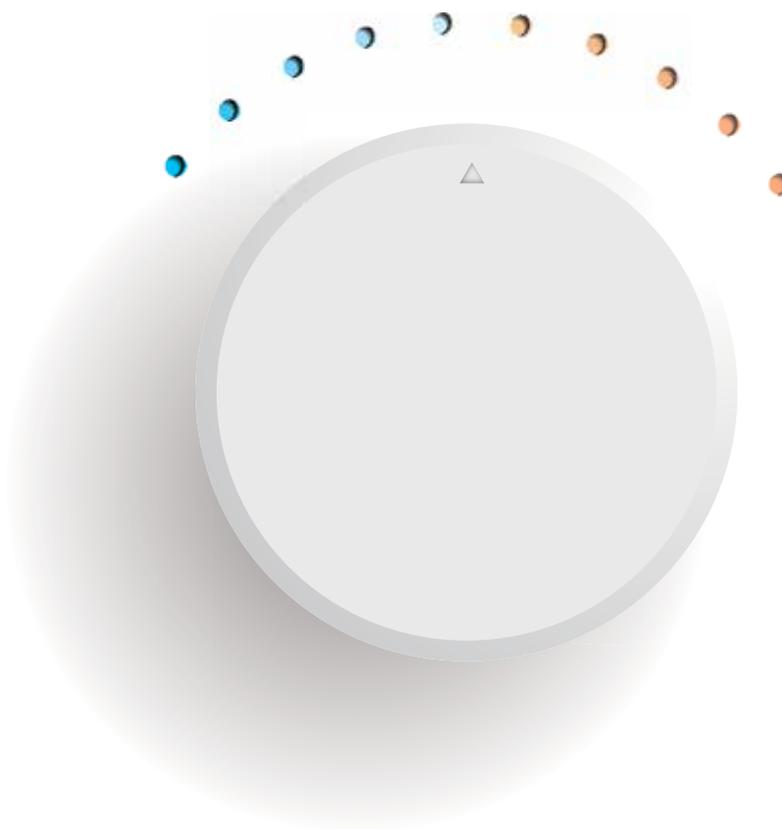


MRV



Haier
Air Conditioning





Haier Brand Story

The Internet era is a diverse and unconventional time, where "one size fits all" products and solutions simply are not 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.

Research and Development Centre

Haier Air Conditioning R&D Centre, located in Qingdao, China, completed in December 2013, covers 20,000 m². It contains more than 120 laboratories, including testing laboratories, key part research laboratories and all-weather user experience simulation laboratories. The R&D centre also has one of the world's tallest towers for testing long refrigerant piping tests and refrigerant lift capabilities to 110m tall.

Research in heating and cooling technology covers the fields of user comfort evaluation, aerodynamics, acoustics, EMC (Electro-Magnetic Compatibility) and mechanical etc. The labs can carry out more than 600 international tests as per ISO, IEC, EN, CISPR and ANSI etc. to meet the requirements of Europe, Asia, America, Australia, Middle East and other 100 countries and regions.

The user experience centre gains recognition by domestic well-known certification and testing institutions. At Haier, we believe that the best air conditioning is one that builds on uncompromising quality control worldwide, developing and manufacturing exceptional products and delivering them to customers everywhere.



HAIER MRV Milestones

2012

Full DC inverter Side discharge outdoor MRV S
Largest capacity of side discharge



2008

MRV III DC Inverter
23 Olympic reference projects in Beijing



2005

Modular combination MRV II
First pure DC inverter in China
Technology from Toshiba



1999

Commercial VRF (C-MRV) First Modular VRF unit in China



1996

Home VRF (Home MRV First unit in China)
Haier first home inverter multi



1993

Haier
Enter into China commercial AC field

2013

MRV III-RC
Heat recovery
(3 pipe system)



MRV W
Water-cooled / MRV



2014

MRV IV
Full DC inverter,
Large single module



2015

MRV IV (T3)
Full DC inverter



2016

MRV III PLUS
Full DC inverter



MRV S^{II}
New platform, new
outlook



2017

MRV S^{II} Launched Globally
Including the first ever
Haier MRV product for
the north american
market





Showroom



Office



Shop



Hotel



CONTENTS



PRODUCT LINE UP

INDOOR UNITS

MRV S

MRV IV

MRVIII-RC

EASY MRV CONNECTION KIT

MRV INDOOR

CONTROLS

PRODUCT LINE UP

INDOOR UNITS

Series	BTU/h (1000's)	5	7	9	12	16	18	24	28	30	38	42	48	54	72	96	
	kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0	
Round Way Cassette			■	■	■	■	■	■	■	■	■		■	■			
Mini 4 Way Cassette		■	■	■	■	■	■										
1 Way Cassette		■	■	■	■												
Duct Slim DC 0-30pa		■	■	■	■	■	■	■									
Duct Med ESP 50-100pa		■	■	■	■	■	■	■	■								
Duct Constant Volume 0-200pa		■	■	■	■	■	■	■	■	■	■	■	■	■			
Duct High ESP 100-196pa															■	■	
Fresh Air Duct													■		■	■	
Hi Wall		■	■	■	■	■	■	■	■	■							
HRV (Heat Recovery Ventilator)		150m ³ /h 260m ³ /h								 500m ³ /h 800m ³ /h 1000m ³ /h							

OUTDOOR UNITS

Series	HP	4	5	6	8	10	12	14	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60								
	kW	12.6	14	15.5	25	28	33.5	40	45	50.4	56	68	73	80	85	90	96	101	106	112	118	123	130	135	141	146	151	157	162	168								
MRV S ^{II}																																						
MRV-IV-C Heat Pump																																						
MRV-III-RC Heat recovery																																						



MRV *INDOOR*

INDOOR UNITS

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DUCT MEDIUM ESP	20
DUCT HIGH ESP	22
DUCT HIGH ESP	24
HIGH WALL	26
DUCT FRESH AIR	28
HEAT RECOVERY VENTILATOR	30



CASSETTE ROUND WAY



- DC fan motor
- Unique round-way air outlet, no blind spot
- Independent air flow louvre control
- 6 adjustable louvre positions, 1296 air flow combinations
- Optional Movement Eye Sensor Panel (PB-950MB)

Specification

Model/indoor unit			AB072MRERA	AB092MRERA	AB122MRERA	AB162MRERA	AB182MRERA
Capacity	Cooling	kBtu/h	7.5	9.5	12.3	15.3	19.1
		kW	2.2	2.8	3.6	4.5	5.6
	Heating	kBtu/h	8.5	10.9	13.6	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/M/L)	m3/h	1000/810/620	1000/810/620	1000/810/620	1000/810/620	1000/810/620
		L/S	277/225/172	277/225/172	277/225/172	277/225/172	277/225/172
	Sound pressure level (H/M/L)	dB(A)	30/27/25	30/27/25	30/27/25	32/29/27	33/30/29
Installation	External dimensions (W/D/H)	mm	840/840/183	840/840/183	840/840/183	840/840/183	840/840/183
	Shipping dimensions (W/D/H)	mm	983/983/268	983/983/268	983/983/268	983/983/268	983/983/268
	Net/Shipping weight	kg	28/31	28/31	28/31	28/31	28/31
	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		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 (Optional)	/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
		/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
	Infrared (Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01

Model/indoor unit			AB242MRERA	AB282MRERA	AB302MRERA	AB382MRERA	AB482MRERA	AB602MRERA
Capacity	Cooling	kBtu/h	24.2	27.3	30.7	38.2	47.7	54.6
		kW	7.1	8	9	11.2	14	16
	Heating	kBtu/h	27.3	30.7	34.1	42.6	54.6	61.2
		kW	8	9	10	12.5	16	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H/M/L)	m3/h	1380/1190/1000	1380/1190/1000	2050/1860/1670	2050/1860/1670	2100/1910/1720	2100/1910/1720
		L/S	383/330/277	383/330/277	569/516/463	569/516/463	583/530/477	583/530/477
	Sound pressure level (H/M/L)	dB(A)	35/34/31	37/35/31	37/35/31	37/35/31	44/40/36	44/40/36
Installation	External dimensions (W/D/H)	mm	840/840/204	840/840/204	840/840/246	840/840/246	840/840/288	840/840/288
	Shipping dimensions (W/D/H)	mm	983/983/290	983/983/290	983/983/331	983/983/331	983/983/373	983/983/373
	Net/Shipping weight	kg	29/32	29/32	34/37	34/37	35/38	35/38
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
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 (Optional)	/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
		/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
	Infrared (Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01	YR-HBS01



CASSETTE MINI 4 - WAY



- DC fan motor
- Compact design
- New panel design 620*620mm
- Fresh air connection
- Low sound level

Specification

Model/indoor unit		AB052MCERA(M)		AB072MCERA(M)		AB092MCERA(M)	
Capacity	Cooling	kBtu/h	5.1	7.5	9.5		
		kW	1.5	2.2	2.8		
	Heating	kBtu/h	5.8	8.5	10.9		
		kW	1.7	2.5	3.2		
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60		
Performance	Air flow (H/M/L)	m3/h	520/450/400	520/450/400	520/450/400		
		L/S	144/125/111	144/125/111	144/125/111		
	Sound pressure level (H/M/L)	dB(A)	32/30/29	32/30/29	32/30/29		
	Sound power level (H/M/L)	dB(A)	46/44/43	46/44/43	46/44/43		
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	17/21	17/21		
	Refrigerant liquid pipe	mm	6.35	6.35	6.35		
	Refrigerant gas pipe	mm	9.52	9.52	9.52		
Panel	Model Name		PB-620KB	PB-620KB	PB-620KB		
	External dimensions(W/D/H)	mm	620/620/60	620/620/60	620/620/60		
	Shipping dimensions(W/D/H)	mm	660/660/115	660/660/115	660/660/115		
	Net/Shipping weight	kg	2.8/4.5	2.8/4.5	2.8/4.5		
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A		
		/	YR-E16B	YR-E16B	YR-E16B		
		/	YR-E17	YR-E17	YR-E17		
	Infrared (Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01		

Model/indoor unit		AB122MCERA(M)		AB162MCERA(M)		AB182MCERA(M)	
Capacity	Cooling	kBtu/h	12.3	15.3	19.1		
		kW	3.6	4.5	5.6		
	Heating	kBtu/h	13.6	17.1	21.5		
		kW	4	5	6.3		
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60		
Performance	Air flow (H/M/L)	m3/h	520/450/400	650/520/450	760/650/520		
		L/S	144/125/111	180/144/125	211/180/144		
	Sound pressure level (H/M/L)	dB(A)	33/30/29	33/30/29	34/32/30		
	Sound power level (H/M/L)	dB(A)	47/44/43	47/44/43	48/46/44		
Installation	External dimensions (W/D/H)	mm	570/570/260	570/570/260	570/570/260		
	Shipping dimensions (W/D/H)	mm	718/680/380	718/680/380	718/680/380		
	Net/Shipping weight	kg	19/23	19/23	19/23		
	Refrigerant liquid pipe	mm	6.35	6.35	6.35		
	Refrigerant gas pipe	mm	12.7	12.7	12.7		
Panel	Model Name		PB-620KB	PB-620KB	PB-620KB		
	External dimensions(W/D/H)	mm	620/620/60	620/620/60	620/620/60		
	Shipping dimensions(W/D/H)	mm	660/660/115	660/660/115	660/660/115		
	Net/Shipping weight	kg	2.8/4.5	2.8/4.5	2.8/4.5		
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A		
		/	YR-E16B	YR-E16B	YR-E16B		
		/	YR-E17	YR-E17	YR-E17		
	Infrared (Optional)	/	YR-HBS01	YR-HBS01	YR-HBS01		



CASSETTE 1-WAY



HW-BA116ABK YR-E17



YR-E16A



YR-E16B



YR-HD

- DC fan Motor
- Ultra thin design
- Ultra low sound level
- Built-in high head drain pump

Specification

Model/indoor unit		AB052MAERA		AB072MAERA	
Capacity	Cooling	kBtu/h	5.1	7.5	
		kW	1.5	2.2	
	Heating	kBtu/h	5.8	8.5	
		kW	1.7	2.5	
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60		
Performance	Air flow (H/M/L)	m ³ /h	530/490/450		
		L/S	147/136/125		
	Sound pressure level (H/M/L)	dB(A)	32/29/24		
	Sound power level (H/M/L)	dB(A)	46/43/38		
Installation	External dimensions (W/D/H)	mm	875/505/185		
	Shipping dimensions (W/D/H)	mm	1028/581/270		
	Net/Shipping weight	kg	15.3/17.9		
	Refrigerant liquid pipe	mm	6.35		
	Refrigerant gas pipe	mm	9.52		
Panel	Model Name		P1B-1050IB		
	External dimensions(W/D/H)	mm	1050/560/122		
	Shipping dimensions(W/D/H)	mm	1133/623/197		
	Net/Shipping weight	kg	5.3/8.3		
Controller	Wired (Optional)	/	YR-E16A		
		/	YR-E16B		
		/	HW-BA116ABK		
		/	YR-E17		
	Infrared (Optional)	/	YR-HD		

Model/indoor unit		AB092MAERA		AB122MAERA	
Capacity	Cooling	kBtu/h	9.6	12.3	
		kW	2.8	3.6	
	Heating	kBtu/h	10.9	13.6	
		kW	3.2	4	
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60		
Performance	Air flow (H/M/L)	m ³ /h	530/490/450		
		L/S	147/136/125		
	Sound pressure level (H/M/L)	dB(A)	32/29/24		
	Sound power level (H/M/L)	dB(A)	46/43/38		
Installation	External dimensions (W/D/H)	mm	875/505/185		
	Shipping dimensions (W/D/H)	mm	1028/581/270		
	Net/Shipping weight	kg	15.3/17.9		
	Refrigerant liquid pipe	mm	6.35		
	Refrigerant gas pipe	mm	9.52		
Panel	Model Name		P1B-1050IB		
	External dimensions(W/D/H)	mm	1050/560/122		
	Shipping dimensions(W/D/H)	mm	1133/623/197		
	Net/Shipping weight	kg	5.3/8.3		
Controller	Wired (Optional)	/	YR-E16A		
		/	YR-E16B		
		/	HW-BA116ABK		
		/	YR-E17		
	Infrared (Optional)	/	YR-HD		

Under Development - Data is Pending



Pictured with optional grille

DUCT SLIM LOW ESP



HW-BA116ABK YR-E17



YR-E16A



YR-E16B



YR-HD

- DC fan motor
- Optional 3D airflow air grille (as pictured above)
- Super slim design, only 185mm
- Built-in high head drain pump
- Field adjustable rear or bottom air return
- Static pressure 0/15/30Pa

Specification

Model/indoor unit			AD052MSERA(D)	AD072MSERA(D)	AD092MSERA(D)
Capacity	Cooling	kBtu/h	5.1	7.5	9.5
		kW	1.5	2.2	2.8
	Heating	kBtu/h	5.8	8.5	10.9
		kW	1.7	2.5	3.2
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/L)	m ³ /h	430/370/310	480/420/360	480/420/360
		L/S	119/102/86	133/116/100	133/116/100
	Sound pressure level (H/M/L)	dB(A)	26/22/19	27/23/20	27/23/20
	Sound power level (H/M/L)	dB(A)	40/36/33	41/37/34	41/37/34
Installation	External dimensions (W/D/H)	mm	850/420/185	850/420/185	850/420/185
	Shipping dimensions (W/D/H)	mm	1045/540/270	1045/540/270	1045/540/270
	Net/Shipping weight	kg	16.5/21.5	17.5/22.5	17.5/22.5
	Refrigerant liquid pipe	mm	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52
	Static Pressure	Pa	0/15/30	0/15/30	0/15/30
Panel (optional)	Panel model	/	P1B-890IA	P1B-890IA	P1B-890IA
	External dimensions (W/D/H)	mm (outlet panel)	890/190/100	890/190/100	890/190/100
		mm (inlet panel)	890/290.5/32.4	890/290.5/32.4	890/290.5/32.4
	Shipping dimensions (W/D/H)	mm	938/335/220	938/335/220	938/335/220
Net/Shipping weight	Kg	4/5	4/5	4/5	
Drain Pump	S-standard,W-without)	/	S	S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02

