

Code			22022010013917	22022010013918	22022010014058	22022010014057
Indoor code			22022011015122	22022011015121	22022011015262	22022011015261
outdoor code			22022016015281	22022016015280	22022016015160	22022016015220
Model			MSAGAU-09HRFN8-QRD0GW	MSAGBU-12HRFNX-QRD0GW	MSAGCU-18HRFN8-QRD0GW	MSAGDU-24HRFN8-QRD0GW
Indoor			MSAGAU-09HRFNX-QRD0GW	MSAGBU-12HRFNX-QRD0GW	MSAGCU-18HRFN8-QRD0GW	MSAGDU-24HRFN8-QRD0GW
Outdoor			MOX102-09HFN8-QRD0GW	MOX102-12HFN8-QRD0GW	MOX301-18HFN8-QRD0GW	MOX401-24HFN8-QRD0GW
Power supply		Ph-V-Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz
Rated Cooling	Capacity	Btu/h	9000 (3500~11000)	12000 (4700~14700)	18000(11570~20130)	24000(7200-28000)
Cooling Power input		W	733 (80~1100)	1096 (120~1650)	1550(560~2050)	2402(420-3200)
Cooling Current		A	3.18 (0.35~4.78)	4.76 (0.5~7.2)	6.7(2.4~9)	10.5(1.8-13.9)
Rated Heating	Capacity	Btu/h	10000 (2800~11500)	13000 (3650~14950)	19000(10580~19960)	25000(5300-28000)
Heating Power input		W	771 (70~990)	1027 (110~1480)	1750(780~2000)	2130(300-3100)
Heating Current		A	3.35 (0.32~4.32)	4.46 (0.5~6.4)	7.6(3.4~8.7)	9.3(1.3-13.5)
Seasonal Cooling	Pdesignc	kW	2.8	3.6	5.3	7.0
	SEER	W/W	7.4	7.0	7.0	6.4
	Energy Efficiency Class		A++	A++	A++	A++
Heating(Average)	Pdesignh	kW	2.5	2.5	4.2	4.9
	SCOP	W/W	4.1	4.2	4.0	4.0
	Energy Efficiency Class		A+	A+	A+	A+
	Tbiv	°C	-7	-7	-7	-7
Heating(Warmer)	Pdesignh	kW	2.5	2.5	4.5	5.3
	SCOP	W/W	5.3	5.5	5.1	5.1
	Energy Efficiency Class		A+++	A+++	A+++	A+++
	Tbiv	°C	2	2	2.0	2
Heating(Colder)	Pdesignh	kW	3.8	3.8	6.7	10.8
	SCOP	W/W	3.1	3.4	3.1	2.8
	Energy Efficiency Class		B	B	B	C
	Tbiv	°C	-10	-10	-10	-10
Tol		°C	-15	-15	-15	-15
Moisture Removal		L/h	/	/	/	/
Max. input consumption		W	2150	2150	2500	3700
Max. current		A	10	10	13	19
Starting current		A	/	/	/	/
Compressor	Model		KSK103D33UEZ3(YJ)	KSK103D33UEZ3(YJ)	KSN140D21UFZ	KTM240D57UMT
	Type		Rotary	Rotary	ROTARY	Rotary
	Brand		GMCC	GMCC	GMCC	GMCC
	Capacity (30Hz/60Hz)	W	2035/3255	2035/3255	4385	7715
	Input (30Hz/60Hz)	W	325/826	325/826	1140	2085
	Rated current(RLA) (30Hz/60Hz)	A	2.4/5.65	2.4/5.65	7.5	9.45
	Locked rotor Amp(LRA)	A	/	/	----	/
	Thermal protector		/	/	----	/
	Thermal protector position		/	/	INTERNAL	/
	Capacitor	µF	/	/	----	/
Refrigerant oil/oil charge	ml	ESTER OIL VG74/310	ESTER OIL VG74/310	VG74 440	VG74/670	
Indoor fan motor	Model		ZKFP-20-8-6-7	ZKFP-13-8-4	ZKFP-30-8-3	ZKFP-58-8-1-5
	Old Model					
	Input	W	50	40.0	36.0	58
	Capacitor	uF			/	/

	Speed(Hi/Mi/Lo)	r/min	1050 // 700	1050 // 700	1150/1000/850	1150/1000/850
Indoor coil	a.Number of rows		2,0	2,0	2,0	2
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	1,3	1,2	1,2	1,3
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	525x84x13.37+525x105x26.74+525x105x26.74	605x210x26.74+605x105x26.74	750x210x26.74+750x126x26.74	820x210x26.74+820x126x26.74
	g.Number of circuits		2	2	4	4
Indoor air flow (Hi/Mi/Lo)	m3/h		520/460/330	530/400/350	800/600/500	1090/770/610
Indoor noise level (Hi/Mi/Lo)	dB(A)		37/32/22	37/32/22	41/37/31	46/37/34.5
Indoor sound power level	dB(A)		54,0	56,0	56	62
Indoor unit	Dimension(W*D*H)	mm	726x210x291	835x208x295	969*320*241	1083*336*244
	Packing (W*D*H)	mm	790x270x375	905x290x355	1045*405*315	1155*415*315
	Net/Gross weight	Kg	8/10.5	8.7/11.5	11.2/14.6	13.6/17.3
Outdoor fan motor	Model		ZKFN-20-8-1	ZKFN-20-8-1	ZKFN-34-10-1	ZKFN-80-8-3
	Input	W	/	/	/	/
	Capacitor	uF	0	0	/	/
	Speed	r/min	800/450	800/450	760/650	830/550
Outdoor coil	a.Number of rows		1	1	2.0	1,6
	b.Tube pitch(a)x row pitch(b)	mm	21x22	21x22	21X22	21X22
	c.Fin spacing	mm	1,3	1,3	1,3	1,3
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,innergroove tube	Φ7,innergroove tube
	f.Coil length x height x width	mm	740x462x22	740x462x22	860x504x26.74	900*44*609
	g.Number of circuits		2	2	4	5
Outdoor air flow	m3/h		1850	1850	2100	3500
Outdoor sound pressure level	dB(A)		55,5	55,0	57	60
Outdoor sound power level	dB(A)		62,0	62,0	65	67
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	874*330*554	955*342*673
	Packing (W*D*H)	mm	835x300x540	835x300x540	915*370*615	995*398*740
	Net/Gross weight	Kg	23.5/25.4	23.7/25.5	33.5/36.1	43.9/46.9
Refrigerant	Type		R32	R32	R32	R32
	GWP		675	675	675	675
	Charged quantity	Kg	0,6	0,65	1.1	1.45
Design pressure	MPa		4.3/1.7	4.3/1.7	4.6/1.7	4.6/1.7
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in)/9.52mm(3/8in)	6.35mm(1/4in)/9.52mm(3/8in)	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. refrigerant pipe length	m	25	25	30	50
	Max. difference in level	m	10	10	20	25
Connection wiring			1.5x5//	1.5x5//	1.5x5	2.5x5(Optional)
Plug type			//no-plug	1.5x3/no-plug	1.5x3/no-plug	2.5x3/no-plug
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control
Room temperature	Indoor(cooling/ heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	°C	-15~50/-15~24	-15~50/-15~24	-15~50/-15~24	-15~50/-15~24
Application area (Cooling Standard)	m2		12~18	16~23	24-35	32-47
Qty'per 20' /40' /40'HQ			138/282/312	125/256/284	86/174/204	64/134/156