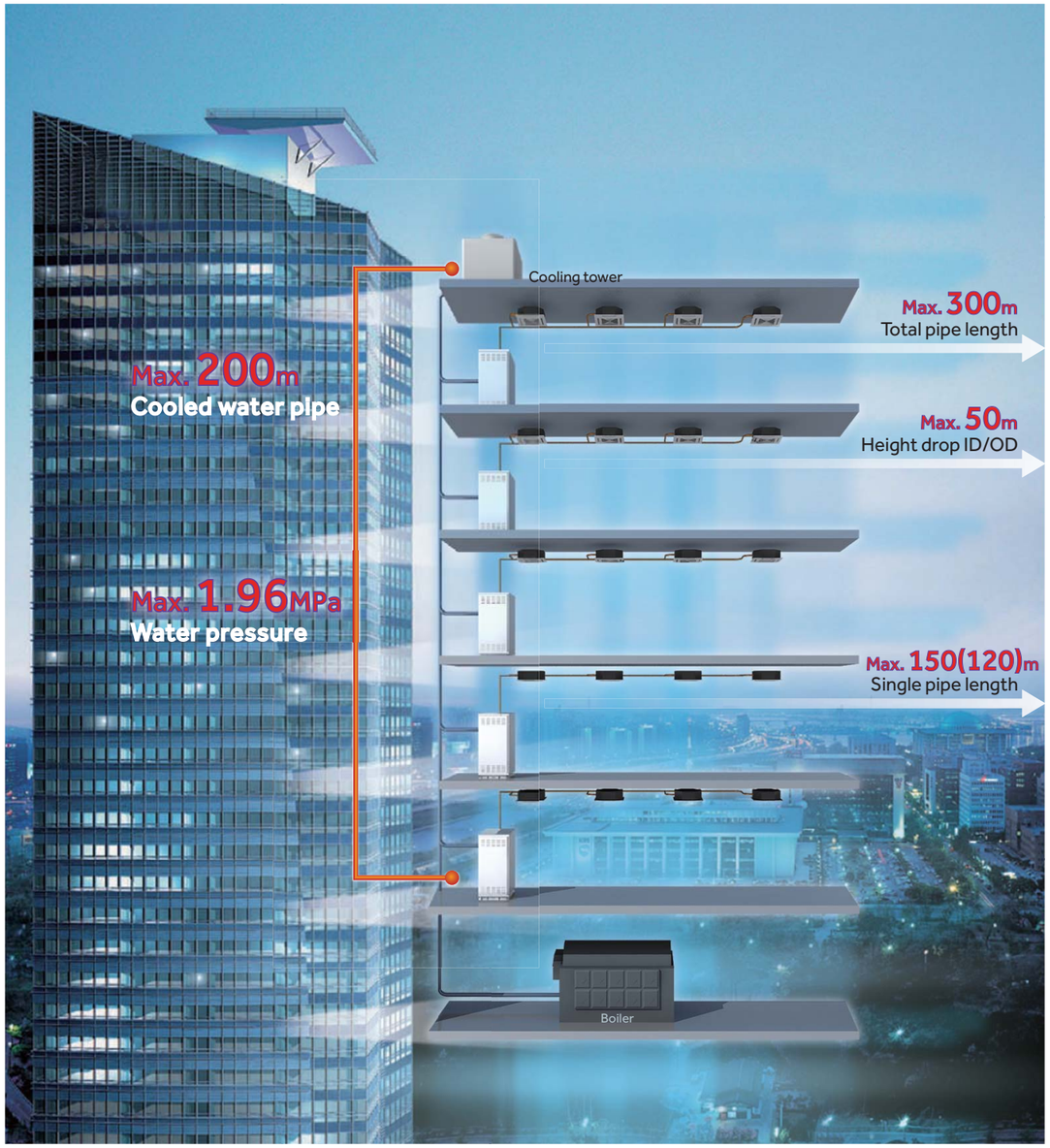


FEATURES & BENEFITS

Energy Efficiency

Long Pipe Length and High Height Drop

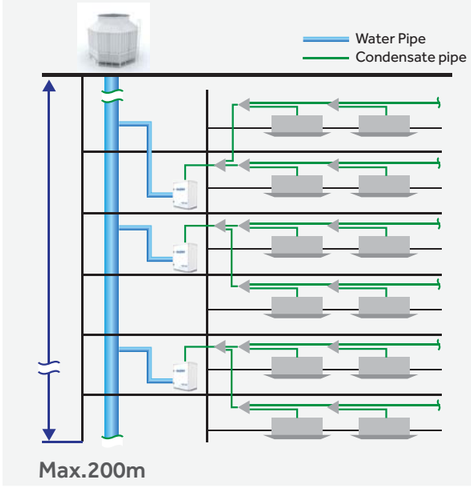
The condensers are smaller and can be staked, reducing the installation space and increasing the customers usable square footage



Energy Efficiency

Flexible Water Pipe Design

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



Energy Efficiency

Flexible Installation Location


Outside


Machine room


Balcony


Corridor


Equipment room


Storage

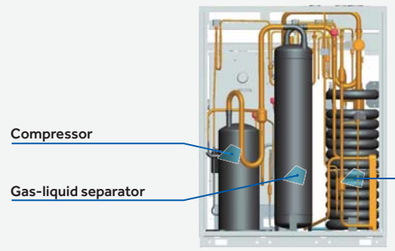
High Convenience (Use/installation/service)

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 Maintenance

Compact outdoor structure design



Compressor is near the outside;
Compact pipe system;
Convenient for maintenance

MRV W OUTDOOR 3Ph/380-400V/50(60)Hz

8/10/12HP

Water Source MRV Outdoor Unit, Combine Water System and Refrigerant System in one System
3 Basic Single Module:8/10/12HP, Max 3 Modules Combination up to 36HP
Most Compact Size Outdoor Design in the Industry
Total 300m Long Pipe Length, Easy for Installation
Double Coil Outdoor Heat Exchanger
Compatible with all the MRV Indoor Units

Model				AV08IMWEWA	AV10IMWEWA	AV12IMWEWA	AV16IMWEWA	AV18IMWEWA	AV20IMWEWA	AV22IMWEWA	AV24IMWEWA	AV26IMWEWA	AV28IMWEWA	AV30IMWEWA	AV32IMWEWA	AV34IMWEWA	AV36IMWEWA
Combination model				/	/	/	AV08IMWEWA	AV08IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA	AV08IMWEWA	AV08IMWEWA	AV10IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA
				/	/	/	AV08IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA	AV12IMWEWA	AV08IMWEWA	AV10IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA	AV12IMWEWA
				/	/	/	/	/	/	/	/	AV10IMWEWA	AV10IMWEWA	AV10IMWEWA	AV12IMWEWA	AV12IMWEWA	AV12IMWEWA
Capacity	Capacity range		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
	Cooling capacity		kW	22.4	28	33.5	44.8	50.4	56	61.5	67.0	72.8	78.4	84.0	89.5	95.0	100.5
	Heating capacity		kW	25	31.5	37.5	50.0	56.5	63	69.0	75.0	81.5	88.0	94.5	100.5	106.5	112.5
Electrical parameters	Power supply		Ph/V/Hz	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60
	Cooling	Rated power input	kW	4.50	6.00	7.70	9.00	10.50	12.00	13.70	15.40	15.00	16.50	18.00	19.70	21.40	23.10
		Max. power input	kW	13.00	15.00	17.00	26.00	28.00	30.00	32.00	34.00	41.00	43.00	45.00	47.00	49.00	51.00
		Rated current	A	7.20	9.60	12.32	14.39	16.79	19.19	21.91	24.63	23.99	26.39	28.79	31.51	34.23	36.95
		Max.current	A	20.79	23.99	27.19	41.58	44.78	47.98	51.18	54.38	65.57	68.77	71.97	75.17	78.37	81.57
	Heating	Rated power input	kW	4.15	5.80	7.80	8.30	9.95	11.60	13.60	15.60	14.10	15.75	17.40	19.40	21.40	23.40
		Max. power input	kW	13.00	15.00	17.00	26.00	28.00	30.00	32.00	34.00	41.00	43.00	45.00	47.00	49.00	51.00
		Rated current	A	6.64	9.28	12.47	13.27	15.91	18.55	21.75	24.95	22.55	25.19	27.83	31.03	34.23	37.42
		Max.current	A	20.79	23.99	27.19	41.58	44.78	47.98	51.18	54.38	65.57	68.77	71.97	75.17	78.37	81.57
	EER/COP			4.98/6.02	4.67/5.43	4.35/4.81	4.98/6.02	4.80/5.68	4.67/5.43	4.49/5.07	4.35/4.81	4.85/5.78	4.75/5.59	4.67/5.43	4.54/5.18	4.44/4.98	4.35/4.81
Performance	Water flow (H)		m³/h	4.8	6	7.2	9.6	10.8	12	13.2	14.4	15.6	16.8	18.0	19.2	20.4	21.6
	Sound pressure level (H)		dB(A)	50	51	53	53	54	54	55	56	55	55	56	57	57	58
	Sound power level (H)		dB(A)	61	62	64	64	65	65	66	67	66	66	67	68	68	69
Installation	External dimensions(W/D/H)		mm	775/545/995	775/545/995	775/545/995	(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	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3	(775/545/995)*3
	Shipping dimensions(W/D/H)		mm	840/625/1150	840/625/1150	840/625/1150	(840/625/1150)*2	(840/625/1150)*2	(840/625/1150)*2	(840/625/1150)*2	(840/625/1150)*2	(840/625/1150)*3	(840/625/1150)*3	(840/625/1150)*3	(840/625/1150)*3	(840/625/1150)*3	(840/625/1150)*3
	Net/Shipping weight		kg	172/183	172/183	172/183	344/366	344/366	344/366	344/366	344/366	516/549	516/549	516/549	516/549	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	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			1 INV	1 INV	1 INV	2 INV	2 INV	2 INV	2 INV	2 INV	3 INV	3 INV	3 INV	3 INV	3 INV	3 INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	2	2	2	4	4	4	4	4	6	6	6	6	6	6
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	19.05	22.2	25.4	28.58	28.58	28.58	28.58	28.58	31.8	31.8	31.8	31.8	31.8	38.1
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	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	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	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	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	Double coil	Double coil	Double coil	Double coil	Double coil	Double coil	Double coil
	Material			Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper
Water side	Inlet water connection pipe		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	Outlet water connection pipe		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	pressure drop(inlet and outlet)		Kpa	35	50	70	35+35	35+50	50+50	50+70	70+70	35+35+50	35+50+50	50+50+50	50+50+70	50+70+70	70+70+70
	Connection type			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	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	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	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	50-130	50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units		unt	13	16	19	23	29	33	36	39	43	46	50	53	56	59

* 1 outdoor above 50m,outdoor below 40m.
* 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).
* The specification may change according to the further product developement.

MRV W OUTDOOR 3Ph/208-230V/60Hz

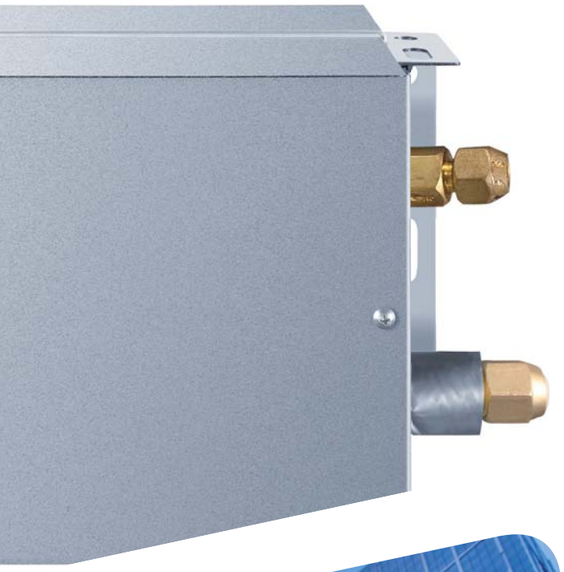
8/10/12HP

Water Source MRV Outdoor Unit, Combine Water System and Refrigerant System in one System
3 Basic Single Module:8/10/12HP, Max 3 Modules Combination up to 36HP
Most Compact Size Outdoor Design in the Industry
Total 300m Long Pipe Length, Easy for Installation
Double Coil Outdoor Heat Exchanger
Compatible with all the MRV Indoor Units

Model				AV08CMWEWA	AV10CMWEWA	AV12CMWEWA	AV16CMWEWA	AV18CMWEWA	AV20CMWEWA	AV22CMWEWA	AV24CMWEWA	AV26CMWEWA	AV28CMWEWA	AV30CMWEWA	AV32CMWEWA	AV34CMWEWA	AV36CMWEWA
Combination model				/	/	/	AV08CMWEWA	AV08CMWEWA	AV10CMWEWA	AV10CMWEWA	AV12CMWEWA	AV08CMWEWA	AV08CMWEWA	AV10CMWEWA	AV10CMWEWA	AV10CMWEWA	AV12CMWEWA
				/	/	/	AV08CMWEWA	AV10CMWEWA	AV10CMWEWA	AV12CMWEWA	AV12CMWEWA	AV08CMWEWA	AV10CMWEWA	AV10CMWEWA	AV10CMWEWA	AV12CMWEWA	AV12CMWEWA
				/	/	/	/	/	/	/	/	AV10CMWEWA	AV10CMWEWA	AV10CMWEWA	AV12CMWEWA	AV12CMWEWA	AV12CMWEWA
Capacity	Capacity range		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
	Cooling capacity		kW	22.4	28	33.5	44.8	50.4	56	61.5	67.0	72.8	78.4	84.0	89.5	95.0	100.5
	Heating capacity		kW	25	31.5	37.5	50.0	56.5	63	69.0	75.0	81.5	88.0	94.5	100.5	106.5	112.5
Electrical parameters	Power supply		Ph/V/Hz	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60
	Cooling	Rated power input	kW	4.50	6.00	7.70	9.00	10.50	12.00	13.70	15.40	15.00	16.50	18.00	19.70	21.40	23.10
		Max. power input	kW	13.00	15.00	17.00	26.00	28.00	30.00	32.00	34.00	41.00	43.00	45.00	47.00	49.00	51.00
		Rated current	A	12.43	16.58	21.27	24.86	29.01	33.15	37.85	42.54	41.44	45.58	49.73	54.42	59.12	63.81
		Max.current	A	35.91	41.44	46.96	71.83	77.35	82.88	88.40	93.93	113.26	118.79	124.31	129.84	135.36	140.89
	Heating	Rated power input	kW	4.15	5.80	7.80	8.30	9.95	11.60	13.60	15.60	14.10	15.75	17.40	19.40	21.40	23.40
		Max. power input	kW	13.00	15.00	17.00	26.00	28.00	30.00	32.00	34.00	41.00	43.00	45.00	47.00	49.00	51.00
		Rated current	A	11.46	16.02	21.55	22.93	27.49	32.05	37.57	43.10	38.95	43.51	48.07	53.59	59.12	64.64
		Max.current	A	35.91	41.44	46.96	71.83	77.35	82.88	88.40	93.93	113.26	118.79	124.31	129.84	135.36	140.89
	EER/COP			4.98/6.02	4.67/5.43	4.35/4.81	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	4.67/5.43	4.54/5.18	4.44/4.98	4.35/4.81
Performance	Water flow (H)		m³/h	4.8	6	7.2	9.6	10.8	12	13.2	14.4	15.6	16.8	18.0	19.2	20.4	21.6
	Sound pressure level (H)		dB(A)	50	51	53	53	54	54	55	56	55	55	56	57	57	58
	Sound power level (H)		dB(A)	61	62	64	64	65	65	66	67	66	66	67	68	68	69
Installation	External dimensions(W/D/H)		mm	775/545/995	775/545/995	775/545/995	(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	(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	875/655/1182	875/655/1182	(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	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3	(875/655/1182)*3
	Net/Shipping weight		kg	172/183	172/183	172/183	344/366	344/366	344/366	344/366	344/366	516/549	516/549	516/549	516/549	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	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			1 INV	1 INV	1 INV	2 INV	2 INV	2 INV	2 INV	2 INV	3 INV	3 INV	3 INV	3 INV	3 INV	3 INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	2	2	2	4	4	4	4	4	6	6	6	6	6	6
	Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7	15.9	15.9	15.9	15.9	19.1	19.1	19.1	19.1	19.1	19.1
	Refrigerant gas pipe		mm	19.05	22.2	25.4	28.6	28.6	28.6	28.6	28.6	31.8	31.8	31.8	31.8	31.8	38.1
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	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	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	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	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	Double coil	Double coil	Double coil	Double coil	Double coil	Double coil	Double coil
	Material			Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel	Copper&Steel
Water side	Inlet water connection pipe		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	Outlet water connection pipe		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	pressure drop(inlet and outlet)		Kpa	35	50	70	35+35	35+50	50+50	50+70	70+70	35+35+50	35+50+50	50+50+50	50+50+70	50+70+70	70+70+70
	Connection type			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	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	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	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	50-130	50-130	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units		unt	13	16	19	23	29	33	36	39	43	46	50	53	56	59

* 1 outdoor above 50m,outdoor below 40m.
* 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).
* The specification may change according to the further product developement.