Model/indoor unit			AD122MSERA(D)	AD162MSERA(D)	AD182MSERA(D)	AD242MSERA(D)
Capacity	Cooling	kBtu/h	12.3	15.3	19.1	24.2
		kW	3.6	4.5	5.6	7.1
	Heating	kBtu/h	13.6	17.1	21.5	27.3
		kW	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
Performance	Air flow (H/M/L)	m ³ /h	550/430/370	600/540/460	800/690/580	930/850/750
		L/S	152/119/102	166/150/127	222/191/161	258/236/208
	Sound pressure level (H/M/L)	dB(A)	30/27/24	32/29/26	33/30/27	36/33/30
	Sound power level (H/M/L)	dB(A)	44/41/38	46/43/40	47/44/41	50/47/43
Installation	External dimensions (W/D/H)	mm	850/420/185	850/420/185	1170/420/185	1170/420/185
	Shipping dimensions (W/D/H)	mm	1045/540/270	1045/540/270	1365/540/270	1365/540/270
	Net/Shipping weight	kg	17.5/22.5	18.5/23.5	22.2/28.2	24/30
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	9.52
	Refrigerant gas pipe	mm	12.7	12.7	12.7	15.88
	Static Pressure	Pa	0/15/30	0/15/30	0/15/30	0/15/30
Panel (optional)	Panel model (optional)	/	P1B-890IA	P1B-890IA	P1B-1210IA	P1B-1210IA
	External dimensions (W/D/H)	mm (outlet panel)	890/190/100	890/190/100	1210/190/100	1210/190/100
		mm (inlet panel)	890/290.5/32.4	890/290.5/32.4	1210/290.5/32.4	1210/290.5/32.4
	Shipping dimensions (W/D/H)	mm	938/335/220	938/335/220	1258/335/220	1258/335/220
Net/Shipping weight	Kg	4/5	4/5	5/6	5/6	
Drain Pump	(S-standard,W-without)	/	S	S	S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)	/	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02



DUCT MEDIUM ESP



HW-BA116ABK YR-E17



YR-E16A



YR-E16B



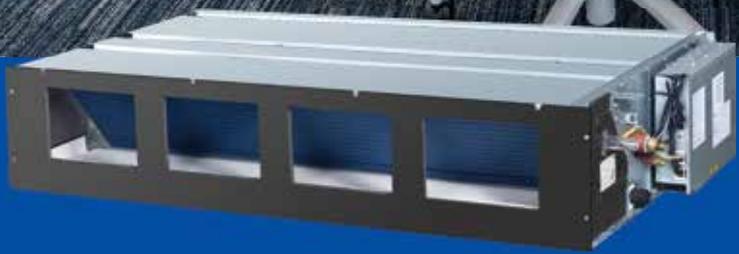
YR-HD

- Slim design, only 250mm
- Fresh air connection
- Built-in high head drain pump
- Field adjustable rear or bottom air return
- Static pressure 50/100Pa

Specification

Model/indoor unit			AD052MJERA	AD072MJERA	AD092MJERA	AD122MJERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3
		kW	1.5	2.2	2.8	3.6
	Heating	kBtu/h	5.8	8.5	10.9	13.6
		kW	1.7	2.5	3.2	4
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
Performance	Air flow (H/M/L)	m3/h	585/495/408	585/495/408	585/495/408	585/495/408
		L/S	162/137/113	162/137/113	162/137/113	162/137/113
	Sound pressure level (H/M/L)	dB(A)	35/33/31	35/33/31	35/33/31	35/33/31
	Sound power level (H/M/L)	dB(A)	39/37/35	39/37/35	39/37/35	39/37/35
Installation	External dimensions (W/D/H)	mm	750/720/250	750/720/250	750/720/250	750/720/250
	Shipping dimensions (W/D/H)	mm	920/820/340	920/820/340	920/820/340	920/820/340
	Net/Shipping weight	kg	24.1/28.3	24.1/28.3	24.1/28.3	24.1/28.3
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	12.7	12.7	12.7	12.7
	Static Pressure (Std/Max)	Pa	50/100	50/100	50/100	50/100
Drain Pump	(S-standard,W-without)	/	S	S	S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17	YR-E17
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
	Infrared (Optional)		YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02

Model/indoor unit			AD162MJERA	AD182MJERA	AD242MJERA	AD282MJERA
Capacity	Cooling	kBtu/h	15.3	19.1	24.2	27.3
		kW	4.5	5.6	7.1	8
	Heating	kBtu/h	17.1	21.5	27.3	30.7
		kW	5	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	1/220-230/50/60
Performance	Air flow (H/M/L)	m3/h	750/652/566	920/805/699	1230/1090/950	1230/1090/950
		L/S	208/181/157	255/223/194	341/30/263	341/30/263
	Sound pressure level (H/M/L)	dB(A)	35/33/31	36/34/32	38/36/34	42/39/35
	Sound power level (H/M/L)	dB(A)	39/37/35	40/38/36	42/40/38	46/43/39
Installation	External dimensions (W/D/H)	mm	750/720/250	1050/720/250	1050/720/250	1050/720/250
	Shipping dimensions (W/D/H)	mm	920/820/340	1170/860/340	1170/860/340	1170/860/340
	Net/Shipping weight	kg	25.9/30.1	30.5/38.0	33.1/40.6	33.1/40.6
	Refrigerant liquid pipe	mm	6.35	6.35	9.52	9.52
	Refrigerant gas pipe	mm	12.7	12.7	15.88	15.88
	Static Pressure (Std/Max)	Pa	50/100	50/100	50/100	50/100
Drain Pump	(S-standard,W-without)	/	S	S	S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	YR-E17	YR-E17	YR-E17	YR-E17
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
	Infrared (Optional)		YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02



DUCT HIGH ESP



HW-BA116ABK YR-E17



YR-E16A



YR-E16B



YR-HD

- DC fan motor
- Slim design, only 280mm
- Built-in high head drain pump
- Static pressure 0-200Pa

Specification

Model/indoor unit		AD072MQERA AD092MQERA AD122MQERA AD152MQERA AD182MQERA AD242MQERA						
Capacity	Cooling	kBtu/h	7.6	9.6	12.1	15.1	18.2	24
		kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kBtu/h	8.6	10.6	13.6	17	20	27
		kW	2.5	3.2	4	5	6.3	8
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)
Performance	Air flow (H/M/L)	m ³ /h	500/410/360	600/510/450	700/580/500	780/680/600	900/780/600	1100/1020/920
		L/S	138/113/100	166/141/125	194/161/138	216/188/166	250/216/166	305/283/255
	Sound pressure level (H/M/L)	dB(A)	30/25/23	30/25/23	32/29/26	32/29/26	32/29/26	33/29/25
Installation	External dimensions (W/D/H)	mm	750/635/280	750/635/280	750/635/280	750/635/280	750/635/280	950/635/280
	Shipping dimensions (W/D/H)	mm	980/740/335	980/740/335	980/740/335	980/740/335	980/740/335	1180/740/335
	Net/Shipping weight	kg	29/35	29/35	29/35	29/35	29/35	34/41
	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	0-200	0-200	0-200	0-200	0-200	0-200
Drain Pump	(S-standard,W-without)	/	S	S	S	S	S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)		YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02

Model/indoor unit		AD282MQERA AD302MQERA AD362MQERA AD422MQERA AD482MQERA AD542MQERA						
Capacity	Cooling	kBtu/h	27.3	30	36	42	48	54
		kW	8	9	11.2	12.5	14	16
	Heating	kBtu/h	30.7	34	40	47	54	60
		kW	9	10	12.5	15	16	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)	1/220-240/50(60)
Performance	Air flow (H/M/L)	m ³ /h	1500/1320/1220	1500/1320/1220	1700/1510/1400	2000/1780/1620	2280/1920/1780	2280/1920/1780
		L/S	416/366/338	416/366/338	472/419/388	555/494/450	633/533/494	633/533/494
	Sound pressure level (H/M/L)	dB(A)	33/29/25	33/29/25	38/36/30	38/36/30	40/34/29	40/34/29
Installation	External dimensions (W/D/H)	mm	950/635/280	950/635/280	1370/740/280	1370/740/280	1370/740/280	1370/740/280
	Shipping dimensions (W/D/H)	mm	1180/740/335	1180/740/335	1555/839/380	1555/839/380	1555/839/380	1555/839/380
	Net/Shipping weight	kg	34/41	34/41	54/68	54/68	54/68	54/68
	Refrigerant liquid pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88	15.88	15.88	15.88
	Static Pressure	Pa	0-200	0-200	0-200	0-200	0-200	0-200
Drain Pump	(S-standard,W-without)	/	S	S	S	S	S	S
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)		YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02	YR-HD & RE-02



DUCT HIGH ESP



HW-BA116ABK YR-E17



YR-E16A



YR-E16B



YR-HD

- Slim design, only 360mm
- Larger capacity sizes for larger spaces.
- Static pressure 100/196Pa

Specification

Model/indoor unit		AD722MHERA		AD962MHERA	
Capacity	Cooling	kBtu/h	77.1	95.6	
		kW	22.6	28	
	Heating	kBtu/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/M/L)	m3/h	4050/3255/2612	4050/3255/2612	
		L/S	1125/904/725	1125/904/725	
	Sound pressure level (H/M/L)	dB(A)	54/51/49	54/51/49	
	Sound Power level (H/M/L)	dB(A)	67/62/59	67/62/59	
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	Pa	100/196	100/196	
Drain Pump	O-optional,S-standard,W-without	/	W	W	
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	
		/	YR-E16B	YR-E16B	
		/	HW-BA116ABK	HW-BA116ABK	
		/	YR-E17	YR-E17	
	Infrared (Optional)	/	YR-HD & RE-02	YR-HD & RE-02	



HIGH WALL



HW-BA116ABK YR-E17



YR-E16A



YR-E16B



YR-HD

- Stylish design
- Built in EEV, easy to install.
- Stylish LED display.
- Sizes from 1.5 kW to a 9 kW.

Specification

Model/indoor unit			AS052MNERA	AS072MNERA	AS092MNERA	AS122MNERA
Capacity	Cooling	kBtu/h	5.1	7.5	9.5	12.3
		kW	1.5	2.2	2.8	3.6
	Heating	kBtu/h	5.8	8.5	10.9	13.6
		kW	1.7	2.5	3.2	4
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Performance	Air flow (H/M/L)	m ³ /h	500/430/370	550/480/420	600/530/470	630/560/500
		L/S	138/119/102	152/133/116	166/147/130	175/155/138
	Sound pressure level (H/M/L)	dB(A)	33/31/29	35/31/29	36/31/29	37/33/29
	Sound power level (H/M/L)	dB(A)	49/46/41	50/47/42	52/48/44	54/51/50
Installation	External dimensions (W/D/H)	mm	855/200/280	855/200/280	855/200/280	855/200/280
	Shipping dimensions (W/D/H)	mm	954/279/355	954/279/355	954/279/355	954/279/355
	Net/Shipping weight	kg	10.5/12.7	10.5/12.7	10.5/12.7	10.5/12.7
	Refrigerant liquid pipe	mm	6.35	6.35	6.35	6.35
	Refrigerant gas pipe	mm	9.52	9.52	9.52	12.7
Drain Pump	(S-standard,W-without)	/	W	W	W	W
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)		YR-HD	YR-HD	YR-HD	YR-HD

Model/indoor unit			AS162MNERA	AS182MNERA	AS242MNERA	AS282MNERA	AS302MNERA
Capacity	Cooling	kBtu/h	15.3	19.1	24.2	27.3	30.7
		kW	4.5	5.6	7.1	8	9
	Heating	kBtu/h	17.1	21.5	27.3	30.7	34.1
		kW	5	6.3	8	9	10
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
Performance	Air flow (H/M/L)	m ³ /h	800/720/650	920/800/720	1010/920/800	1500/1400/1300	1600/1500/1400
		L/S	222/200/180	255/222/200	280/255/222	416/388/361	444/416/388
	Sound pressure level (H/M/L)	dB(A)	39/36/34	40/39/35	44/40/36	48/43/40	49/44/41
	Sound power level (H/M/L)	dB(A)	56/53/51	57/54/52	58/56/54	60/57/53	61/58/54
Installation	External dimensions (W/D/H)	mm	1115/243/336	1115/243/336	1115/243/336	1316/270/365	1316/270/365
	Shipping dimensions (W/D/H)	mm	1206/342/418	1206/342/418	1206/342/418	1403/384/463	1403/384/463
	Net/Shipping weight	kg	16.5/20.1	16.5/20.1	16.5/20.1	21.5/26.0	21.5/26.0
	Refrigerant liquid pipe	mm	6.35	6.35	9.52	9.52	9.52
	Refrigerant gas pipe	mm	12.7	12.7	15.88	15.88	15.88
Drain Pump	(S-standard,W-without)	/	W	W	W	W	W
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17	YR-E17	YR-E17
	Infrared (Optional)		YR-HD	YR-HD	YR-HD	YR-HD	YR-HD



DUCT FRESH AIR



HW-BA116ABK YR-E17



YR-E16A



YR-E16B

- Variable static pressure 100~200Pa setting
- Install one on one or with other indoor units (see service manual)
- Introduce the outdoor fresh air into the room.

Specification

Model/indoor unit			AD482MPERA	AD722MPERA	AD962MPERA
Capacity	Cooling	kBtu/h	47.7	77.1	95.5
		kW	14	22.6	28
	Heating	kBtu/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/M/L)	m ³ /h	1600/1460/1070	2300/1900/1320	2800/2400/1820
		L/S	444/405/297	638/527/366	777/666/505
	Sound pressure level (H/M/L)	dB(A)	48/47/42	55/53/50	55/54/52
	Sound Power level (H/M/L)	dB(A)	61/60/56	68/65/60	68/66/62
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	Pa	100/185	100/200	100/200
Controller	Wired (Optional)	/	YR-E16A	YR-E16A	YR-E16A
		/	YR-E16B	YR-E16B	YR-E16B
		/	HW-BA116ABK	HW-BA116ABK	HW-BA116ABK
		/	YR-E17	YR-E17	YR-E17



HEAT RECOVERY VENTILATOR



YR-N07

- Interfaces with Haier indoor units or included remote control
- Efficient heat recovery air processing
- Heat recovery media element

Specification

Model/indoor unit			ERV0150ANN	ERV0260ANN
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60
	Rated power input	KW	0.1	0.12
	Rated current	A	0.55	0.55
Performance	Air flow (H)	m3/h	150	m3/h
		L/S	42	73
	Sound pressure level (H/L)	dB(A)	44/43	44/43
	Sound power level (H/L)	dB(A)	55/54	55/54
Installation	External dimensions (W/D/H)	mm	940/685/276	940/685/276
	Shipping dimensions (W/D/H)	mm	1013/773/345	1013/773/345
	Net/Shipping weight	kG	28.7/31.2	28.7/31.2
	Static Pressure	Pa	80	60
Controller	Wired (Standard)	/	YR-N07	YR-N07

Model/indoor unit			ERV0500ANN	ERV0800ANN	ERV1000ANN
Electrical Parameters	Power supply	Ph/V/Hz	1/220-230/50/60	1/220-230/50/60	1/220-230/50/60
	Rated power input	KW	0.36	0.36	0.36
	Rated current	A	1.65	1.65	1.65
Performance	Air flow (H)	m3/h	500	800	1000
		L/S	139	223	278
	Sound pressure level (H/L)	dB(A)	57/55	57/55	57/55
	Sound power level (H/L)	dB(A)	68/66	68/66	68/66
Installation	External dimensions (W/D/H)	mm	1227/1115/387	1227/1115/387	1227/1115/387
	Shipping dimensions (W/D/H)	mm	1465/1213/430	1465/1213/430	1465/1213/430
	Net/Shipping weight	kG	85.5/90.6	85.5/90.6	85.5/90.6
	Static Pressure	Pa	150	120	100
Controller	Wired (Standard)	/	YR-N07	YR-N07	YR-N07



0.42m

MRV S



MRV-S

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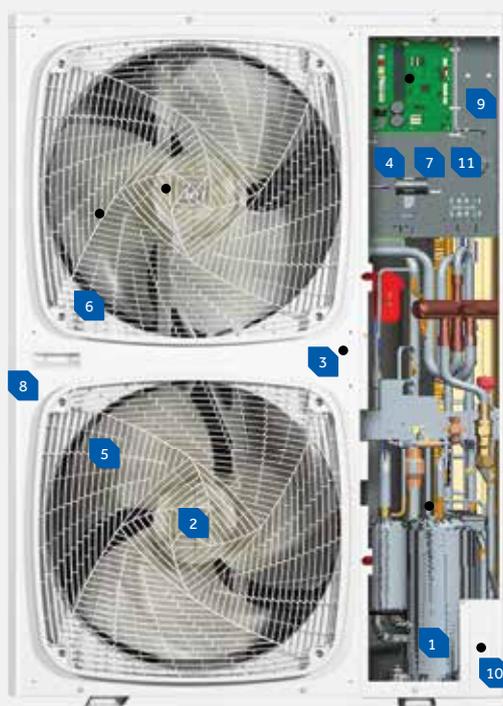


FEATURES & BENEFITS

Outdoor Structure

Designed with acoustics in mind.

