

Model		MSR1i-07HRN1	MSR1i-09HRN1	MSR1i-12HRN1	
		MOK1i-07HN1	MOKi-09HN1	MOAi-12HN1	
Power supply		Ph, 220-240V~, 50Hz	Ph, 220-240V~, 50Hz	1Ph, 220-240V~, 50Hz	
Cooling	Capacity	Btu/h	7000	9000	12000
	Input	W	780	1010	1345
	Rated current	A	3.5	4.4	6,0
	EER	W/W	2.61	2.61	2,61
Heating	Capacity	Btu/h	7000	9000	13000
	Input	W	680	875	1265
	Rated current	A	3.0	3.7	5,6
	COP	W/W	3.01	3.01	3,01
Moisture Removal		L/h	0.8	1.0	1,2
Max. input consumption		W	1080	1555	1780
Max. current		A	5.0	6.7	9,2
Starting current		A	16	19.2	----
Compressor	Model		PA82G0C-4BZDE	PA108M1C-4DZDE2	PA118M1C-4DZ2
	Type		ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC
	Capacity	Btu/h	6790/6858	8769/8769	10740
	Input	W	685/730	860/905	1066
	Rated current(RLA)	A	3.15/3.20	4.00/4.00	4,7
	Locked rotor Amp(LRA)	A	14/16	19.2	----
	Thermal protector		B105-160A-241C	B160-135-241E	----
	Thermal protector position		EXTERNAL	EXTERNAL	INTERNAL
	Capacitor	uF	25	25	25
Refrigerant oil/oil charge	ml	ESTEL OIL VG74/250	ESTER OIL VG74/350	ESTER OIL VG74/350	
Indoor fan motor	Model		RPG13H	RPG13H	RPG20E
	Brand		Welling	Welling	Welling
	Input	W	34	34	45
	Capacitor	uF	1.2	1.2	1.5
	Speed(Hi/Mi/Lo)	r/min	1100 / 900 / 800	1250 / 1000 / 850	1210/1100/1000
Indoor coil	a.Number of rows		2	2	2
	b.Tube pitch(a)x row pitch(b)	mm	20x11.28	20x11.28	21x13.37
	c.Fin spacing	mm	1.3	1.3	1,3
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	φ6.35,innergroove tube	φ6.35,innergroove tube	7 INNEGROOVE TUBE
	f.Coil length x height x width	mm	540x240x22.56	540x240x22.56	637x273x26.74
	g.Number of circuits		2	2	2
Indoor air flow (Hi/Mi/Lo)		m3/h	400/330/290	460/400/290	540/480/310
Indoor noise level (Hi/Mi/Lo)		dB(A)	34/30/27	38/33/30	41/38/35
Indoor unit	Dimension(W*D*H)	mm	710x189x250	710x189x250	790x190x275
	Packing (W*D*H)	mm	790x285x330	790x285x330	865x265x350
	Net/Gross weight	Kg	7 / 9	6.5/8.5	9/11
Outdoor fan motor	Model		YDK25-4(B)	YDK25-4(B)	YDK24-6(B)
	Brand		Welling	Welling	Welling
	Input	W	61	61	77.3
	Capacitor	uF	2	2	2.5
Outdoor coil	Speed	r/min	965 / -- / --	965 / -- / --	865
	a.Number of rows		1	1	1
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	22x19.05
	c.Fin spacing	mm	1.3	1.3	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	φ7.94, innergroove tube
	f.Coil length x height x width	mm	502*399*13.37	676x399x13.37	593x484x19.05
g.Number of circuits		2	2	2	
Outdoor air flow		m3/h	1300	1300	1800
Outdoor noise level		dB(A)	53	54	54
Outdoor unit	Dimension(W*D*H)	mm	685x260x430	685x260x430	700x235x535
	Packing (W*D*H)	mm	795x345x495	795x345x495	815x325x580
	Net/Gross weight	Kg	21 / 23	23 / 25	24.5/26.5
Refrigerant type		g	R410A/420g	R410A/560g	R410A/700g
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	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			1.5 / VDE	1.5 / VDE	1.5x3/VDE
Thermostat type			Remote Control	Remote Control	Remote control
Operation temp		C	17-30	17-30	17-30
Ambient temp (cooling/heating)		C	18-43/-7-24	18-43/-7-24	18-43/-7-24

Model		MSR1i-18HRN1	MSR1i-24HRN1	MSR1i-28HRN1
		MOBi-18HN1	MOCi-24HN1	MOF2i-28HN1
Power supply		Ph-V-Hz	Ph, 220-240V~, 50Hz	Ph, 220-240V~, 50Hz
Cooling	Capacity	Btu/h	18000	24000
	Input	W	2020	2500
	Rated current	A	8,9	11,4
	EER	W/W	2,61	2,81
Heating	Capacity	Btu/h	18500	25000
	Input	W	1800	2280
	Rated current	A	7,9	10,5
	COP	W/W	3,01	3,21
Moisture Removal		L/h	1,8	2,6
Max. input consumption		W	3020	3400
Max. current		A	14,8	16,9
Starting current		A	27,44	36,8
Compressor	Model		PA160X2C-4FT	PA215X2CS-4KU1
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	16200	21528
	Input	W	1637	2160
	Rated current(RLA)	A	7,57	10,09
	Locked rotor Amp(LRA)	A	27,44	36,8
	Thermal protector		UP3RE0596-T56	---
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	35	50
Refrigerant oil/oil charge	ml	STER OIL VG74.480n	STER OIL VG74.750n	
Indoor fan motor	Model		RPG25	YDK36-4C(A)
	Brand		Welling	Welling
	Input	W	55	72/67/58
	Capacitor	uF	1.5	3
	Speed(Hi/Mi/Lo)	r/min	1220/1100/850	1120/1080/1000
Indoor coil	a.Number of rows		2	2
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	c.Fin spacing	mm	1.3	1.4
	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	(769+769+704)x(105+105+63)x26.74	(799+799+779)x(105+126+126)x26.72
	g.Number of circuits		3	4
Indoor air flow (Hi/Mi/Lo)		m3/h	750/650/550	1000/900/750
Indoor noise level (Hi/Mi/Lo)		dB(A)	45/42/39	46/43/40
Indoor unit	Dimension(W*D*H)	mm	940x198x275	1030x221x313
	Packing (W*D*H)	mm	1015x265x350	1135x435x315
	Net/Gross weight	Kg	10/13	13/20
Outdoor fan motor	Model		YDK24-6F	YDK48-6H(A)
	Brand		Welling	Welling
	Input	W	58	110
	Capacitor	uF	2.5	3
Outdoor coil	Speed	r/min	800	890
	a.Number of rows		2	2
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	c.Fin spacing	mm	1.5	1.4
	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	754x504x26.74	658x546x26.74
g.Number of circuits		4	4	
Outdoor air flow		m3/h	2000	2300
Outdoor noise level		dB(A)	55	57
Outdoor unit	Dimension(W*D*H)	mm	780x250x540	760x285x590
	Packing (W*D*H)	mm	910x335x575	887x355x645
	Net/Gross weight	Kg	33/35	40/42
Refrigerant type		g	R410A/1200g	R410A/1400g
Design pressure		MPa	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	φ6.35 / φ12.7(1/4"/1/2")	φ9.53/φ16.0(3/8"/5/8")
	Max. refrigerant pipe length	m	20	25
	Max. difference in level	m	8	10
Plug type			1.5x3/---	2.5x3/---
Thermostat type			Remote control	Remote control
Operation temp		C	17-30	17-30
Ambient temp (cooling/heating)		C	18-43/-7-24	18-43/-7-24