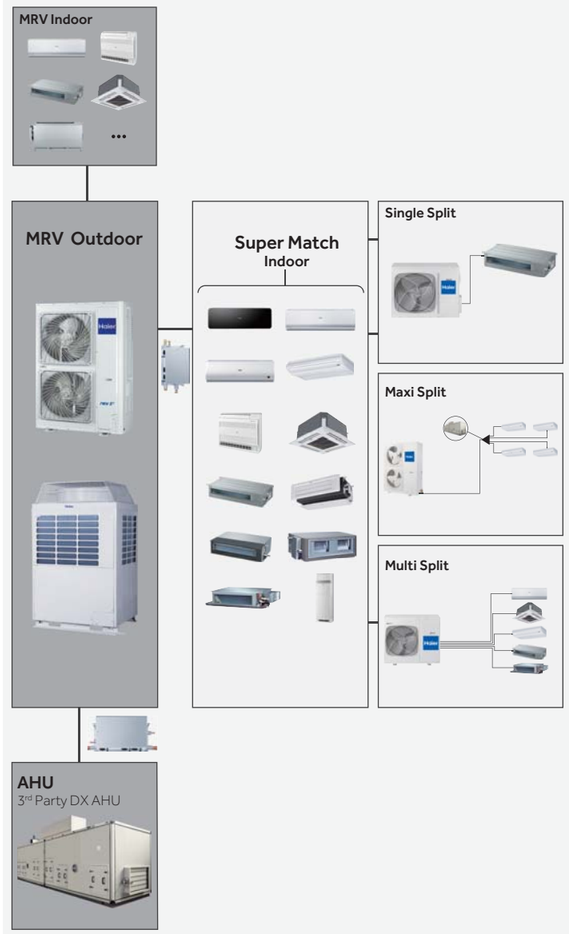
EASY MRV KIT



FEATURES & BENEFITS

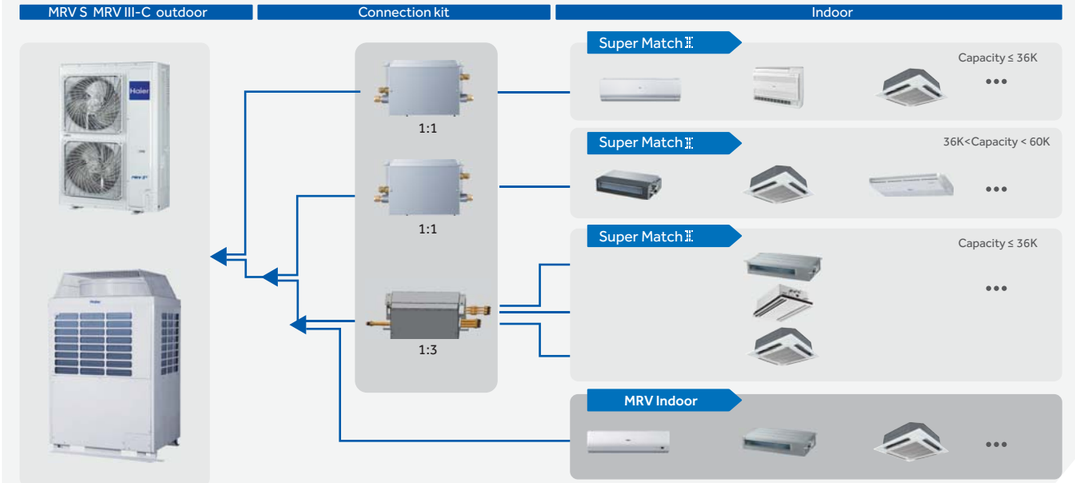
Intergraded System Solution

System Connection Kit to link the systems together.



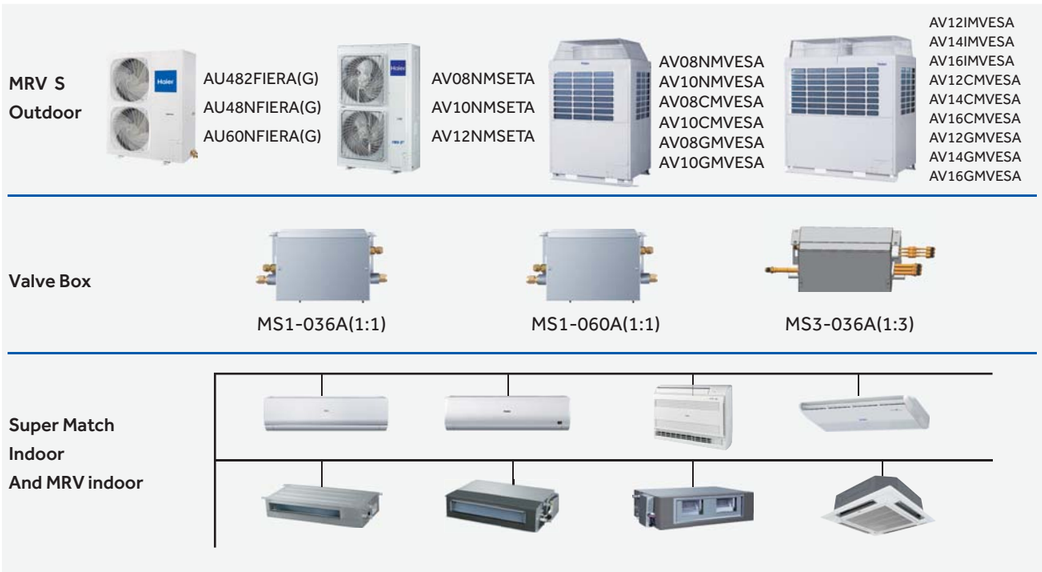
Easy MRV System Introduction

Haier Easy MRV Connection Kit offers a range of expansion valve kits and control boxes to connect Haier SUPER MATCH indoor units.



Easy MRV Line up

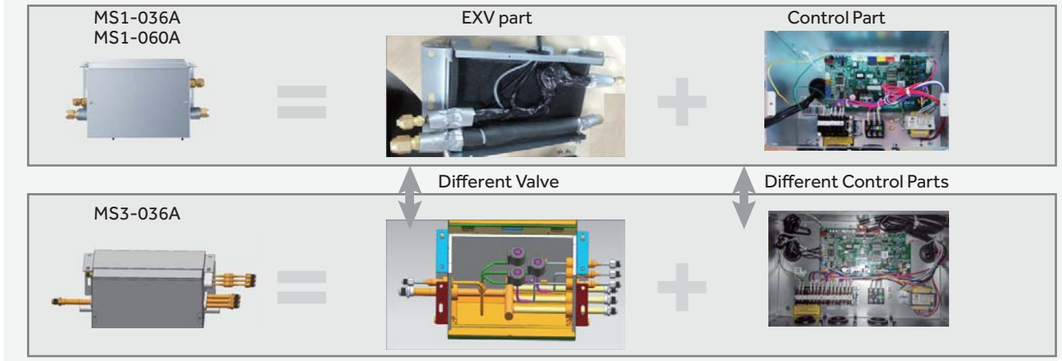
Haier Easy MRV Provide a wide range of MRV outdoor, valve box and Super Match Indoor solution.



FEATURES & BENEFITS

Valve Box Inner Structure

Haier Easy MRV Connection Kit consists the following 2 parts.



High Compatible

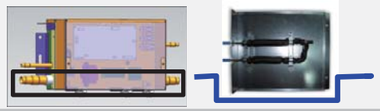
•Provide a new solution with MRV outdoor and Super Match indoor units to dealers/consumers, more compatible, stock reduced.
•Super match new Hi-wall NF, NH unit and console type can be directly connected with MRV outdoor.

House / Villa

Apartment

Small Office

Easy Installation

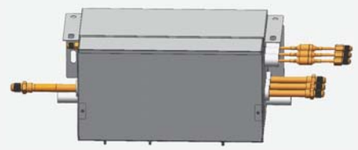
EXV part and Control part integration, easy for translation and installation. Gas pipe is integrated into the valve box.	Gas pipe no need the bend and welding, easy installation. HAIER  Traditional
Optional installation location EEV box inlet and outlet pipe can be left or right.	Installation can choose 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 16HP 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	36＜X ≤60k	X ≤36k (each indoor)
Power Supply （Ph/V/Hz）	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Size(W/D/H)	310/217/155	310/217/155	394/227/253
Shipping dimensions	509/285/209	509/285/209	687/295/303
Material	Galvanized steel	Galvanized steel	Galvanized steel
Color	Grey	Grey	Grey
Weight/kg	5	5	9
Shipping Weight/kg	7	7	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)	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

PARAMETERS

Easy MRV Outdoor

OUTDOOR	MRV S						MRV III-C				
MODEL	AU482FIERA(G)	AU48NFIERA(G)	AU60NFIERA(G)	AV08NMSETA	AV10NMSETA	AV12NMSETA	AV08NMVESA AV08CMVESA AV08GMVESA	AV10NMVESA AV10CMVESA AV10GMVESA	AV12IMVESA AV12CMVESA AV12GMVESA	AV14IMVESA AV14CMVESA AV14GMVESA	AV16IMVESA AV16CMVESA AV16GMVESA
Photo											
HP	5	5	7	8	10	12	8	10	12	14	16
kW	15	15	18	22.6	28	33.5	22.6	28	33.5	40	45
Power supply	1/220-230/50 1/220-230/60	3/380~400/50	3/380~400/60	3/380~400/50	3/380~400/60		3/380~400/50	3/380~400/60	3/208~230/60		3/460/60

Easy MRV Indoor

Easy MRV indoor is universal indoor unit with Super Match

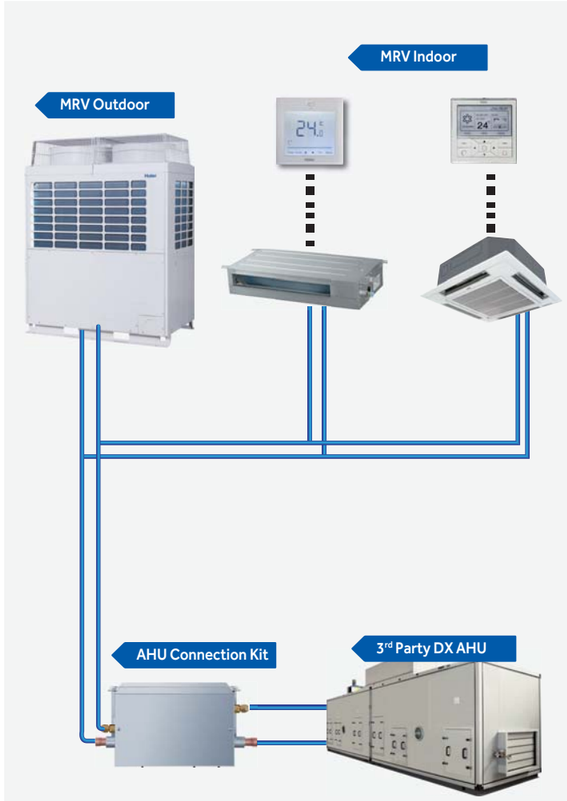
Super Match I INDOOR	PHOTO	7K 2.2	9K 2.8	12K 3.6	15K 4.4	18K 5.5	24K 7.1	28K 8	36K 10	48K 14	60K 16
AQUA Hi-Wall		AS07QS2HRA	AS09QS2HRA	AS12QS2HRA							
N F series		AS07NS1HRA-WU AS07NS1HRA-GU	AS09NS1HRA-WU AS09NS1HRA-GU	AS12NS1HRA-WU AS12NS1HRA-GU	AS15NS1HRA-GU AS15NS1HRA-GU	AS18NS1HRA-WU AS18NS1HRA-GU	AS24NS1HRA-WU AS24NS1HRA-GU				
N H series		AS07BS4HRA	AS09BS4HRA	AS12BS4HRA	AS15BS4HRA	AS18BS4HRA	AS24BS4HRA				
Zircon Hi-Wall		AS07ZB1HRA	AS09ZB1HRA	AS12ZB1HRA		AS18ZB1HRA	AS24ZB1HRA				
Console			AF09AS1ERA	AF12AS1ERA							
Cassette			AB09CS2ERA(S)	AB12CS2ERA(S)		AB18CS2ERA(S)	AB24ES1ERA(S)	AB28ES1ERA(S)	AB36ES1ERA(S)	AB48ES1ERA(S)	AB60CS1ERA(S)
Convertible			AC12CS1ERA(S)	AC18CS1ERA(S)	AC24CS1ERA(S)			AC28ES1ERA(S)	AC36ES1ERA(S)	AC48FS1ERA(S)	AC60FS1ERA(S)
Slim ESP			AD09SS1ERA	AD12SS1ERA	AD18SS1ERA	AD24SS1ERA					
Low ESP duct			AD09LS1ERA	AD12LS1ERA	AD18LS1ERA	AD24LS1ERA					
Medium ESP duct				AD12MS1ERA		AD18MS1ERA	AD24MS1ERA	AD28NS1ERA(S)	AD36NS1ERA(S)	AD48NS1ERA(S)	
High ESP duct										AD48HS1ERA(S)	AD60HS1ERA(S)

MRV AHU CONNECTION KIT

FEATURES & BENEFITS

System Introduction

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



System Application

•Provide a solution for big space to cool down the supply fresh air with MRV outdoor units to match the air handling units. Intergraded the advantages of MRV and AHU units
•Meet the requirement of law in EU, that for every working placel it have to supply at minimum 25 m3/h fresh air.so it means that every office, every shop and mostly every commercial building MUST have this solution.


High rise building without podium


High rise building with podium


Single layer with a large area

System Line up

Haier Easy MRV Provide a wide range of MRV outdoor, valve box and Super Match Indoor solution.