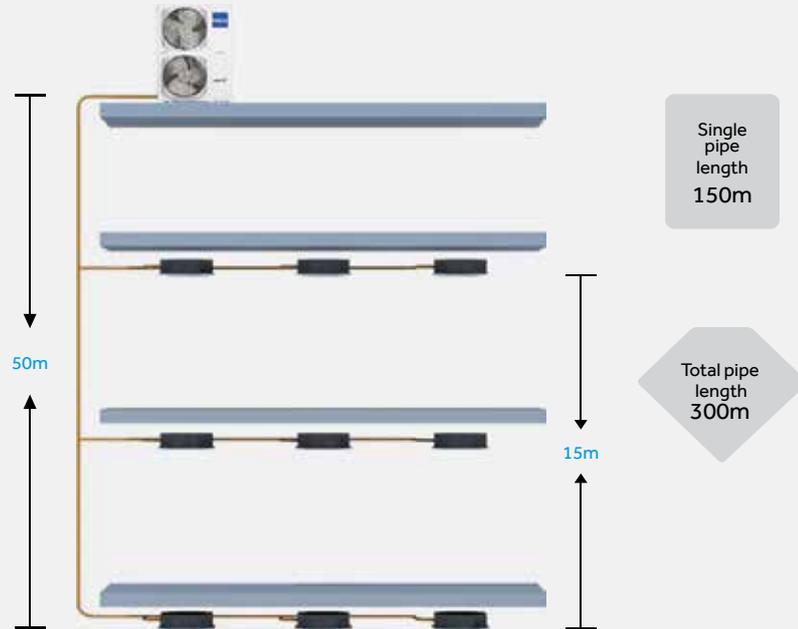
- 1 Energy Efficiency
- 2 Comfortable Environment
- 3 Side Discharge and Compact Design
- 4 High Reliability



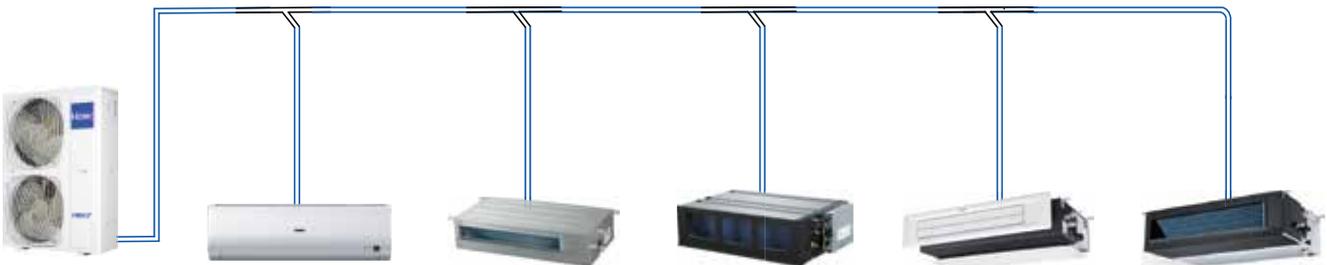
- 1 DC inverter compressor: Haier DC Inverter compressor
- 2 DC fan motor
- 3 Larger heat exchanger for great efficiency
- 4 Low standby power. New PCB programme to reduce standby power consumption
- 5 Aerodynamic fan. 550mm super big diameter aerospace helix fan lowering sound level 3dB(A)
- 6 Enlarged air inlet path and spiral air outlet path. Air flow direction follows the grill direction lowering sound level 2-4 dB(A)
- 7 Automatic sound-lowering programme. Night mode set by PCB and reduce sound by 8dB(A)
- 8 Double side "4" handles. Easy to carry
- 9 "888" test panel. All running data & error code can be checked from "888" screen, which makes it easier for installers
- 10 "Four-way" pipe connection. 4-way (front, back, left & right) pipe connection, easy to design and install
- 11 PCB programme include DRED connection. Connection to energy supplier to reduce demand for power grid at peak times.

Easy Installation

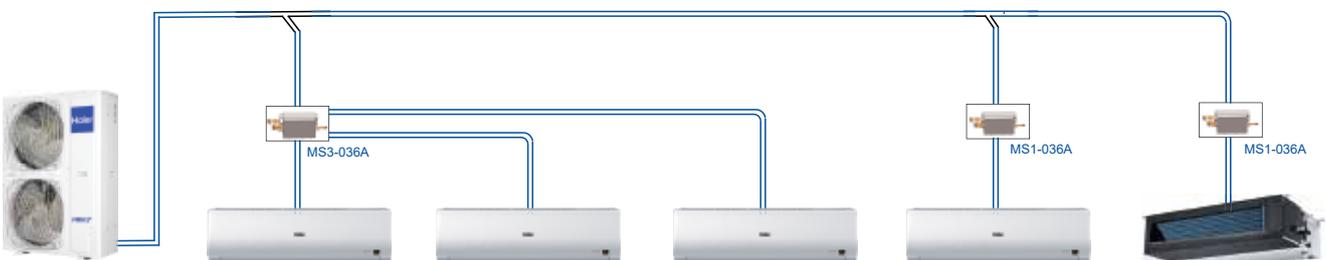
- Total pipe length: 300m
- Single pipe length: Max 150m
- From outdoor to the first branch pipe: 110m
- From the first branch to the farthest indoor door unit: 40m
- Height drop: 50m (outdoor above) / 40m (outdoor below)
- Height drop between indoor units: 15m



Connection with MRV indoor unit & branch pipes



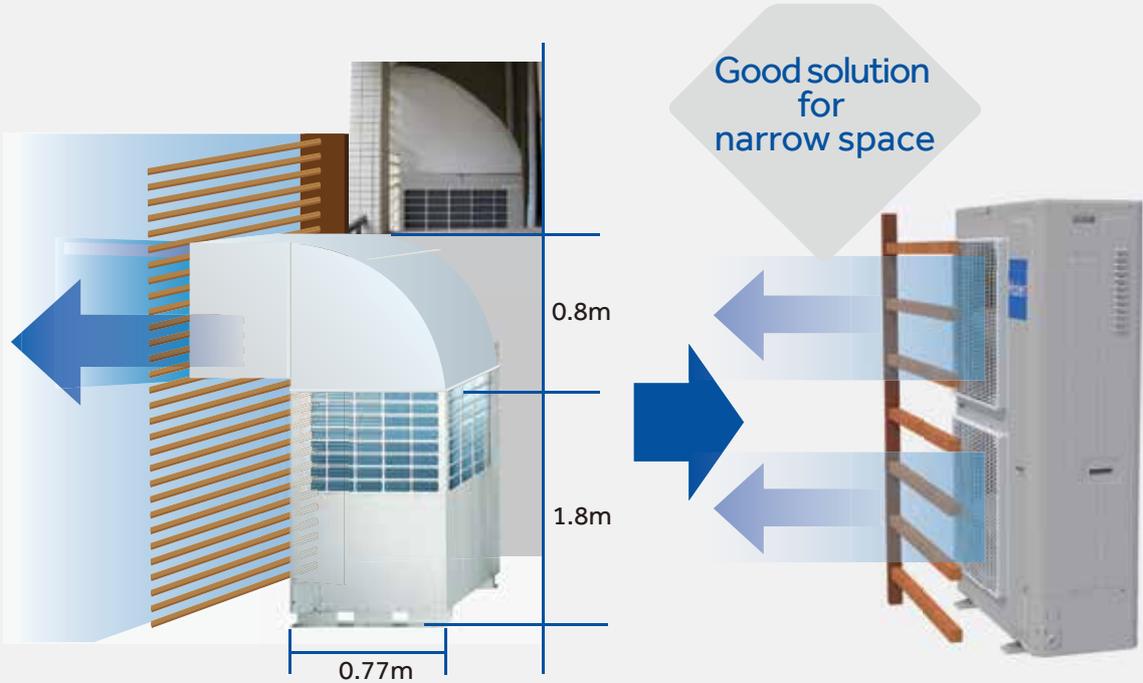
Connection with Super Match Multi indoor unit & Easy Match boxes.



FEATURES & BENEFITS

Compact Side Discharge Design

No need for additional ventilation hood for top discharge unit



Typical installation.



MRV S^{II} Specification



-  AU042FPERA
-  AU052FPERA
-  AU062FPERA

- DC fan motor
- DC Inverter compressor.
- Low standby power
- 888 Test panel
- 4 Way pipe connection
- Night Mode available
- Demand response (DRED) compatible.

Model			AU042FPERA	AU052FPERA	AU062FPERA
Capacity	Nominal Capacity	HP	4	5	6
	Cooling	kW	12.6	14	15.5
	Heating	kW	14.2	16	18
Electrical Parameters	Power supply	Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	1/220-240/50/60
	Power input (Cooling)	kW	3.16	3.66	4.25
	Power input (Heating)	kW	3.14	3.70	4.50
	EER	/	3.99	3.83	3.65
	COP	/	4.52	4.32	4.00
Performance	Air flow (H)	m ³ /h	7200	7200	7200
		L/S	2000	2000	2000
	Sound pressure level (H/M/L)	dB(A)	50	51	53
	Sound power level (H/M/L)	dB(A)	68	69	70
Installation	External dimensions (W/D/H)	mm	950/370/1340	950/370/1340	950/370/1340
	Shipping dimensions (W/D/H)	mm	1023/471/1420	1023/471/1420	1023/471/1420
	Net/Shipping weight	kg	115/123	115/123	115/123
	Compressor type	/	Rotary	Rotary	Rotary
	Compressor quantity	/	1	1	1
	Refrigerant type	/	R410A	R410A	R410A
	Refrigerant charge	kg	4	4	4
	Refrigerant liquid pipe	mm	9.52	9.52	9.52
	Refrigerant gas pipe	mm	15.88	15.88	15.88
	Total pipe length	m	300	300	300
	Max. pipe length(Equivalent/Actual)	m	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50	50	50
	Max drop between I.U.&I.U	m	15	15	15
Connection ratio	Connectible indoor unit ratio	%	50-130	50-130	50-130
	Maximum number of indoor units	/	8	10	13
Working Temp.	Cooling	°C	-15~48	-15~48	-15~48
	Heating	°C	-20~27	-20~27	-20~27



MRV IV



HEAT PUMP

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MRV IV SPECIFICATIONS



AV08NMMEUA
AV10NMMEUA
AV12NMMEUA
AV14NMMEUA

- Heat Pump
- Single Module
- Full DC Inverter technology
- Maximum 1000m total connected pipe length.
- Maximum 110m height difference between indoor and outdoor unit.
- Cooling operation to 50 °C

Model/indoor unit			AV08NMMEUA	AV10NMMEUA	AV12NMMEUA	AV14NMMEUA	
Combination model			/	/	/	/	
			/	/	/	/	
			/	/	/	/	
Capacity	Capacity range	HP	8	10	12	14	
	Cooling	kW	25.2	28	33.5	40	
	Heating	kW	27.3	31.5	37.5	45	
Electrical Parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	6.63	7.87	9.63	11.43
		Max power input	kW	14.02	14.38	14.73	16.91
		Rated current	A	10.95	12.99	15.90	18.87
		Max current	A	23.09	23.68	25.10	28.40
	Heating	Rated power input	kW	6.96	8.40	9.74	12.33
		Max power input	kW	12.72	13.23	13.68	15.60
		Rated current	A	11.50	13.87	16.09	20.36
		Max current	A	20.95	21.79	22.10	25.20
	EER		3.80	3.56	3.48	3.50	
	COP		3.92	3.75	3.85	3.65	
Performance	Air flow (H)	m ³ /h	C:15000/H:13200	C:15000/H:13200	C:15000/H:13200	C:15000/H:13200	
	Sound pressure level (H)	dB(A)	57	57	59	59.5	
	Sound power level (H)	dB(A)	73	73	75	76	
Installation	External dimensions(W/D/H)	mm	1350×720×1690	1350×720×1690	1350×720×1690	1350×720×1690	
	Shipping dimensions(W/D/H)	mm	1450×826×1885	1450×826×1885	1450×826×1885	1450×826×1885	
	Net/Shipping weight	kg	276/301	276/301	276/301	279/304	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor quantity		1x INV	1x INV	1x INV	1x INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	9.7	9.7	9.7	10	
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	
	Max total pipe length	m	1000	1000	1000	1000	
	Max pipe length (Equivalent/Actual)	m	190/165	190/165	190/165	190/165	
	Max drop between IU&OU (OU up/down) *1	m	90/110	90/110	90/110	90/110	
	Standard drop between IU&OU (OU up/down) *2	m	50/40	50/40	50/40	50/40	
	Max drop between IU *3	m	30	30	30	30	
Standard drop between IU *4	m	18	18	18	18		
External static pressure	Pa	82	82	82	82		
Connection Ratio	Connectible indoor unit ratio *5	%	50-160	50-160	50-160	50-160	
	Maximum number of indoor units		18	20	24	29	
Working temp.	Cooling	°C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	
	Heating	°C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	

1. Max drop between IU&OU
2. Standard drop between IU&OU
3. Max drop between IU
4. Standard drop between IU
5. Connectible indoor unit ratio

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the connection capacity is between 130%-160%, you MUST contact your local distributor/dealer for individual design and separate order.

