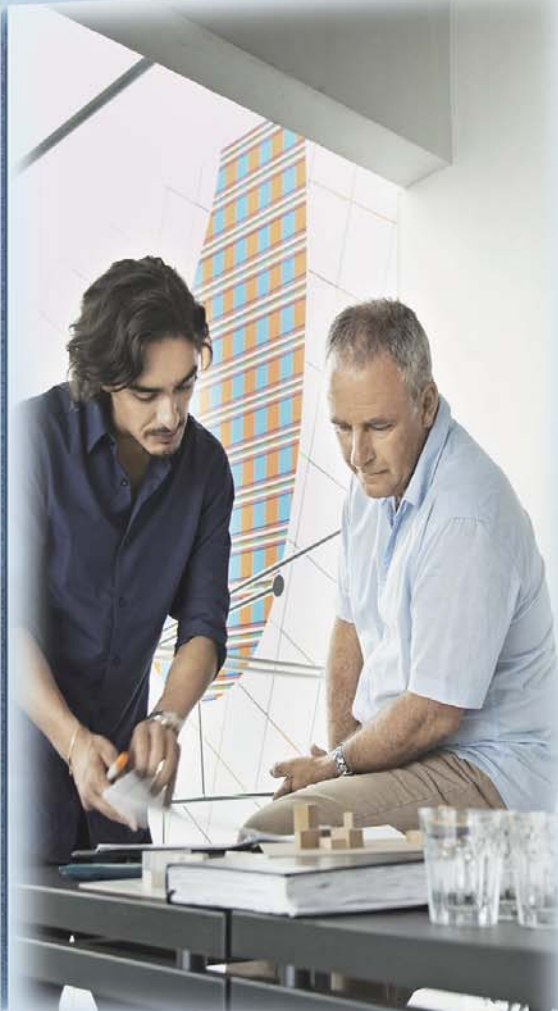




MRV III-C

| 033 Features & Benefits
| 041 Outdoor Specification

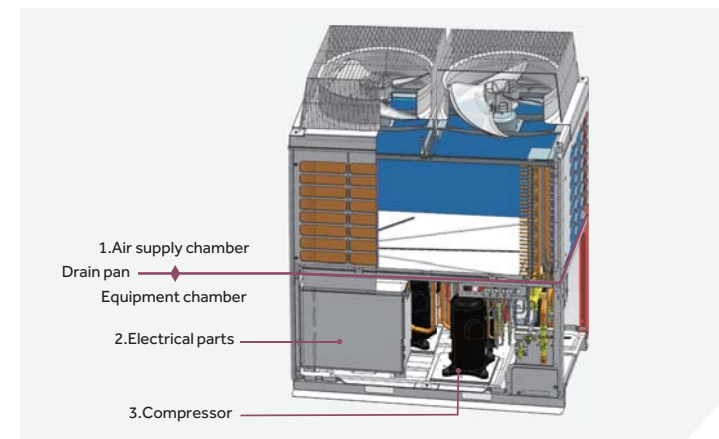


FEATURES & BENEFITS

MRV III-C

Air Supply Chamber and Equipment Chamber Separation Design

1. Prevent electrical parts and the main functional components by the rain Erosion, prolong the service life of components;
2. Compressor running noise was closed in the equipment room, reduce the running noise about 3 dB(A);
3. Air supply chamber complete isolation: During commissioning and maintenance, the units can be used normally.



Special Heat Exchanger Design

4 way air return heat exchanger design

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



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

Two stages heat exchanger design

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



Special Heat Exchanger Design

■ Aviation noise reduction patent fan design

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

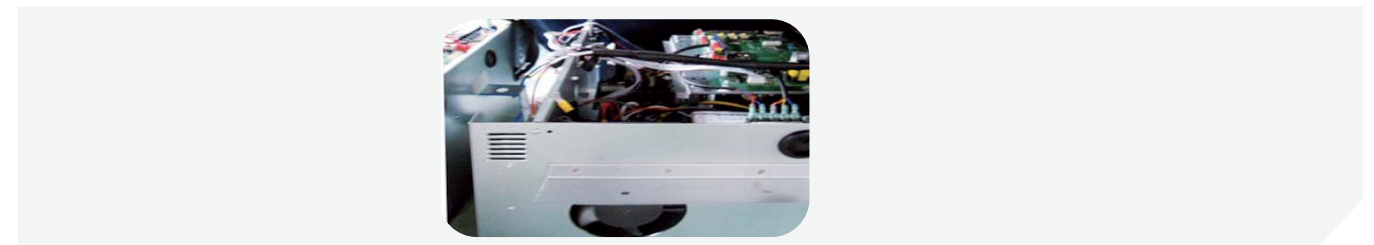
■ DC fan motor

- DC inverter technology •High efficiency •Low noise



Electric Control Box Heat Dissipation Design

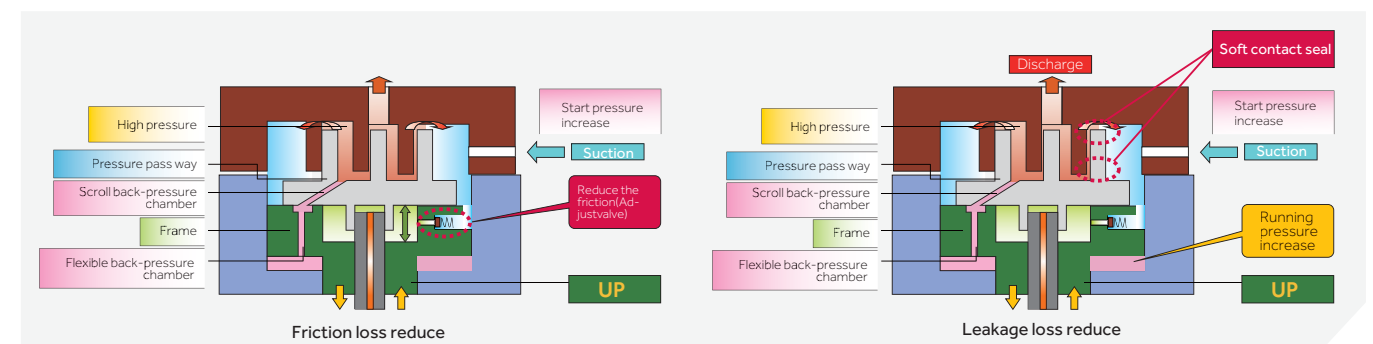
Streamline vortex fan forced heat dissipation fan inside the electric control box, to ensure the stable internal temperature and stable system operationn, sharp fan blade edge, and a certain degree of curvature, reduce the vibration, and pressure loss.