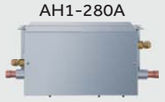
MRV Outdoor


MRV III-C

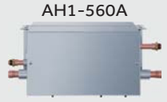

MRV S
8/10/12HP

Valve Box

AH1-280A


5HP(14KW) <Connected AHU capa. ≤10HP(28KW)

AH1-560A

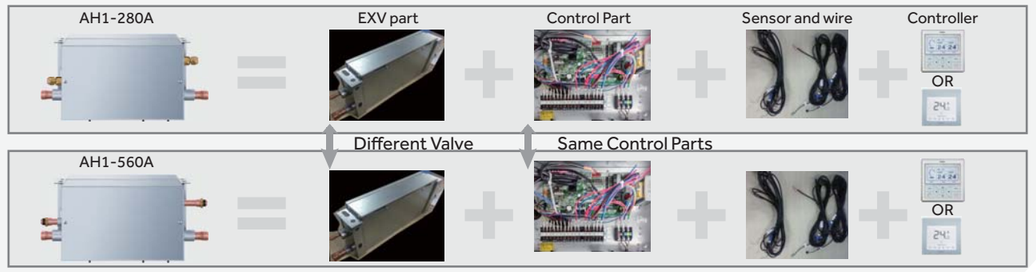

10HP(28KW) <Connected AHU capa. ≤20HP(56KW)

AHU & MRV indoor


AHU need purchase in Market

AHU Kit Configuration

Haier AHU Connection Kit consists the following 4 parts.

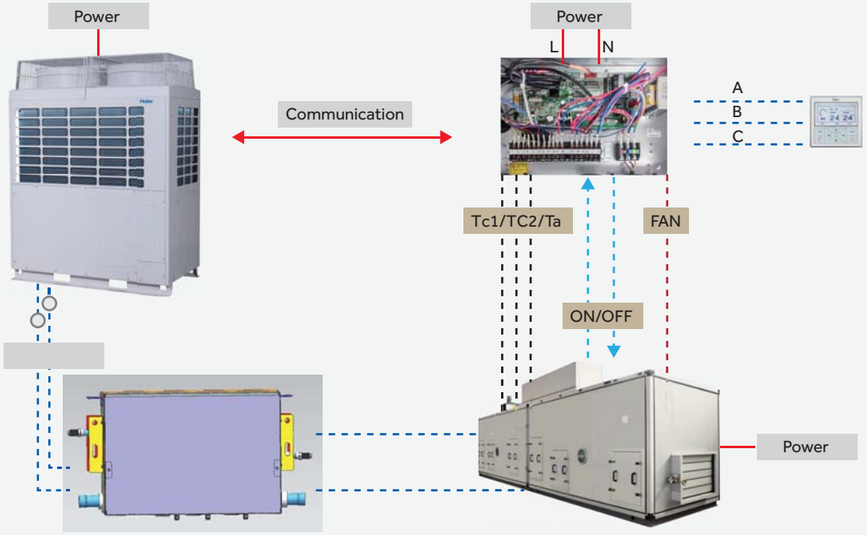


•EXV part, Control part, Sensor and wire are all integrated in one box. •Controller need to be purchased separately.

FEATURES & BENEFITS

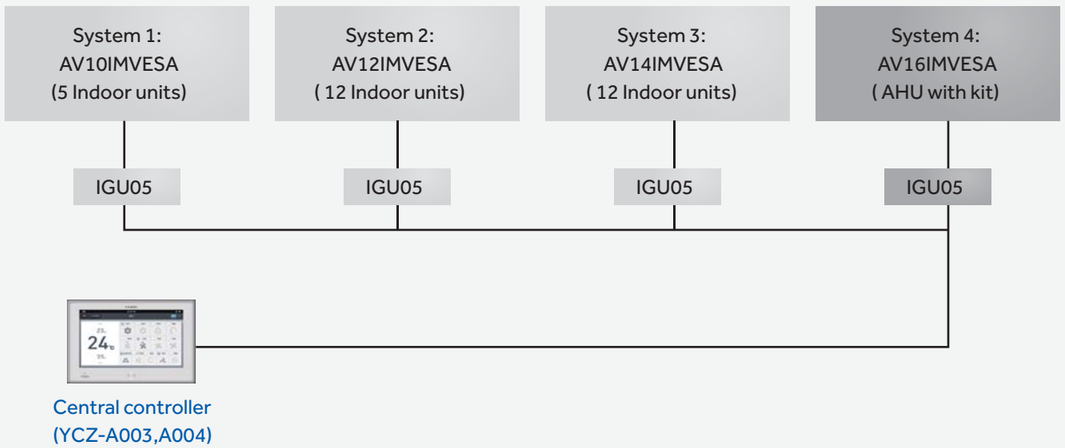
AHU Connection Kit Control

System Control



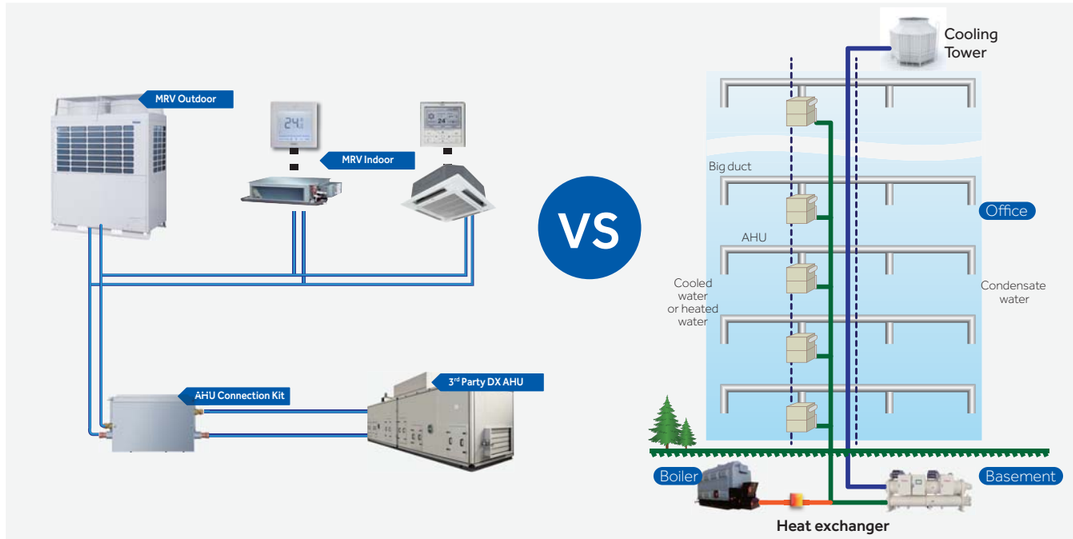
Connection Kit Control

Central Control: AHU control is same as MRV indoor unit control.



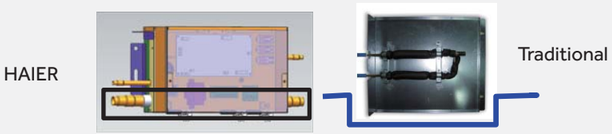
Easy Installation

•Adopting the MRV outdoor ,not the traditional chiller outdoor system, is easy to design and install since no additional water system such as boilers , gas connections, cooling tower etc. are required. This also reduces the total system cost.
•AHU can provide enough cooled fresh air to big space other than HRV and fresh air indoor units.
•All the control system for MRV outdoor is available:
-Wired control -Central control -Net work control -BMS control



EXV part and Control part integration, easy for translation and installation. Gas pipe is integrated into the valve box.

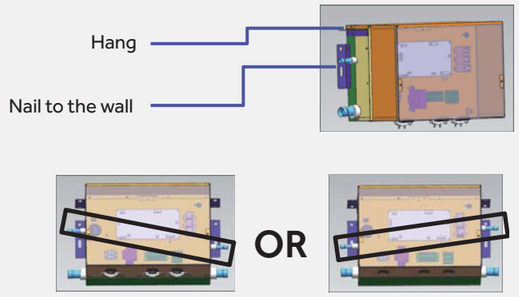
Gas pipe no need the bend and welding, easy installation.



Optional installation location

EEV box inlet and outlet pipe can be left or right.

Installation can choose lifting or nailed to the wall.



FEATURES & BENEFITS

Advantages

Broad capacity	Connected AHU capacity from 5HP to 20HP.
High Compatible	1.Same PCB board with MRV indoor, easy operation and service. 2.Same wired controller can be used with MRV indoor unit such as YR-E16,YR-E17 and YR-E14.
Reliable EEV	EEV is supplied by FUJIKOKI.  

Specification

Model	AH1-280A	AH1-560A
Connected AHU capacity	14≤x ≤28kW(5-10HP)	28＜x ≤56kW(10-20HP)
Power Supply （Ph/V/Hz）	1/220~230/50/60	1/220~230/50/60
Dimention(W/D/H)	350/226/155	433/296/193
Shipping dimensions	606*295*209	667*365*249
Material	Galvanized steel	Galvanized steel
Color	Grey	Grey
Weight/kg	6	9
Shipping Weight/kg	8	12
Liquid pipe (mm)	9.52（Main）/12.7	12.7（Main）/15.88
Gas pipe (mm)	25.4（Main）/22.2 /19.05	28.58（Main）/25.4/22.22
Pipe connection method	Flare connection and welding	Flare connection and welding
Brand box-Indoor Max Single pipe length/m	5	5
Branch box- indoor max drop/m	5	5

MRV OUTDOOR LINE UP

OUTDOOR	MRV S			MRV III-C				
MODEL	AV08NMSETA	AV10NMSETA	AV12NMSETA	AV08NMVESA AV08CMVESA AV08GMVESA	AV10NMVESA AV10CMVESA AV10GMVESA	AV12IMVESA AV12CMVESA AV12GMVESA	AV14IMVESA AV14CMVESA AV14GMVESA	AV16IMVESA AV16CMVESA AV16GMVESA
								
HP	8	10	12	8	10	12	14	16
kW	22.6	28	33.5	22.6	28	33.5	40	45
Power supply	3/380-400/50 3/380-400/60			3/380-400/50 3/380-400/60 3/208-230/60 3/460/60				

MRV INDOOR

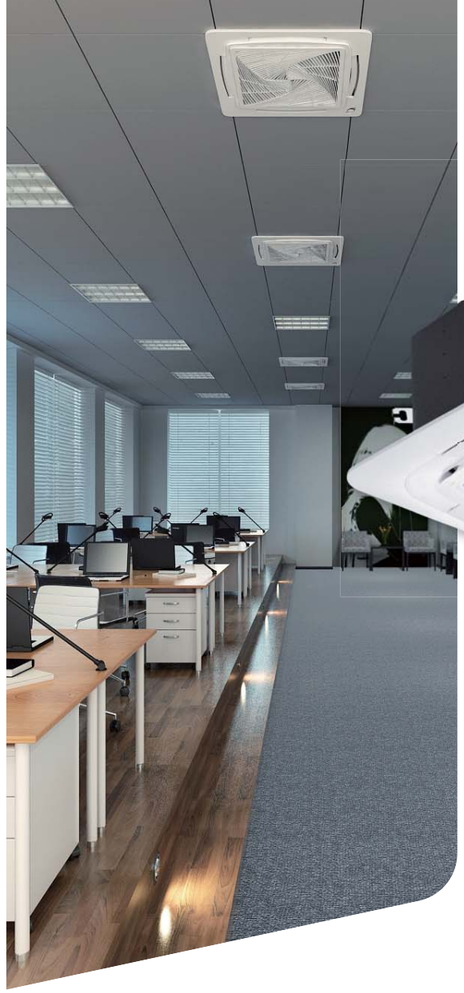
Round-way Smart Air Flow Cassette

AB072MRERA **AB092MRERA** **AB122MRERA** **AB162MRERA** **AB182MRERA** **AB242MRERA**

YR-E17(S)

YR-HBS01(O)

- Unique round-way air outlet, no blind spot
- Innovative 4 independent air flow control
- 6 adjustable louver positions, 1296 air flow combinations
- Move Eye intelligent system, intelligence all around(optional)



Round-way Smart Air Flow Cassette

AB282MRERA **AB302MRERA** **AB382MRERA** **AB482MRERA** **AB602MRERA**

YR-E17(S)

YR-HBS01(O)

- Unique round-way air outlet, no blind spot
- Innovative 4 independent air flow control
- 6 adjustable louver positions, 1296 air flow combinations
- Move Eye intelligent system, intelligence all around(optional)

Model/Indoor unit			AB072MRERA	AB092MRERA	AB122MRERA	AB162MRERA	AB182MRERA	AB242MRERA
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	1000	1000	1000	1000	1000	1380
	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
Installation	External dimensions(W/D/H)	mm	840/840/183	840/840/183	840/840/183	840/840/183	840/840/183	840/840/204
	Shipping dimensions(W/D/H)	mm	983/983/268	983/983/268	983/983/268	983/983/268	983/983/268	983/983/290
	Net/Shipping weight	kg	28/31	28/31	28/31	28/31	28/31	29/32
	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
Panel	Model name		PB-950KB	PB-950KB	PB-950KB	PB-950KB	PB-950KB	PB-950KB
	External dimensions(W/D/H)	mm	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
	Net/Shipping weight	kg	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9
Controller	Wired (O-Optional/S-Standard)	/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HBS01(O)	YR-HBS01(O)	YR-HBS01(O)	YR-HBS01(O)	YR-HBS01(O)	YR-HBS01(O)

Model/Indoor unit			AB282MRERA	AB302MRERA	AB382MRERA	AB482MRERA	AB602MRERA
Capacity	Cooling	kBtu/h	27.3	30.7	38.2	47.7	54.6
		kW	8	9	11.2	14	16
	Heating	Btu/h	30.7	34.1	42.6	54.6	61.2
		kW	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
Performance	Air flow (H)	m³/h	1380	2050	2050	2100	2100
	Sound pressure level(H/M/L)	dB(A)	37/35/31	37/35/31	37/35/31	44/40/36	44/40/36
Installation	External dimensions(W/D/H)	mm	840/840/204	840/840/246	840/840/246	840/840/288	840/840/288
	Shipping dimensions(W/D/H)	mm	983/983/290	983/983/331	983/983/331	983/983/373	983/983/373
	Net/Shipping weight	kg	29/32	34/37	34/37	35/38	35/38
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88
Panel	Model name		PB-950KB	PB-950KB	PB-950KB	PB-950KB	PB-950KB
	External dimensions(W/D/H)	mm	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
	Net/Shipping weight	kg	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9
Controller	Wired (O-Optional/S-Standard)	/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HBS01(O)	YR-HBS01(O)	YR-HBS01(O)	YR-HBS01(O)	YR-HBS01(O)

4-WAY CASSETTE

- **AB092MCERA**
- **AB122MCERA**
- **AB162MCERA**

YR-E17(S) YR-HD(O) YR-E16A(O)

- 700x700mm new panel design
- Pre-set fresh air inlet
- Built-in high head drain pump
- Quiet operation

On-Off card | Group control | Central control | Clean air | Auto-swing | 4-way airflow | Auto restart | 3 min 3 minutes protection | 24 hours timer | -5°C Lowambient cooling | Blue fin | -20°C HEATING Lowambient heating | Drain water pump

