

MRV5-RC

DC INVERTER

005 Features & Benefits

027 MRV 5-RC Outdoor



Advanced Technology



System Introduction



High Efficiency



Easy Installation

Haier



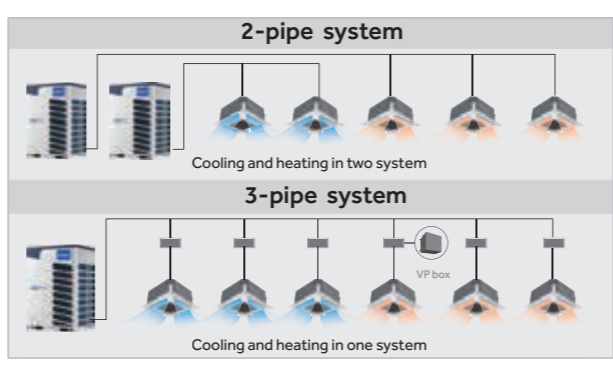
MRV 5-RC

- Advanced Technology
- System Introduction
- High Efficiency
- Easy Installation

SYSTEM INTRODUCTION

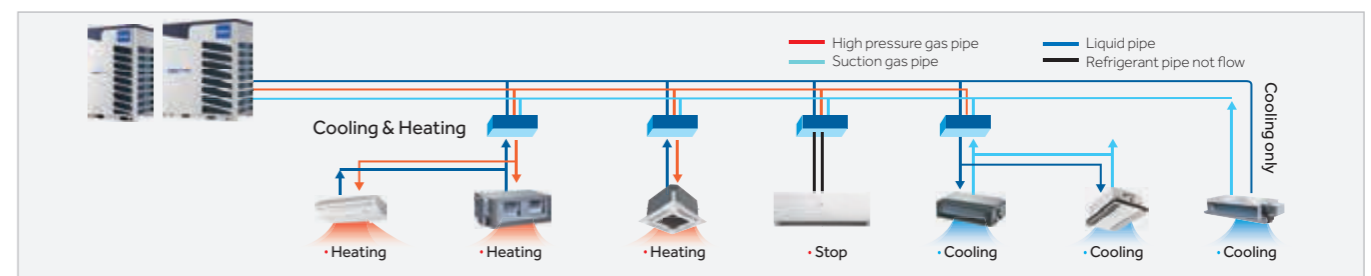
What is heat recover VRF unit?

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



SYSTEM INTRODUCTION

Variable operation mode in one system



ADVANCED TECHNOLOGY

What is heat recover VRF unit?

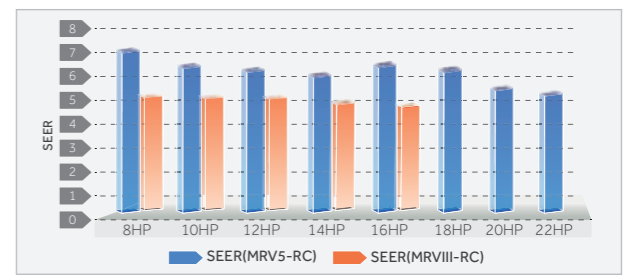
With large capacity full DC inverter compressor, MRV 5-RC can reach single module 22HP, maximum combination 88HP.