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



AV16NMMEUA

AV18NMMEUA

AV20NMMEUA

- Heat Pump
- Single Module
- Full DC Inverter technology
- Maximum 1000m total connected pipe length.
- Maximum 110m height difference between indoor and outdoor unit.
- Cooling operation to 50 °C

Model/indoor unit			AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	
Combination model			/	/	/	
Capacity						
	Capacity range	HP	16	18	20	
	Cooling	kW	45	50.4	56	
	Heating	kW	50	56.5	63	
Electrical Parameters						
	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
Cooling	Rated power input	kW	13.64	15.32	17.20	
	Max power input	kW	22.68	22.10	25.19	
	Rated current	A	22.52	25.30	28.41	
	Max current	A	36.80	36.15	41.10	
	Heating	Rated power input	kW	13.33	16.33	18.92
		Max power input	kW	17.20	22.68	25.19
		Rated current	A	22.02	26.97	31.25
		Max current	A	27.88	37.80	42.00
EER		3.30	3.29	3.26		
COP		3.75	3.46	3.33		
Performance						
	Air flow (H)	m ³ /h	C:15600/H:14400	C:16200/H:15000	C:16200/H:15000	
	Sound pressure level (H)	dB(A)	61	62	62	
	Sound power level (H)	dB(A)	77	79	79	
Installation						
	External dimensions(W/D/H)	mm	1350×720×1690	1350×720×2048	1350×720×2048	
	Shipping dimensions(W/D/H)	mm	1450×826×1885	1450×826×2225	1450×826×2225	
	Net/Shipping weight	kg	321/346	335/360	335/360	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor quantity		2x INV	2x INV	2x INV	
	Refrigerant type		R410A	R410A	R410A	
	Refrigerant charge	kg	10	10	10	
	Refrigerant liquid pipe	mm	12.7	15.88	15.88	
	Refrigerant gas pipe	mm	28.58	28.58	28.58	
	Oil equalization pipe	mm	9.52	9.52	9.52	
	Max total pipe length	m	1000	1000	1000	
	Max pipe length (Equivalent/Actual)	m	190/165	190/165	190/165	
	Max drop between IU&OU (OU up/down) *1	m	90/110	90/110	90/110	
	Standard drop between IU&OU (OU up/down) *2	m	50/40	50/40	50/40	
	Max drop between IU *3	m	30	30	30	
	Standard drop between IU *4	m	18	18	18	
	External static pressure	Pa	82	82	82	
Connection Ratio						
	Connectible indoor unit ratio *5	%	50-160	50-160	50-160	
	Maximum number of indoor units		33	37	41	
Working temp.						
	Cooling	°C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	
	Heating	°C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	

1. Max drop between IU&OU
2. Standard drop between IU&OU
3. Max drop between IU
4. Standard drop between IU
5. Connectible indoor unit ratio

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the connection capacity is between 130%-160%, you MUST contact your local distributor/dealer for individual design and separate order.

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

MRV IV SPECIFICATIONS



AV22NMMEUA
AV24NMMEUA
AV26NMMEUA
AV28NMMEUA
AV30NMMEUA

- Heat Pump
- Full DC Inverter technology
- Maximum 1000m total connected pipe length.
- Maximum 110m height difference between indoor and outdoor unit.
- Cooling operation to 50 °C

Model/indoor unit			AV22NMMEUA	AV24NMMEUA	AV26NMMEUA	AV28NMMEUA	AV30NMMEUA	
Combination model			AV10NMMEUA	AV10NMMEUA	AV12NMMEUA	AV14NMMEUA	AV14NMMEUA	
			AV12NMMEUA	AV14NMMEUA	AV14NMMEUA	AV14NMMEUA	AV16NMMEUA	
			/	/	/	/	/	
Capacity	Capacity range	HP	22	24	26	28	30	
	Cooling	kW	61.5	68	73.5	80	85	
	Heating	kW	69	76.5	82.5	90	95	
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	
	Cooling	Rated power input	kW	17.49	19.29	21.06	22.86	25.06
		Max power input	kW	29.11	31.29	31.64	33.81	39.59
		Rated current	A	28.89	31.86	34.77	37.75	41.39
		Max current	A	48.78	52.08	53.5	56.8	65.2
	Heating	Rated power input	kW	18.14	20.73	22.07	24.66	25.66
		Max power input	kW	26.91	28.83	29.28	31.20	32.80
		Rated current	A	29.96	34.23	36.45	40.72	42.38
		Max current	A	43.89	46.99	47.3	50.4	53.08
	EER		3.52	3.52	3.49	3.50	3.39	
	COP		3.80	3.69	3.74	3.65	3.70	
Performance	Air flow (H)	m3/h	C:30000/H:26400	C:30000/H:26400	C:30000/H:26400	C:30000/H:26400	C:30600/H:27600	
	Sound pressure level (H)	dB(A)	61	61.5	62	62.5	63	
	Sound power level (H)	dB(A)	78	78	79	80	80	
Installation	External dimensions(W/D/H)	mm	1350×720×1690*2	1350×720×1690*2	1350×720×1690*2	1350×720×1690*2	1350×720×1690*2	
	Shipping dimensions(W/D/H)	mm	1450×826×1885*2	1450×826×1885*2	1450×826×1885*2	1450×826×1885*2	1450×826×1885*2	
	Net/Shipping weight	kg	269/305+269/305	269/305+275/311	269/305+275/311	275/311+275/311	275/311+323/359	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor quantity		2INV	2INV	1INV+1INV	1INV*2	1INV+2INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	19.40	19.70	19.7	20	20	
	Refrigerant liquid pipe	mm	15.88	15.88	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	28.58	28.58	31.8	31.8	31.8	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	
	Max total pipe length	m	1000	1000	1000	1000	1000	
	Max pipe length (Equivalent/Actual)	m	190/165	190/165	190/165	190/165	190/165	
	Max drop between IU&OU (OU up/down) *1	m	90/110	90/110	90/110	90/110	90/110	
	Standard drop between IU&OU (OU up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between IU *3	m	30	30	30	30	30	
Standard drop between IU *4	m	18	18	18	18	18		
External static pressure	Pa	82	82	82	82	82		
Connection Ratio	Connectible indoor unit ratio *5	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		36	39	43	46	49	
Working temp.	Cooling	°C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	
	Heating	°C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	

1. Max drop between IU&OU
2. Standard drop between IU&OU
3. Max drop between IU
4. Standard drop between IU
5. Connectible indoor unit ratio

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the connection capacity is between 130%-160%, you MUST contact your local distributor/dealer for individual design and separate order.

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



AV32NMMEUA
AV34NMMEUA
AV36NMMEUA



AV38NMMEUA
AV40NMMEUA

Model/indoor unit			AV32NMMEUA	AV34NMMEUA	AV36NMMEUA	AV38NMMEUA	AV40NMMEUA	
Combination model			AV14NMMEUA	AV16NMMEUA	AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	
			AV18NMMEUA	AV18NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	
			/	/	/	/	/	
Capacity	Capacity range	HP	32	34	36	38	40	
	Cooling	kW	90.4	95.4	101	106.4	112	
	Heating	kW	101.5	106.5	113	119.5	126	
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	
	Cooling	Rated power input	kW	26.75	28.96	30.84	32.52	34.40
		Max power input	kW	39.00	44.78	47.87	47.28	50.37
		Rated current	A	44.18	47.82	50.93	53.71	56.81
		Max current	A	64.55	72.95	77.9	77.25	82.2
	Heating	Rated power input	kW	28.66	29.66	32.25	35.25	37.84
		Max power input	kW	38.28	39.88	42.39	47.87	50.37
		Rated current	A	47.33	48.99	53.27	58.22	62.49
		Max current	A	63	65.68	69.88	79.8	84
	EER		3.38	3.29	3.28	3.27	3.26	
COP		3.54	3.59	3.50	3.39	3.33		
Performance	Air flow (H)	m3/h	C:31200/H:28200	C:31480/H:29400	C:31480/H:29400	C:32400/H:30000	C:32400/H:30000	
	Sound pressure level (H)	dB(A)	64	64.5	64.5	65	65	
	Sound power level (H)	dB(A)	81	82	82	83	83	
Installation	External dimensions(W/D/H)	mm	1350×720×1690+ 1350×720×2048	1350×720×1690+ 1350×720×2048	1350×720×1690+ 1350×720×2048	1350×720×2048*2	1350×720×2048*2	
	Shipping dimensions(W/D/H)	mm	1450×826×1885+ 1450×826×2225	1450×826×1885+ 1450×826×2225	1450×826×1885+ 1450×826×2225	1450×826×2225*2	1450×826×2225*2	
	Net/Shipping weight	kg	275/311+354/400	323/359+354/400	323/359+354/400	354/400+354/400	354/400+354/400	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor quantity		1INV+2INV	2INV+2INV	2INV+2INV	2INV+2INV	2INV*2	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	20	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	31.8	31.8	38.1	38.1	38.1	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	
	Max total pipe length	m	1000	1000	1000	1000	1000	
	Max pipe length (Equivalent/Actual)	m	190/165	190/165	190/165	190/165	190/165	
	Max drop between IU&OU (OU up/down) *1	m	90/110	90/110	90/110	90/110	90/110	
	Standard drop between IU&OU (OU up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between IU *3	m	30	30	30	30	30	
	Standard drop between IU *4	m	18	18	18	18	18	
External static pressure	Pa	82	82	82	82	82		
Connection Ratio	Connectible indoor unit ratio *5	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		53	56	59	63	64	
Working temp.	Cooling	°C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	
	Heating	°C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	

1. Max drop between IU&OU
2. Standard drop between IU&OU
3. Max drop between IU
4. Standard drop between IU
5. Connectible indoor unit ratio

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the connection capacity is between 130%-160%, you MUST contact your local distributor/dealer for individual design and separate order.

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

MRV IV SPECIFICATIONS



AV42NMMEUA
AV44NMMEUA
AV46NMMEUA
AV48NMMEUA

- Heat Pump
- Full DC Inverter technology
- Maximum 1000m total connected pipe length.
- Maximum 110m height difference between indoor and outdoor unit.
- Cooling operation to 50 °C

Model/indoor unit			AV42NMMEUA	AV44NMMEUA	AV46NMMEUA	AV48NMMEUA	AV50NMMEUA	
Combination model			AV12NMMEUA	AV12NMMEUA	AV14NMMEUA	AV16NMMEUA	AV14NMMEUA	
			AV14NMMEUA	AV16NMMEUA	AV16NMMEUA	AV16NMMEUA	AV18NMMEUA	
			AV16NMMEUA	AV16NMMEUA	AV16NMMEUA	AV16NMMEUA	AV18NMMEUA	
Capacity	Capacity range	HP	42	44	46	48	50	
	Cooling	kW	118.5	123.5	130	135	140.8	
	Heating	kW	132.5	137.5	145	150	158	
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	
	Cooling	Rated power input	kW	34.69	36.90	38.70	40.91	42.07
		Max power input	kW	54.32	60.09	62.27	68.04	61.10
		Rated current	A	57.29	60.94	63.92	67.56	69.48
		Max current	A	90.30	98.70	102.00	110.40	100.7
	Heating	Rated power input	kW	35.40	36.41	39.00	40.00	44.99
		Max power input	kW	46.48	48.08	50.00	51.60	60.96
		Rated current	A	58.47	60.13	64.40	66.06	74.30
		Max current	A	75.18	77.86	80.96	83.64	100.8
	EER			3.42	3.35	3.36	3.30	3.35
COP			3.74	3.78	3.72	3.75	3.51	
Performance	Air flow (H)	m ³ /h	C:45600/H:40800	C:46200/H:42000	C:46200/H:42000	C:46800/H:43200	C:47400/H:43200	
	Sound pressure level (H)	dB(A)	64.5	65	65.5	66	66	
	Sound power level (H)	dB(A)	82	83	83	84	84	
Installation	External dimensions(W/D/H)		mm	(1350×720×1690)×3	(1350×720×1690)×3	(1350×720×1690)×3	(1350×720×1690)×3	1350×720×1690+(1350×720×2048)*2
	Shipping dimensions(W/D/H)		mm	(1450×826×1885)×3	(1450×826×1885)×3	(1450×826×1885)×3	(1450×826×1885)×3	1450×826×1885+(1450×826×2225)*2
	Net/Shipping weight		kg	354/400+380/426	269/305+323/359*2	275/311+323/359*2	323/359*3	275/311+354/400+354/400
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor quantity			1INV+1INV+2INV	1INV+2INV+2INV	1INV+2INV+2INV	2INV*3	1INV+2INV*2
	Refrigerant type			R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	29.7	29.7	30	30	30
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe		mm	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe		mm	9.52	9.52	9.52	9.52	9.52
	Max total pipe length		m	1000	1000	1000	1000	1000
	Max pipe length (Equivalent/Actual)		m	190/165	190/165	190/165	190/165	190/165
	Max drop between IU&OU (OU up/down) *1		m	90/110	90/110	90/110	90/110	90/110
	Standard drop between IU&OU (OU up/down) *2		m	50/40	50/40	50/40	50/40	50/40
	Max drop between IU *3		m	30	30	30	30	30
Standard drop between IU *4		m	18	18	18	18	18	
External static pressure		Pa	82	82	82	82	82	
Connection Ratio	Connectible indoor unit ratio *5		%	50-130	50-130	50-130	50-130	50-130
	Maximum number of indoor units			64	64	64	64	64
Working temp.	Cooling	°C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	
	Heating	°C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	

1. Max drop between IU&OU
2. Standard drop between IU&OU
3. Max drop between IU
4. Standard drop between IU
5. Connectible indoor unit ratio

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the connection capacity is between 130%-160%, you MUST contact your local distributor/dealer for individual design and separate order.

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



AV52NMMEUA



AV54NMMEUA
AV56NMMEUA
AV58NMMEUA
AV60NMMEUA

Model/indoor unit			AV52NMMEUA	AV54NMMEUA	AV56NMMEUA	AV58NMMEUA	AV60NMMEUA	
Combination model			AV16NMMEUA	AV16NMMEUA	AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	
			AV16NMMEUA	AV18NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	
			AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	AV20NMMEUA	
Capacity	Capacity range	HP	52	54	56	58	60	
	Cooling	kW	146	151.4	157	162.4	168	
	Heating	kW	163	169.5	176	182.5	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	
	Cooling	Rated power input	kW	44.47	46.16	48.04	49.72	51.60
		Max power input	kW	70.55	69.96	73.05	72.47	75.56
		Rated current	A	73.45	76.23	79.33	82.11	85.22
		Max current	A	114.7	114.05	119	118.35	123.3
	Heating	Rated power input	kW	45.59	48.58	51.17	54.17	56.76
		Max power input	kW	59.59	65.07	67.57	73.05	75.56
		Rated current	A	75.29	80.24	84.51	89.46	93.74
		Max current	A	97.76	107.68	111.88	121.8	126
	EER		3.28	3.28	3.27	3.27	3.26	
COP		3.58	3.49	3.44	3.37	3.33		
Performance	Air flow (H)	m ³ /h	C:47400/H:43800	C:48000/H:44400	C:48000/H:44400	C:48600/H:45000	C:48600/H:45000	
	Sound pressure level (H)	dB(A)	66	66.5	66.5	67	67	
	Sound power level (H)	dB(A)	84	85	85	85	85	
Installation	External dimensions(W/D/H)	mm	(1350×720×1690)*2+ (1350×720×2048)	(1350×720×1690)+ (1350×720×2048)*2	(1350×720×1690)+ (1350×720×2048)*2	(1350×720×2048)*3	(1350×720×2048)*3	
	Shipping dimensions(W/D/H)	mm	(1450×826×1885)*2+ (1450×826×2225)	(1450×826×1885)+ (1450×826×2225)*2	(1450×826×1885)+ (1450×826×2225)*2	(1450×826×2225)*3	(1450×826×2225)*3	
	Net/Shipping weight	kg	323/359+ 323/359+ 354/400	323/359+ 354/400+ 354/400	323/359+ 354/400+ 354/400	354/400+ 354/400+ 354/400	354/400+ 354/400+ 354/400	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor quantity		2INV*2+2INV	2INV+2INV+2INV	2INV+2INV*2	2INV+2INV*2	2INV*3	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	30	30	30	30	30	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	38.1	38.1	41.3	41.3	41.3	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	
	Max total pipe length	m	1000	1000	1000	1000	1000	
	Max pipe length (Equivalent/Actual)	m	190/165	190/165	190/165	190/165	190/165	
	Max drop between IU&OU (OU up/down) *1	m	90/110	90/110	90/110	90/110	90/110	
	Standard drop between IU&OU (OU up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between IU *3	m	30	30	30	30	30	
	Standard drop between IU *4	m	18	18	18	18	18	
External static pressure	Pa	82	82	82	82	82		
Connection Ratio	Connectible indoor unit ratio *5	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	64	
Working temp.	Cooling	°C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	-5 °C to 50 °C	
	Heating	°C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	-23 °C to 21 °C	

1. Max drop between IU&OU
2. Standard drop between IU&OU
3. Max drop between IU
4. Standard drop between IU
5. Connectible indoor unit ratio

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production. Standard design and production in the factory.
If the connection capacity is between 130%-160%, you MUST contact your local distributor/dealer for individual design and separate order.