Model/Indoor unit			AB092MCERA	AB122MCERA	AB162MCERA
Capacity	Cooling	kBtu/h	9.5	12.3	15.3
		kW	2.8	3.6	4.5
	Heating	Btu/h	10.9	13.6	17.1
		kW	3.2	4	5
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m^3/h	700	700	700
	Sound pressure level(H/M/L)	dB(A)	32/30/29	32/30/29	33/30/29
	Sound power level(H/M/L)	dB(A)	46/44/43	46/44/43	47/44/43
Installation	External dimensions(W/D/H)	mm	570/570/260	570/570/260	570/570/260
	Shipping dimensions(W/D/H)	mm	718/680/380	718/680/380	718/680/380
	Net/Shipping weight	kg	17/21	19/23	19/23
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	12.7	12.7
Panel	Model name		PB-700IB	PB-700IB	PB-700IB
	External dimensions(W/D/H)	mm	700/700/60	700/700/60	700/700/60
	Shipping dimensions(W/D/H)	mm	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
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)		YR-HD(O)	YR-HD(O)	YR-HD(O)

4-WAY CASSETTE

- **AB182MCERA**
- **AB242MCERA**
- **AB282MCERA**

YR-E17(S) YR-HD(O) YR-E16A(O)

- Compact design
- Pre-set fresh air inlet
- Built-in high head drain pump
- Reserve branch outlet

On-Off card | Group control | Central control | Clean air | Auto-swing | 4-way airflow | Auto restart | 3 min 3 minutes protection | 24 hours timer | -5°C Lowambient cooling | Blue fin | -20°C HEATING Lowambient heating | Drain water pump

Model/Indoor unit			AB182MCERA	AB242MCERA	AB282MCERA
Capacity	Cooling	kBtu/h	19.1	24.2	27.3
		kW	5.6	7.1	8
	Heating	Btu/h	21.5	27.3	30.7
		kW	6.3	8	9
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m^3/h	1200	1200	1200
	Sound pressure level(H/M/L)	dB(A)	34/32/30	35/34/31	37/35/31
	Sound power level(H/M/L)	dB(A)	48/46/44	49/48/45	51/49/45
Installation	External dimensions(W/D/H)	mm	840/840/240	840/840/240	840/840/240
	Shipping dimensions(W/D/H)	mm	930/930/330	930/930/330	930/930/330
	Net/Shipping weight	kg	30/32.5	30/32.5	30/32.5
	Refrigerant liquid pipe	mm	6.35	9.52	9.52
	Refrigerant gas pipe	mm	12.7	15.88	15.88
Panel	Model name		PB-950JB	PB-950JB	PB-950JB
	External dimensions(W/D/H)	mm	950/950/60	950/950/60	950/950/60
	Shipping dimensions(W/D/H)	mm	992/992/115	992/992/115	992/992/115
	Net/Shipping weight	kg	6/7.5	6/7.5	6/7.5
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)		YR-HD(O)	YR-HD(O)	YR-HD(O)

4-WAY CASSETTE

AB302MCERA
AB382MCERA
AB482MCERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Compact design
- Pre-set fresh air inlet
- Built-in high head drain pump
- Reserve branch outlet

2-WAY CASSETTE

AB072MBERA
AB092MBERA
AB122MBERA
AB162MBERA
AB182MBERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Compact design: only 220mm height
- Built in high head drain pump
- Ceiling antifouling design unique antifouling design
- Quiet operation

On-Off card | Group control | Central control | Clean air | Auto-swing | 4-way airflow | Auto restart | 3 min 3 minutes protection | 24 hours timer | Lowambient cooling | Blue fin | -20°C HEATING Lowambient heating | Drain water pump

Model/Indoor unit			AB302MCERA	AB382MCERA	AB482MCERA
Capacity	Cooling	kBtu/h	30.7	38.2	47.7
		kW	9	11.2	14
	Heating	Btu/h	34.1	42.6	54.6
		kW	10	12.5	16
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H)	m³/h	1800	1800	1800
	Sound pressure level(H/M/L)	dB(A)	37/35/31	37/35/31	42/39/35
	Sound power level(H/M/L)	dB(A)	51/49/45	51/49/45	56/53/49
Installation	External dimensions(W/D/H)	mm	840/840/295	840/840/295	840/840/295
	Shipping dimensions(W/D/H)	mm	930/930/390	930/930/390	930/930/390
	Net/Shipping weight	kg	38/40	38/40	38/40
	Refrigerant liquid pipe	mm	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88
Panel	Model name		PB-950JB	PB-950JB	PB-950JB
	External dimensions(W/D/H)	mm	950/950/60	950/950/60	950/950/60
	Shipping dimensions(W/D/H)	mm	992/992/115	992/992/115	985/985/115
	Net/Shipping weight	kg	6/7.5	6/7.5	6/7.5
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)		YR-HD(O)	YR-HD(O)	YR-HD(O)

On-Off card | Group control | Central control | Clean air | Auto-swing | Auto restart | 3 min 3 minutes protection | 24 hours timer | Lowambient cooling | Blue fin | -20°C HEATING Lowambient heating | Drain water pump

Model/Indoor unit			AB072MBERA	AB092MBERA	AB122MBERA	AB162MBERA	AB182MBERA
Capacity	Cooling	kBtu/h	7.5	9.6	12.3	15.4	19.1
		kW	2.2	2.8	3.6	4.5	5.6
	Heating	Btu/h	8.5	10.9	13.7	17.1	21.5
		kW	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
Performance	Air flow (H)	m³/h	840	840	840	840	840
	Sound pressure level(H/M/L)	dB(A)	42/37/33	42/37/33	42/37/33	44/39/34	44/39/34
	Sound power level(H/M/L)	dB(A)	55/50/46	55/50/46	55/50/46	57/52/47	57/52/47
Installation	External dimensions(W/D/H)	mm	817/620/220	817/620/220	817/620/220	817/620/220	817/620/220
	Shipping dimensions(W/D/H)	mm	1022×682×274	1022×682×274	1022×682×274	1022/682/247	1022×682×274
	Net/Shipping weight	kg	21/23	21/23	21/23	21/23	21/23
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	12.7	12.7	12.7
Panel	Model name		P2B-1055IB	P2B-1055IB	P2B-1055IB	P2B-1055IB	P2B-1055IB
	External dimensions(W/D/H)	mm	1055/680/68	1055/680/68	1055/680/68	1055/680/68	1055/680/68
	Shipping dimensions(W/D/H)	mm	1097×707×136	1097×707×136	1097×707×136	1097/707/136	1097×707×136
	Net/Shipping weight	kg	7/8	7/8	7/8	7/8	7/8
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)		YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)

CONVERTIBLE

- AC092MCERA
- AC122MCERA
- AC162MCERA
- AC182MCERA
- AC242MCERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Flexible installation, on the floor or on the ceiling
- Ultra thin design, only 199mm thick
- Automatic horizontal and vertical swing
- Reserved fresh air inlet

CONVERTIBLE

- AC282MFERA
- AC302MFERA
- AC382MFERA
- AC482MFERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Flexible installation, on the floor or on the ceiling
- Automatic horizontal and vertical swing
- Reserved fresh air inlet
- Multiple direction for connection pipe setting
- Long-life and high efficiency air purify filter

Model/Indoor unit			AC092MCERA	AC122MCERA	AC162MCERA	AC182MCERA	AC242MCERA
Capacity	Cooling	kBtu/h	9.5	12.3	15.4	19.1	24.2
		kW	2.8	3.6	4.5	5.6	7.1
	Heating	Btu/h	10.9	13.6	17.1	21.5	27.3
		kW	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
Performance	Air flow (H)	m³/h	800	800	800	800	800
	Sound pressure level(H/M/L)	dB(A)	38/35/33	38/35/33	40/37/35	40/37/35	40/37/35
	Sound power level(H/M/L)	dB(A)	51/48/46	51/48/46	53/50/48	53/50/48	53/50/48
Installation	External dimensions(W/D/H)	mm	990/655/199	990/655/199	990/655/199	990/655/199	990/655/199
	Shipping dimensions(W/D/H)	mm	1160/730/280	1160/730/280	1160/730/280	1160/730/280	1160/730/280
	Net/Shipping weight	kg	28.3/34.3	28.3/36.4	28.3/36.4	28.3/36.4	28.3/36.4
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	12.7	12.7	12.7	15.88
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)		YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)

Model/Indoor unit			AC282MFERA	AC302MFERA	AC382MFERA	AC482MFERA
Capacity	Cooling	kBtu/h	27.3	30.7	38.2	48
		kW	8	9	11.2	14
	Heating	Btu/h	30.7	34.1	42.6	55
		kW	9	10	12.5	16
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)	m³/h	2040	2040	2040	2040
	Sound pressure level(H/M/L)	dB(A)	43/40/38	43/40/38	46/42/38	46/42/38
	Sound power level(H/M/L)	dB(A)	56/53/51	56/53/51	59/55/51	59/55/51
Installation	External dimensions(W/D/H)	mm	1580/700/240	1580/700/240	1580/700/240	1580/700/240
	Shipping dimensions(W/D/H)	mm	1720/800/330	1720/800/330	1720/800/330	1720/800/330
	Net/Shipping weight	kg	50/57	50/57	54/61	54/61
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)		YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT SLIM LOW ESP

AD072MSERA
AD092MSERA
AD122MSERA
AD162MSERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Super slim design, only 185mm
- Reserved fresh air inlet
- Built-in high head drain pump
- Friendly design of rear or bottom air return
- Quiet operation
- Static pressure 0/30Pa

Model/Indoor unit			AD072MSERA	AD092MSERA	AD122MSERA	AD162MSERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3	15.3
		kW	2.2	2.8	3.6	4.5
	Heating	Btu/h	8.5	10.9	13.6	17.1
		kW	2.5	3.2	4	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
Performance	Air flow (H)	m³/h	480	480	550	600
	Sound pressure level(H/M/L)	dB(A)	27/24/21	27/24/21	30/28/25	33/30/27
	Sound power level(H/M/L)	dB(A)	41/38/35	41/38/35	44/42/39	47/44/41
Installation	External dimensions(W/D/H)	mm	850/420/185	850/420/185	850/420/185	850/420/185
	Shipping dimensions(W/D/H)	mm	1045/540/270	1045/540/270	1045/540/270	1045/540/270
	Net/Shipping weight	kg	16.5/21.5	16.5/21.5	17.5/22.5	18.5/23.5
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	12.7	12.7
	Static pressure	Pa	0/30	0/30	0/30	0/30
Drain pump	S-standard		S	S	S	S
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT SLIM LOW ESP

AD182MSERA
AD242MSERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Super slim design, only 185mm
- Reserved fresh air inlet
- Built-in high head drain pump
- Friendly design of rear or bottom air return
- Quiet operation
- Static pressure 0/30Pa

Model/Indoor unit			AD182MSERA	AD242MSERA
Capacity	Cooling	kBtu/h	19.1	24.2
		kW	5.6	7.1
	Heating	Btu/h	21.5	27.3
		kW	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	800	930
	Sound pressure level(H/M/L)	dB(A)	33/30/28	36/33/31
	Sound power level(H/M/L)	dB(A)	47/44/42	50/47/44
Installation	External dimensions(W/D/H)	mm	1170/420/185	1170/420/185
	Shipping dimensions(W/D/H)	mm	1365/540/270	1365/540/270
	Net/Shipping weight	kg	22.2/28.2	24/30
	Refrigerant liquid pipe	mm	6.35	9.52
	Refrigerant gas pipe	mm	12.7	15.88
	Static Pressure	Pa	0/30	0/30
Drain Pump	S-standard		S	S
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)

DUCT LOW ESP

AD072MLERA
AD092MLERA
AD122MLERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Ultra thin design, only 220mm
- Knock-down drain pan
- Two-way pipe connection
- Left or right side drain outlet
- Static pressure 0/20Pa

Model/Indoor unit			AD072MLERA	AD092MLERA	AD122MLERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3
		kW	2.2	2.8	3.6
	Heating	Btu/h	8.5	10.9	13.6
		kW	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
Performance	Air flow (H)	m³/h	400	400	500
	Sound pressure level(H/M/L)	dB(A)	35/32/30	35/32/30	35/32/30
	Sound power level(H/M/L)	dB(A)	49/46/44	49/46/44	49/46/44
Installation	External dimensions(W/D/H)	mm	610/500/220	610/500/220	610/500/220
	Shipping dimensions(W/D/H)	mm	710/549/280	710/549/280	710/549/280
	Net/Shipping weight	kg	15/17	15/17	16/18
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	12.7
	Static Pressure(Standard/Max.)	Pa	0/20	0/20	0/20
Drain Pump	O-optional,S-standard,W-without		KT-NP01(Optional)	KT-NP01(Optional)	KT-NP01(Optional)
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT LOW ESP

AD162MLERA
AD182MLERA
AD242MLERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Ultra thin design, only 220mm
- Knock-down drain pan
- Two-way pipe connection
- Left or right side drain outlet
- Static pressure 0/20Pa

Model/Indoor unit			AD162MLERA	AD182MLERA	AD242MLERA
Capacity	Cooling	kBtu/h	15.3	19.1	24.2
		kW	4.5	5.6	7.1
	Heating	Btu/h	17.1	21.5	27.3
		kW	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
Performance	Air flow (H)	m³/h	850	1250	1250
	Sound pressure level(H/M/L)	dB(A)	35/32/30	39/37/35	39/37/35
	Sound power level(H/M/L)	dB(A)	49/46/44	53/51/49	53/51/49
Installation	External dimensions(W/D/H)	mm	1105/500/220	1105/500/220	1105/500/220
	Shipping dimensions(W/D/H)	mm	1174/549/294	1174/549/294	1174/549/294
	Net/Shipping weight	kg	25/27	28/30	28/30
	Refrigerant liquid pipe	mm	6.35	6.35	9.52
	Refrigerant gas pipe	mm	12.7	12.7	15.88
	Static Pressure(Standard/Max.)	Pa	0/20	0/20	0/20
Drain Pump	O-optional,S-standard,W-without		KT-NP01(Optional)	KT-NP01(Optional)	KT-NP01(Optional)
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT MEDIUM ESP

AD182MMERA
AD242MMERA
AD282MMERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Flexible duct connection
- Built in drain pump
- Static pressure 50/96Pa

Model/Indoor unit			AD182MMERA	AD242MMERA	AD282MMERA
Capacity	Cooling	kBtu/h	19.1	24.2	27.3
		kW	5.6	7.1	8
	Heating	Btu/h	21.5	27.3	30.7
		kW	6.3	8	9
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	1200	1200	1200
	Sound pressure level(H/M/L)	dB(A)	36/34/31	36/34/31	39/37/35
	Sound power level(H/M/L)	dB(A)	49/47/44	49/47/44	52/50/48
Installation	External dimensions(W/D/H)	mm	990/650/300	990/650/300	990/650/300
	Shipping dimensions(W/D/H)	mm	1170/860/340	1170/860/340	1170/860/340
	Net/Shipping weight	kg	39/45	39/45	39/45
	Refrigerant liquid pipe	mm	6.35	9.52	9.52
	Refrigerant gas pipe	mm	12.7	15.88	15.88
	Static Pressure(Standard/Max.)	Pa	50/96	50/96	50/96
Drain Pump	O-optional,S-standard,W-without		S	S	S
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT MEDIUM ESP

AD302MMERA
AD382MMERA
AD482MMERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Flexible duct connection
- Built in drain pump
- Static pressure 50/96Pa

