



Model		MS9Vi-09HRDN1	MS9Vi-12HRDN1	MS9Vi-18HRDN1
Indoor		MS9V-09HRDN1	MS9V-12HRDN1	MS9Vi-18HRDN1
Outdoor		MORI-09HDN1	MORI-12HDN1	MOCI-18HDN1
Power supply		Ph-V-Hz	1Ph, 220-240V~, 50Hz	1Ph, 220-240V~, 50Hz
Cooling	Capacity	Btu/h	9000(2050~11200)	12000(4000~13800)
	Input	W	820(230~1070)	1090(350~1170)
	Rated current	A	3.6(1.0~4.7)	4.8(1.5~5.0)
	EER	W/W	3.21	3.21
Heating	Capacity	Btu/h	10000(3200~13200)	13000(4100~14500)
	Input	W	810(230~960)	1050(350~1100)
	Rated current	A	3.5(1.0~4.2)	4.6(1.5~4.8)
	COP	W/W	3.61	3.61
Moisture Removal		L/h	1.0	1.2
Max. input consumption		W	1650	1850
Max. current		A	7.5	8.5
Starting current		A	----	----
Compressor	Model		DA89X1C-20EZ	DA89X1C-20EZ
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	8888	8888
	Input	W	680	680
	Rated current(RLA)	A	4,6	4,6
	Locked rotor Amp(LRA)	A	----	----
	Thermal protector		1NT01L-4639 or KSD301	1NT01L-4639 or KSD301
	Thermal protector position		EXTERNAL	EXTERNAL
Capacitor	uF	45	45	
Refrigerant oil/oil charge	ml	ESTER OIL VG74/370	ESTER OIL VG74/370	
Indoor fan m	Model		RPG13H	RPG20D
	Brand		Welling	Welling
	Input	W	34	43.3
	Capacitor	uF	1.2	1.5
	Speed(Hi/Mi/Lo)	r/min	1200/1000/800	1200/1000/850
Indoor coil	a.Number of rows		2/1	2/1
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	c.Fin spacing	mm	1.2	1.2
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7, innergroove tube	Φ7, innergroove tube
	f.Coil length x height x width	mm	72x210x26.74+672x126x13.3	72x210x26.74+672x126x13.3
	g.Number of circuits		2	2
Indoor air flow (Hi/Mi/Lo)	m3/h	600/500/400	650/540/460	

Indoor noise level (Hi/Mi/Lo)		dB(A)	40/33/25	37/31/26	36/34/29
Indoor unit	Dimension(W*D*H)	mm	850x165x290	850x165x290	995x200x295
	Packing (W*D*H)	mm	920x240x365	920x240x365	1070x370x275
	Net/Gross weight	Kg	8.5/10.5	9/11	11.5 / 14
Outdoor fan	Model		YDK24-6P(B)	YDK24-6P(B)	YDK24-6G
	Brand		Welling	Welling	Welling
	Input	W	60/50	60/50	67/48
	Capacitor	uF	2	2,5	2.5
	Speed	r/min	860/660	860/660	800 / 550 / --
Outdoor coil	a.Number of rows		1	2	2
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	1.4	1.4	1.4
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7, innergroove tube	Φ7, innergroove tube	Φ7,innergroove tube
	f.Coil length x height x width	mm	716x504x13.37	720x504x26.74	655x546x26.74
	g.Number of circuits		2	2	3
Outdoor air flow	m3/h	1600	1600	2200	
Outdoor noise level	dB(A)	53	54	55	
Outdoor unit	Dimension(W*D*H)	mm	670x265x540	670x265x540	760x285x590
	Packing (W*D*H)	mm	770x325x570	770x325x570	887x355x645
	Net/Gross weight	Kg	27.5/29.5	29/31	39.5/41
Refrigerant type	g	R410A/660g	R410A/970g	R410A/1150g	
Design pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	
Refrigerant	Liquid side/ Gas side	mm(inch)	φ6.35/φ9.52(1/4"/3/8")	φ6.35/φ9.52(1/4"/3/8")	φ6.35/φ12.7(1/4"/1/2")
	Max. refrigerant pipe length	m	20	20	20
	Max. difference in level	m	8	8	8
Plug type		1.5x3/VDE	1.5x3/VDE	2.5	
Thermostat type		Remote control	Remote control	Remote Control	
Operation temp	℃	17-30	17-30	17-30	
Ambient temp (cooling/heating)	℃	0-50/-15-34	0-50/-15-34	0-50/-15-34	
Application area	m2	13-22	18-29	25-42	