

MRV *III*-RC



101 Features & Benefits

111 MRV III-RC (Heat Recovery)

MRVIII-RC 3/380~400/50(60)



Model			AV08IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA	AV18IMVUSA
Combination model			/	/	/	/	/	AV08IMVUSA
								AV10IMVUSA
								/
Capacity	Capacity range	HP	8	10	12	14	16	18
	Cooling	kW	22.4	28	33.5	40	45	50.4
	Heating	kW	25	31.5	37.5	45	50	56.5
Electrical parameters	Power supply	Ph/V/Hz	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60	3/380~400/50/60
	Cooling	Rated power input	kW	5.81	7.55	9.18	12.3	13.36
		Max power input	kW	12.37	14.7	17.54	20.48	27.07
		Rated current	A	9.49	12.33	15.00	20.10	21.83
		Max current	A	19.85	23.4	27.9	29.5	43.25
	Heating	Rated power input	kW	6.1	7.97	9.15	11.1	14.07
		Max power input	kW	9.77	11.9	14.6	16.6	21.67
		Rated current	A	9.97	13.02	14.95	18.13	22.99
		Max current	A	15.7	19	23.3	26.5	34.7
	EER			3.86	3.71	3.65	3.25	3.19
	COP			4.10	3.95	4.10	4.05	3.70
	SEER			5.39	5.32	5.33	5.19	5.05
	SCOP			4.05	3.99	3.92	3.81	3.72
Performance	Air flow (H)	m³/h	11100	11100	14100	14100	14100	22200
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60
	Sound power level (H)	dB(A)	73	73	76	76	76	77
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
	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
	Net/Shipping weight	kg	236/264	236/264	347/383	347/383	347/383	236/264+236/264
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	28.58	28.58
	High pressure gas pipe	m	19.05	19.05	22.22	22.22	25.4	25.4
	Oil equalization pipe	m	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	m	50/40	50/40	50/40	50/40	50/40	50/40
	External static pressure	m	50	50	50	50	50	50
Connection ratio	Connectable indoor unit ratio	Pa	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units	%	13	16	19	19	26	29
Working temp.	Cooling(DB)		-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18v

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

Model			AV20IMVUSA	AV22IMVUSA	AV24IMVUSA	AV26IMVUSA	AV28IMVUSA
Combination model			AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA	AV14IMVUSA
			AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA	AV14IMVUSA
			/	/	/	/	/
Capacity	Capacity range	HP	20	22	24	26	28
	Cooling	kW	56	61.5	68	73	80
	Heating	kW	63	69	76.5	81.5	90
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	15.1	16.73	19.85	21.65
		Max power input	kW	29.4	32.24	33.25	35.18
		Rated current	A	24.67	27.33	32.43	35.37
		Max current	A	46.8	51.3	52.9	55.77
	Heating	Rated power input	kW	15.94	17.12	19.07	21.47
		Max power input	kW	23.8	26.5	28.5	29.7
		Rated current	A	26.04	27.97	31.16	35.08
		Max current	A	38	42.3	45.5	47.4
	EER			3.71	3.68	3.43	3.37
	COP			3.95	4.03	4.01	3.80
	SEER			5.24	5.31	5.25	5.16
	SCOP			3.99	3.97	3.93	3.85
Performance	Air flow (H)	m³/h	22200	25200	25200	25200	28200
	Sound pressure level (H)	dB(A)	60	61	61	61	62
	Sound power level (H)	dB(A)	77	78	78	78	79
Installation	External dimensions(W/D/H)	mm	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
	Shipping dimensions(W/D/H)	mm	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
	Net/Shipping weight	kg	236/264+236/264	236/264+347/383	236/264+347/383	236/264+347/383	236/264+236/264
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV +1 INV	(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	19.05	19.05
	Refrigerant gas pipe	mm	28.58	28.58	28.58	31.8	31.8
	High pressure gas pipe	m	25.4	25.4	25.4	28.58	28.58
	Oil equalization pipe	m	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	m	50/40	50/40	50/40	50/40	50/40
	External static pressure	m	50	50	50	50	50
Connection ratio	Connectable indoor unit ratio	Pa	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units	%	33	36	39	43	50
Working temp.	Cooling(DB)		-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18

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

MRVIII-RC 3/380~400/50(60)