Model/Indoor unit			AD302MMERA	AD382MMERA	AD482MMERA
Capacity	Cooling	kBtu/h	30.7	38.2	47.7
		kW	9	11.2	14
	Heating	Btu/h	34.1	42.6	54.6
		kW	10	12.5	16
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50	1/220~230/50	1/220~230/50
Performance	Air flow (H)	m³/h	1900	1900	2100
	Sound pressure level(H/M/L)	dB(A)	39/37/35	41/40/39	41/40/39
	Sound power level(H/M/L)	dB(A)	52/50/48	54/53/52	54/53/52
Installation	External dimensions(W/D/H)	mm	1418/655/350	1418/655/350	1418/655/350
	Shipping dimensions(W/D/H)	mm	1570/813/383	1570/813/383	1570/813/383
	Net/Shipping weight	kg	64/66.7	64/66.7	64/66.7
	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	50/96	50/96	50/96
Drain Pump	O-optional,S-standard,W-without		S	S	S
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT MEDIUM ESP

AD302MNERA
AD382MNERA
AD482MNERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- New compact design:270mm height
- Optional external drain pump
- Flexible duct connection
- Static pressure 80/120Pa

DUCT HIGH ESP

AD182MHERA
AD242MHERA
AD282MHERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Flexible duct connection
- Easy to maintain
- Variable static pressure 100/196Pa setting

Model/Indoor unit			AD302MNERA	AD382MNERA	AD482MNERA
Capacity	Cooling	kBtu/h	30	38	48
		kW	9	11.2	14
	Heating	Btu/h	34	43	55
		kW	10	12.5	16
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	1600	1600	1600
	Sound pressure level(H/M/L)	dB(A)	49/47/43	49/47/43	49/47/43
	Sound power level(H/M/L)	dB(A)	62/60/56	62/60/56	62/60/56
Installation	External dimensions(W/D/H)	mm	1135/742/270	1135/742/270	1135/742/270
	Shipping dimensions(W/D/H)	mm	1355/856/380	1355/856/380	1355/856/380
	Net/Shipping weight	kg	50/56	50/56	50/56
	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	80/120	80/120	80/120
Drain Pump	O-optional,S-standard,W-without		KT-NP01(Optional)	KT-NP01(Optional)	KT-NP01(Optional)
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YYR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

Model/Indoor unit			AD182MHERA	AD242MHERA	AD282MHERA
Capacity	Cooling	kBtu/h	19.1	24.2	27.3
		kW	5.6	7.1	8
	Heating	Btu/h	21.5	27.3	30.73
		kW	6.3	8	9
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	1500	1500	1500
	Sound pressure level(H/M/L)	dB(A)	42/40	42/40	42/40
	Sound power level(H/M/L)	dB(A)	55/53	55/53	55/53
Installation	External dimensions(W/D/H)	mm	975/876/360	975/875/360	975/875/360
	Shipping dimensions(W/D/H)	mm	1050/945/405	1050/945/405	1050/945/405
	Net/Shipping weight	kg	48/58	48/58	48/58
	Refrigerant liquid pipe	mm	6.35	9.52	9.52
	Refrigerant gas pipe	mm	12.7	15.88	15.88
	Static Pressure(Standard/Max.)	Pa	100/196	100/196	100/196
Drain Pump	O-optional,S-standard,W-without		KT-NP01(Optional)	KT-NP01(Optional)	KT-NP01(Optional)
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT HIGH ESP

- **AD302MHERA**
- **AD382MHERA**
- **AD482MHERA**

YR-E17(S) YR-HD(O) YR-E16A(O)

- Flexible duct connection
- Variable static pressure 100/196Pa setting

On-Off card | Group control | Central control | Clean air | -20°C HEATING Lowambient heating | Blue fin | Auto restart | 3 min 3 minutes protection | 24 hours timer | -5°C Lowambient cooling

Model/Indoor unit			AD302MHERA	AD382MHERA	AD482MHERA
Capacity	Cooling	kBtu/h	30.7	38.2	47.8
		kW	9	11.2	14
	Heating	Btu/h	34.1	42.6	54.6
		kW	10	12.5	16
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	1560	1600	2100
	Sound pressure level(H/M/L)	dB(A)	45/40	45/40	45/40
	Sound power level(H/M/L)	dB(A)	58/53	58/53	58/53
Installation	External dimensions(W/D/H)	mm	1355/876/360	1355/876/360	1355/876/360
	Shipping dimensions(W/D/H)	mm	1386/966/418	1386/966/418	1386/966/418
	Net/Shipping weight	kg	62/77	62/77	62/77
	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	100/196	100/196	100/196
Drain Pump	O-optional,S-standard,W-without		KT-NP01(Optional)	KT-NP01(Optional)	KT-NP01(Optional)
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

DUCT HIGH ESP

- **AD722MHERA**
- **AD962MHERA**

YR-E17(S) YR-HD(O) YR-E16A(O)

- Flexible duct connection
- Variable static pressure 100/196Pa setting

On-Off card | Group control | Central control | Clean air | -20°C HEATING Lowambient heating | Blue fin | Auto restart | 3 min 3 minutes protection | 24 hours timer | -5°C Lowambient cooling

Model/Indoor unit			AD722MHERA	AD962MHERA
Capacity	Cooling	kBtu/h	77.1	95.6
		kW	22.6	28
	Heating	Btu/h	85.3	105.8
		kW	25	31
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	4050	4050
	Sound pressure level(H/M/L)	dB(A)	54/49	54/49
	Sound power level(H/M/L)	dB(A)	67/62	67/62
Installation	External dimensions(W/D/H)	mm	1725/876/360	1725/876/360
	Shipping dimensions(W/D/H)	mm	1830/990/530	1830/990/530
	Net/Shipping weight	kg	92/100	92/100
	Refrigerant liquid pipe	mm	9.52	9.52
	Refrigerant gas pipe	mm	25.4	25.4
	Static Pressure(Standard/Max.)	Pa	100/196	100/196
Drain Pump	O-optional,S-standard,W-without		KT-NP01(Optional)	KT-NP01(Optional)
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)

BUILT-IN FLOOR STANDING

- **AE072MLERA**
- **AE092MLERA**
- **AE122MLERA**
- **AE162MLERA**
- **AE182MLERA**
- **AE242MLERA**

YR-E17(S) YR-HD(O) YR-E16A(O)

- Require very little installation space: only 220mm
- Good solution for installation beneath a window
- High efficiency filter fitted as standard

On-Off card | Compact design | Central control | Clean air | Blue fin | Auto restart | 3 min 3 minutes protection | 24 hours timer | -5°C Lowambient cooling | -20°C HEATING Lowambient heating

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	750	750	950	950	950
	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	1198/295/707	1198/295/707	1198/295/707	1198/295/707	1198/295/707	1198/295/707
	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 (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)

CONSOLE TYPE

- **AF072MAERA**
- **AF092MAERA**
- **AF122MAERA**
- **AF182MAERA**

YR-HD(S)

- Air discharge through top ang bottom
- Compact design & small space occupation
- Quiet operation

On-Off card | Group control | Central control | Clean air | Blue fin | Auto restart | 3 min 3 minutes protection | 24 hours timer | -5°C Lowambient cooling | -20°C HEATING Lowambient heating

Model/Indoor unit			AF072MAERA	AF092MAERA	AF122MAERA	AF182MAERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3	17
		kW	2.2	2.8	3.6	5.0
	Heating	Btu/h	8.5	10.9	13.6	20.5
		kW	2.5	3.2	4	6
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)	m³/h	460	460	520	580
	Sound pressure level(H/M/L)	dB(A)	43/39/36	43/39/36	43/39/36	48/46/42
	Sound power level(H/M/L)	dB(A)	56/53/49	56/53/49	56/53/49	61/59/55
Installation	External dimensions(W/D/H)	mm	720/255/640	720/255/640	720/255/640	720/255/640
	Shipping dimensions(W/D/H)	mm	784/305/720	784/305/720	784/305/720	784/305/720
	Net/Shipping weight	kg	18/20	18/20	18/20	18/20
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	12.7	12.7	12.7	12.7
Controller	Wired (O-Optional/S-Standard)	/	/	/	/	/
	Infrared(O-Optional/S-Standard)	/	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)

HIGH WALL

- **AS072MGERA**
- **AS092MGERA**
- **AS122MGERA**
- **AS162MGERA**
- **AS182MGERA**
- **AS242MGERA**

YR-HD(S) YR-E17(O) YR-E16A(O)

- Stylish design & LED display
- Built in EEV, easy to installation
- Negative ion, vitamin C, and ESF filter optional

Model/Indoor unit			AS072MGERA	AS092MGERA	AS122MGERA	AS162MGERA	AS182MGERA	AS242MGERA
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	600	600	600	600	800	800
	Sound pressure level(H/M/L)	dB(A)	37/33/31	37/34/31	41/36/33	41/36/33	43/39/34	48/39/37
	Sound power level(H/M/L)	dB(A)	48/44/42	48/45/42	52/47/44	52/47/44	54/50/45	59/50/48
Installation	External dimensions(W/D/H)	mm	938/187/265	938/187/265	938/187/265	938/187/265	1046/239/299	1046/239/299
	Shipping dimensions(W/D/H)	mm	1016/304/360	1016/304/360	1016/304/360	1016/304/360	1111/329/373	1111/329/373
	Net/Shipping weight	kg	10.9/13.1	10.9/13.1	10.9/13.1	10.9/13.1	13/16.5	13/16.5
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Refrigerant gas pipe	mm	12.7	12.7	12.7	12.7	15.88	15.88
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)	YR-HD(O)

MRV INDOOR
Ventilation

DUCT FRESH AIR

AD482MPERA
AD722MPERA
AD962MPERA

YR-E17(S) YR-HD(O) YR-E16A(O)

- Variable static pressure 100~200Pa setting
- Install with other indoor units together, and introduce the outdoor fresh air into indoor

HRV

ERV0150ANN
ERV0260ANN
ERV0800ANN
ERV1000ANN

YR-N07(S)

- Be controlled with other indoor units together
- Efficient heat recovery air processing
- Heat recovery media element

On-Off card | Group control | Central control | Clean air | -15°C HEATING Lowambient heating | Blue fin | Auto restart | 3 min 3 minutes protection | 24 hours timer | -5°C Lowambient cooling

Model/Indoor unit			AD482MPERA	AD722MPERA	AD962MPERA
Capacity	Cooling	kBtu/h	47.7	77.1	95.5
		kW	14	22.6	28
	Heating	Btu/h	30.4	51.8	60.8
		kW	8.9	15.2	17.8
Electrical Parameters	Power supply	Ph/V/Hz	1/220~230/50/60	1/220~230/50/60	1/220~230/50/60
Performance	Air flow (H)	m³/h	1600	2300	2800
	Sound pressure level(H/M/L)	dB(A)	48	55	55
	Sound power level(H/M/L)	dB(A)	61	68	68
Installation	External dimensions(W/D/H)	mm	1355/876/360	1725/876/360	1725/876/360
	Shipping dimensions(W/D/H)	mm	1386/966/418	1830/990/530	1830/990/530
	Net/Shipping weight	kg	62/77	92/100	92/100
	Refrigerant liquid pipe	mm	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	25.4	25.4
	Static Pressure(Standard/Max.)	Pa	100/185	100/200	100/200
Controller	Wired (O-Optional/S-Standard)	/	YR-E16A(O)	YR-E16A(O)	YR-E16A(O)
		/	YR-E16(O)	YR-E16(O)	YR-E16(O)
		/	YR-E17(S)	YR-E17(S)	YR-E17(S)
	Infrared(O-Optional/S-Standard)	/	YR-HD(O)	YR-HD(O)	YR-HD(O)

Clean air | O2-refresh | Central control | Auto restart | 3 min 3 minutes protection | 24 hours timer

Model/Indoor unit			ERV0150ANN	ERV0260ANN	ERV0800ANN	ERV1000ANN
Electrical	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
	Rated power input	kW	0.1	0.12	0.36	0.36
	Rated current	A	0.55	0.55	1.65	1.65
Performance	Air flow (H)	m³/h	150	260	800	1000
	Sound pressure level(H/L)	dB(A)	44/43	44/43	57/55	57/55
	Sound power level(H/L)	dB(A)	55/54	55/54	68/66	68/66
Installation	External dimensions(W/D/H)	mm	940/685/276	940/685/276	1227/1115/387	1227/1115/387
	Shipping dimensions(W/D/H)	mm	1013/773/345	1013/773/345	1465/1213/430	1465/1213/430
	Net/Shipping weight	kg	28.7/31.2	28.7/31.2	85.5/90.6	85.5/90.6
	Static Pressure	Pa	80	60	120	100
Controller	Wired (O-Optional/S-Standard)	/	YR-N07(S)	YR-N07(S)	YR-N07(S)	YR-N07(S)
	Infrared(O-Optional/S-Standard)	/	/	/	/	/

MRV INDOOR
Easy MRV Indoor

HIGH WALL

AS07QS2ERA
AS09QS2ERA
AS12QS2ERA

YR-HD(S)

- 3D-cant lifting panel
- 6 color lights concealed LED display
- Nano-aqua
- 3D airflow

Model/indoor unit			AS07QS2ERA	AS09QS2ERA	AS12QS2ERA
Capacity	Nominal cooling	Btu/h(nor)	6800	9000	11950
		kW nominal(min-max)	2	2.63(0.9-3.1)	3.5(1.2-3.8)
	Nominal heating	Btu/h(nor)	7850	9220	12290
		kW nominal(min-max)	2.3	2.7(1.2-3.1)	3.6(1.3-4.0)
	Cooling P design(35°C)	kW	2.63	2.63	3.5
	Heating P design(-10°C)	kW	2.5	2.5	3.1
Electrical parameters	Power supply	Ph/V/Hz	1/230/50	1/230/50	1/230/50
Performance	Air flow(H/M/L)	m^3/h	600	600	620
	Sound power level(H/M/L)	dB(A)	51	51	53
	Sound pressure level(H/M/L)	dB(A)	34/30/24/22	34/30/24/22	35/30/25/23
Installation	External dimensions(W/D/H)	mm	860/175/285	860/175/285	860/175/285
	Shipping dimensions(W/D/H)	mm	938/265/360	938/265/360	938/265/360
	Net/Shipping weight	kg	10/11.7	10/11.7	10/11.7
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52
	Controller	Standard	YR-HD(S)	YR-HD(S)	YR-HD(S)
		Option	Please refer to Super Match Catalogue		

HIGH WALL

AS07NS1HRA
AS09NS1HRA
AS12NS1HRA
AS15NS1HRA
AS18NS1HRA
AS24NS1HRA

YR-HD(S)

- Super quiet 22dB(A)
- Nano-aqua
- 3D airflow
- Long distance air supplying
- A-PAM inverter technology