HIGH EFFICIENCY

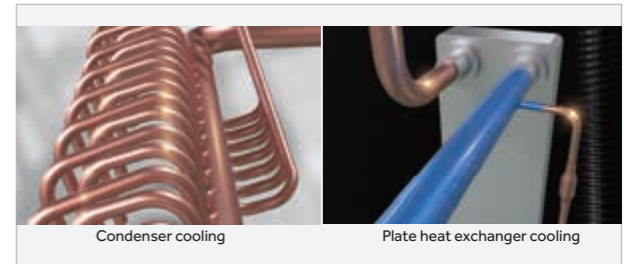
Full DC inverter technology

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



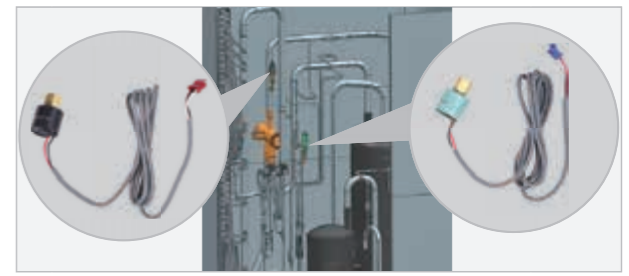
Two stage cooling technology

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



Twin pressure sensors

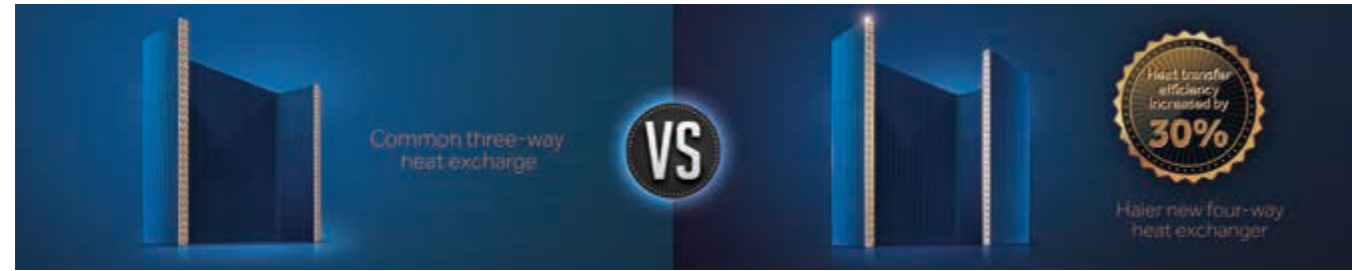
High pressure sensor used to real-time monitor the high pressure change. Protecting MRV 5-RC against the impact of high pressure momentary changes. Low pressure sensor used to real-time feedback compressor suction pressure, so our unit rapidly respond the change of room load.



HIGH EFFICIENCY

Three layers fin and new four way heat exchanger

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



EASY INSTALLATION

VP (valve pipe) box structure overview

Overview

- Specially designed for MRV 5-RC, volume is small to 0.02m³ (for VP1 box), 0.05m³ (for VP4 box). Greatly reduced the installation space.
- Individual Valve and Pipe Box for Heat Recovery.
- The valve box can be connected in series, reduce the use of diverging pipes and reduce the installation cost.



Model name	Max. capacity of Indoor(kw)	Power Supply	Max. indoor units	Dimension
VP1-112B	xs11.2	1/220-240/50/60	5	388/200/275
VP1-180B	11.2<xs18	1/220-240/50/60	8	388/200/275
VP1-280B	18<xs28	1/220-240/50/60	8	388/200/275
VP4-450B	≤45	1/220-240/50/60	20	396/290/411

Door-type electric control box

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



Four-way pipe connection

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



Auto addressing indoor units and oil balancing

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



3/380~415/50/60



Model		AV08IMVURA	AV10IMVURA	AV12IMVURA	AV14IMVURA		
Combination model		/	/	/	/		
		/	/	/	/		
		/	/	/	/		
		/	/	/	/		
		/	/	/	/		
Capacity	Capacity range	HP	8	10	12	14	
	Cooling	kW	22.4	28	33.5	40	
	Heating	kW	22.4	28	33.5	40	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	5.63	7.67	9.57	12.31
		Max power input	kW	12.80	13.80	18.20	19.20
		Rated current	A	9.29	12.67	15.81	20.33
		Max current	A	21.14	22.79	30.06	31.71
	Heating	Rated power input	kW	5.15	6.67	8.38	10.53
		Max power input	kW	11.50	12.50	17.40	18.40
		Rated current	A	8.50	11.01	13.83	17.38
		Max current	A	18.99	20.64	28.74	30.39
	SEER		7.05	6.68	6.58	6.37	
	SCOP		4.02	3.94	4.08	3.86	
	ηs.c	%	279	264	260	252	
	ηs.h	%	158	155	160	151	
	Performance	Air flow (H)	m ³ /h	12000	12000	13500	13500
		Sound pressure level (H)	dB(A)	57	58	60	61
Installation	External dimensions(W/D/H)	mm	980/750/1690				
	Shipping dimensions(W/D/H)	mm	1070/850/1858				
	Net/Shipping weight	kg	246/271		257/282		
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
	Compressor quantity		1INV	1INV	1INV	1INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	10	10	10	10	
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	
	Refrigerant high gas pipe	mm	19.05	19.05	22.22	22.22	
	Max. total pipe length	m	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	
	Max drop between I.U. & O.U. (O.U. down/up) *1	m	110/90	110/90	110/90	110/90	
Standard drop between I.U. & O.U. (O.U. up/down) *2	m	50/40	50/40	50/40	50/40		
Max drop between I.U. *3	m	30	30	30	30		
Standard drop between I.U. *4	m	18	18	18	18		
External static pressure	Pa	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		13	16	20	24	
Working temp.	Cooling	°C	-5-50				
	Heating	°C	-23-21				