AV08IMVUSA
AV10IMVUSA

8/10HP



AV12IMVUSA
AV14IMVUSA
AV16IMVUSA

12/14/16HP

Model			AV30IMVUSA	AV32IMVUSA	AV34IMVUSA	AV36IMVUSA	AV38IMVUSA
Combination model			AV14IMVUSA	AV16IMVUSA	AV10IMVUSA	AV10IMVUSA	AV10IMVUSA
			AV16IMVUSA	AV16IMVUSA	AV10IMVUSA	AV10IMVUSA	AV14IMVUSA
			/	/	AV14IMVUSA	AV16IMVUSA	AV14IMVUSA
Capacity	Capacity range	HP	30	32	34	36	38
	Cooling	kW	85	90	96	101	106.5
	Heating	kW	95	100	108	113	119
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	26.4	28.2	27.4	29.2
		Max power input	kW	39.03	40.96	47.95	49.88
		Rated current	A	43.13	46.07	44.76	50.37
		Max current	A	61.87	64.74	76.3	83.67
	Heating	Rated power input	kW	24.6	27	27.04	29.44
		Max power input	kW	34.4	35.6	40.4	44.3
		Rated current	A	40.19	44.11	44.18	50.03
		Max current	A	54.9	56.8	64.5	70.7
	EER		3.22	3.19	3.50	3.46	3.45
	COP		3.86	3.70	3.99	3.84	3.89
	SEER		5.11	5.06	5.27	5.20	5.20
	SCOP		3.81	3.72	3.95	3.89	3.88
Performance	Air flow (H)	m³/h	28200	28200	36300	36300	39300
	Sound pressure level (H)	dB(A)	62	62	63	63	63
	Sound power level (H)	dB(A)	79	79	81	81	81
Installation	External dimensions(W/D/H)	mm	1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808
	Shipping dimensions(W/D/H)	mm	1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990	1090/860/1990+ 1090/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	347/383+347/383	347/383+347/383	236/264+236/264+347/383		236/264+347/383+347/383
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		(1 INV+1 FIX) +(1 INV+1 FIX)		1 INV+1 INV+(1 INV+1 FIX)		1 INV+(1 INV+1 FIX)+(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	19.05	19.05
	Refrigerant gas pipe	mm	28.58	28.58	28.58	31.8	31.8
	High pressure gas pipe	m	25.4	25.4	25.4	28.58	28.58
	Oil equalization pipe	m	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	m	50/40	50/40	50/40	50/40	50/40
	External static pressure	m	50	50	50	50	50
Connection ratio	Connectable indoor unit ratio	Pa	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units	%	33	36	39	43	50
Working temp.	Cooling(DB)		-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18

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

Model			AV40IMVUSA	AV42IMVUSA	AV44IMVUSA	AV46IMVUSA	AV48IMVUSA
Combination model			AV10IMVUSA	AV10IMVUSA	AV12IMVUSA	AV14IMVUSA	AV16IMVUSA
			AV14IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA
			AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA	AV16IMVUSA
Capacity	Capacity range	HP	40	42	44	46	48
	Cooling	kW	113	118	123.5	130	135
	Heating	kW	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
	Cooling	Rated power input	kW	33.95	35.75	37.38	40.5
		Max power input	kW	53.73	55.66	58.5	59.51
		Rated current	A	55.47	58.41	61.07	66.17
		Max current	A	85.27	88.14	92.64	94.24
	Heating	Rated power input	kW	32.57	34.97	36.15	38.1
		Max power input	kW	46.3	47.5	50.2	52.2
		Rated current	A	53.21	57.13	59.06	62.25
		Max current	A	73.9	75.8	80.1	83.3
	EER		3.33	3.30	3.30	3.21	3.19
	COP		3.88	3.76	3.80	3.81	3.70
	SEER		5.17	5.12	5.12	5.09	5.06
	SCOP		3.86	3.81	3.81	3.80	3.72
Performance	Air flow (H)	m³/h	39300	39300	42300	42300	42300
	Sound pressure level (H)	dB(A)	63	63	64	64	64
	Sound power level (H)	dB(A)	81	81	82	82	82
Installation	External dimensions(W/D/H)	mm	990/750/1808+ 1390/750/1808+ 1390/750/1808	990/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390/750/1808+ 1390/750/1808+ 1390/750/1808
	Shipping dimensions(W/D/H)	mm	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1090/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490/860/1990+ 1490/860/1990+ 1490/860/1990
	Net/Shipping weight	kg	236/264+347/383+347/383			347/383+347/383+347/383	
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV+(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
	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	38.1	38.1	38.1
	High pressure gas pipe	m	34.9	34.9	34.9	34.9	34.9
	Oil equalization pipe	m	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	m	50/40	50/40	50/40	50/40	50/40
	External static pressure	m	50	50	50	50	50
Connection ratio	Connectable indoor unit ratio	Pa	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units	%	64	64	64	64	64
Working temp.	Cooling(DB)		-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18