Model/indoor unit			AS07NS1HRA	AS09NS1HRA	AS12NS1HRA	AS15NS1HRA*	AS18NS1HRA	AS24NS1HRA
Capacity	Nominal cooling	Btu/h(nor)	6800	9210	12290	15010	17740	23890
		kW nominal(min-max)	2	2.7 (0.80-3.40)	3.6(1.00-4.20)	4.4(1.3-5.0)	5.2(1.30-6.80)	7.0(2.20-8.50)
	Nominal heating	Btu/h(nor)	7850	9560(4780-10920)	12630(4780-13990)	18430(4780-20480)	19790(5460-20480)	25600(8530-26620)
		kW nominal(min-max)	2.3	2.8(1.00-4.60)	3.7(1.100-5.40)	5.4(1.4-6.0)	5.8(1.40-6.90)	7.5(2.40-9.80)
	Cooling P design(35°C)	kW	2.7	2.7	3.6	4.4	5.2	7
	Heating P design(-10°C)	kW	2.5	2.5	3.2	3.5	4.9	5.1
Electrical parameters	Power supply	Ph/V/Hz	1-230-50	1-230-50	1-230-50		1-230-50	1-230-50
Performance	Air flow(H/M/L)	m^3/h	600	600	650	700	900	1200
	Sound power level(H/M/L)	dB(A)	52	52	54	55	57	62
	Sound pressure level(H/M/L)	dB(A)	39/34/27/21	39/34/27/21	40/35/31/22	44/40/35/28	47/43/37/30	47/43/37/35
Installation	External dimensions(W/D/H)	mm	855X204X280	855X204X280	855X204X280	900×210×310	997x235x322	1115x248x336
	Shipping dimensions(W/D/H)	mm	954×279×355	954×279×355	954×279×355	991×313×399	1085×329×403	1205x341x416
	Net/Shipping weight	kg	10/12.2	10/12.2	10/12.2	11.5/14	13/16	16/19.6
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	15.88	15.88
	Controller	Standard	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)
		Option	Please refer to Super Match Catalogue					

HIGH WALL

- AS07BS4HRA
- AS09BS4HRA
- AS12BS4HRA
- AS15BS4HRA*
- AS18BS4HRA
- AS24BS4HRA

YR-HD(S)

- Super quiet 22dB(A)
- Long distance air supplying
- A-PAM inverter technology

ANTI-MOLD Anti-mold filter · Evaporator self-cleaning · Super quiet · 3 min 3 minutes protection · 24 24 hours timer · Intelligent air · Auto restart · Auto mode · Soft mode · Power mode · Sleep mode · Blue Blue fin · High quality element · High performance compressor · DC INVERTER 180° sine wave

Model/indoor unit			AS07BS4HRA	AS09BS4HRA	AS12BS4HRA	AS15BS4HRA*	AS18BS4HRA	AS24BS4HRA
Capacity	Nominal cooling	Btu/h(nor)	6800	9210	12290	15010	17740	23890
		kW nominal(min-max)	2	2.7 (0.80-3.40)	3.6(1.00-4.20)	4.4(1.3-5.0)	5.2(1.30-6.80)	7.0(2.20-8.50)
	Nominal heating	Btu/h(nor)	7850	9560(4780-10920)	12630(4780-13990)	18430(4780-20480)	19790(5460-20480)	25600(8530-26620)
		kW nominal(min-max)	2.3	2.8(1.00-4.60)	3.7(1.100-5.40)	5.4(1.4-6.0)	5.8(1.40-6.90)	7.5(2.40-9.80)
	Cooling P design(35°C)	kW	2.7	2.7	3.6	4.4	5.2	7
	Heating P design(-10°C)	kW	2.5	2.5	3.2	3.5	4.9	5.1
Electrical parameters	Power supply	Ph/V/Hz	1-230-50	1-230-50	1-230-50	1-230-50	1-230-50	1-230-50
Performance	Air flow(H/M/L)	m^3/h	600	600	650	700	900	1200
	Sound power level(H/M/L)	dB(A)	52	52	54	55	57	62
	Sound pressure level(H/M/L)	dB(A)	39/34/27/21	39/34/27/21	40/35/31/22	44/40/35/28	47/43/37/30	47/43/37/35
Installation	External dimensions(W/D/H)	mm	855X204X280	855X204X280	855X204X280	900×210×310	997x235x322	1115x248x336
	Shipping dimensions(W/D/H)	mm	954×279×355	954×279×355	954×279×355	991×313×399	1085×329×403	1205x341x416
	Net/Shipping weight	kg	10/12.2	10/12.2	10/12.2	11.5/14	13/16	16/19.6
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	15.88	15.88
	Controller	Standard	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)
		Option	Please refer to Super Match Catalogue					

* Models are under development, data is pending;

HIGH WALL

- AS07ZB1HRA
- AS09ZB1HRA
- AS12ZB1HRA
- AS18ZD1HRA
- AS24ZE1HRA

YR-HD(S)

- Super quiet
- Negative ion
- Long distance air supplying
- A-PAM inverter technology

Nano-aqua · ANTI-MOLD Anti-mold filter · Evaporator self-cleaning · Super quiet · Auto mode · Soft mode · Power mode · Sleep mode · 3D big flap · Auto restart · 3 min 3 minutes protection · 24 24 hours timer · Super match · Easy clean design · Integrative design · Quick & easy installation · 2 ways drain piping connection · Blue Blue fin · High quality element · Large "DOUBLE 8" LED display · DC motor · High performance compressor · DC INVERTER 180° sine wave

Model/indoor unit			AS07ZB1HRA	AS09ZB1HRA	AS12ZB1HRA	AS18ZD1HRA	AS24ZE1HRA
Capacity	Nominal cooling	Btu/h(nor)	6830	9210	12290	17740	23890
		kW nominal(min-max)	2(1.1~2.9)	2.7 (0.9~3.2)	3.6(1.40~3.90)	5.2(1.50~5.60)	7.0(2.0~7.3)
	Nominal heating	Btu/h(nor)	7510	9560	12630	19790	25600
		kW nominal(min-max)	2.2(1.3~3.2)	2.8(1.4~3.2)	3.7(1.40~4.1)	5.8(1.6~6.0)	7.5(2.5~7.8)
	Cooling P design(35°C)	kW	2.0	2.7	3.6	5.2	7
	Heating P design(-10°C)	kW	2.0	2.4	3.2	5.2	5.6
Electrical parameters	Power supply	Ph/V/Hz	1/230/50	1-230-50	1-230-50	1-230-50	1-230-50
Performance	Air flow(H/M/L)	m^3/h	630	630	700	900	1200
	Sound power level(H/M/L)	dB(A)	53	53	55	58	63
	Sound pressure level(H/M/L)	dB(A)	39/33/26/23	39/33/26/23	40/35/27/24	45/40/35/33	48/44/37/36
Installation	External dimensions(W/D/H)	mm	805/205/272	805/205/272	805/205/272	960/235/310	1085/245/330
	Shipping dimensions(W/D/H)	mm	900/280/335	900/280/335	900/280/335	1051/328/390	1175/341/416
	Net/Shipping weight	kg	8.6/10.8	8.6/10.8	8.6/10.8	11.7/13.9	14.6/17.8
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7	15.88
	Controller	Standard	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)	YR-HD(S)
		Option	Please refer to Super Match Catalogue				

CONSOLE TYPE

AF09AS1ERA
AF12AS1ERA

YR-HD(S)

- High efficiency filter
- Quiet running
- Compact design
- Fast temp. adjustment
- Blowing up and down

Model/indoor unit			AF09AS1ERA	AF12AS1ERA
Capacity	Nominal cooling	Btu/h(nor)	8500	12000
		kW nominal(min-max)	2.5(1.3-3.0)	3.5(1.4-4.0)
	Nominal heating	Btu/h(nor)	9550	13000
		kW nominal(min-max)	2.8(1.4-3.2)	3.80(1.4-4.1)
	Cooling P design(35°C)	kW	2.5	3.5
	Heating P design(-10°C)	kW	2.1	2.7
Electrical parameters	Power supply	Ph/V/Hz	1/230/50	1/230/50
Performance	Air flow(H/M/L)	m^3/h	450	500
	Sound power level(H/M/L)	dB(A)	53	54
	Sound pressure level(H/M/L)	dB(A)	39/35/30/26	40/36/32/28
Installation	External dimensions(W/D/H)	mm	720x253x640	720x253x640
	Shipping dimensions(W/D/H)	mm	784x305x719	784x305x719
	Net/Shipping weight	kg	17/19.5	17.5/20
	Refrigerant liquid pipe	mm	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52
	Controller	Standard	YR-HD(S)	YR-HD(S)
		Option	Please refer to control system in page 26	

CONTROL SYSTEM

CONTROL SYSTEM

User Friendly Management Control Solution

Integrated Management

Convenient and efficient, Haier controllers realize the co-management of Super match and MRV in one system, providing you more combination choices for better managing large or middle-sized buildings.

Building Management

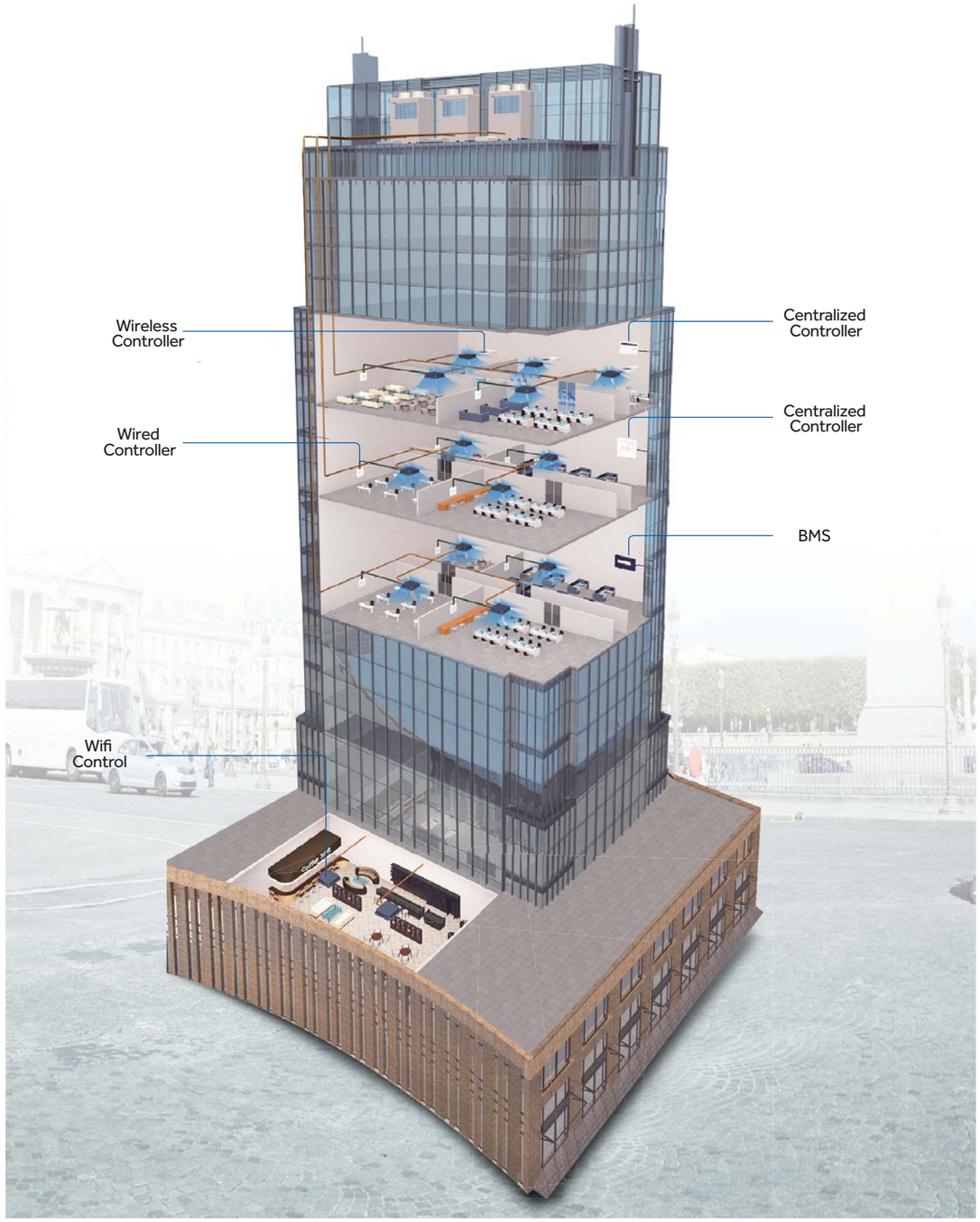
The excellent building management system provides a professional and reliable service for a better management of your air conditioning units.

Intelligent Management

"Haier Smart AC" provides an intelligent and personalized experience for your smart life.

Applications

Haier control products are designed to provide you a perfect solution for the small, medium or large commercial projects.



CONTROL SYSTEM

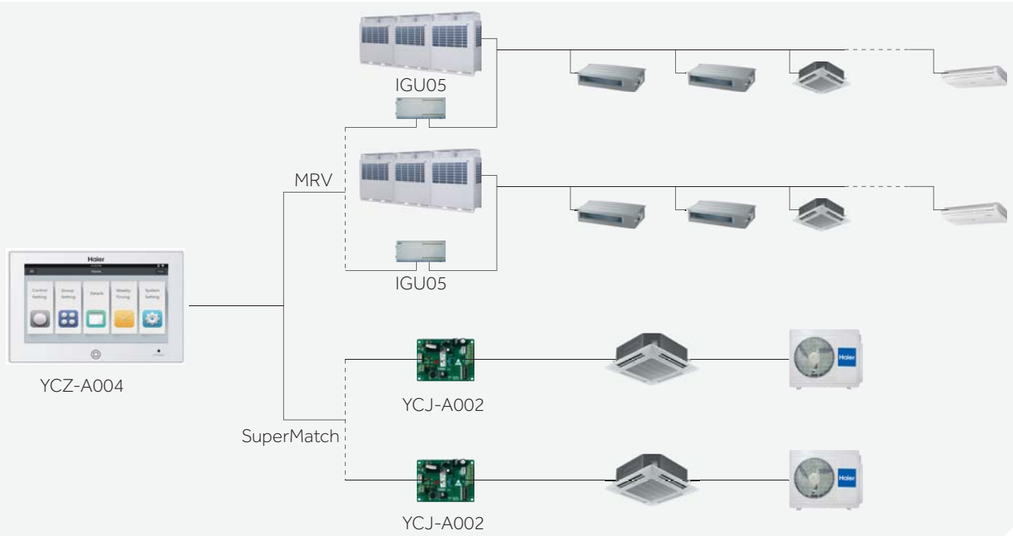
Star Products

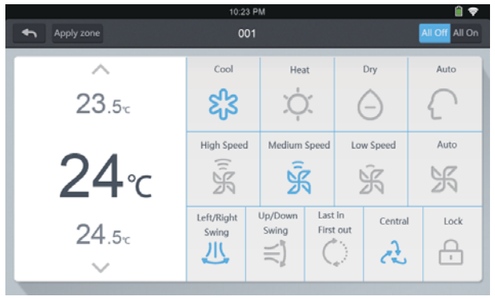
YCZ-A004 is a smart touch screen controller enabling remote management of up to 256 indoor units.