Max drop between I.U. & O.U. *1
Standard design and production in the factory.
Max drop between I.U. *2
Standard design and production in the factory.
Max drop between I.U. *3
Standard design and production in the factory.
Standard drop between I.U. *4
Standard design and production in the factory.
* All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp 35°C DB/24WB in heating, indoor temp is 20°C DB in heating, outdoor temp is 7°C DB/6°CWB

MRV5-RC

DC INVERTER



3/380~415/50/60

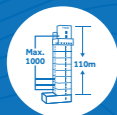


AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA



AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

Model			AV16IMVURA	AV18IMVURA	AV20IMVURA	AV22IMVURA	AV24IMVURA	AV26IMVURA	AV28IMVURA	AV30IMVURA	
Combination model			/	/	/	/	AV12IMVURA	AV12IMVURA	AV14IMVURA	AV14IMVURA	
			/	/	/	/	AV12IMVURA	AV14IMVURA	AV14IMVURA	AV16IMVURA	
			/	/	/	/	/	/	/	/	
			/	/	/	/	/	/	/	/	
Capacity	Capacity range	HP	16	18	20	22	24	26	28	30	
	Cooling	kW	45	50	56	60	67.0	73.5	80.0	85.0	
	Heating	kW	45	50	56	60	67.0	73.5	80.0	85.0	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	14.06	16.13	17.23	20.00	19.14	21.88	24.62	26.37
		Max power input	kW	25.10	28.50	32.00	33.00	36.400	37.40	38.40	44.30
		Rated current	A	23.22	26.64	28.46	33.03	31.61	36.13	40.65	43.55
		Max current	A	41.45	47.07	52.85	54.50	60.115	61.77	63.42	73.16
	Heating	Rated power input	kW	11.39	13.70	15.78	17.91	16.75	18.90	21.05	21.92
		Max power input	kW	22.70	25.50	29.40	30.40	34.800	35.80	36.80	41.10
		Rated current	A	18.81	22.62	26.05	29.58	27.66	31.22	34.77	36.20
		Max current	A	37.49	42.11	48.55	50.21	57.472	59.12	60.78	67.88
	SEER		6.86	6.48	5.90	5.74	6.58	6.46	6.37	6.61	
SCOP		4.21	3.99	3.93	3.76	4.08	3.94	3.86	4.02		
ηs.c	%	271	256	233	227	260	255	252	261		
ηs.h	%	165	157	154	147	160	155	151	158		
Performance	Air flow (H)	m³/h	17000	17000	19000	19000	27000	27000	27000	30500	
	Sound pressure level (H)	dB(A)	62	63	63	64	63	63.5	64	64.5	
Installation	External dimensions(W/D/H)	mm	1410/750/1690		1410/750/1690		980/750/1690+980/750/1690		980/750/1690+1410/750/1690		
	Shipping dimensions(W/D/H)	mm	1485/850/1858		1485/850/1858		1070/850/1858+1070/850/1858		1070/850/1858+1485/850/1858		
	Net/Shipping weight	kg	366/395		375/404		246/271+246/271		246/271+366/395		
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
	Compressor quantity		2INV	2INV	2INV	2INV	2INV	2INV	2INV	3INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	10	10	10	10	20	20	20	20	
	Refrigerant liquid pipe	mm	12.7	15.88	15.88	15.88	15.88	15.88	15.88	19.05	
	Refrigerant gas pipe	mm	28.58	28.58	28.58	28.58	28.58	28.58	28.58	31.8	
	Refrigerant high gas pipe	mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4	28.58	
	Max. total pipe length	m	1000	1000	1000	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	
	Max drop between I.U.&O.U. (O.U. down/up) *1	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	
	Standard drop between I.U.&O.U. (O.U. up/down) *2	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	
Max drop between I.U. *3	m	30	30	30	30	30	30	30	30		
Standard drop between I.U. *4	m	18	18	18	18	18	18	18	18		
External static pressure	Pa	110	110	110	110	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		27	30	33	36	40	43	47	50	
Working temp.	Cooling	°C	-5-50			-5-50			-5-50		
	Heating	°C	-23-21			-23-21			-23-21		