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

FEATURES & BENEFITS

Easy Installation

Long pipe length, high height drop

Maximum
total pipe
length
1000m



Maximum total pipe length **1000m**

Maximum single pipe length **165m** (equivalent pipe 190m)

Maximum height drop between ID and OD **Max. 110m/90m**⁽¹⁾ Standard 50m/40m

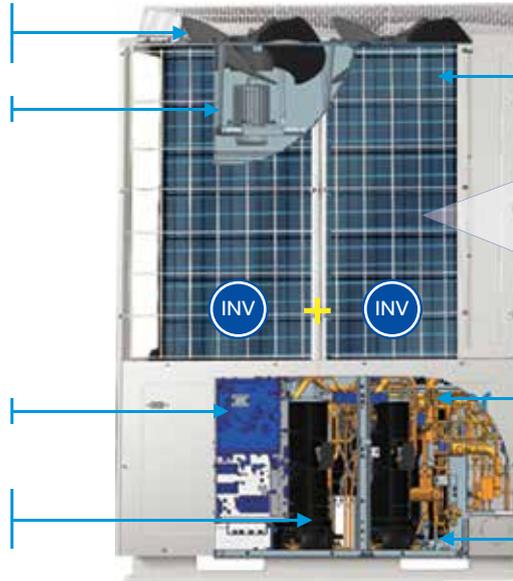
Max height drop between ID **Max 30m**⁽²⁾ (Standard 18m)

⁽¹⁾⁽²⁾ Need contact your local distributor/dealer for individual design

Full DC inverter technology to achieve high efficiency

- 570mm big size, double fan
- Zigzag fan, to reduce the air vibration
- One-piece streamlined grill

- DC Fan Motor



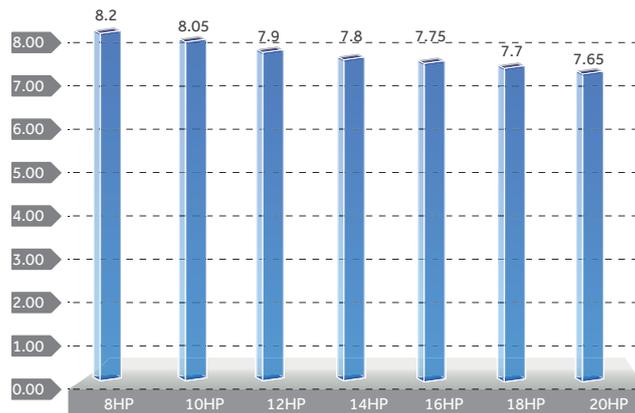
- Two pieces condenser
- Two-stage sub-cooling, added sub cooler in condenser
- Double EEV control

- 180° vector inverter

- Full DC INVERTER scroll compressor
- One (1) or Two (2) DC inverter compressors (model dependant)

- Double Pressure Sensor for extra reliability

- Double oil temperature sensor for lower standby power consumption



MRV IV IPLV Table

82Pa



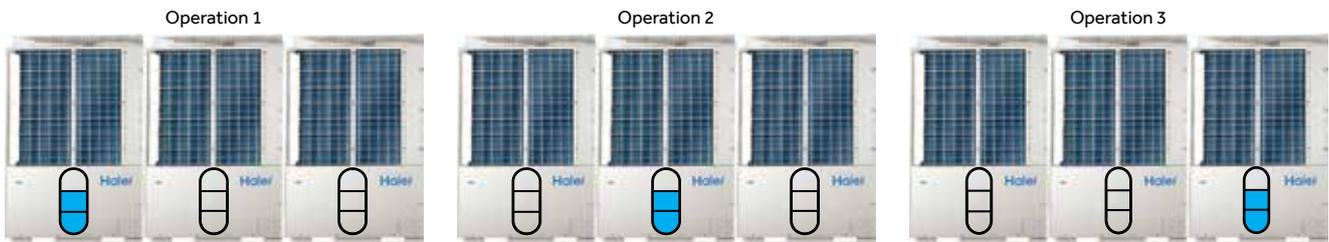
Up to 82Pa outdoor esp available to suit field fabricated ducting

FEATURES & BENEFITS

Reliability

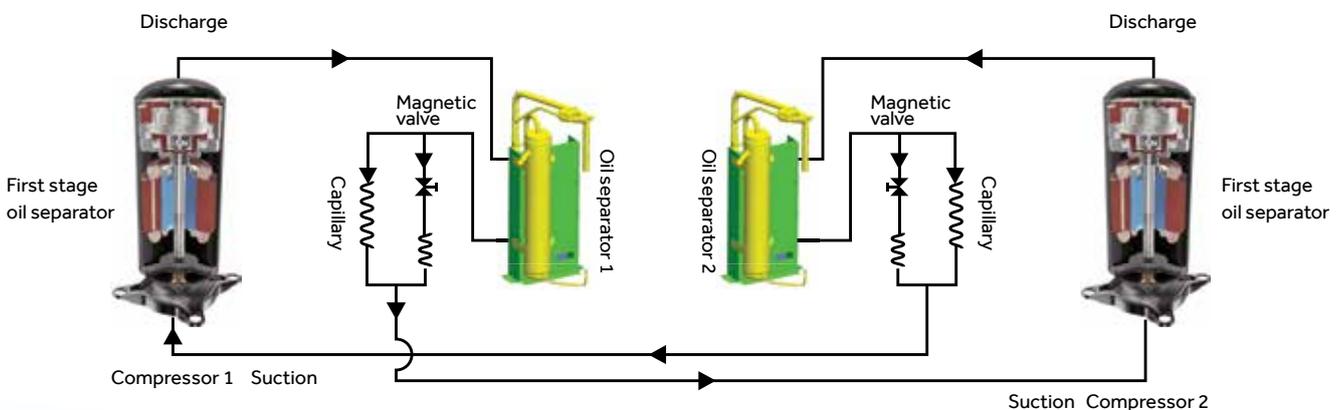
Recycling operation

- Recycling operation, longer life of compressor



Oil return

- Oil return is through the capillary at low frequency
- Oil return is through both capillary and solenoid valve at high frequency

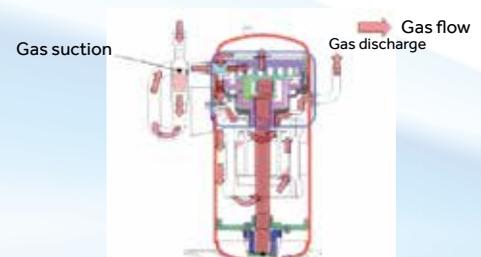


Compressor double protection

1. Gas discharge sensor,
2. Oil temperature sensor at the bottom of compressor.

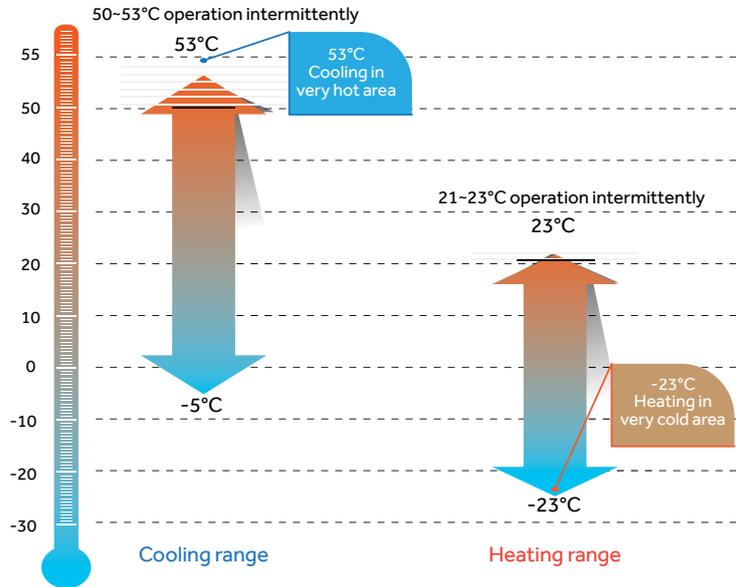
Oil temperature sensor control;

- Control the on/off of heater of compressor, preventing from the liquid slugging to compressor
- Judge if the liquid refrigerant enters the compressor
- Compressor oil sub heating protection.
- High pressure sensor for every compressor. For compressor module there are 2 high pressure sensors and 1 low pressure sensors; total 3 sensors



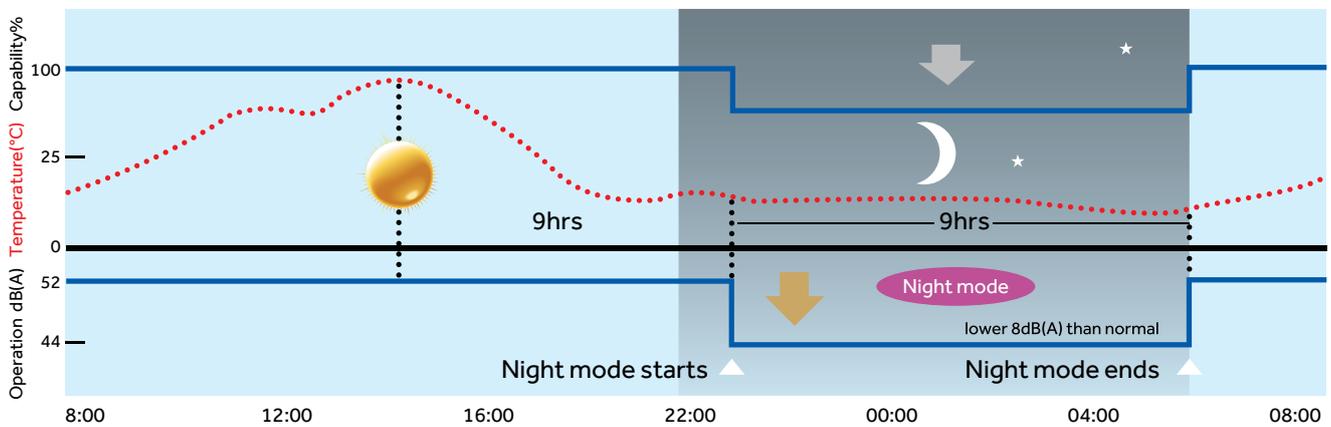
Comfort

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



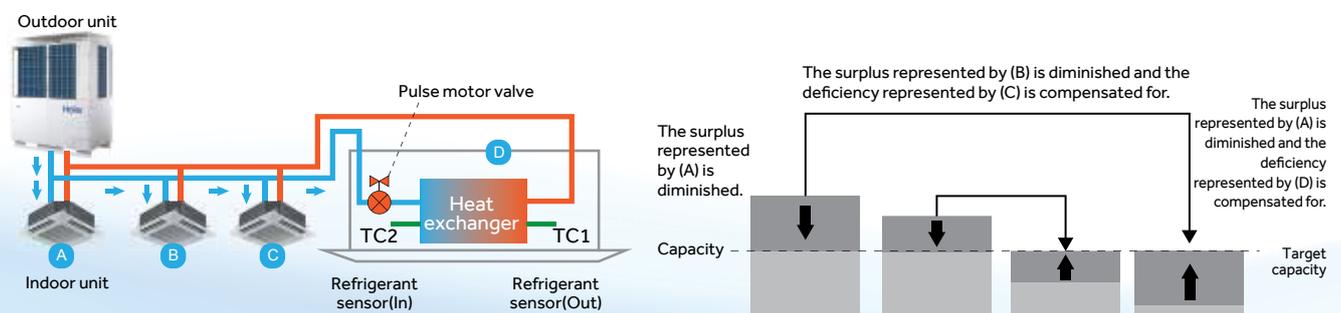
Night Mode Setting, Low Noise

- Night mode can reduce sound output by 8dB(A) noise, if initiated



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





MRV III-RC



HEAT RECOVERY

MRV III-RC SPECIFICATIONS	52
FEATURES & BENEFITS	56

MRV III-RC SPECIFICATIONS



AV08IMVUSA
AV10IMVUSA



AV12IMVUSA
AV14IMVUSA
AV16IMVUSA

- Heat Recovery
- Single Module
- DC Inverter technology

Model/indoor unit			AV08IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA	
Combination model								
Capacity	Capacity range	HP	8	10	12	14	16	
	Cooling	kW	22.4	28	33.5	40	45	
	Heating	kW	25	31.5	37.5	45	50	
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	
	Cooling	Rated power input	kW	5.81	7.55	9.18	12.3	14.1
		Max power input	kW	12.37	14.7	17.54	18.55	20.48
		Rated current	A	9.49	12.33	15.00	20.10	23.04
		Max current	A	19.85	23.4	27.9	29.5	32.37
	Heating	Rated power input	kW	6.1	7.97	9.15	11.1	13.5
		Max power input	kW	9.77	11.9	14.6	16.6	17.8
		Rated current	A	9.97	13.02	14.95	18.13	22.06
		Max current	A	15.7	19	23.3	26.5	28.4
		EER		3.86	3.71	3.65	3.25	3.19
	COP		4.10	3.95	4.10	4.05	3.70	
Performance	Air flow (H)	m ³ /h	11100	11100	14100	14100	14100	
	Sound pressure level (H)	dB(A)	57	57	60	60	60	
	Sound power level (H)	dB(A)	73	73	76	76	76	
Installation	External dimensions(W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	
	Shipping dimensions(W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	
	Net/Shipping weight	kg	240/268	240/268	368/393	368/393	368/393	
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	10	10	10	10	10	
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	28.58	
	High pressure gas pipe	mm	19.05	19.05	22.22	22.22	25.4	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	
	Total pipe length	m	300	300	300	300	300	
	Max. pipe length(Equivalent/ Actual)	m	175/150	175/150	175/150	175/150	175/150	
	Max drop between I.U.&O.U *1	m	50/40	50/40	50/40	50/40	50/40	
External static pressure	Pa	50	50	50	50	50		
Connection Ratio	Connectible indoor unit ratio	%	50-160	50-160	50-160	50-160	50-160	
	Maximum number of indoor units		18	20	24	29	33	
Working temp.	Cooling	°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	
	Heating	°C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	
	Cooling & Heating	°C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	

1. *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/24WB; in heating, indoor temp is 20°C DB, in heating, outdoor temp is 7°C DB/6°C WB)



AV18IMVUSA
AV20IMVUSA



AV22IMVUSA
AV24IMVUSA
AV26IMVUSA

Model/indoor unit			AV18IMVUSA	AV20IMVUSA	AV22IMVUSA	AV24IMVUSA	AV26IMVUSA	
Combination model			AV08IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	
			AV10IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA	
			/	/	/	/	/	
Capacity	Capacity range	HP	18	20	22	24	26	
	Cooling	kW	50.4	56	61.5	68	73	
	Heating	kW	56.5	63	69	76.5	81.5	
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	
	Cooling	Rated power input	kW	13.36	15.1	16.73	19.85	21.65
		Max power input	kW	27.07	29.4	32.24	33.25	35.18
		Rated current	A	21.83	24.67	27.33	32.43	35.37
		Max current	A	43.25	46.8	51.3	52.9	55.77
	Heating	Rated power input	kW	14.07	15.94	17.12	19.07	21.47
		Max power input	kW	21.67	23.8	26.5	28.5	29.7
		Rated current	A	22.99	26.04	27.97	31.16	35.08
		Max current	A	34.7	38	42.3	45.5	47.4
		EER		3.77	3.71	3.68	3.43	3.37
	COP		4.02	3.95	4.03	4.01	3.80	
Performance	Air flow (H)	m ³ /h	22200	22200	25200	25200	25200	
	Sound pressure level (H)	dB(A)	60	60	61	61	61	
	Sound power level (H)	dB(A)	77	77	78	78	78	
Installation	External dimensions(W/D/H)	mm	990/750/1808+ 990/750/1808	990/750/1808+ 990/750/1808	990/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808	" 990/750/1808+ 1390/750/1808"	
	Shipping dimensions(W/D/H)	mm	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1090/860/1990	1090/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990	"1090/860/1990+ 1490/860/1990"	
	Net/Shipping weight	kg	480/536	480/536	608/661	608/641	608/641	
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	
	Compressor quantity		1 INV +1 INV	1 INV +1 INV	(1 INV)+(1 INV+1 FIX)	(1 INV)+(1 INV+1 FIX)	(1 INV)+(1 INV+1 FIX)	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	20	
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	15.88	19.05	
	Refrigerant gas pipe	mm	28.58	28.58	28.58	28.58	31.8	
	High pressure gas pipe	mm	25.4	25.4	25.4	25.4	28.58	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	
	Total pipe length	m	300	300	300	300	300	
	Max. pipe length(Equivalent/ Actual)	m	175/150	175/150	175/150	175/150	175/150	
	Max drop between I.U.&O.U *1	m	50/40	50/40	50/40	50/40	50/40	
	External static pressure	Pa	50	50	50	50	50	
Connection Ratio	Connectible indoor unit ratio	%	50-130	50-130	50-130	50-130	50-160	
	Maximum number of indoor units		29	33	36	39	33	
Working temp.	Cooling	°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	
	Heating	°C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	
	Cooling & Heating	°C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	