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

MRVIII-RC 3/208~230/60



AV08CMVUSA
AV10CMVUSA

8/10HP



AV12CMVUSA
AV14CMVUSA
AV16CMVUSA

12/14/16HP

Model			AV08CMVUSA	AV10CMVUSA	AV12CMVUSA	AV14CMVUSA	AV16CMVUSA	AV18CMVUSA
Combination model			/	/	/	/	/	AV08CMVUVA
			/	/	/	/	/	AV10CMVUVA
			/	/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	14	16	18
	Cooling	kW	22.4	28	33.5	40	45	50.4
	Heating	kW	25	31.5	37.5	45	50	56.5
Electrical parameters	Power supply	Ph/V/Hz	3/208~230/60	3/208~230/60	3/208~230/60	3/208~230/60	3/208~230/60	3/208~230/60
	Cooling	Rated power input	kW	5.81	7.55	9.18	12.3	13.36
		Max power input	kW	12.5	14.5	16.5	18.5	20
		Rated current	A	16.40	21.31	25.91	34.71	37.70
		Max current	A	38.6	44.7	50.9	57.1	61.7
	Heating	Rated power input	kW	6.1	7.97	9.15	11.1	13.5
		Max power input	kW	12.5	14.5	16.5	18.5	20
		Rated current	A	17.21	22.49	25.82	31.32	39.70
		Max current	A	38.6	44.7	50.9	57.1	61.7
	EER		3.86	3.71	3.65	3.25	3.19	3.77
	COP		4.10	3.95	4.10	4.05	3.70	4.02
Performance	Air flow (H)	m³/h	11100	11100	14100	14100	14100	22200
	Sound pressure level (H)	dB(A)	57	57	60	60	60	60
	Sound power level (H)	dB(A)	73	73	76	76	76	77
Installation	External dimensions	mm	990/750/1808	990/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	990/750/1808
	(W/D/H)							+
	Shipping dimensions	mm	1090/860/1990	1090/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1090/860/1990
	(W/D/H)							+
	Net/Shipping weight	kg	240/268	240/268	368/393	368/393	368/393	480/536
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV	1 INV	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 FIX	1 INV +1 INV
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	10	10	10	10	10	20
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	28.58	28.58
	High pressure gas pipe	mm	19.05	19.05	22.22	22.22	25.4	25.4
	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	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	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		13	16	19	23	26	29
Working temp.	Cooling(DB)	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18	-8~18

- Power Supply: 3/208~230/60
- DC Inverter Scroll Compressor & BLDC Fan
- 5 Basic Single Modular Units: 8HP, 10HP, 12HP, 14HP, 16HP
- Max. 3 Modules Combination up to 48HP, Max Connected Indoor Units up to 64 .

Model			AV20CMVUSA	AV22CMVUSA	AV24CMVUSA	AV26CMVUSA	AV28CMVUSA
Combination model			AV10CMVUVA	AV10CMVUVA	AV10CMVUVA	AV10CMVUVA	AV14CMVUVA
			AV10CMVUVA	AV12CMVUVA	AV14CMVUVA	AV16CMVUVA	AV14CMVUVA
			/	/	/	/	/
Capacity	Capacity range	HP	20	22	24	26	28
	Cooling	kW	56	61.5	68	73	80
	Heating	kW	63	69	76.5	81.5	90
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
	Cooling	Rated power input	kW	15.1	16.73	19.85	21.65
		Max power input	kW	29	31	33	34.5
		Rated current	A	42.61	47.21	56.02	61.09
		Max current	A	89.4	95.6	101.8	106.4
	Heating	Rated power input	kW	15.94	17.12	19.07	21.47
		Max power input	kW	29	31	33	34.5
		Rated current	A	44.98	48.31	53.81	60.59
		Max current	A	89.4	95.6	101.8	106.4
	EER		3.71	3.68	3.43	3.37	3.25
	COP		3.95	4.03	4.01	3.80	4.05
Performance	Air flow (H)	m³/h	22200	25200	25200	25200	28200
	Sound pressure level (H)	dB(A)	60	61	61	61	62
	Sound power level (H)	dB(A)	77	78	78	78	79
Installation	External dimensions	mm	990/750/1808	990/750/1808	990/750/1808	990/750/1808	1390/750/1808
	(W/D/H)						
	Shipping dimensions	mm	1090/860/1990	1090/860/1990	1090/860/1990	1090/860/1990	1490/860/1990
	(W/D/H)						
	Net/Shipping weight	kg	480/536	608/661	608/641	608/641	736/786
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		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)
	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	19.05	19.05
	Refrigerant gas pipe	mm	28.58	28.58	28.58	31.8	31.8
	High pressure gas pipe	mm	25.4	25.4	25.4	28.58	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	m	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		33	36	39	43	46
Working temp.	Cooling(DB)	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18