Total pipe length 1000m, height drop 110m



Full DC inverter compressors



Single module 22HP, maximum combination 88HP



Automatic Oil balancing

Max drop between I.U. & O.U. *1
Standard design and production in the factory.
Max drop between I.U. *3
Standard design and production in the factory.
*4 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, indoor temp. is 20°C DB, outdoor temp. is 7°C DB/6°C WB)

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.
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.

MRV5-RC

DC INVERTER



3/380~415/50/60

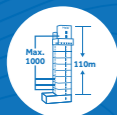


AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA



AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

Model			AV32IMVURA	AV34IMVURA	AV36IMVURA	AV38IMVURA	AV40IMVURA	AV42IMVURA	AV44IMVURA	AV46IMVURA	
Combination model			AV16IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	AV22IMVURA	AV14IMVURA	
			AV16IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	AV22IMVURA	AV22IMVURA	AV16IMVURA	
			/	/	/	/	/	/	/	AV16IMVURA	
			/	/	/	/	/	/	/	/	
Capacity	Capacity range	HP	32	34	36	38	40	42	44	46	
	Cooling	kW	90.0	95.0	100.0	106.0	112.0	116.0	120.0	130.0	
	Heating	kW	90.0	95.0	100.0	106.0	112.0	116.0	120.0	130.0	
Electrical parameters	Power supply		Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	28.13	30.19	32.26	33.36	34.46	37.23	40.00	40.43
		Max power input	kW	50.20	53.60	57.00	60.50	64.00	65.00	66.00	69.40
		Rated current	A	46.45	49.86	53.27	55.09	56.91	61.49	66.06	66.77
		Max current	A	82.91	88.52	94.14	99.92	105.70	107.35	109.00	114.61
	Heating	Rated power input	kW	22.78	25.09	27.40	29.47	31.55	33.69	35.82	33.31
		Max power input	kW	45.40	48.20	51.00	54.90	58.80	59.80	60.80	63.80
		Rated current	A	37.63	41.44	45.25	48.68	52.11	55.63	59.16	55.01
		Max current	A	74.98	79.60	84.23	90.67	97.11	98.76	100.41	105.37
	SEER			6.86	6.64	6.48	6.15	5.90	5.81	5.74	6.70
	SCOP			4.21	4.08	3.99	3.96	3.93	3.83	3.76	4.08
	ηs.c		%	271	263	256	243	233	229	227	265
ηs.h		%	165	160	157	155	154	150	147	160	
Performance	Air flow (H)	m ³ /h	34000	34000	34000	36000	38000	38000	38000	47500	
	Sound pressure level (H)	dB(A)	65	65.5	66	66	66	66.5	67	66.5	
Installation	External dimensions(W/D/H)		1410/750/1690+1410/750/1690				1410/750/1690+1410/750/1690				980/750/1690+1410/750/1690
	Shipping dimensions(W/D/H)		1485/850/1858+1485/850/1858				1485/850/1858+1485/850/1858				1070/850/1858+1485/850/1858
	Net/Shipping weight		366/395+366/395				366/395+366/395		366/395+375/404		375/404+375/404
	Compressor type		DC INV. SCROLL		DC INV. SCROLL		DC INV. SCROLL		DC INV. SCROLL		DC INV. SCROLL
	Compressor brand		MITSUBISHI		MITSUBISHI		MITSUBISHI		MITSUBISHI		MITSUBISHI
			ELECTRIC		ELECTRIC		ELECTRIC		ELECTRIC		ELECTRIC
	Compressor quantity		4INV		4INV		4INV		4INV		5INV
	Refrigerant type		R410A		R410A		R410A		R410A		R410A
	Refrigerant charge		kg		20		20		20		30
	Refrigerant liquid pipe		mm		19.05		19.05		19.05		19.05
	Refrigerant gas pipe		mm		31.8		38.1		38.1		38.1
	Refrigerant high gas pipe		mm		28.58		34.9		34.9		34.9
	Max.total pipe length		m		1000		1000		1000		1000
	Max. pipe length(Equivalent/Actual)		m		260/220		260/220		260/220		260/220
	Max drop between I.U.&O.U. (O.U. down/up) *1		m		110/90		110/90		110/90		110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m		50/40		50/40		50/40		50/40
Max drop between I.U. *3		m		30		30		30		30	
Standard drop between I.U. *4		m		18		18		18		18	
External static pressure		Pa		110		110		110		110	
Connection ratio	Connectable indoor unit ratio	%	50-130		50-130		50-130		50-130		
	Maximum number of indoor units		53		59		63		64		
Working temp.	Cooling	°C	-5-50				-5-50				
	Heating	°C	-23-21				-23-21				