YCZ-A004

- •Individual control, Group control & Central control (Max 256 indoor units)
- •7-inch TFT LCD touch screen with back light
- •Schedule control
- •Operation mode lock
- •Control mode setting (LIFO, Central, Lock)
- •User editable control logic
- •Indoor units' information edit
- •Error display
- •Fire alarm terminal
- •Historical data backup

YCZ-A004 System



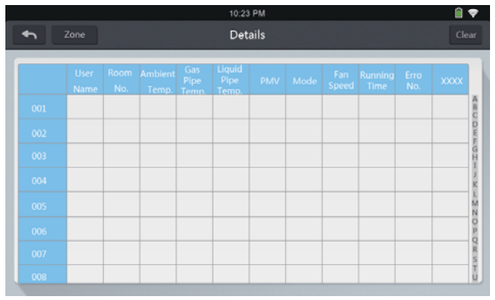


Control and Monitoring

- •Control and monitoring up to 256 indoor units.
- •Operation control: mode, temperature, fan, swing.
- •All ON/OFF
- •Icon based indoor units display

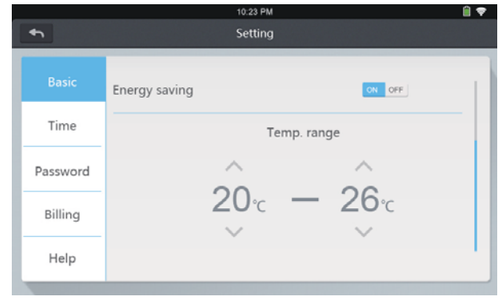
Zone Management

- •Zoning control the indoor units according to user's demands.
- •Zone control: zone creation, edition, deletion



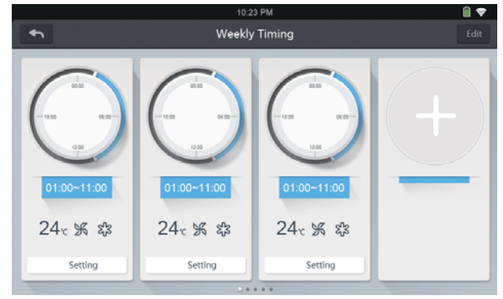
Cycle Monitoring

- •Monitoring indoor unit running status



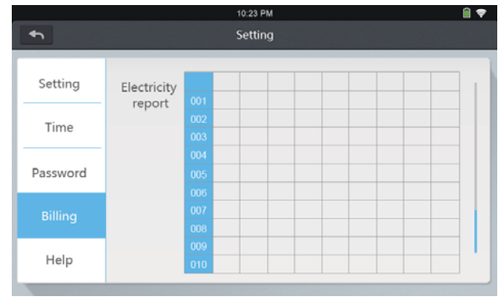
Energy Saving Function

- •Operation mode lock
- •Upper/lower temperature limit setting for different zones/ groups



Schedule Control

- •Weekly/ Daily schedule control without setting number limitation.
- •Free combination
- •Schedule edit (add, edit, delete)
- •Detailed operation setting



Power Distribution & Report

- •Data query
- •Electricity report download .

CONTROL SYSTEM

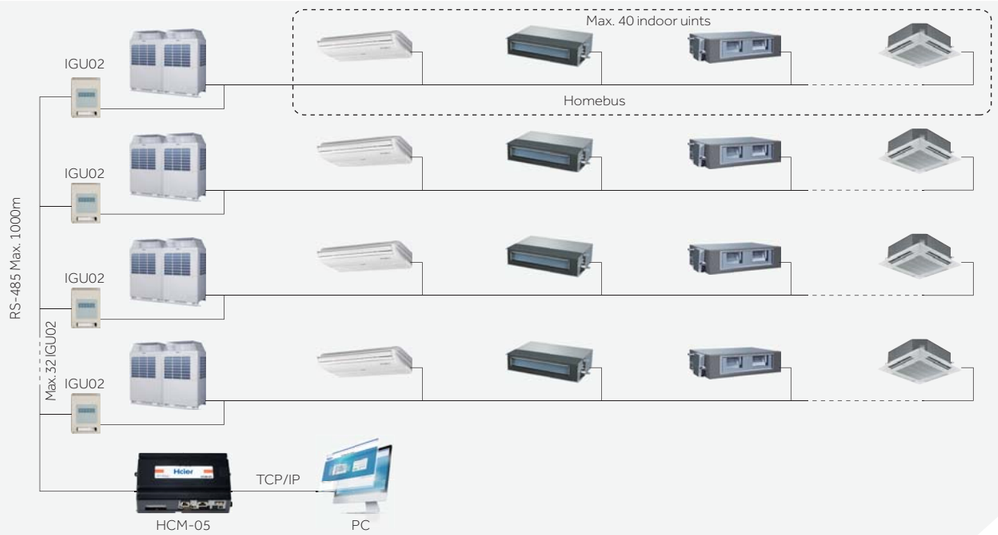
Star Products

Powerful and integrated solution for medium or large commercial projects, enabling control of 250/500 indoor units.

HCM-05/HCM-05(A)

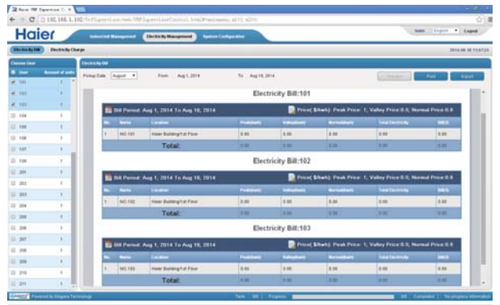
- Remote monitoring version
- Third party interface: BACnet ip
- Max. 250 indoor units can be controlled for HCM-05; and 500 indoor units for HCM-05(A)
- Max. 32 systems. Each system requires one IGU02.
- Operation status setting & monitoring.
- Schedule setting
- Multi user management with different authorized levels
- Electricity charge report
- Operation and Error history log
- Cooperated technology with Honeywell

HCM-05 System



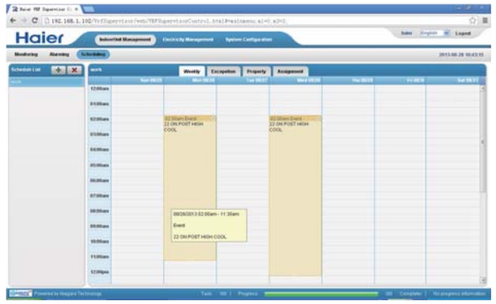
Control and Monitoring

- Control and monitoring up to 250/500 indoor units.
- Operation control: mode, temperature, fan, swing.
- Operation mode lock
- Control mode lock
- Icon based indoor units display



Power Distribution & Report

- Data query
- Electricity price setting for different time sections
- Electricity report preview, print and transmit
- Electricity charges prepaid & comparison

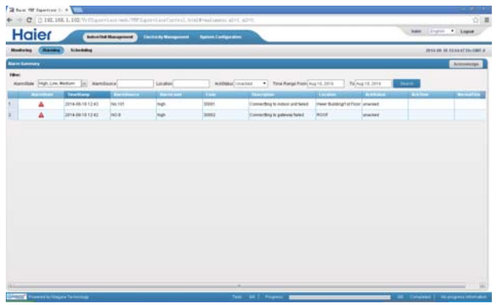


Schedule Control

- Graphical schedule setting
- Free combination
- Schedule edit (add, edit, delete)
- Exception day setting

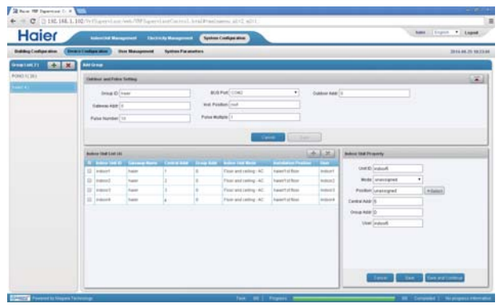
Zone Management

- Zoning control the indoor units according to user's demands
- Zone control: creation, edition, deletion



Error Management

- Error history management
- Detailed error information query



System Configuration

- Building configuration
- Device confirguration
- User management
- System parameters

CONTROL SYSTEM

Individual Controller

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

YR-HBS01

- On/Off, Mode, Fan speed, Temperature setting, Swing
- Individual control
- Five grades fan speed reserved
- Individual blade control for Smart Power Cassette
- Clock & Timer

YR-HD

- On/Off, Mode, Fan speed, Temperature setting, Swing
- Individual control
- Timer
- Clock

YR-E17

- On/Off, Mode, Fan speed, Temperature setting, Swing.
- Individual & Group control (Max 16 indoor units)
- Simple and Smart design, 86*86*13.05mm
- Touch button with back light
- Timer /Clock
- Individual blade control for Smart Power Cassette
- Easy installation, user friendly

YR-E16A

- On/Off, Mode, Fan speed, Temperature setting, Swing
- Individual & Group control (Max 16 indoor units)
- Large touch button
- Fahrenheit/ Celsius selectable; Sensitivity ±0.5°C (±1 ℉)
- Individual blade control for Smart Power Cassette
- Static pressure setting
- Error display in sequence of date

CONTROL SYSTEM

Individual Controller

YR-F02

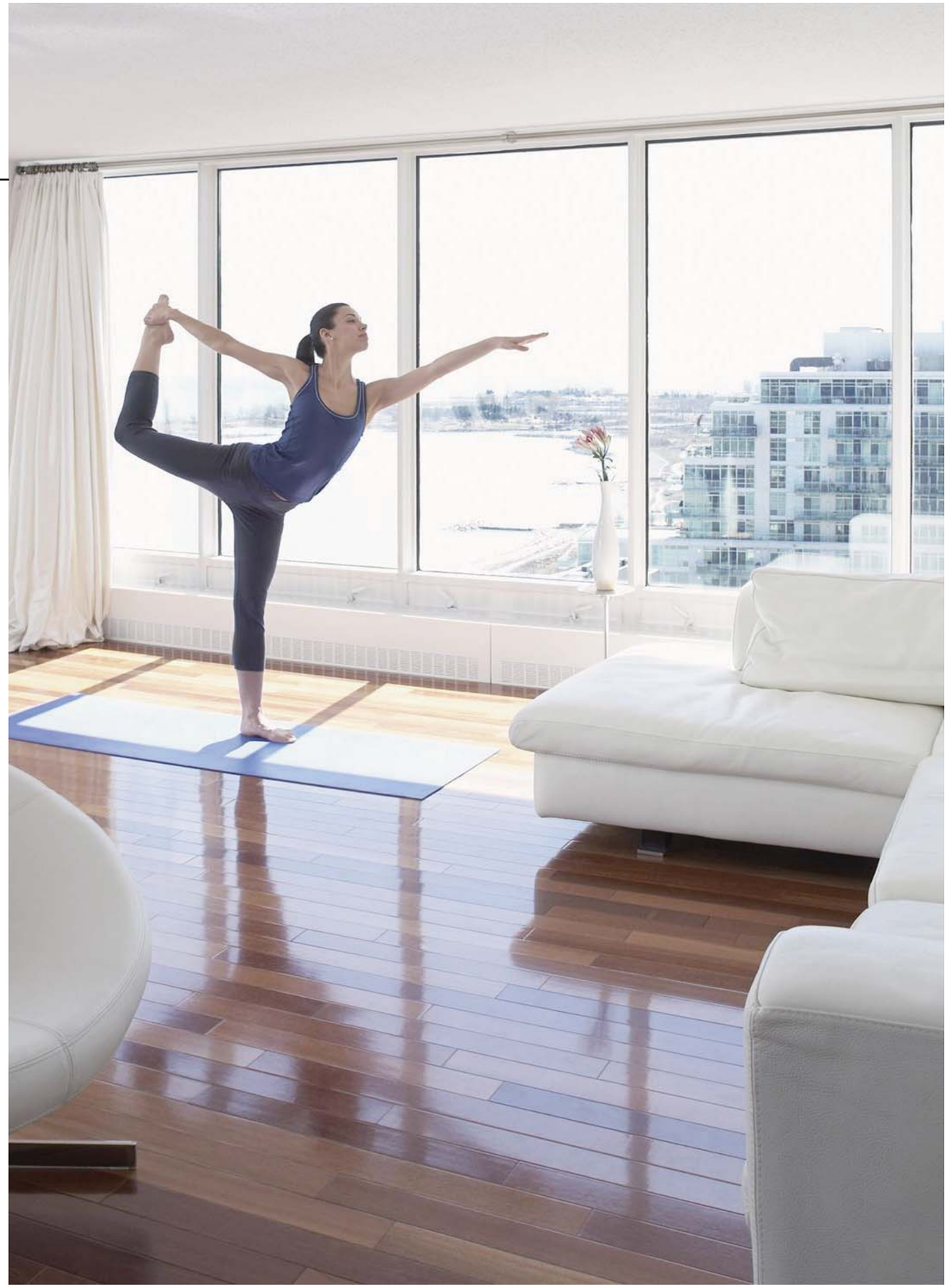
- On/Off, Mode, Fan speed, Temperature setting, Swing
- Individual control
- Group control, Max. 16 units
- Filter
- Check

WIFI Module (KZW-W001)

- Remote control: On/Off, Mode, Fan speed, Temperature setting, Swing.
- Individual & Group control (Max 16 indoor units)
- Cloud adaptation
- Weekly timer
- * A YCJ-A002 is required on some certain indoor units

RE-01/02

- Infrared signal receiver
- Realize the remote control of Duct type indoor unit



CONTROL SYSTEM

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.

YCZ-G001

- Individual control, Group control & Central control (Max 32 indoor units)
- Large touch key
- Weekly timer.
- Unit name & Group name free setting. Four background available (mall, hotel, office, home)
- Error display
- * Must be used in combination with an IGU05 for each MRV system (Max. 16 sets)

YCZ-A004

- Individual control, Group control & Central control (Max 256 indoor units)
- 7-inch TFT LCD touch screen with back light
- Schedule control
- Indoor units' information edit
- * Must be used in combination with an IGU05 for each MRV system. (Max. 32 sets)

YCZ-A003

- Individual control, Group control & Central control (Max 128 indoor units)
- Touch screen with back light
- Schedule control
- Error display
- * Must be used in combination with an IGU05 for each MRV system. (Max. 32 sets)

IGU05

- Protocol adapter, convert Homebus to RS-485
- Match with Central controller (YCZ-G001/A003/A004). An IGU05 can only be used in one system
- Max. 64 indoor units can be connected with one IGU05

CONTROL SYSTEM

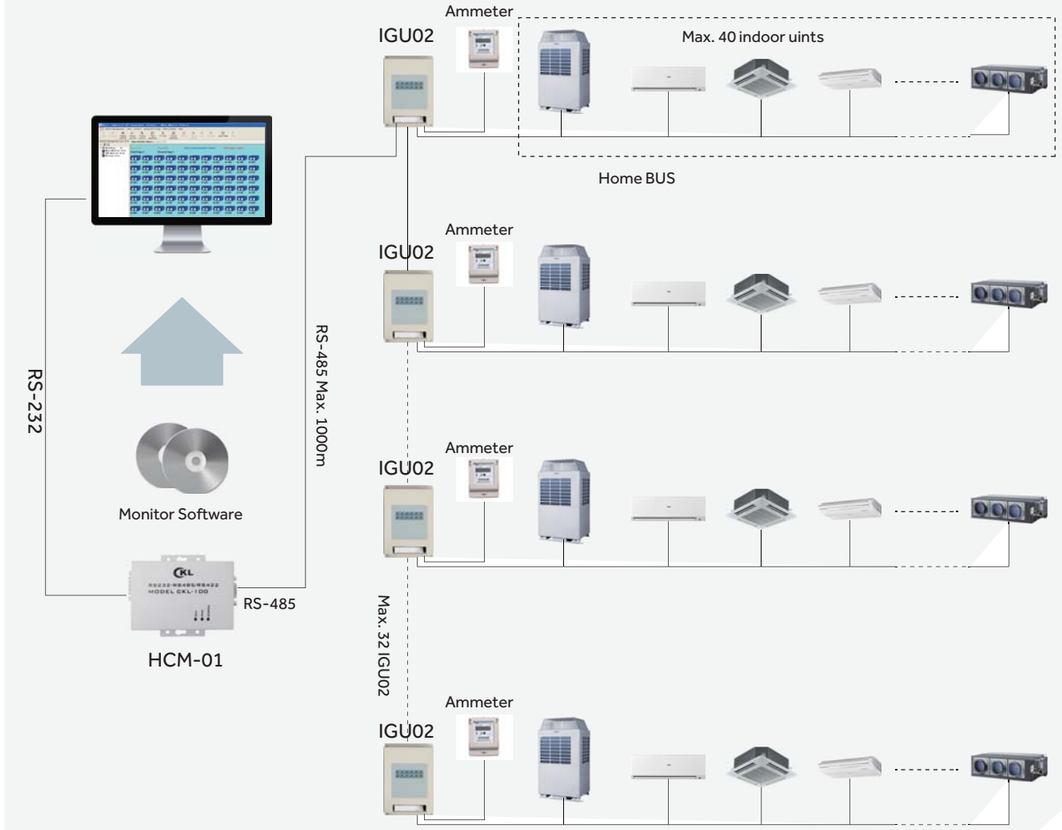
BMS

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

HCM-01

- Local control version; Convert RS-485 to RS-232
- Max. 400 indoor units can be controlled
- Max. 32 systems/ outdoor units, each system unit requires one IGU02.
- Operation status setting & monitoring.
- Schedule setting (weekly, monthly)
- Electricity charge report
- Operation and Error history log

