

Model			MSAFU-09HRDN8-QRD0GW	MSAFBU-12HRDN8-QRD0GW	MSAFU-18HRFN8-QRD0GW
Indoor			MSAFU-09HRDN8-QRD0GW	MSAFBU-12HRDN8-QRD0GW	MSAFU-18HRFN8-QRD0GW
Outdoor			MOAB30-09HFN8-QRD0GW	MOAB30-12HFN8-QRD0GW	MOB32-18HFN8-QRD0GW
Power supply		Ph-V-Hz	220V-240V,1Ph,50Hz	220V-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Rated Cooling	Capacity	Btu/h	9000(3100~11600)	12000(3800~14200)	18000(6200~20900)
Cooling Power input		W	710(100~1240)	1237(130~1580)	1539(140~2360)
Cooling Current		A	3.1(0.4~5.4)	5.4(0.5~6.9)	6.9(0.6~10.3)
Rated Heating	Capacity	Btu/h	10000(2800~11500)	13000(3700~14400)	19000(4700~23000)
Heating Power input		W	739(120~1200)	964(100~1580)	1480(200~2410)
Heating Current		A	3.2(0.5~5.2)	4.2(0.4~6.9)	6.4(0.9~10.5)
Seasonal Cooling	Pdesignc	kW	2.6	3.5	5.2
	SEER	W/W	6.2	6.1	7.1
	Energy Efficiency Class		A++	A++	A++
Heating(Average)	Pdesignh	kW	2.1	2.3	4.1
	SCOP	W/W	4.0	4	4.0
	Energy Efficiency Class		A+	A+	A+
	Tbiv	°C	-7	-7	-7
Heating(Warmer)	Pdesignh	kW	2.60	2.70	4.5
	SCOP	W/W	4.9	4.6	5.2
	Energy Efficiency Class		A++	A++	A+++
	Tbiv	°C	2	2	2
Heating(Colder)	Pdesignh	kW	/	/	/
	SCOP	W/W	/	/	/
	Energy Efficiency Class		/	/	/
	Tbiv	°C	/	/	/
Tol		°C	-15	-15	-15
Moisture Removal		L/h			
Max. input consumption		W	2150	2150	2950
Max. current		A	10	10	13.5
Starting current		A	----	----	----
Compressor	Model		KSK89D53UEZ	KSK89D53UEZ	KSN140D21UFZ
	Type		ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC
	Capacity	Btu/h	2780	2780	4385
	Input	W	712	712	1140
	Rated current(RLA)	A	4.9	4.9	7.50
	Locked rotor Amp(LRA)	A	----	----	----
	Thermal protector		----	----	----
	Thermal protector position		----	----	----
	Capacitor	uF	----	----	----
Refrigerant oil/oil charge	ml	ESTEL OIL VG74/280ml	ESTEL OIL VG74/280ml	VG74/ 440ml	
Indoor fan motor	Model		YKFG-13-4-38L	YKFG-13-4-38L	ZKFP-30-8-3
	Output	W	40	40	36
	Capacitor	uF	1.2	1.2	—
	Speed(Hi/Mi/Lo)	r/min	1030/850/750	1130/950/750	1130 / 900 / 800
Indoor coil	a.Number of rows		2.0	2.0	2.0
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	19.5x11.6	21x13.37
	c.Fin spacing	mm	1.2	1.2	1.2
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ5,innergroove tube	Φ5,innergroove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	595x273x23.2	595x273x23.2	750x294x26.74
	g.Number of circuits		4	4	3
Indoor air flow (Hi/Mi/Lo)		m3/h	520/460/360	600/500/360	840/680/540
Indoor sound pressure level (Hi/Mi/Lo/Si)		dB(A)	40/30/26/21	40/34/26/22	44/37/30/25
Indoor sound power level (Hi)		dB(A)	53	53	55
Indoor unit	Dimension(W*D*H)	mm	805x194x285	805x194x285	957x213x302
	Packing (W*D*H)	mm	870x270x360	870x270x360	1035x295x380
	Net/Gross weight	Kg	7.5/9.7	7.5/9.7	10/13
Outdoor fan motor	Model		ZKFN-34-8-1	ZKFN-34-8-1	ZKFN-40-8-1L-5
	Output	W	66	66	63
	Capacitor	uF	—	—	—
	Speed	r/min	850/650/450	850/650/450	800/650/550
Outdoor coil	a.Number of rows		1.0	1.0	2.0
	b.Tube pitch(a)x row pitch(b)	mm	21x22	21x22	21x22
	c.Fin spacing	mm	1.2	1.2	1.2
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	680x504x22	680x504x22	860x504x44
	g.Number of circuits		2	2	4
Outdoor air flow		m3/h	1700	1700	2500
Outdoor sound pressure level		dB(A)	55.5	56	56
Outdoor sound power level		dB(A)	61	65	61
Outdoor unit	Dimension(W*D*H)	mm	700x275x550	700x275x550	800x333x554
	Packing (W*D*H)	mm	815x325x615	815x325x615	920x390x615
	Net/Gross weight	Kg	22.7/25.2	22.7/25.2	34/36.7
Refrigerant	Type		R32	R32	R32
	GWP		675	675	675
	Charged quantity	Kg	0.5	0.5	1.00
Design pressure		MPa	4.3/1.7	4.3/1.7	4.3/1.7
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35(1/4")/Φ9.52/(3/8")	Φ6.35(1/4")/Φ9.52/(3/8")	Φ6.35(1/4")/Φ12.7(1/2")
	Max. refrigerant pipe length	m	25	25	30
	Max. difference in level	m	10	10	20
Connection wiring			5*1.5(Optional)	5*1.5(Optional)	5*1.5(Optional)
Plug type			--	--	--
Thermostat type			Remote Control	Remote Control	Remote Control
Operation temperature	Indoor(cooling/ heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	°C	-15~50/-25~30	-15~50/-25~30	-15~50/-25~30
Application area	minimum-maximum	m2	12-18	16-23	24-35
Qty'per 20' /40' /40'HQ			114/235/278	114/235/278	78/168/188