Total pipe length 1000m, height drop 110m



Full DC inverter compressors



Single module 22HP, maximum combination 88HP



Automatic Oil balancing

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

MRV5-RC

DC INVERTER

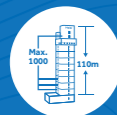
3/380~415/50/60



AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA



AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA



Total pipe length 1000m,
height drop 110m



Full DC inverter
compressors



Single module 22HP,
maximum combination 88HP



Automatic
oil balancing

Model			AV48IMVURA	AV50IMVURA	AV52IMVURA	AV54IMVURA	AV56IMVURA	AV58IMVURA	AV60IMVURA	
Combination model			AV16IMVURA	AV16IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	
			AV16IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	
			AV16IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	AV20IMVURA	
			/	/	/	/	/	/	/	
Capacity	Capacity range	HP	48	50	52	54	56	58	60	
	Cooling	kW	135.0	140.0	145.0	150.0	156.0	162.0	168.0	
	Heating	kW	135.0	140.0	145.0	150.0	156.0	162.0	168.0	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	42.19	44.25	46.32	48.39	49.49	50.59	51.69
		Max power input	kW	75.30	78.70	82.10	85.50	89.00	92.50	96.00
		Rated current	A	69.67	73.09	76.50	79.91	81.73	83.55	85.37
		Max current	A	124.36	129.97	135.59	141.20	146.98	152.76	158.54
	Heating	Rated power input	kW	34.18	36.48	38.79	41.10	43.17	45.25	47.33
		Max power input	kW	68.10	70.90	73.70	76.50	80.40	84.30	88.20
		Rated current	A	56.44	60.25	64.06	67.87	71.30	74.73	78.16
		Max current	A	112.47	117.09	121.72	126.34	132.78	139.22	145.66
	SEER		6.86	6.70	6.58	6.48	6.25	6.06	5.90	
SCOP		4.21	4.12	4.05	3.99	3.97	3.95	3.93		
ηs.c	%	271	265	260	256	247	239	233		
ηs.h	%	165	162	159	157	156	155	154		
Performance	Air flow (H)	m ³ /h	51000	51000	51000	51000	53000	55000	57000	
	Sound pressure level (H)	dB(A)	67	67	67.5	68	68	68	68	
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690			1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858			1485/850/1858+1485/850/1858+1485/850/1858				
	Net/Shipping weight	kg	366/395+366/395+366/395			366/395+366/395+366/395		366/395+366/395+375/404	366/395+375/404+375/404	375/404+375/404+375/404
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	
	Compressor quantity		ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
	Refrigerant type		6INV	6INV	6INV	6INV	6INV	6INV	6INV	
	Refrigerant charge	kg	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant liquid pipe	mm	30	30	30	30	30	30	30	
	Refrigerant gas pipe	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
Refrigerant high gas pipe	mm	38.1	38.1	38.1	38.1	38.1	41.3	41.3		
Max total pipe length	m	34.9	34.9	34.9	34.9	34.9	38.1	38.1		
Max pipe length (Equivalent/Actual)	m	1000	1000	1000	1000	1000	1000	1000		
Max drop between I.U.&O.U. (O.U. down/up) *1	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220		
Standard drop between I.U.&O.U. (O.U. up/down) *2	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90		
Max drop between I.U. *3	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40		
Standard drop between I.U. *4	m	30	30	30	30	30	30	30		
External static pressure	Pa	18	18	18	18	18	18	18		
Connection ratio	Connectable indoor unit ratio	%	110	110	110	110	110	110	110	
	Maximum number of indoor units		50-130	50-130	50-130	50-130	50-130	50-130	50-130	
Working temp.	Cooling	°C	64	64	64	64	64	64	64	
	Heating	°C	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	