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

MRVIII-RC 3/208~230/60



Model			AV30CMVUSA	AV32CMVUSA	AV34CMVUSA	AV36CMVUSA	AV38CMVUSA
Combination model			AV14CMVUVA	AV16CMVUVA	AV10CMVUVA	AV10CMVUVA	AV10CMVUVA
			AV16CMVUVA	AV16CMVUVA	AV10CMVUVA	AV10CMVUVA	AV14CMVUVA
			/	/	AV14CMVUVA	AV16CMVUVA	AV14CMVUVA
Capacity	Capacity range	HP	30	32	34	36	38
	Cooling	kW	85	90	96	101	106.5
	Heating	kW	95	100	108	113	119
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
	Cooling	Rated power input	kW	26.4	28.2	27.4	30.83
		Max power input	kW	38.5	40	47.5	51
		Rated current	A	74.50	79.58	77.32	87.00
		Max current	A	118.8	123.4	146.5	157.3
	Heating	Rated power input	kW	24.6	27	27.04	30.62
		Max power input	kW	38.5	40	47.5	51
		Rated current	A	69.42	76.19	76.31	86.41
		Max current	A	118.8	123.4	146.5	157.3
	EER		3.22	3.19	3.50	3.46	3.45
	COP		3.86	3.70	3.99	3.84	3.89
Performance	Air flow (H)	m³/h	28200	28200	36300	36300	39300
	Sound pressure level (H)	dB(A)	62	62	63	63	63
	Sound power level (H)	dB(A)	79	79	81	81	81
Installation	External dimensions	mm	1390/750/1808	1390/750/1808	990/750/1808+	990/750/1808+	990/750/1808+
	(W/D/H)		+	+	990/750/1808+	990/750/1808+	1390/750/1808+
			1390/750/1808	1390/750/1808	1390/750/1808	1390/750/1808	1390/750/1808
	Shipping dimensions	mm	1490/860/1990	1490/860/1990	1090/860/1990+	1090/860/1990+	1090/860/1990+
	(W/D/H)		+	+	1090/860/1990+	1090/860/1990+	1490/860/1990+
			1490/860/1990	1490/860/1990	1490/860/1990	1490/860/1990	1490/860/1990
	Net/Shipping weight	kg	736/786	736/786	848/929	848/929	976/1054
	Compressor type		DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL	DC INV SCROLL
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		(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)
	Refrigerant type		R410A	R410A	R410A	R410A	R410A
	Refrigerant charge	kg	20	20	30	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	38.1	38.1
	High pressure gas pipe	mm	28.58	28.58	28.58	34.9	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	m	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		50	53	56	59	63
Working temp.	Cooling(DB)	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18

















- Power Supply: 3/208~230/60
- DC Inverter Scroll Compressor & BLDC Fan
- 5 Basic Single Modular Units: 8HP, 10HP, 12HP, 14HP, 16HP
- Max. 3 Modules Combination up to 48HP, Max Connected Indoor Units up to 64 .



































Model			AV40CMVUSA	AV42CMVUSA	AV44CMVUSA	AV46CMVUSA	AV48CMVUSA
Combination model			AV10CMVUVA	AV10CMVUVA	AV12CMVUVA	AV14CMVUVA	AV16CMVUVA
			AV14CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA
			AV16CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA	AV16CMVUVA
Capacity	Capacity range	HP	40	42	44	46	48
	Cooling	kW	113	118	123.5	130	135
	Heating	kW	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
	Cooling	Rated power input	kW	33.95	35.75	37.38	40.5
		Max power input	kW	53	54.5	56.5	60
		Rated current	A	95.80	100.88	105.48	114.29
		Max current	A	163.5	168.1	174.3	185.1
	Heating	Rated power input	kW	32.57	34.97	36.15	38.1
		Max power input	kW	53	54.5	56.5	60
		Rated current	A	91.91	98.68	102.01	107.52
		Max current	A	163.5	168.1	174.3	185.1
	EER		3.33	3.30	3.30	3.21	3.19
	COP		3.88	3.76	3.80	3.81	3.70
Performance	Air flow (H)	m³/h	39300	39300	42300	42300	42300
	Sound pressure level (H)	dB(A)	63	63	64	64	64
	Sound power level (H)	dB(A)	81	81	82	82	82
Installation	External dimensions	mm	990/750/1808+	990/750/1808+	1390/750/1808+	1390/750/1808+	1390/750/1808+
	(W/D/H)		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	mm	1090/860/1990+	1090/860/1990+	1490/860/1990+	1490/860/1990+	1490/860/1990+
	(W/D/H)		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	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
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
	Compressor quantity		1 INV +(1 INV+1 FIX) +(1 INV+1 FIX)	1 INV +(1 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
	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	38.1	38.1	38.1
	High pressure gas pipe	mm	34.9	34.9	34.9	34.9	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	m	50/40	50/40	50/40	50/40	50/40
	External static pressure	Pa	50	50	50	50	50
Connection ratio	Connectable indoor unit ratio	%	50~130	50~130	50~130	50~130	50~130
	Maximum number of indoor units		64	64	64	64	64
Working temp.	Cooling(DB)	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating(WB)	°C	-15~21	-15~21	-15~21	-15~21	-15~21
	Cooling & Heating(WB)	°C	-8~18	-8~18	-8~18	-8~18	-8~18