Energy Efficient

High Efficiency DC Inverter Scroll Compressor

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

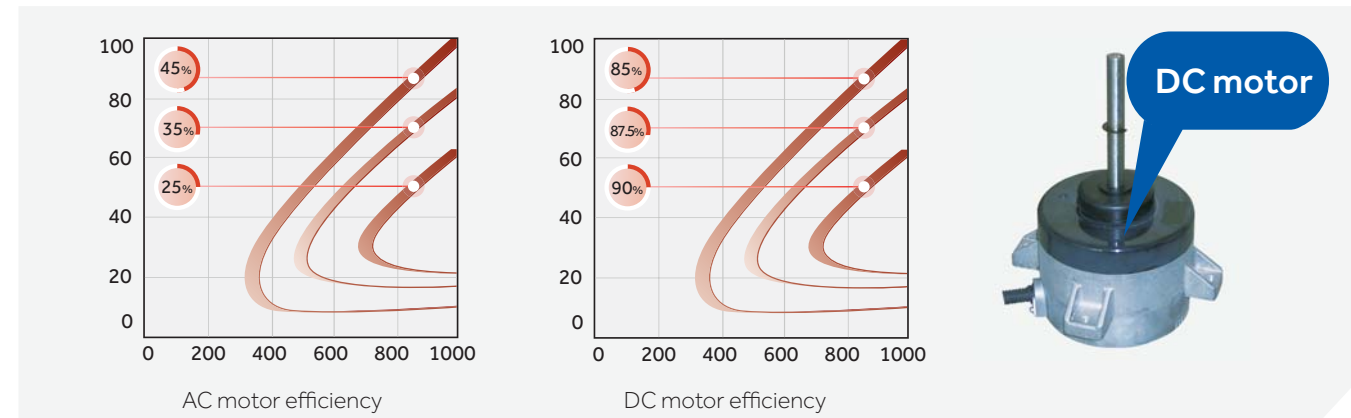


FEATURES & BENEFITS

Energy Efficient

64 Stage Speed Adjustment DC Fan Motor

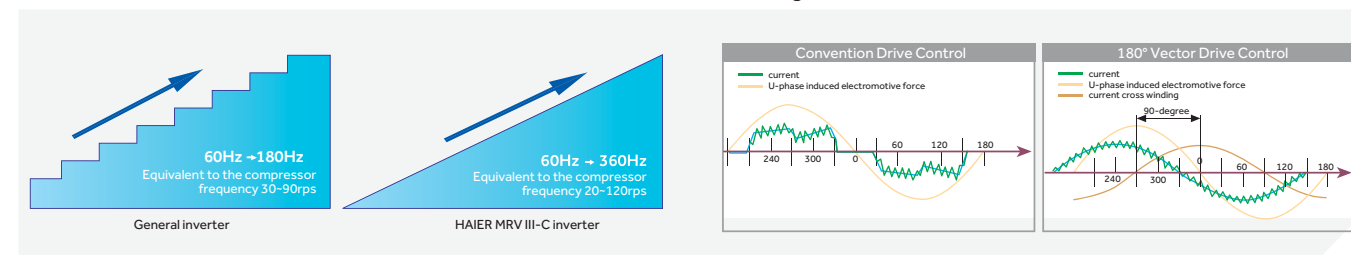
Efficiency increase 45% comparing with AC motor and power input largely decrease.
64 stage speed adjustment plus DC inverter drive, stabilizing compressor discharge pressure and suction pressure to ensure high system reliability.



Stepless DC Inverter Control Technology

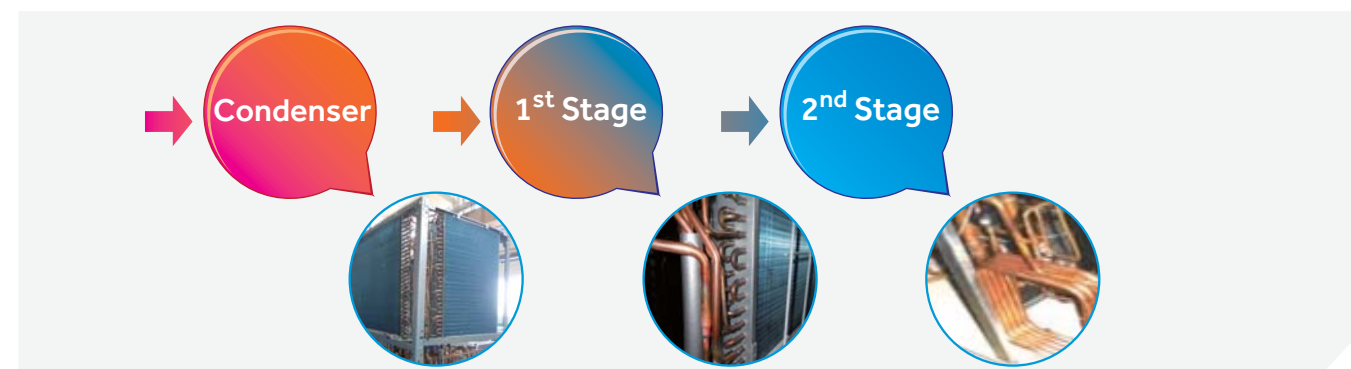
High precision control, variable frequency drive from 0 to 360Hz.