HCM-01 System



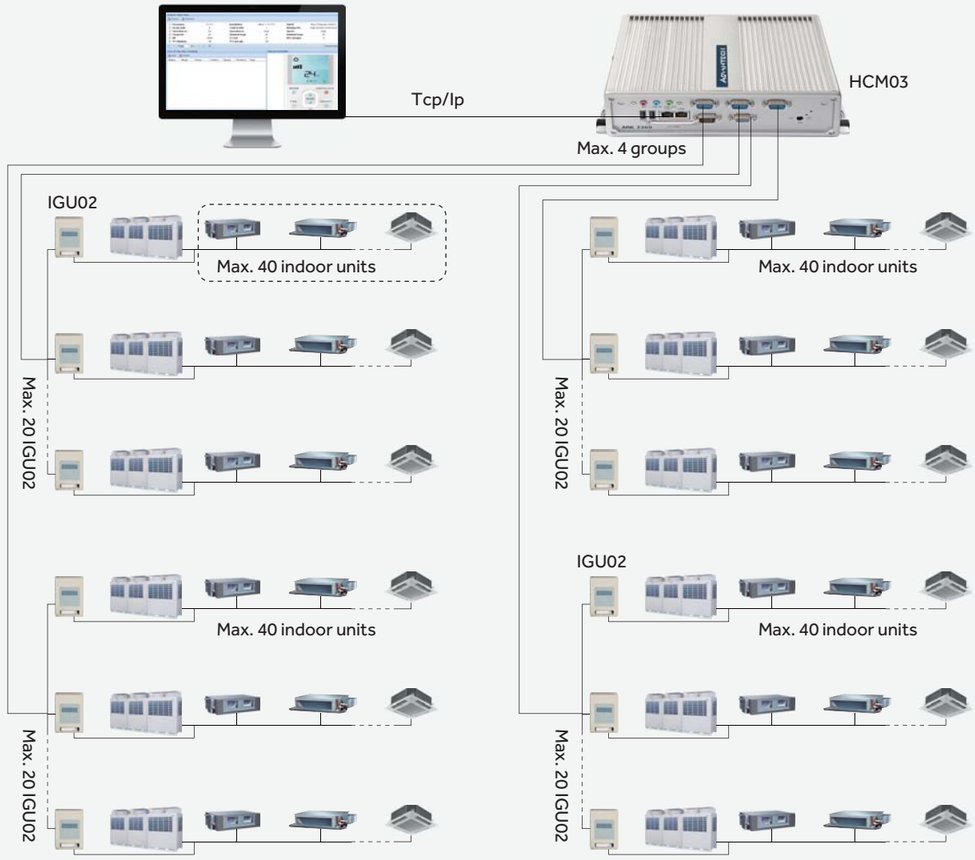
CONTROL SYSTEM

BMS

HCM-03

•Remote monitoring version; Third party interface: BACnet ip/ Modbus ip/ Modbus rtu
•Max. 1000 indoor units can be controlled
•Max. 4 groups. Each group can connect 20 systems. Each system requires one IGU02.
•Operation status setting & monitoring.
•Schedule setting (weekly, monthly)
•Multi user management with different authorized levels
•Operation and Error history log

HCM-03 System



HCM-05/HCM-05(A)

•Third party interface: BACnet ip
•Max. 250 indoor units can be controlled for HCM-05; and 500 indoor units for HCM-05(A)
•Max. 32 systems. Each system requires one IGU02.
•Multi user management with different authorized levels
•Cooperated technology with Honeywell

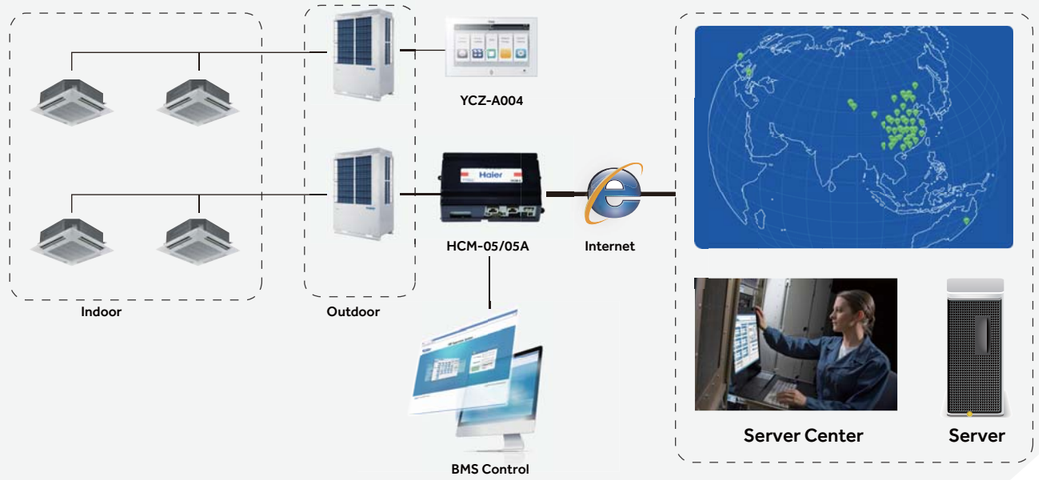
IGU02

•Protocol adapter, convert Homebus to RS-485
•Match with BMS (HCM-01, 03, 05, 05A). Each system requires one IGU02
•Max. 40 indoor units can be connected with one IGU02
•Electricity data collection, calculation, allocation and storage.

Cloud Services Platform

•7*24 Personalized Long-distance monitoring & service
•Malfunction alarm and error solving suggestions
•Power consumption data collection and analysis

Intelligent Cloud Services



CONTROL SYSTEM

BMS

IGU06

- Protocol adapter, convert Homebus to Modbus
- Max. 64 indoor units can be controlled
- Match with IGU07 to realize the Lonworks gateway function
- Max. 32 indoor units can be connected with one IGU06 when connecting with the IGU07

IGU07

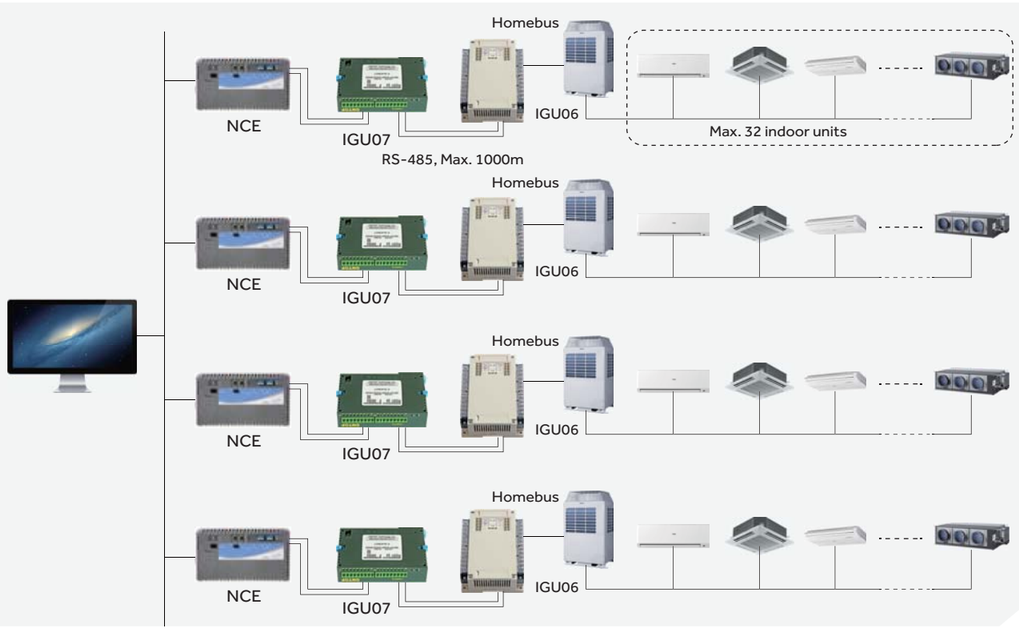
- Protocol adapter, convert Modbus to Lonworks
- Each system requires one IGU07+ IGU06
- Max. 32 indoor units can be connected in one system
- External 24V DC power supply is needed by IGU07.

HA-WA1

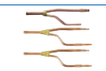
- Gateway: Modbus rtu
- Protocol adapter: Convert Homebus to RS-485
- Max.64 indoor units can be connected with one AD-GA1
- Replacement of IGU05

*Designed to be launched on June, 2016

LonWorks System



Accessories

Name	Design	Model	Functions	For what units
Gather pipe		HZG-20A	Refrigerant gathering	2 outdoor units
Gather pipe		HZG-30A	Refrigerant gathering	3 outdoor units
Gather pipe		HZG-20B	Refrigerant gathering	MRV IV-C, 2 outdoor units
Gather pipe		HZG-30B	Refrigerant gathering	MRV IV-C, 3 outdoor units
Gather pipe		HZG-R20A	Refrigerant gathering for heat recovery MRV	2 outdoor units
Gather pipe		HZG-R30A	Refrigerant gathering for heat recovery MRV	3 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 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 MRV IV-C	Total indoor capacity ＞135,000 W
VP box		VP1-112A	Vavle pipe box	MRV III-RC(heat recovery)
VP box		VP1-180A	Vavle pipe box	MRV III-RC(heat recovery)
VP box		VP1-280A	Vavle pipe box	MRV III-RC(heat recovery)

REFERENCE PROJECTS

Country: Algeria

Project Name: Hotel-amillia bab ezzouar
Product Series: MRVII-C




Country: Algeria

Project Name: Hotel-Akbou Bedjaia
Product Series: MRVII-C&MRVIII-C




Country: Algeria

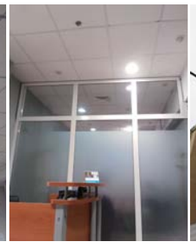
Project Name: AGB Bank
Product Series: MRVII-C



Country: Algeria

Project Name: Al Qods
Product Series: MRVII






Country: Algeria

Project Name: Invest Inox Office
Product Series: MRVII




REFERENCE PROJECTS

Country: Algeria

Project Name: Mole Fix Office
Product Series: MRVII-C




Country: Algeria

Project Name: PPT Tipaza Office
Product Series: MRVII-C






Country: Algeria

Project Name: Ofarco Office
Product Series: MRVII-S


Country: Algeria

Project Name: Telecom Com Office
Product Series: MRVII-C






REFERENCE PROJECTS

Country: Algeria

Project Name: Mobil Art
Product Series: MRV-S&MRVIII








Country: Algeria

Project Name: Tapis office and showroom
Product Series: MRVII-C








REFERENCE PROJECTS

Country: Algeria

Project Name: Tapis office and showroom
Product Series: MRV-C






Country: Angola

Project Name: Cabinda Stadium
Product Series: MRVII-C



Country: Bulgaria

Project Name: Varna Tower
Product Series: MRVII-C



REFERENCE PROJECTS

Country: Czech Republic

Project name: Geosan Group
Product series: MRVIII-C



Country: Czech Republic

Project name: National digital archiv
Product series: MRVII-C



Country: Czech Republic

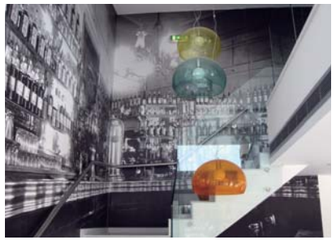
Project name: ZZN Polabi
Product series: MRVIII-C






Country: Cyprus

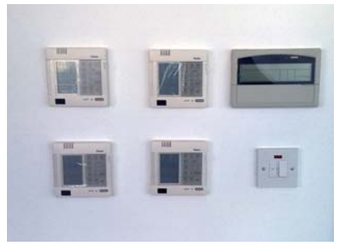
Project Name: Avlogyros
Product Series: MRVII-C2




Project Name: Church at Ayios Theodoros
Product Series: MRVII-C2



Project Name: Coop Kato Varosion
Product Series: MRV-C


REFERENCE PROJECTS

Country: Cyprus

Project Name: House at Pyla Near CTO
Product Series: MRVII-C2

Project Name: Viva Souvenir Shop Ayia Napa
Product Series: MRVII-C2

Project Name: Ydroyios Insurance
Product Series: MRV-C

Country: Hungary

Project Name: National Institute
Product Series: MRVII-C

Project Name: Cordia City Garden Budapest
Product Series: MRVII-C

Project Name: DEC Oncology Medical Center, Debrecen
Product Series: MRVII-C

REFERENCE PROJECTS

Country: Italy

Project Name: Venpa, Brescia
Product Series: MRVII-C



Project Name: Restaurant Hotel Costrz
Product Series: MRVII-C

Project Name: Autosalone(BS)
Product Series: MRVII-C

Country: Iran

Project Name: Jewelry Factory, Mr. Anaraki
Product Series: MRV-III



Country: Iran

Project Name: Ebrahimi's Carpet gallery
Product Series: MRV-III



Country: Iran

Project Name: Takbiri's House
Product Series: MRVII-C2




REFERENCE PROJECTS

Country: Laos

Project Name: Lao President Palace
Product Series： MRVII-C



Country: Mauritius

Project Name： Eben Skies
Product Series： MRVII-C



Country: Mauritius

Project Name： Precigraph
Product Series： MRVII-C



Country: Mauritius

Project Name: EBENE SKIES-port Louis
Product Series: MRVII-C



Country: Mauritius

Project Name： Mr. Bricolage
Product Series： MRVIII-C & HCM-03




REFERENCE PROJECTS

Country: Nigeria

Project Name: Takyi Plaza
Product Series: MRVII-C



Country: Pakistan

Project Name： BNU University
Product Series： MRVIII



Country: Pakistan

Project Name： Barat Ghar
Product Series： MRVII-C



Country: Pakistan

Project Name： Shapes Health club
Product Series： MRVIII



Country: Pakistan

Project Name： Such TV
Product Series： MRVIII

REFERENCE PROJECTS

Country: Pakistan

Project Name： CNS Head Office
Product Series： MRVIII-C



Country: Pakistan

Project Name： Interloop
Product Series： MRVIII-C



Country: Pakistan

Project Name： Centaurus
Product Series： MRVIII-C








Country: Vietnam

Project Name: Nissan Centre
Product Series:MRVII-C



Haier