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































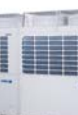
































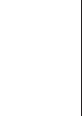






PRODUCT LINE-UP

(Outdoor Units)

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48					50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104
MRV 5	3/380~415/50 3/380~415/60																																																					
MRV 5-RC	3/380~415/50 3/380~415/60																																																					













Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36				38	40	42	44	46	48	50			52			54	56	58	60	62	64	66	68	70	72																				
MRV IV (T1)	3/380~400/50 3/380~400/60																																																												
	3/208~230/50 3/208~230/60																																																												
MRV IV (T3)	3/380~400/50 3/380~400/60																																																												

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32					34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
MRV III ^{PLUS} (T1)	3/380~400/50 3/380~400/60																																	




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

PRODUCT LINE-UP



(Outdoor Units)

Series	HP	3	4	5	6	7	8	10	12		14	16	18	20	22	24	26	28	30	32	34	36	
MRV S'	1/220~240/50 1/220~240/60																						
	3/380~400/50 3/380~400/60																						
MRV S'' (T1)	1/220~240/50 1/220~240/60																						
	3/380~415/50 3/380~415/60																						
	3/380~400/50 3/380~400/60																						
MRV S'' (T3)	1/220~240/50 1/220~240/60																						
	3/380~415/50 3/380~415/60																						
MRV W	3/380~400/50(60) 3/208~230/60																						

EASY MRV

MODEL	MS1-036A	MS1-060A	MS3-036A
Match with indoor	1 by 1	1 by 1	1 by 3
EASY MRV Connection Kit			
Capacity(Btu/h)	≤36K	36K<X≤60K	Every indoor capacity ≤36K
MRV series	MRV 5, MRV IV, MRV III PLUS, MRV III (2-Pipe), MRV S', MRV S' (5/7HP)		

DX AHU Connection Kit

MODEL	AH1-280A	AH1-560A
CAPACITY	14 ≤ x ≤28 kW	28 < x ≤56 kW
		
MRV series	MRV 5, MRV IV, MRV III PLUS, MRV III (2-Pipe), MRV S'' (8/10/12HP)	

PRODUCT LINE-UP

(Indoor Units)

Series	KBTU/h kW		5	7	9	12	16	18	24	28	30	38	42	48	54	72	96
			1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0
1-Way Cassette		AB**2MAERA															
2- Way Cassette		AB**2MBERA															
MINI 4- Way Cassette		AB**2MCERA(M)															
Round Flow 4-Way Cassette		AB**2MRERA															
4- Way Cassette		AB**2MCERA															
Convertible		AC**2MCERA AC**2MFERA															
Low ESP Slim Duct (0/15/30Pa)		AD**2MSERA(D) AD**2MSERA															
Medium ESP Duct (50/96Pa)		AD**2MMERA															
Medium ESP Duct (50/100Pa)		AD**2MJERA															

PRODUCT LINE-UP

(Indoor Units)

Series	KBTU/h kW			5	7	9	12	16	18	24	28	30	38	42	48	54	72	96
				1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0
Medium ESP Duct (80/120Pa)		AD**2MNERA																
High ESP Duct (100/196Pa)		AD**2MHERA																
High ESP Duct (0-200Pa)		AD**2MQERA																
Built-in Floor Standing		AE**2MLERA																
New Console		AF*2MAERA																
High Wall-N		AS**2MNERA																
		AS**2MFERA																
Fresh Air Duct		AD*2MPERA																
HRV (Heat ReclaimVentilation) (ERV0150/0260/ 0800/1000ANN)		150m ³ /h 260m ³ /h																
		500m ³ /h 800m ³ /h 1000m ³ /h																