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



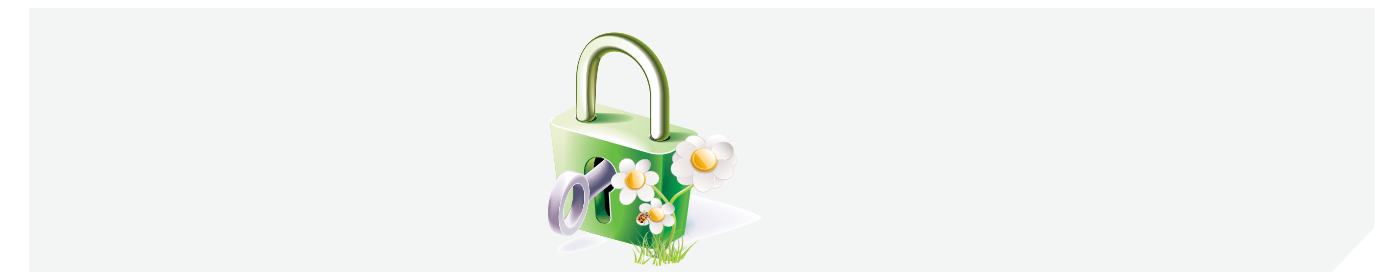
Two Stage Deep Sub Cooling Technology

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



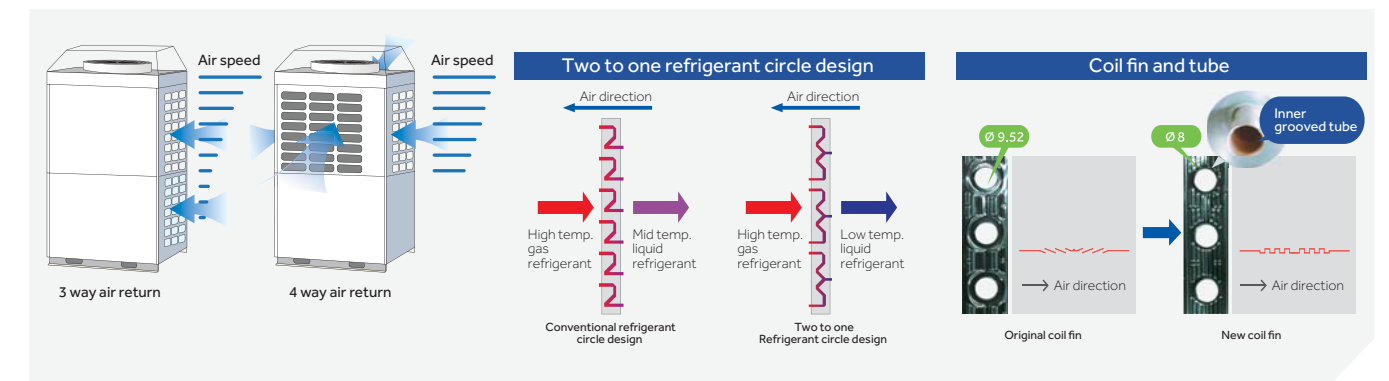
Energy Management Technology

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



High Efficiency Heat Exchanging Technology

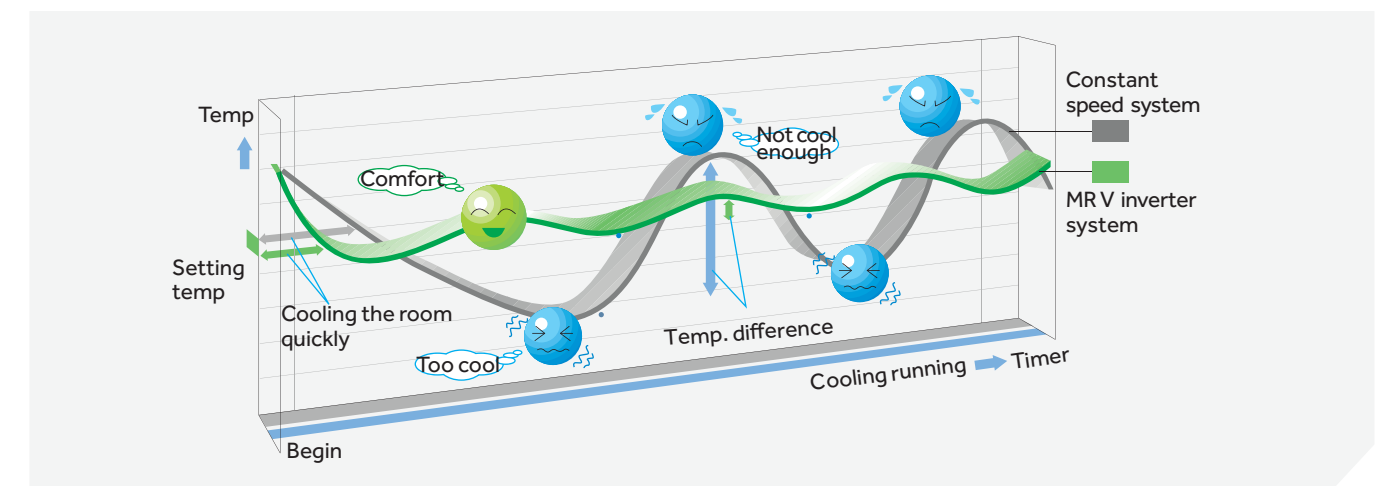
Outdoor high efficiency four way air return heat exchanger design. The compressor and condenser are placed in separated chamber. High efficiency heat exchanger design. Efficient ø8 inner grooved tube and 0.11 hydrophilic aluminum coil fin, corrosion and oxidation resistance treatment.



Comfort

Precise Control

Adopt the inverter control, the temperature could be control precisely within the range of $\pm 0.5^{\circ}\text{C}$.