1. * 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/24WB; in heating, indoor temp is 20°C DB, in heating, outdoor temp is 7°C DB/6°C WB)

MRV III-RC SPECIFICATIONS



AV28IMVUSA
AV30IMVUSA
AV32IMVUSA



AV34IMVUSA
AV36IMVUSA

Model/indoor unit			AV28IMVUSA	AV30IMVUSA	AV32IMVUSA	AV34IMVUSA	AV36IMVUSA	
Combination model			AV14IMVUSA	AV14IMVUSA	AV16IMVUSA	AV10IMVUSA	AV10IMVUSA	
			AV14IMVUSA	AV16IMVUSA	AV16IMVUSA	AV10IMVUSA	AV10IMVUSA	
			/	/	/	AV14IMVUSA	AV16IMVUSA	
Capacity	Capacity range	HP	28	30	32	34	36	
	Cooling	kW	80	85	90	96	101	
	Heating	kW	90	95	100	108	113	
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	
	Cooling	Rated power input	kW	24.6	26.4	28.2	27.4	29.2
		Max power input	kW	37.1	39.03	40.96	47.95	49.88
		Rated current	A	40.19	43.13	46.07	44.76	47.71
		Max current	A	59	61.87	64.74	76.3	79.17
	Heating	Rated power input	kW	22.2	24.6	27	27.04	29.44
		Max power input	kW	33.2	34.4	35.6	40.4	41.6
		Rated current	A	36.27	40.19	44.11	44.18	48.10
		Max current	A	53	54.9	56.8	64.5	66.4
		EER		3.25	3.22	3.19	3.50	3.46
	COP		4.05	3.86	3.70	3.99	3.84	
Performance	Air flow (H)	m ³ /h	28200	28200	28200	36300	36300	
	Sound pressure level (H)	dB(A)	62	62	62	63	63	
	Sound power level (H)	dB(A)	79	79	79	81	81	
Installation	External dimensions(W/D/H)	mm	1390/750/1808*2	1390/750/1808*2	1390/750/1808*2	990/750/1808*2+ 1390/750/1808	990/750/1808*2+ 1390/750/1808	
	Shipping dimensions(W/D/H)	mm	1490/860/1990*2	1490/860/1990*2	1490/860/1990*2	1090/860/1990*2+ 1490/860/1990	1090/860/1990*2+ 1490/860/1990	
	Net/Shipping weight	kg	736/786	736/786	736/786	848/929	848/929	
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	
	Compressor quantity		(1 INV+1 FIX) *2	(1 INV+1 FIX) *2	(1 INV+1 FIX) *2	1 INV+1 INV+ (1 INV+1 FIX)	1 INV+1 INV+ (1 INV+1 FIX)	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	30	30	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	31.8	31.8	31.8	31.8	38.1	
	High pressure gas pipe	mm	28.58	28.58	28.58	28.58	34.9	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	
	Total pipe length	m	300	300	300	300	300	
	Max. pipe length(Equivalent/ Actual)	m	175/150	175/150	175/150	175/150	175/150	
	Max drop between I.U.&O.U *1	m	50/40	50/40	50/40	50/40	50/40	
External static pressure	Pa	50	50	50	50	50		
Connection Ratio	Connectible indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		46	50	53	56	59	
Working temp.	Cooling	°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	-5 °C to 43°C	
	Heating	°C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	-15 °C to 21 °C	
	Cooling & Heating	°C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	-18 °C to 18 °C	

1. *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/24WB; in heating, indoor temp is 20°C DB, in heating, outdoor temp is 7°C DB/6°C WB)



AV38IMVUSA
AV40IMVUSA
AV42IMVUSA



AV44IMVUSA
AV46IMVUSA
AV48IMVUSA

Model/indoor unit			AV38IMVUSA	AV40IMVUSA	AV42IMVUSA	AV44IMVUSA	AV46IMVUSA	AV48IMVUSA	
Combination model			AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA	
			AV14IMVUSA	AV14IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	
			AV14IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	
Capacity	Capacity range	HP	38	40	42	44	46	48	
	Cooling	kW	106.5	113	118	123.5	130	135	
	Heating	kW	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
	Cooling	Rated power input	kW	30.83	33.95	35.75	37.38	40.5	42.3
		Max power input	kW	52.72	53.73	55.66	58.5	59.51	61.44
		Rated current	A	50.37	55.47	58.41	61.07	66.17	69.11
		Max current	A	83.67	85.27	88.14	92.64	94.24	97.11
	Heating	Rated power input	kW	30.62	32.57	34.97	36.15	38.1	40.5
		Max power input	kW	44.3	46.3	47.5	50.2	52.2	53.4
		Rated current	A	50.03	53.21	57.13	59.06	62.25	66.17
		Max current	A	70.7	73.9	75.8	80.1	83.3	85.2
	EER			3.45	3.33	3.30	3.30	3.21	3.19
COP			3.89	3.88	3.76	3.80	3.81	3.70	
Performance	Air flow (H)	m ³ /h	39300	39300	39300	42300	42300	42300	
	Sound pressure level (H)	dB(A)	63	63	63	64	64	64	
	Sound power level (H)	dB(A)	81	81	81	82	82	82	
Installation	External dimensions(W/D/H)	mm	990/750/1808+ 1390/750/1808*2	990/750/1808+ 1390/750/1808*2	990/750/1808+ 1390/750/1808*2	1390/750/1808*3	1390/750/1808*3	1390/750/1808*3	
	Shipping dimensions(W/D/H)	mm	1090/860/1990+ 1490/860/1990*2	1090/860/1990+ 1490/860/1990*2	1090/860/1990+ 1490/860/1990*2	1490/860/1990*3	1490/860/1990*3	1490/860/1990*3	
	Net/Shipping weight	kg	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	
	Compressor quantity		1 INV+ (1 INV+1 FIX)*2	1 INV+ (1 INV+1 FIX)*2	1 INV+ (1 INV+1 FIX)*2	(1 INV+1 FIX)*3	(1 INV+1 FIX)*3	(1 INV+1 FIX)*3	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	30	30	30	30	30	30	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	38.1	38.1	
	High pressure gas pipe	mm	34.9	34.9	34.9	34.9	34.9	34.9	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52	
	Total pipe length	m	300	300	300	300	300	300	
	Max. pipe length (Equivalent/ Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	
	Max drop between I.U.&O.U *1	m	50/40	50/40	50/40	50/40	50/40	50/40	
	External static pressure	Pa	50	50	50	50	50	50	
Connection Ratio	Connectible indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		63	64	64	64	64	64	
Working temp.	Cooling	°C	-5°C to 43°C	-5°C to 43°C	-5°C to 43°C	-5°C to 43°C	-5°C to 43°C	-5°C to 43°C	
	Heating	°C	-15°C to 21°C	-15°C to 21°C	-15°C to 21°C	-15°C to 21°C	-15°C to 21°C	-15°C to 21°C	
	Cooling & Heating	°C	-18°C to 18°C	-18°C to 18°C	-18°C to 18°C	-18°C to 18°C	-18°C to 18°C	-18°C to 18°C	

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

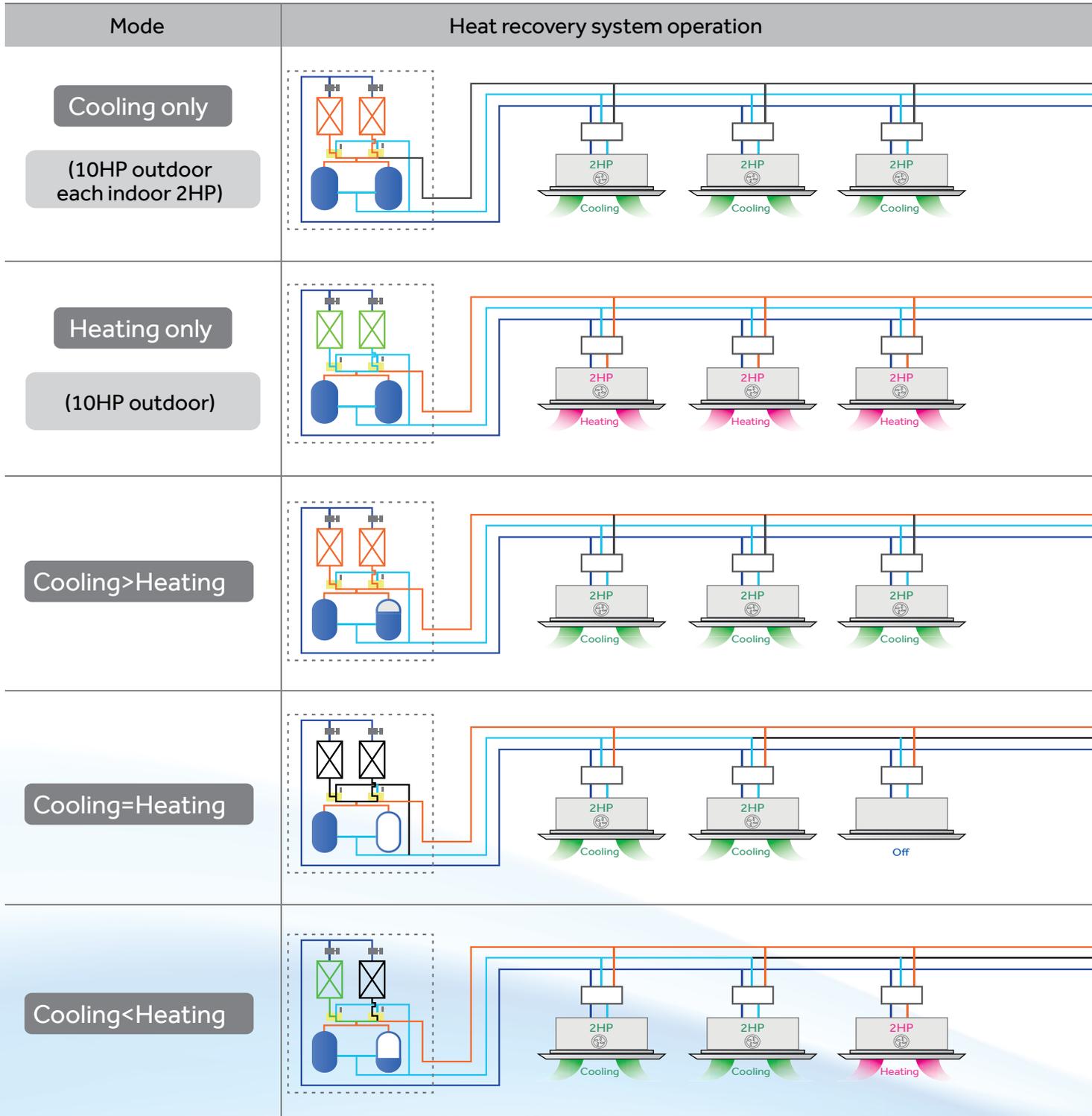
* All the specifications are tested under nominal condition (in cooling, indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24WB; in heating, indoor temp is 20°C DB, in heating, outdoor temp is 7°C DB/6°C WB)

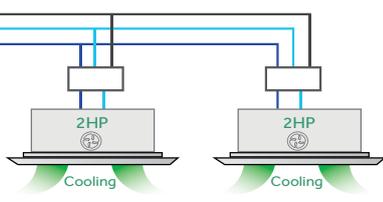
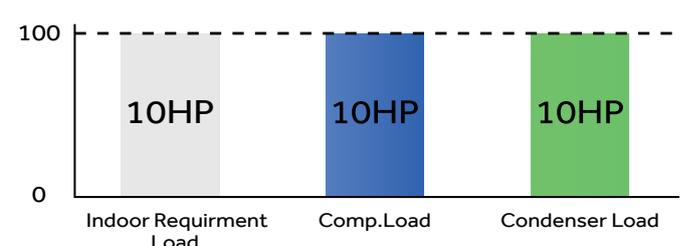
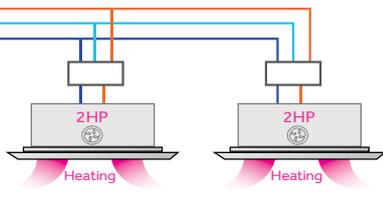
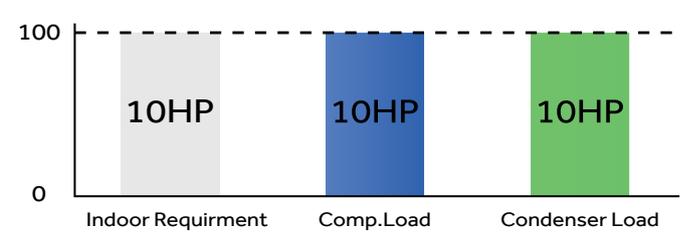
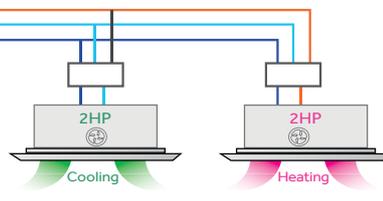
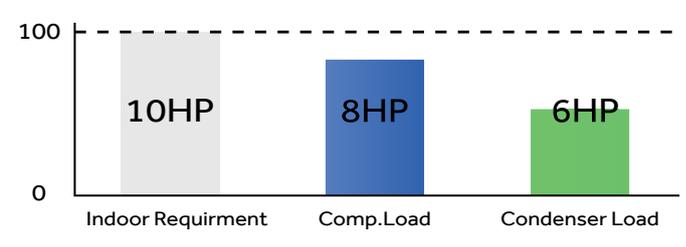
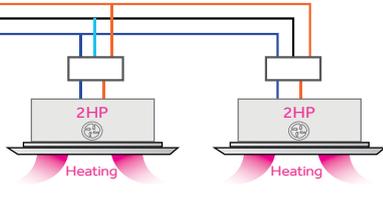
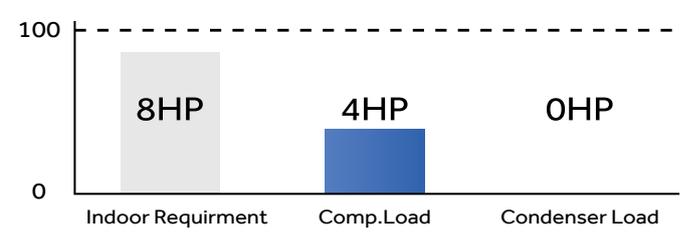
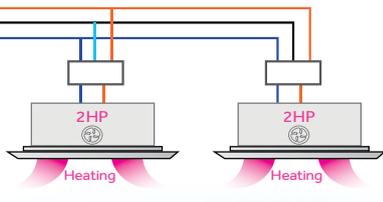
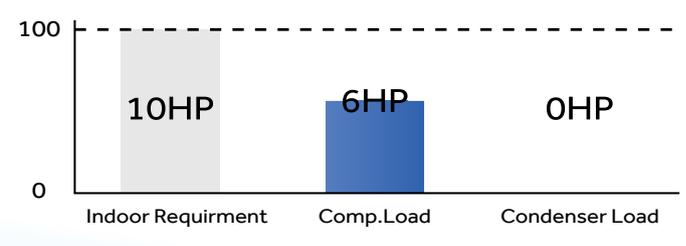
FEATURES & BENEFITS

System Introduction

Typical 3 pipe system

The heat absorbed from indoor units in cooling mode can be used to provide heat for heating indoor units, and visa versa.