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

MRV5-RC

DC INVERTER



3/380~415/50/60



AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA

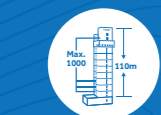


AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

Model			AV62IMVURA	AV64IMVURA	AV66IMVURA	AV68IMVURA	AV70IMVURA	AV72IMVURA	
Combination model			AV20IMVURA		AV20IMVURA	AV22IMVURA	AV16IMVURA	AV16IMVURA	AV18IMVURA
			AV20IMVURA		AV22IMVURA	AV22IMVURA	AV16IMVURA	AV18IMVURA	AV18IMVURA
			AV22IMVURA		AV22IMVURA	AV22IMVURA	AV18IMVURA	AV18IMVURA	AV18IMVURA
			/		/	/	AV18IMVURA	AV18IMVURA	AV18IMVURA
Capacity	Capacity range	HP	62	64	66	68	70	72	
	Cooling	kW	172.0	176.0	180.0	190.0	195.0	200.0	
	Heating	kW	172.0	176.0	180.0	190.0	195.0	200.0	
Electrical parameters	Power supply		Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60
	Cooling	Rated power input	kW	54.46	57.23	60.00	60.38	62.45	64.52
		Max power input	kW	97.00	98.00	99.00	107.20	110.60	114.00
		Rated current	A	89.94	94.52	99.09	99.72	103.14	106.55
		Max current	A	160.20	161.85	163.50	177.04	182.66	188.27
	Heating	Rated power input	kW	49.46	51.60	53.73	50.18	52.49	54.79
		Max power input	kW	89.20	90.20	91.20	96.40	99.20	102.00
		Rated current	A	81.68	85.21	88.74	82.88	86.68	90.49
		Max current	A	147.31	148.97	150.62	159.21	163.83	168.45
	SEER			5.84	5.79	5.74	6.64	6.55	6.48
	SCOP			3.86	3.81	3.76	4.08	4.04	3.99
	ηs.c		%	231	229	227	263	259	256
ηs.h		%	151	149	147	160	159	157	
Performance	Air flow (H)	m³/h	57000	57000	57000	68000	68000	68000	
	Sound pressure level (H)	dB(A)	68	68.5	69	69	69	69	
Installation	External dimensions(W/D/H)		mm	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	
	Shipping dimensions(W/D/H)		mm	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	
	Net/Shipping weight		kg	375/404+375/404+375/404	375/404+375/404+375/404	375/404+375/404+375/404	366/395+366/395+366/395+366/395	366/395+366/395+366/395+366/395	
	Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand			MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
	Compressor brand			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	Compressor quantity			6INV	6INV	6INV	8INV	8INV	8INV
	Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge		kg	30	30	30	40	40	40
	Refrigerant liquid pipe		mm	19.05	19.05	19.05	22.2	22.2	22.2
	Refrigerant gas pipe		mm	41.3	41.3	41.3	44.5	44.5	44.5
	Refrigerant high gas pipe		mm	38.1	38.1	38.1	41.3	41.3	41.3
	Max. total pipe length		m	1000	1000	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	50/40	50/40
	Max drop between I.U. *3		m	30	30	30	30	30	30
	Standard drop between I.U. *4		m	18	18	18	18	18	18
External static pressure		Pa	110	110	110	110	110	110	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	64	64	
Working temp.	Cooling	°C	-5-50			-5-50			
	Heating	°C	-23-21			-23-21			