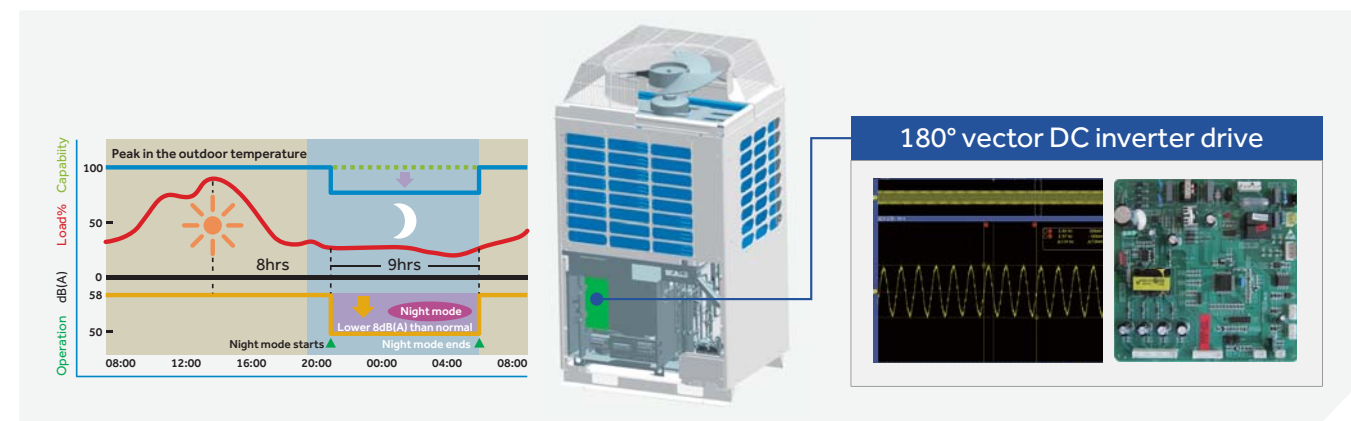


FEATURES & BENEFITS

Comfort

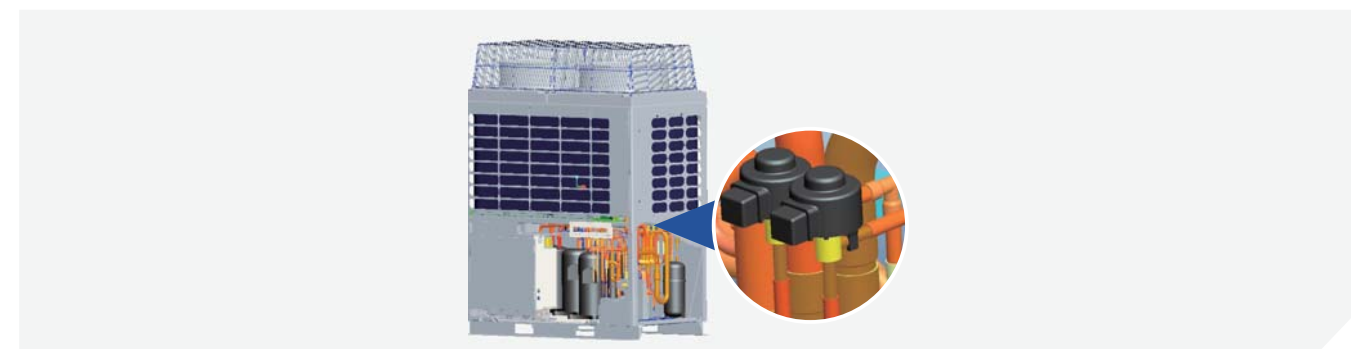
Low Noise and Night Silent Running

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



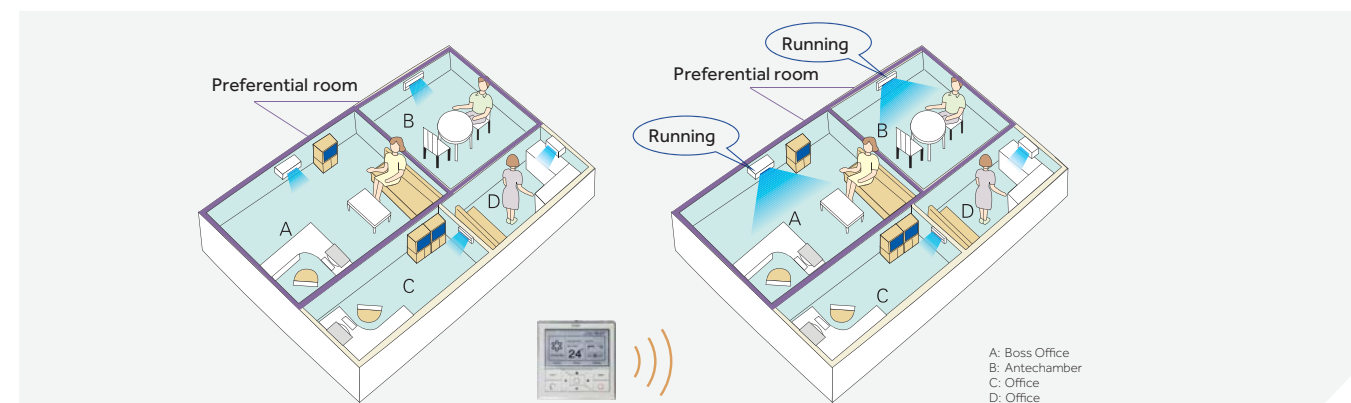
Double EEV Control

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



Priority Setting

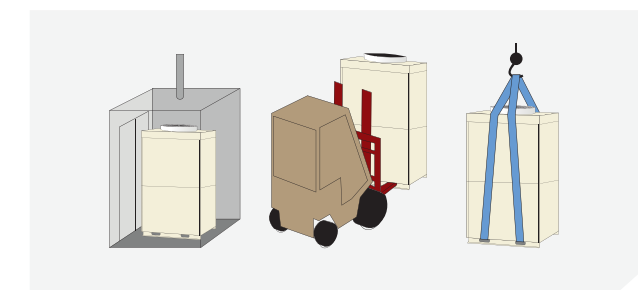
With the human design, you can set different preferential steps of some indoor units according to the room functions, so that it will ensure that the most important room gains high priority.