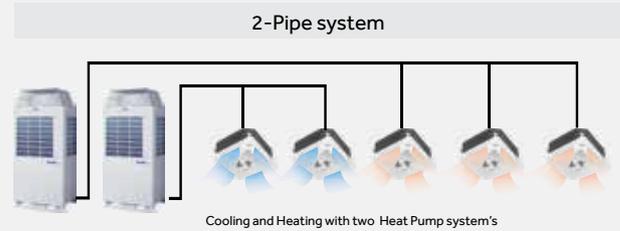
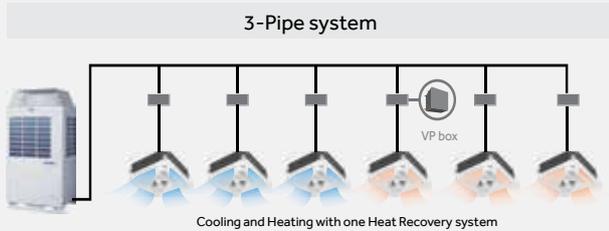
		Part Load	Energy Saving
		0%	
		0%	
		20%	
		50%	
		40%	

FEATURES & BENEFITS

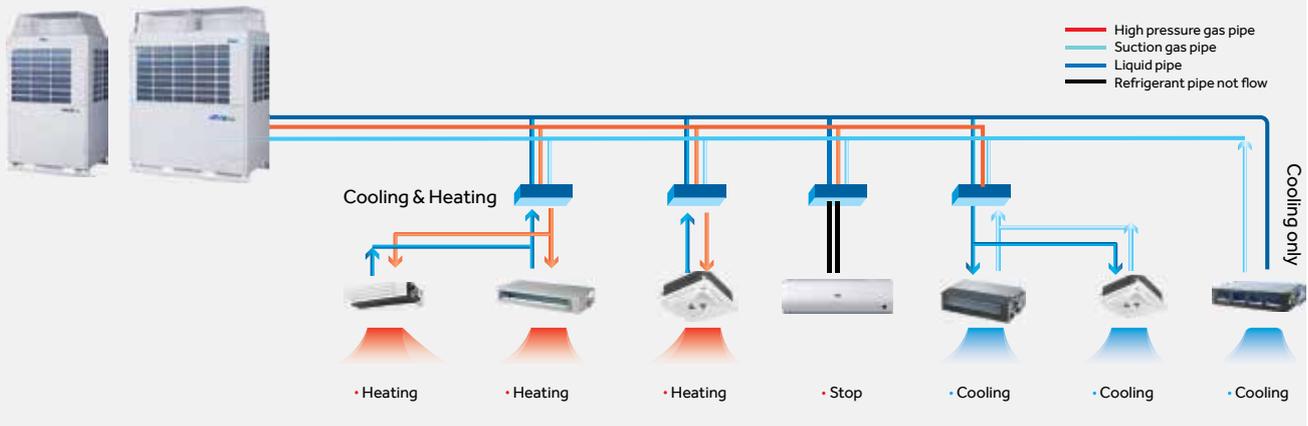
System Introduction

What is MRV III-RC

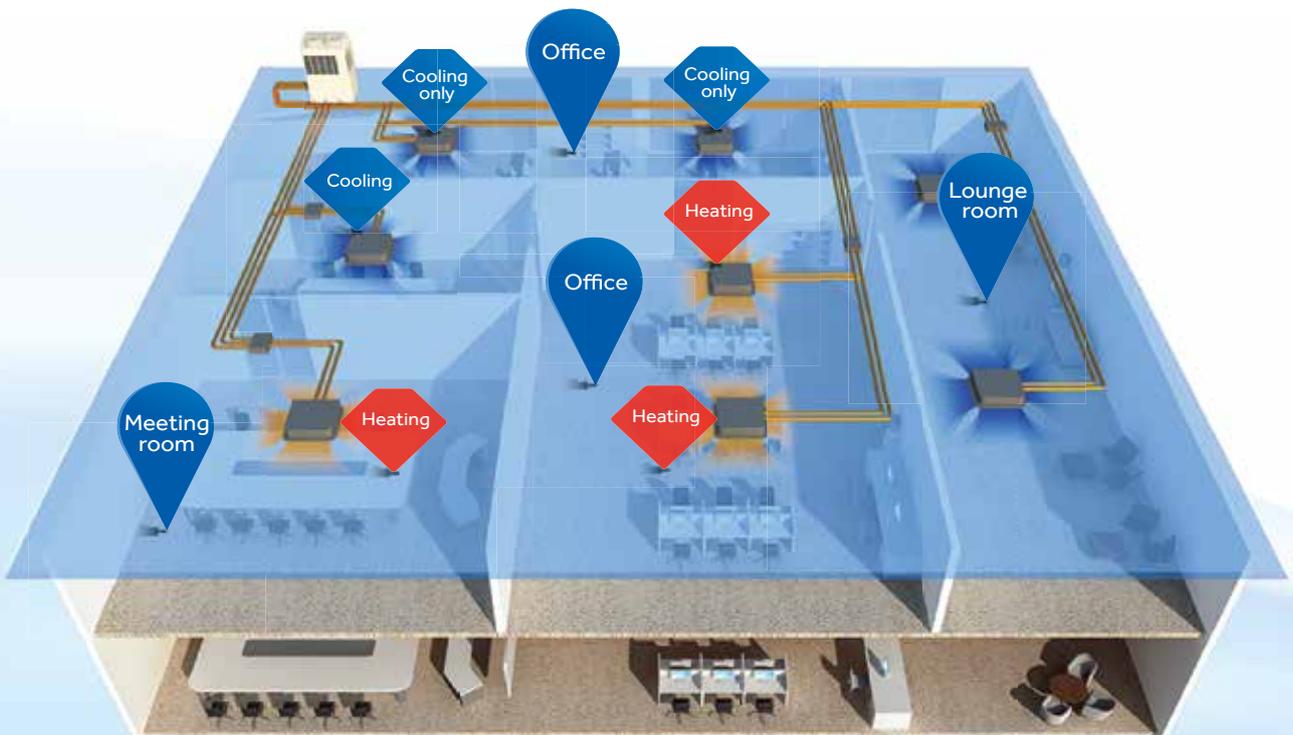
- Heat recovery system
- Cooling and heating simultaneously with only one system



Variable operation mode in one system



Typical 3 Pipe System



Outdoor Structure

User Friendly outdoor structure

Core Technology and Parts

Patent fan design and DC fan motor

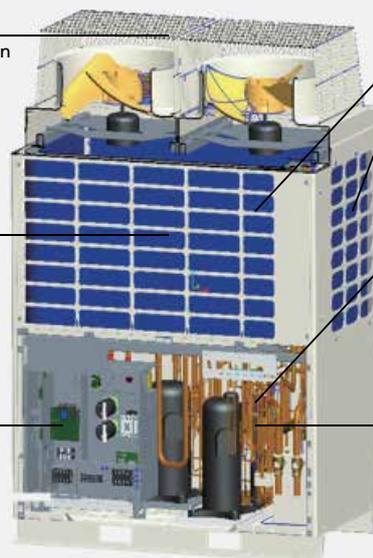
- Air flow improved by 17.5% with patent fan design
- Noise reduced 3 dB(A) with DC fan motor

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

Reduced heat exchanger height (650mm), to uniformly distribute airflow through the upper and lower heat exchanger for 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

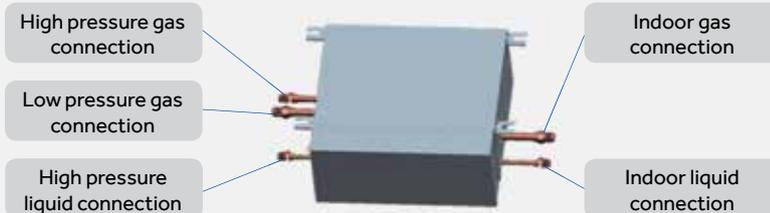
- DC inverter scroll compressor from Mitsubishi electric
- For big module, also with another fixed-speed compressor from mitsubishi electric

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	Maximum capacity of Indoor Unit.	Power Supply	Maximum indoor unit Qty	Dimensions
VP1-112A	$x \leq 11.2$	1/220-240/50/60	5	400/365/180
VP1-180A	$11.2 < x \leq 18$	1/220-240/50/60	8	400/365/180
VP1-280A	$18 < x \leq 28$	1/220-240/50/60	8	400/365/180
VP4-450A	≤ 45	1/220-240/50/60	20	1185/597/182



Wireless Controller

Wired Controller

Wifi Control

Centralized Controller

Centralized Controller

BMS

CONTROL SYSTEM

CONTROLS

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CONTROL SYSTEM

INDIVIDUAL CONTROLLER

The individual control system has a variety of wired and wireless controllers which enable easy and intelligent control of the Haier air conditioners. Choose the one which best suits the air conditioning management.



INDIVIDUAL CONTROLLER



YR-HD

- On/off, mode, fan speed, temperature setting, swing
- One button solution: cool, heat, dry & quiet
- Simple timer control



YR-HBS01

- Individual blade control for round way cassette
- On/off, mode, fan speed, temperature setting, swing, Turbo & quiet
- Clock & timer
- Follow or Evade function
- Sensitivity $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)



YR-E17

- Touch screen with back light
- On/off, mode, fan speed, temperature setting, swing
- Individual & group control (max 16 indoor units)
- Simple and smart design, 86*86*13mm
- Timer/ clock
- Easy installation
- Individual blade control for round way cassette.



YR-E16A

- On/off, mode, fan speed, temperature setting, swing
- 120*120*17.8mm
- Individual & group control (max 16 indoor units)
- Large button
- Sensitivity $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)
- Weekly timer
- Individual louvre control for round way cassette
- Static pressure setting



YR-E16B

- Colourful screen
- 120*120*17.8mm
- On/off, mode, fan speed, temperature setting, swing
- Individual & group control (max 16 indoor units)
- Sensitivity $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)
- Weekly timer
- Individual blade control for round way cassette
- Static pressure setting



HW-BA116ABK

- Basic function: on/off, mode, fan speed, temperature
- Individual & group control (max 16 indoor units)
- Simple and smart design, 86*86*14.80mm
- Could receive wireless controller signal



RE-02

- Infrared signal receiver for ducted unit.
- Model selection depends on the duct indoor unit

CONTROL SYSTEM

CENTRALISED CONTROLLER

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



CENTRALISED CONTROLLER



HC-SA164DBT

- Central control up to 64 indoor units
- Dimensions 135*105*18mm
- 5-inch tft LCD touch screen with back light
- Weekly timer
- Indoor unit's information edit
- Historical error backup
- Fire alarm connection
- Connection directly to Super match, Smart Power and MRV
- Maximum 32 systems



YCZ-G001

- Central control up to 32 indoor units
- Large keys for easy use
- Dimensions 120*120*18mm
- Weekly timer
- Unit name free setting, four background available (mall, hotel, office, home)
- Connection directly to Super Match, Smart Power and MRV
- Maximum 32 systems



YCZ-A004

- Central control up to 256 indoor units
- Dimensions 190*126*18mm
- 7-inch TFT LCD touch screen with back light
- Weekly timer
- Indoor units information edit
- Historical data backup
- Fire alarm connection
- Connection directly to Super match, Smart power and MRV
- Maximum 32 systems



HA-MA164AD

- Protocol adapter, convert Haier "homebus" to RS-485 for connection of MRV to central controller or BMS
- Connected up to 64 indoor units with one HA-MA
- Can be used as a Gateway for Modbus rtu architecture
- Each MRV system requires one HA-MA when connecting with centralized controller or BMS system.

BMS

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





HCM-01A

- Site PC software version - Site PC not provided.
- Local control version; convert RS-485 to RS-232
- Connect up to 400 indoor units with up to 32 systems
- Modbus rtu terminal
- Win 7 32bits/64bits, Win 8 compatible
- Schedule setting
- Power consumption report if connected to IGU-02 adapter and Pulse Energy Meter



HCM-03A

- Remote monitoring version; third party interface: BACnet ip/ Modbus ip
- Up to 1500 indoor units can be controlled
- Up to 4 groups may connect with up to 20 systems per group.
- Operation status setting & monitoring.
- Schedule setting
- Multi user management with different authorized levels
- Power consumption report when connected to IGU-02 adapter and Pulse Energy Meter
- Floor navigation
- Operation and error history log



HCM-05 HCM-05A

- Remote monitoring version with Third party interface: BACnet ip
- HCM-05 can control up to 250 indoor units
- HCM-05A can control up to 500 indoor units
- For up to 32 systems, each system requires one adaptor model IGU02.
- Operation status setting & monitoring.
- Schedule setting
- Multi user management with different authorized levels
- Power consumption report when connected to IGU-02 adapter and Pulse Energy Meter
- Operation and error history log

CONTROL SYSTEM

ADAPTORS



HA-MA164AD

- Protocol adapter, convert homebus to RS-485
- Connected up to 64 indoor units
- Can be used as a Gateway for Modbus rtu architecture
- Each MRV system requires one HA-MA when connecting with centralized controller or BMS system.



IGU-02

- Protocol adapter, convert homebus to RS-485
- Match with BMS (HCM-01, 03, 05, 05A).
- Connect up to 40 indoor units with one IGU02
- Connection to energy meter for apportionment calculation.