Max drop between I.U. & O.U. *1
Standard drop between I.U. & O.U. *2
Max drop between I.U. *3
Standard drop between I.U. *4
* All the specifications are tested under nominal conditions (cooling: indoor temp. is 27°C DB/19°C WB; outdoor temp. 35°C DB/24°C WB; heating: indoor temp. is 20°C DB/15°C WB; outdoor temp. is 7°C DB/6°C WB)

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.



Total pipe length 1000m, height drop 110m



Full DC inverter compressors



Single module 22HP, maximum combination 88HP



Automatic Oil balancing

MRV5-RC

DC INVERTER

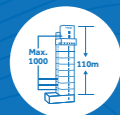
3/380~415/50/60



AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA



AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA



Total pipe length 1000m,
height drop 110m



Full DC inverter
compressors



Single module 22HP,
maximum combination 88HP



Automatic
Oil balancing



Model			AV74IMVURA	AV76IMVURA	AV78IMVURA	AV80IMVURA	
Combination model			AV18IMVURA	AV18IMVURA	AV18IMVURA	AV20IMVURA	
			AV18IMVURA	AV18IMVURA	AV20IMVURA	AV20IMVURA	
			AV18IMVURA	AV20IMVURA	AV20IMVURA	AV20IMVURA	
			AV20IMVURA	AV20IMVURA	AV20IMVURA	AV20IMVURA	
Capacity	Capacity range	HP	74	76	78	80	
	Cooling	kW	206.0	212.0	218.0	224.0	
	Heating	kW	206.0	212.0	218.0	224.0	
Electrical parameters	Power supply		3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	65.62	66.72	67.82	68.92
		Max power input	kW	117.50	121.00	124.50	128.00
		Rated current	A	108.37	110.19	112.01	113.83
		Max current	A	194.05	199.83	205.61	211.39
	Heating	Rated power input	kW	56.87	58.95	61.02	63.10
		Max power input	kW	105.90	109.80	113.70	117.60
		Rated current	A	93.92	97.35	100.78	104.21
		Max current	A	174.89	181.34	187.78	194.22
	SEER			6.30	6.15	6.02	5.90
SCOP			3.98	3.96	3.94	3.93	
ηs.c		%	249	243	238	233	
ηs.h		%	156	155	155	154	
Performance	Air flow (H)	m ³ /h	70000	72000	74000	76000	
	Sound pressure level (H)	dB(A)	69	69	69	69	
Installation	External dimensions(W/D/H)		1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)		1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858				
	Net/Shipping weight		366/395+366/395+366/395+375/404	366/395+366/395+375/404+375/404	366/395+375/404+375/404+375/404	375/404+375/404+375/404+375/404	
	Compressor type		DC INV. SCROLL				
	Compressor brand		MITSUBISHI				
			ELECTRIC				
	Compressor quantity		8INV				
	Refrigerant type		R410A				
	Refrigerant charge		kg	40	40	40	40
	Refrigerant liquid pipe		mm	22.2	22.2	22.2	22.2
	Refrigerant gas pipe		mm	44.5	44.5	44.5	44.5
	Refrigerant high gas pipe		mm	41.3	41.3	41.3	41.3
	Max.total pipe length		m	1000	1000	1000	1000
	Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220
	Max drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90
	Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40
Max drop between I.U. *3		m	30	30	30	30	
Standard drop between I.U. *4		m	18	18	18	18	
External static pressure		Pa	110	110	110	110	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	
Working temp.	Cooling	°C	-5-50		-5-50		
	Heating	°C	-23-21		-23-21		

Max drop between I.U.&O.U. *1
Standard drop between I.U.&O.U. *2
Max drop between I.U. *3
Standard drop between I.U. *4
* All the specifications are tested under nominal condition (in cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp. is 35°C DB/24°C WB, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB)

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.