Convenient Installation

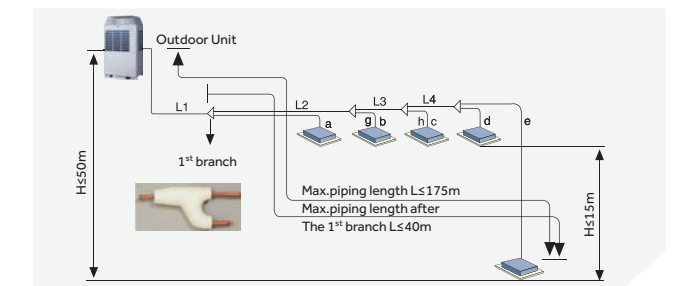
Easy Transportation

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



Long Pipe Length, High Height Drop

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



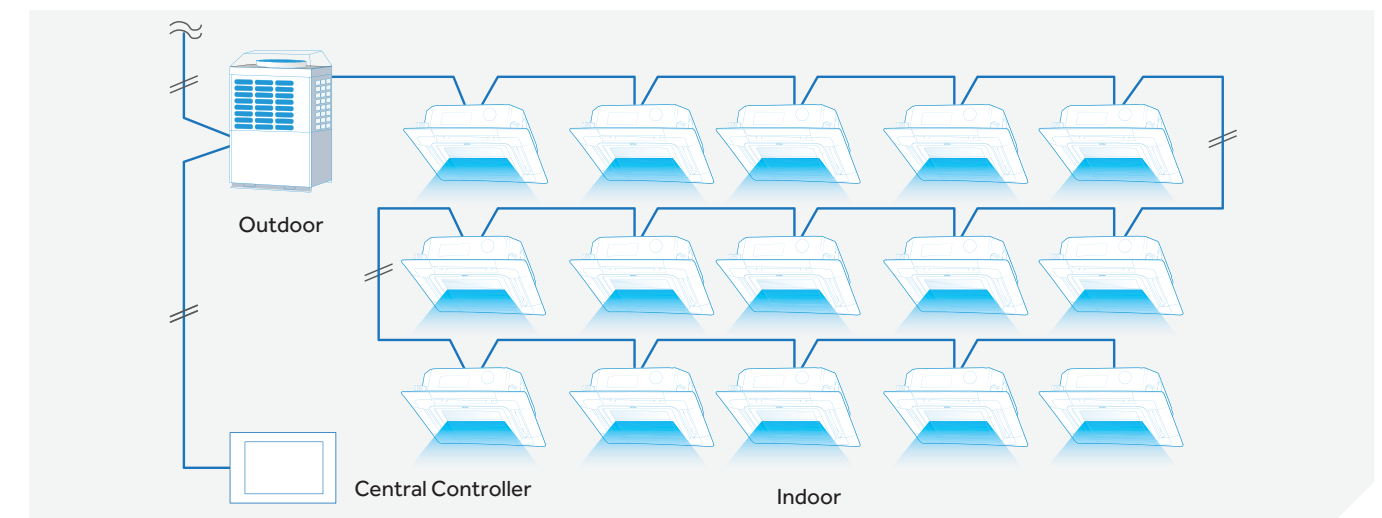
Outdoor High External Static Pressure

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



Connection Wire

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



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



8/10HP



12/14/16HP



Model			AV08NMVESA	AV10NMVESA	AV12IMVESA	AV14IMVESA	AV16IMVESA	AV18IMVESA	AV20IMVESA	AV22IMVESA	AV24IMVESA		AV26IMVESA	AV28IMVESA	AV30IMVESA	AV32IMVESA	AV34IMVESA	AV36IMVESA	AV38IMVESA	AV40IMVESA	AV42IMVESA	AV44IMVESA	AV46IMVESA	AV48IMVESA	
Combination model			/	/	/	/	/	AV08NMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA		AV10NMVESA	AV14IMVESA	AV14IMVESA	AV16IMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA	AV10NMVESA	AV12IMVESA	AV14IMVESA	AV16IMVESA	
			/	/	/	/	/	AV10NMVESA	AV10NMVESA	AV12IMVESA	AV14IMVESA		AV16IMVESA	AV14IMVESA	AV16IMVESA	AV16IMVESA	AV10NMVESA	AV10NMVESA	AV14IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	
			/	/	/	/	/	/	/	/	/	/	/	/	/	AV14IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA	AV16IMVESA
Capacity	Capacity range	HP	8	10	12	14	16	18	20	22	24		26	28	30	32	34	36	38	40	42	44	46	48	
	Cooling	kW	22.6	28	33.5	40	45	50.6	56	61.5	68		73	80	85	90	96	101	108	113	118	123.5	130	135	
	Heating	kW	25	31.5	37.5	45	50	56.5	63	69	76.5		81.5	90	95	100	108	113	121.5	126.5	131.5	137.5	145	150	
Electrical parameters	Power supply	PhV/Hz	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60		3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	3/380-400/50/60	
	Cooling	Rated power input	kW	5.27	7.36	10	11.4	13.4	12.63	14.72	17.36	18.76		20.76	22.8	24.8	26.8	26.12	28.12	30.16	32.16	34.16	36.8	38.2	40.2
		Max power input	kW	12.37	14.7	17.54	18.55	20.48	27.07	29.4	29.91	33.25		35.18	37.1	39.03	40.96	47.95	49.88	51.8	53.73	55.66	58.5	59.51	61.44
		Rated current	A	8.7	11.1	14.2	19.05	20.3	19.8	22.2	25.3	38.1	30.15		31.4	35.3	39.35	40.6	41.25	42.5	49.2	50.45	51.7	54.8	59.65
	Heating	Max current	A	19.85	23.4	27.9	29.5	32.37	43.25	46.8	47.75	52.9		55.77	59	61.87	64.74	76.3	79.17	82.4	85.27	88.14	92.64	94.24	97.11
		Rated power input	kW	5.89	7.97	10	11.6	13.5	13.86	15.94	17.97	19.57		21.47	23.2	25.1	27	27.54	29.4	31.17	33.07	34.97	37	38.6	40.5
		Max power input	kW	9.77	11.9	14.6	16.6	17.8	21.67	23.8	24.37	28.5		29.7	33.2	34.4	35.6	40.4	41.6	45.1	46.3	47.5	50.2	52.2	53.4
	EER	Rated current	A	9.7	12.5	15.1	17.96	19.3	22.2	25	27.6	30.46		31.8	35.92	37.26	38.6	42.96	44.3	48.42	49.76	51.1	53.7	56.56	57.9
		Max current	A	15.7	19	23.3	26.5	28.4	34.7	38	39	45.5		47.4	53	54.9	56.8	64.5	66.4	72	73.9	75.8	80.1	83.3	85.2
				4.29	3.80	3.35	3.51	3.36	4.01	3.80	3.54	3.62		3.52	3.51	3.43	3.36	3.68	3.59	3.58	3.51	3.45	3.36	3.40	3.36
Performance	COP		4.24	3.95	3.75	3.88	3.70	4.08	3.95	3.84	3.91		3.80	3.88	3.78	3.70	3.92	3.84	3.90	3.83	3.76	3.72	3.76	3.70	
	Air flow (H)	m³/h	11000	11000	14100	14100	14100	22200	22200	25200	25200		25200	28200	28200	28200	36300	36300	39300	39300	39300	42300	42300	42300	
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60	60	61	61		61	62	62	62	62	63	63	63	63	64	64	64	
	Sound power level (H)	dB(A)	73	73	76	76	76	77	77	78	78		78	79	79	79	79	81	81	81	81	81	82	82	82
Installation	External dimensions (W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	990/750/1808+990/750/1808	990/750/1808+990/750/1808	990/750/1808+1390/750/1808	990/750/1808+1390/750/1808		990/750/1808+1390/750/1808	1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808	990/750/1808+990/750/1808+1390/750/1808	990/750/1808+990/750/1808+1390/750/1808	990/750/1808+1390/750/1808+1390/750/1808	990/750/1808+1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808+1390/750/1808		
	Shipping dimensions (W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1090/860/1990+1090/860/1990	1090/860/1990+1090/860/1990	1090/860/1990+1490/860/1990	1090/860/1990+1490/860/1990		1090/860/1990+1490/860/1990	1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990	1090/860/1990+1090/860/1990+1490/860/1990	1090/860/1990+1090/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990		
	Net/Shipping weight	kg	240/255	240/255	360/378	360/378	368/386	480/510	480/510	600/633	600/633		608/641	720/756	728/764	736/772	840/888	848/896	960/1011	968/1019	976/1027	1096/1150	1096/1150	1104/1158	
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	
	Compressor quantity		1 INV	1 INV	1 INV+1 FIX	1 INV+1 FIX	1 INV+1 FIX	1 INV+1 INV	1 INV+1 INV	(1 INV)+1 INV+1 FIX	(1 INV)+1 INV+1 FIX		(1 INV)+1 INV+1 FIX	(1 INV+1 FIX)+1 INV+1 FIX	(1 INV+1 FIX)+1 INV+1 FIX	(1 INV+1 FIX)+1 INV+1 FIX	1 INV+1 INV+1 FIX	1 INV+1 INV+1 FIX	1 INV+1 INV+1 FIX	1 INV+1 INV+1 FIX	1 INV+1 INV+1 FIX	(1 INV+1 FIX)+1 INV+1 FIX	(1 INV+1 FIX)+1 INV+1 FIX	(1 INV+1 FIX)+1 INV+1 FIX	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	10	10	10	10	20	20	20	20	20		20	20	20	20	30	30	30	30	30	30	30	30	
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58		31.8	31.8	31.8	31.8	31.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1	
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52		9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	
	Total pipe length	m	300	300	300	300	300	300	300	300	300		300	300	300	300	300	300	300	300	300	300	300	300	
	Max pipe length(Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150		175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	
	Max drop between L.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40		50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	
	Connection ratio	External static pressure	Pa	50	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50	50	50	50	50	50
Connectable indoor unit ratio		%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130		50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	
Maximum number of indoor units			13	16	19	23	26	29	33	36	39		43	46	50	53	56	59	63	64	64	64	64	64	
Working temp.	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43		-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	
	Heating	°C	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21		-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21	