HA-AC-KNX-8/16/64

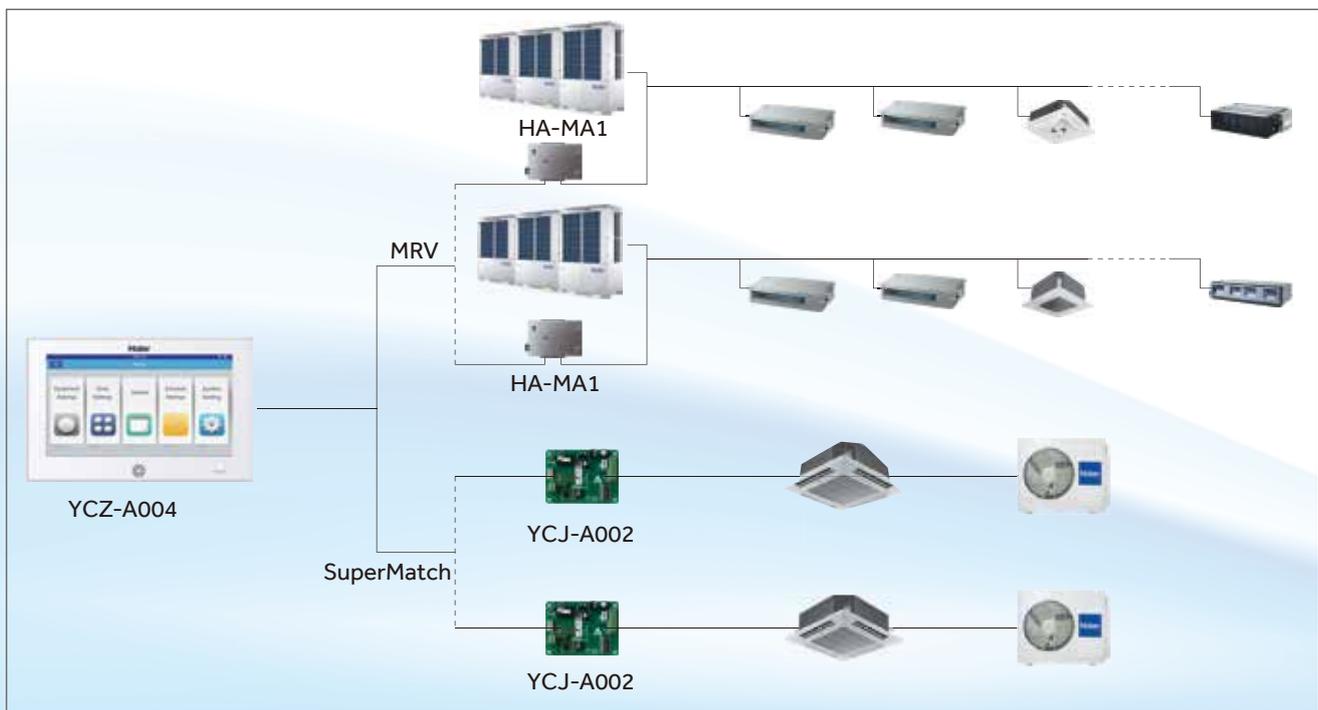
- KNX gateway
- Convert modbus rtu to KNX
- Connect up to 8/ 16/ 64 indoor units in one system
- Each system requires one KNX gateway and one HA-MA164AD



IGU-07

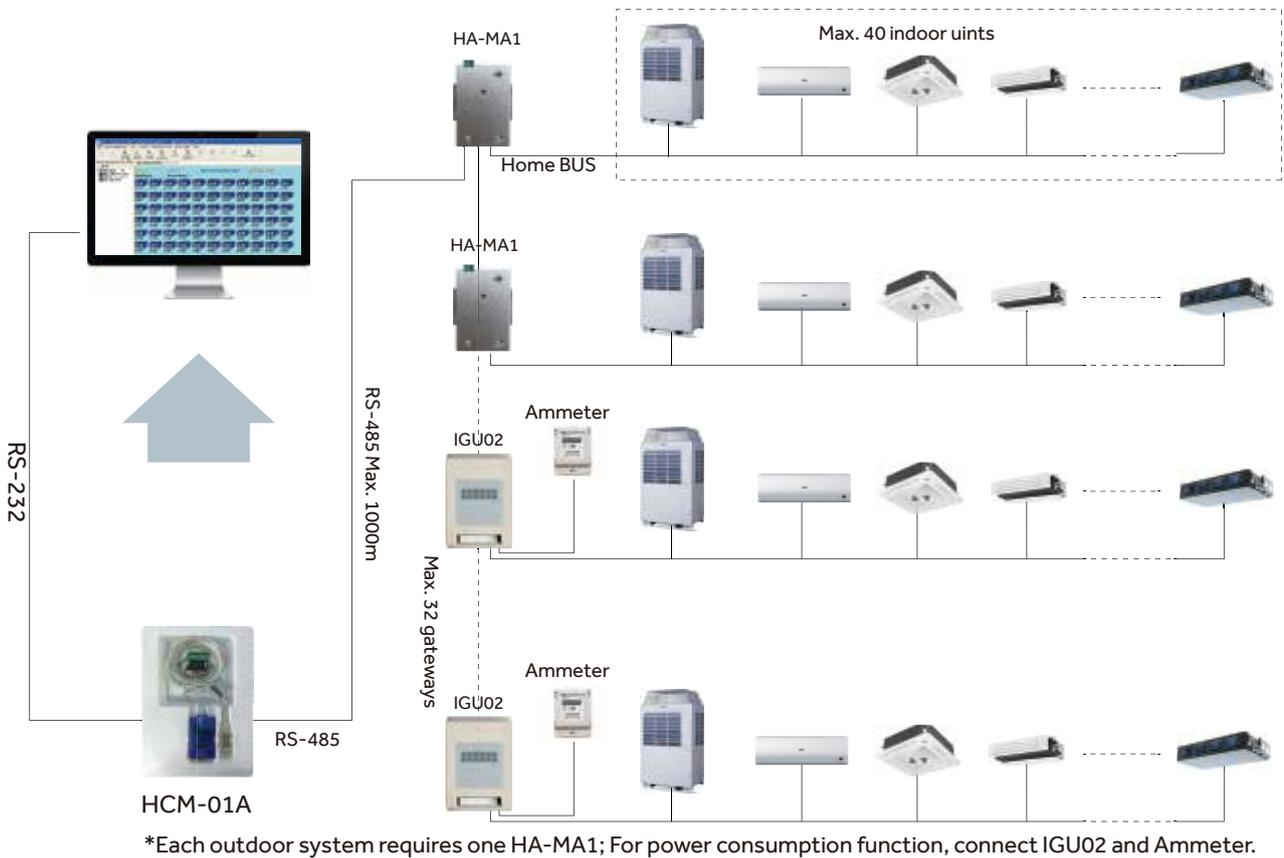
- Protocol adapter, convert modbus rtu to lonworks
- Each system requires one HA-MA164AD
- Connect up to 32 indoor units per system
- External 24V DC power supply is needed

Sample YCZ-A004 schematic.

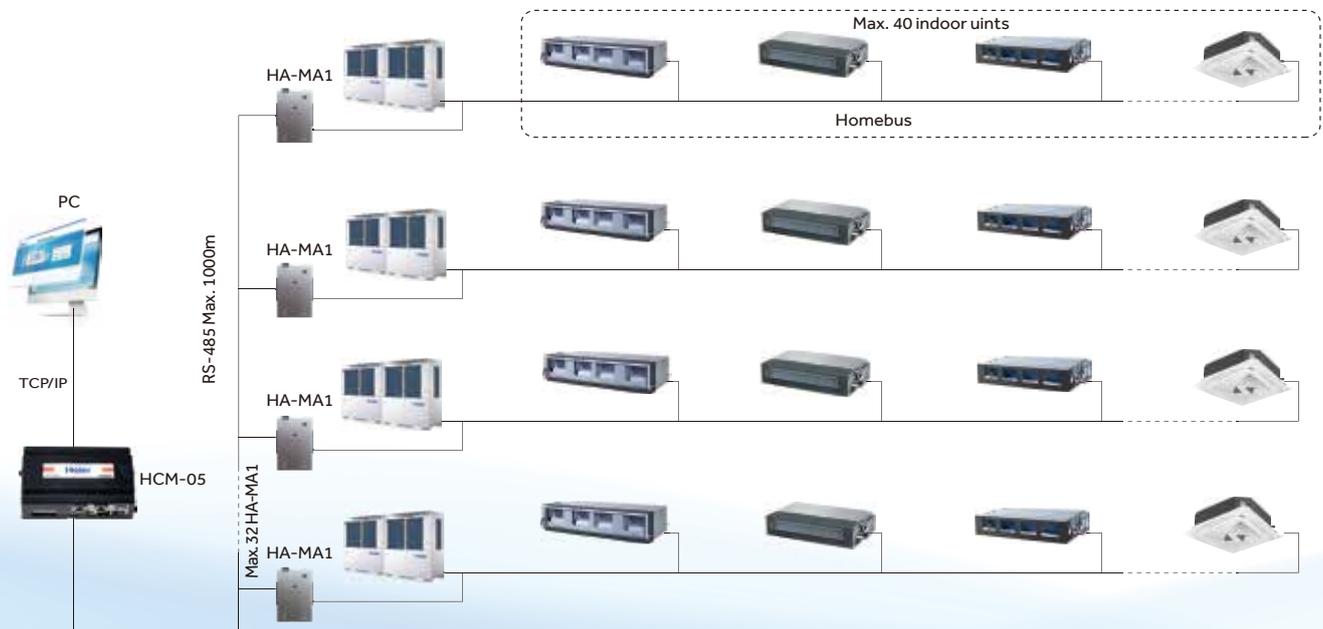


CENTRAL CONTROLLER SCHEMATIC

Sample HCM-01a schematic.



Sample HCM-05 schematic.



CONTROL SYSTEM

REFRIGERANT ACCESSORY

TYPE	Name	Model	Image	Notes
HEAT PUMP	Branch pipe for refrigerant distribution	FQG-B335A		Total connected capacity <33.5kW
		FQG-B506A		Total connected capacity <50.6kW & >33.5kW
		FQG-B730A		Total connected capacity <73.0kW & >50.6kW
		FQG-B1350A		Total connected capacity <135kW & >73kW
		FQG-B2040A		Total indoor capacity >135kW
	Gather pipe	HZG-20B		MRV IV-C, 2 outdoor units
		HZG-30B		MRV IV-C, 3 outdoor units
HEAT RECOVERY	Branch pipe for refrigerant distribution	FQG-R335A		Total connected capacity <33.5kW
		FQG-R506A		Total connected capacity <50.6kW & >33.5 kW
		FQG-R730A		Total connected capacity <73.0kW & >50.6kW
		FQG-R1350A		Total connected capacity <135kW & >73.0kW
	Gather pipe	HZG-R20A		MRV 3-RC, 2 outdoor units
		HZG-R30A		MRV 3-RC, 3 outdoor units
	Valve Pipe Bix	VP1-112A		Total connected capacity <11.2kW
		VP1-180A		Total connected capacity <18kW & >11.2 kW
		VP1-280A		Total connected capacity <28kW & >18.0 kW
		VP4-450A		Total connected capacity <11.2kW/branch

CONTROLLERS MATCH TABLE

IMAGE	SERIES	MODEL						
			YR-HD	YR-HBS01	HW-BA116ABK	YR-E17	YR-E16A	YR-E16B
	High Wall	AS***MNERA	■		■	■	■	■
	Cassette One Way	AB***MAERA	■		■	■	■	■
	Cassette Mini 4 Way	AB***MCERA(M)		■		■	■	■
	Cassette Round Way	AB***MRERA		■		■	■	■
	Duct Slim Low ESP	AD***MSERA	■		■	■	■	■
	Duct Medium ESP	AD***MJERA	■		■	■	■	■
	Duct High ESP	AD***MQERA	■		■	■	■	■
	Duct High ESP	AD***MHERA	■		■	■	■	■
	Ducted Fresh Air	AD***MPERA			■	■	■	■





EASY MRV Connection Kit



EASY MATCH

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EASY MRV SPECIFICATIONS	75
SUPER MATCH LINE-UP	75

FEATURES & BENEFITS

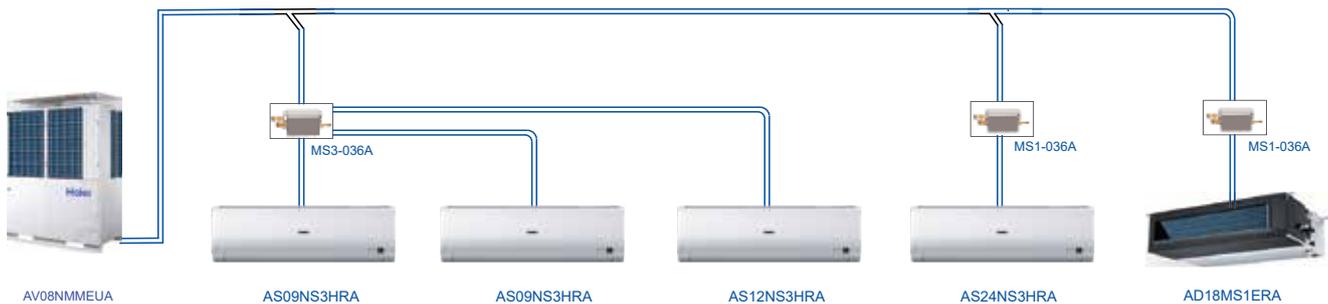
SYSTEM INTRODUCTION

Haier Easy MRV kit provides a solution to connect Super Match indoor units with MRV outdoor units.

Outdoor	MRV IV	MRV S
Image		
kW	25 ~ 56	12.6~15.5
Power Supply	3Ph/380-400V/50 Hz	1Ph/ 230V/50Hz

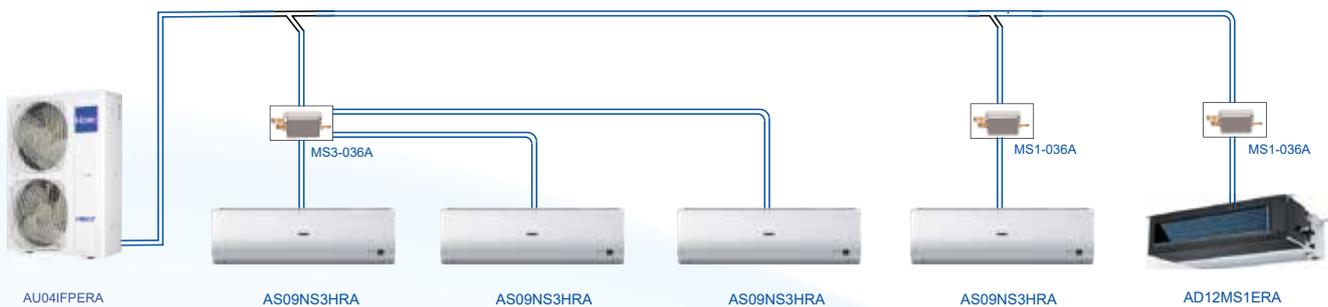
Example # 1

All super match indoor units connected with MRV IV



Example # 2

All super match indoor units connected with MRV S

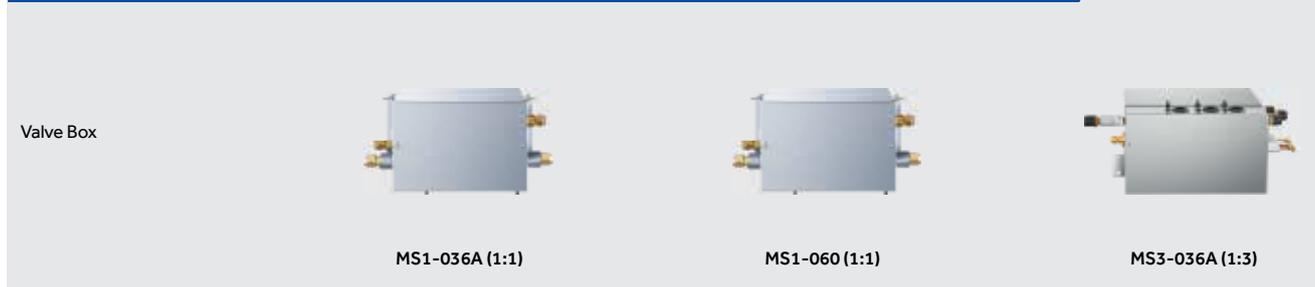


Example # 3

Three (3) super match indoor units, two (2) MRV indoor units connected with MRV S



EASY MRV SPECIFICATIONS



Model		MS1-036A	MS1-060A	MS3-036A
Connected indoor quantity	/	1	1	3
Connected indoor capacity	Btu/h	≤36K (11 kW)	>36K but <60K	≤36K (each indoor unit)
Power Supply	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Size (W/D/H)	mm	310/217/155	310/217/155	394/227/253
Shipping dimensions	mm	509/285/209	509/285/209	687/295/303
Material	/	Galvanized steel	Galvanized steel	Galvanized steel
Colour	/	Grey	Grey	Grey
Net/shipping weight	kg	5/7	5/7	9/12
Liquid pipe	mm	9.52 (Main) / 6.35	9.52 (Main) / 12.7	6.35(Main)/9.52 9.52(Main)/12.7
Gas pipe (mm)	mm	15.88(Main)/ 12.7 / 9.52	19.05 (Main)/ 15.88	19.05(Main)/ 15.88 15.88(Main)/ 12.7 / 9.52
Pipe connection method	/	Flare connection	Flare connection	Flare connection
Branch box-Indoor Maximum single pipe length	m	15	15	15
Branch box- indoor maximum drop	m	15	15	15
Height Drop between branch box	m	15	15	15

SUPER MATCH LINE-UP

Easy MRV can be used with the Super Match range of indoor units, See Super Match product catalogue for indoor unit specifications.

Super Match	Image	7K	9K	12K	15K	18K	24K
Indoor		2.2	2.8	3.6	4.4	5.3	7.1
Hi Wall - Breeza		■	■	■	■	■	■
Cassette			■	■		■	■
Slim Ducted (Panel shown)			■	■		■	■
Medium ESP Ducted				■		■	■
Console			■	■			



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Haier
Air Conditioning

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