MRV5-RC

DC INVERTER



3/380~415/50/60

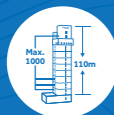


AV08IMVURA
AV10IMVURA
AV12IMVURA
AV14IMVURA



AV16IMVURA
AV18IMVURA
AV20IMVURA
AV22IMVURA

Model			AV82IMVURA	AV84IMVURA	AV86IMVURA	AV88IMVURA	
Combination model			AV20IMVURA	AV20IMVURA	AV20IMVURA	AV22IMVURA	
			AV20IMVURA	AV20IMVURA	AV22IMVURA	AV22IMVURA	
			AV20IMVURA	AV22IMVURA	AV22IMVURA	AV22IMVURA	
			AV22IMVURA	AV22IMVURA	AV22IMVURA	AV22IMVURA	
Capacity	Capacity range	HP	82	84	86	88	
	Cooling	kW	228.0	232.0	236.0	240.0	
	Heating	kW	228.0	232.0	236.0	240.0	
Electrical parameters	Power supply		3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	71.69	74.46	77.23	80.00
		Max power input	kW	129.00	130.00	131.00	132.00
		Rated current	A	118.40	122.97	127.55	132.12
		Max current	A	213.04	214.70	216.35	218.00
	Heating	Rated power input	kW	65.24	67.37	69.51	71.64
		Max power input	kW	118.60	119.60	120.60	121.60
		Rated current	A	107.74	111.26	114.79	118.31
		Max current	A	195.87	197.52	199.17	200.82
	SEER			5.86	5.81	5.77	5.74
	SCOP			3.88	3.83	3.79	3.76
	ηs.c		%	231	229	228	227
ηs.h		%	152	150	149	147	
Performance	Air flow (H)	m³/h	76000	76000	76000	76000	
	Sound pressure level (H)	dB(A)	69	69.5	70	70	
Installation	External dimensions(W/D/H)		1410/750/1690++1410/750/1690+1410/750/1690+1410/750/1690				
	Shipping dimensions(W/D/H)		1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858				
	Net/Shipping weight		375/404+375/404+375/404+375/404				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
	Compressor quantity		8INV	8INV	8INV	8INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge		kg	40	40	40	
	Refrigerant liquid pipe		mm	22.2	22.2	25.4	25.4
	Refrigerant gas pipe		mm	44.5	44.5	50.8	50.8
	Refrigerant high gas pipe		mm	41.3	41.3	44.5	44.5
Max.total pipe lenth		m	1000	1000	1000	1000	
Max. pipe length (Equivalent/Actual)		m	260/220	260/220	260/220	260/220	
Max drop between I.U.&O.U. (O.U. down/up) *1		m	110/90	110/90	110/90	110/90	
Standard drop between I.U.&O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40	
Max drop between I.U. *3		m	30	30	30	30	
Standard drop between I.U. *4		m	18	18	18	18	
External static pressure		Pa	110	110	110	110	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	
Working temp.	Cooling	°C	-5-50		-5-50		
	Heating	°C	-23-21		-23-21		



Total pipe length 1000m, height drop 110m



Full DC inverter compressors



Single module 22HP, maximum combination 88HP



Automatic Oil balancing

Max drop between I.U.&O.U. *1
Standard design and production in the factory.
Max drop between I.U. *3
Standard design and production in the factory.
* All the specifications are tested under nominal condition (in cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp. is 35°C DB/24°C WB, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB)

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.
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.