• 1 outdoor above 50m outdoor below 40m.
• All the specifications are tested under nominal condition(In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB. In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB).

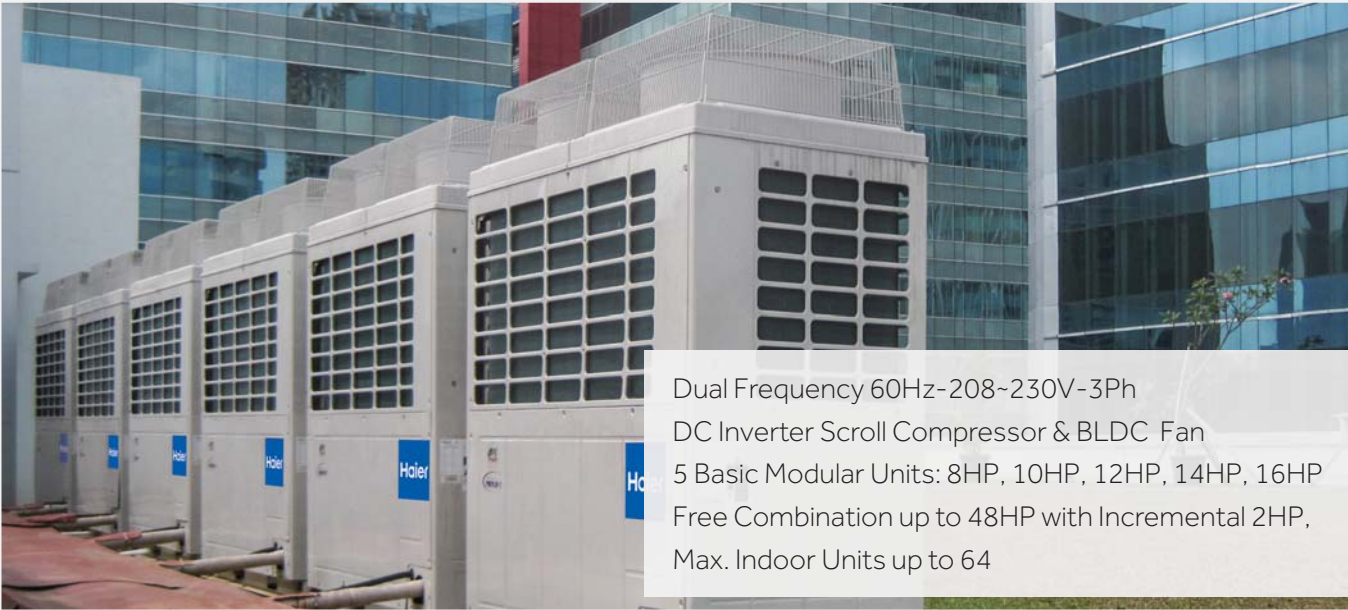
MRVIII-C(T1) 60Hz-208~230V-3Ph



8/10HP



12/14/16HP



Dual Frequency 60Hz-208~230V-3Ph
DC Inverter Scroll Compressor & BLDC Fan
5 Basic Modular Units: 8HP, 10HP, 12HP, 14HP, 16HP
Free Combination up to 48HP with Incremental 2HP,
Max. Indoor Units up to 64



Model			AV08CMVESA	AV10CMVESA	AV12CMVESA	AV14CMVESA	AV16CMVESA	AV18CMVESA	AV20CMVESA	AV22CMVESA	AV24CMVESA		AV26CMVESA	AV28CMVESA	AV30CMVESA	AV32CMVESA	AV34CMVESA	AV36CMVESA	AV38CMVESA	AV40CMVESA	AV42CMVESA	AV44CMVESA	AV46CMVESA	AV48CMVESA	
Combination model			/	/	/	/	/	AV08CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA		AV10CMVESA	AV14CMVESA	AV14CMVESA	AV16CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA	AV10CMVESA	AV12CMVESA	AV14CMVESA	AV16CMVESA	
			/	/	/	/	/	/	AV10CMVESA	AV10CMVESA	AV12CMVESA	AV14CMVESA		AV16CMVESA	AV14CMVESA	AV16CMVESA	AV10CMVESA	AV10CMVESA	AV14CMVESA	AV14CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA	
			/	/	/	/	/	/	/	/	/	/		/	/	/	/	AV14CMVESA	AV16CMVESA	AV14CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA	AV16CMVESA
Capacity	Capacity range	HP	8	10	12	14	16	18	20	22	24		26	28	30	32	34	36	38	40	42	44	46	48	
	Cooling	kW	22.6	28	33.5	40	45	50.6	56	61.5	68		73	80	85	90	96	101	108	113	118	123.5	130	135	
	Heating	kW	25	31.5	37.5	45	50	56.5	63	69	76.5		81.5	90	95	100	108	113	121.5	126.5	131.5	137.5	145	150	
Electrical parameters	Power supply	Ph/V/Hz	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60		3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	3/208-230/60	
	Cooling	Rated power input	kW	5.6	8.5	10	12	14	14.1	17	18.5	20.5		22.5	24	26	28	29	31	32.5	34.5	36.5	38	40	42
		Max power input	kW	12.5	14.5	16.5	18.5	20	27	29	31	33		34.5	37	38.5	40	47.5	49	51.5	53	54.5	56.5	58.5	60
		Rated current	A	15.15	23.35	27.55	32.75	38.95	46.7	50.9	56.1	56.1		62.3	65.5	71.7	77.9	79.5	85.7	88.9	95.1	101.3	105.5	110.7	116.9
		Max current	A	38.6	44.7	50.9	57.1	61.7	83.3	89.4	95.6	101.8		106.4	114.2	118.8	123.4	146.5	151.1	158.9	163.5	168.1	174.3	180.5	185.1
	Heating	Rated power input	kW	5.9	8.8	10.3	12.6	14.5	14.7	17.6	19.1	21.4		23.3	25.2	27.1	29	30.2	32.1	34	35.9	37.8	39.3	41.6	43.5
		Max power input	kW	12.5	14.5	16.5	18.5	20	27	29	31	33		34.5	37	38.5	40	47.5	49	51.5	53	54.5	56.5	58.5	60
		Rated current	A	16.05	24.25	28.45	34.65	39.85	40.3	48.5	52.7	58.9		64.1	69.3	74.5	79.7	83.2	88.4	93.6	98.8	104.0	108.2	114.4	119.6
		Max current	A	38.6	44.7	50.9	57.1	61.7	83.3	89.4	95.6	101.8		106.4	114.2	118.8	123.4	146.5	151.1	158.9	163.5	168.1	174.3	180.5	185.1
	EER		4.04	3.29	3.35	3.33	3.21	3.59	3.29	3.32	3.32		3.24	3.33	3.27	3.21	3.31	3.26	3.32	3.28	3.23	3.25	3.25	3.21	
	COP		4.24	3.58	3.64	3.57	3.45	3.84	3.58	3.61	3.57		3.50	3.57	3.51	3.45	3.58	3.52	3.57	3.52	3.48	3.50	3.49	3.45	
	Performance	Air flow (H)	m³/h	11100	11100	14100	14100	14100	22200	22200	25200	25200		25200	28200	28200	28200	36300	36300	39300	39300	39300	42300	42300	42300
Sound pressure level (H)		dB(A)	57	57	60	60	60	60	60	61	61		61	62	62	62	63	63	63	63	64	64	64	64	
Sound power level (H)		dB(A)	73	73	76	76	76	77	77	77	78	78		78	79	79	79	81	81	81	81	82	82	82	
Installation	External dimensions (W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	990/750/1808+990/750/1808	990/750/1808+990/750/1808	990/750/1808+1390/750/1808	990/750/1808+1390/750/1808		990/750/1808+1390/750/1808	1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808	990/750/1808+990/750/1808+1390/750/1808	990/750/1808+990/750/1808+1390/750/1808	990/750/1808+1390/750/1808+1390/750/1808	990/750/1808+1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808+1390/750/1808	1390/750/1808+1390/750/1808+1390/750/1808		
	Shipping dimensions (W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1090/860/1990+1090/860/1990	1090/860/1990+1090/860/1990	1090/860/1990+1490/860/1990	1090/860/1990+1490/860/1990		1090/860/1990+1490/860/1990	1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990	1090/860/1990+1090/860/1990+1490/860/1990	1090/860/1990+1090/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990	1490/860/1990+1490/860/1990+1490/860/1990		
	Net/Shipping weight	kg	240/255	240/255	368/386	368/386	368/386	480/510	480/510	608/641	608/641		608/641	736/772	736/772	736/772	848/896	848/896	976/1027	976/1027	976/1027	1104/1158	1104/1158	1104/1158	
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 INV	1 INV +1 INV	(1 INV) + (1 INV +1 FIX)	(1 INV) + (1 INV +1 FIX)		(1 INV) + (1 INV +1 FIX)	(1 INV +1 FIX) + (1 INV +1 FIX)	(1 INV +1 FIX) + (1 INV +1 FIX)	(1 INV +1 FIX) + (1 INV +1 FIX)	1 INV +1 INV + (1 INV +1 FIX)	1 INV +1 INV + (1 INV +1 FIX)	1 INV + (1 INV +1 FIX) + (1 INV +1 FIX)	1 INV + (1 INV +1 FIX) + (1 INV +1 FIX)	1 INV + (1 INV +1 FIX) + (1 INV +1 FIX)	(1 INV +1 FIX) + (1 INV +1 FIX) + (1 INV +1 FIX)	(1 INV +1 FIX) + (1 INV +1 FIX) + (1 INV +1 FIX)	(1 INV +1 FIX) + (1 INV +1 FIX) + (1 INV +1 FIX)	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20	20	20	20	20		20	20	20	20	30	30	30	30	30	30	30	30
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	22.22	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58	28.58		31.8	31.8	31.8	31.8	31.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52		9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Total pipe length	m	300	300	300	300	300	300	300	300	300	300		300	300	300	300	300	300	300	300	300	300	300	300
	Max. pipe length (Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150		175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U.	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40		50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
	Connection ratio	External static pressure	Pa	50	50	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50	50	50	50	50
		Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130		50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130
		Maximum number of indoor units		13	16	19	23	26	29	33	36	39		43	46	50	53	56	59	63	64	64	64	64	64
Working temp.	Cooling	°C	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43		-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	
	Heating	°C	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21		-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	

* 1 outdoor above 50m outdoor below 40m.
* All the specifications are tested under nominal condition (In cooling, Indoor temp is 27°C DB/19°C WB; Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB)

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



8/10HP

12/14/16HP



Model			AV08GMVESA	AV10GMVESA	AV12GMVESA	AV14GMVESA	AV16GMVESA	AV18GMVESA	AV20GMVESA	AV22GMVESA	AV24GMVESA		AV26GMVESA	AV28GMVESA	AV30GMVESA	AV32GMVESA	AV34GMVESA	AV36GMVESA	AV38GMVESA	AV40GMVESA	AV42GMVESA	AV44GMVESA	AV46GMVESA	AV48GMVESA	
Combination model			/	/	/	/	/	AV08GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA		AV10GMVESA	AV14GMVESA	AV14GMVESA	AV16GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA	AV10GMVESA	AV12GMVESA	AV14GMVESA	AV16GMVESA	
			/	/	/	/	/	/	AV10GMVESA	AV10GMVESA	AV12GMVESA	AV14GMVESA		AV16GMVESA	AV14GMVESA	AV16GMVESA	AV16GMVESA	AV10GMVESA	AV10GMVESA	AV14GMVESA	AV14GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA	
			/	/	/	/	/	/	/	/	/	/		/	/	/	/	AV14GMVESA	AV16GMVESA	AV14GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA	AV16GMVESA
Capacity	Capacity range	HP	8	10	12	14	16	18.0	20.0	22.0	24.0		26.0	28.0	30	32	34	36	38.0	40	42.0	44.0	46.0	48.0	
	Cooling	kW	22.4	28	33.5	40	45	50.4	56.0	61.5	68.0		73.0	80.0	85	90	96	101	108.0	113	118.0	123.5	130.0	135.0	
	Heating	kW	25	31.5	37.5	45	50	56.5	63.0	69.0	76.5		81.5	90.0	95	100	108	113	121.5	127	131.5	137.5	145.0	150.0	
Electrical parameters	Power supply	Ph/V/Hz	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60		3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	3/460/60	
	Cooling	Rated power input	kW	5.27	7.36	10.00	11.40	13.40	12.63	14.72	17.36	18.76		20.76	22.80	24.80	26.80	26.12	28.12	30.16	32.16	34.16	36.80	38.20	40.20
		Max power input	kW	13.00	15.00	17.00	19.00	20.50	28.00	30.00	32.00	34.00		35.50	38.00	39.50	41.00	49.00	50.50	53.00	54.50	56.00	58.00	60.00	61.50
		Rated current	A	6.96	9.72	13.21	15.06	17.70	16.69	19.45	22.94	24.79		27.43	30.12	32.77	35.41	34.51	37.15	39.85	42.49	45.13	48.62	50.47	53.11
		Max current	A	17.18	19.82	22.46	25.10	27.08	37.00	39.64	42.28	44.92		46.90	50.20	52.18	54.16	64.74	66.72	70.02	72.00	73.98	76.62	79.26	81.24
	Heating	Rated power input	kW	5.89	7.97	10.00	11.60	13.50	13.86	15.94	17.97	19.57		21.47	23.20	25.10	27.00	27.54	29.44	31.17	33.07	34.97	37.00	38.60	40.50
		Max power input	kW	10.27	12.40	15.10	17.10	18.30	22.67	24.80	27.50	29.50		30.70	34.20	35.40	36.60	41.90	43.10	46.60	47.80	49.00	51.70	53.70	54.90
		Rated current	A	7.78	10.53	13.21	15.33	17.84	18.31	21.06	23.74	25.86		28.37	30.65	33.16	35.67	36.39	38.90	41.18	43.69	46.20	48.88	51.00	53.51
		Max current	A	13.57	16.38	19.95	22.59	24.18	29.95	32.77	36.33	38.98		40.56	45.19	46.77	48.36	55.36	56.94	61.57	63.15	64.74	68.31	70.95	72.53
	EER		4.25	3.80	3.35	3.51	3.36	3.99	3.80	3.54	3.62		3.52	3.51	3.43	3.36	3.68	3.59	3.58	3.51	3.45	3.36	3.40	3.36	
COP		4.24	3.95	3.75	3.88	3.70	4.08	3.95	3.84	3.91		3.80	3.88	3.78	3.70	3.92	3.84	3.90	3.83	3.76	3.72	3.76	3.70		
Performance	Air flow (H)	m³/h	11000	11000	14100	14100	14100	22000	25100	25100		25100	28200.0	28200	28200	36100	36100	39200.0	39200	39200	42300	42300	42300	42300	
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60	60	61	61		61	62	62	62	63	63	63	63	63	64	64	64	
	Sound power level (H)	dB(A)	73	73	76	76	76	77	77	78	78		78	79	79	79	81	81	81	81	81	82	82	82	
Installation	External dimensions (W/D/H)	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	(990*1808*750)*2	(990/750/1808)*2	990/750/1808	990/750/1808		990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	1390/750/1808)*2	990/750/1808*2	(990/750/1808)*2	(990/750/1808)	(990/750/1808)	(990/750/1808)	(1390/750/1808)	(1390/750/1808)	1390/750/1808)*3
	Shipping dimensions (W/D/H)	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	(1090*1990*860)*2	(1090/860/1990)*2	1090/860/1990	1090/860/1990		1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1490/860/1990)*2	1090/860/1990*2	(1090/860/1990)*2	(1090/860/1990)	(1090/860/1990)	(1090/860/1990)	(1490/860/1990)	(1490/860/1990)	1490/860/1990)*3
	Net/Shipping weight	kg	240/255	240/255	368/386	368/386	368/386	240/255+240/255	(240/255)*2	240/255+368/386	240/255+368/386		240/255+368/386	368/386+368/386	368/386+368/386	368/386+368/386	(368/386)*2	240/255*2+368/386	240/255*2+368/386	240/255+368/386+368/386	240/255+368/386+368/386	240/255+368/386+368/386	240/255+368/386+368/386	240/255+368/386+368/386	(368/386)*3
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1INV	1INV	1INV+1FIX	1INV+1FIX	1INV+1FIX	1INV+1INV	1INV*2	1INV	1INV		1INV	(1INV+1FIX)	(1INV+1FIX)	(1INV+1FIX)*2	1INV*2	1INV*2	1INV	1INV	1INV	(1INV+1FIX)*2	(1INV+1FIX)*2	(1INV+1FIX)*2	(1INV+1FIX)*3
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20	20	20	20		20	20	20	20	30	30	30	30	30	30	30	30	30
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Refrigerant gas pipe	mm	22.22	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58		31.8	31.8	31.8	31.8	31.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
	Oil equalization pipe	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52		9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Total pipe length	m	300	300	300	300	300	300	300	300	300		300	300	300	300	300	300	300	300	300	300	300	300	300
	Max. pipe length (Equivalent/Actual)	m	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150		175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150	175/150
	Max drop between I.U.&O.U	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40		50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
Connection ratio	External static pressure	Pa	50	50	50	50	50	50	50	50		50	50	50	50	50	50	50	50	50	50	50	50	50	
	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130		50-130	50-130	50-130	50-130	50-130	50-130	50-130%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		13	16	19	23	26	26	26	26	26		26	26	26	26	26	26	26	26	26	26	26	26	
Working temp.	Cooling	°C	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43		-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	-5-43	
	Heating	°C	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21		-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	-15-21	

* 1 outdoor above 50m outdoor below 40m.
* All the specifications are tested under nominal condition (In cooling, Indoor temp is 27°C DB/19°C WB, Outdoor temp 35°C DB/24°C WB; In heating, Indoor temp is 20°C DB, Outdoor temp is 7°C DB/6°C WB).