

Code		22022010016737	22022010016878	
Indoor code		22022011017961	22022011018102	
outdoor code		22022016015240	22022016015140	
Model		MSAGAU-09HRDN8-QRD0GW	MSAGBU-12HRDN8-QRD0GW	
Indoor		MA3-09HRDN8-QRD0GW	MA3-12HRDN8-QRD0GW	
Outdoor		MA3-09HFN8-QRD0GW	MA3-12HFN8-QRD0GW	
Power supply	Ph-V-Hz	220-240V,1Ph,50Hz	220-240V,1Ph,50Hz	
Cooling (Standard conditions)	Capacity	Btu/h	9000(3100~11600)	12000(3800~14200)
	Input	W	799 (100~1240)	1238 (130~1580)
	Current	A	3.47 (0.4~5.4)	5.38 (0.5~6.9)
Heating (Standard conditions)	Capacity	Btu/h	10000(2800~11500)	13000(3700~14400)
	Input	W	813 (120~1200)	1018 (100~1680)
	Current	A	3.53 (0.5~5.2)	4.42 (0.4~6.9)
Seasonal Cooling	Pdesignc	kW	2.6	3.5
	SEER	W/W	6.2	6.1
	Energy Efficiency Class		A++	A++
Heating(Average )	Pdesignh	kW	2.3	2.6
	SCOP	W/W	4.0	4.0
	Energy Efficiency Class		A+	A+
	Tbiv	°C	-7	-7
Heating(Warmer )	Pdesignh	kW	2.1	2.4
	SCOP	W/W	5.1	5.1
	Energy Efficiency Class		A+++	A+++
	Tbiv	°C	2	2
Heating(Colder)	Pdesignh	kW	3.4	4.1
	SCOP	W/W	3.1	3.3
	Energy Efficiency Class		B	B
	Tbiv	°C	-10	-10
Tol	°C	-15	-15	
Moisture Removal	L/h	/	/	
Rated Power Input	W	2150	2150	
Rated Current	A	10	10.0	
Starting current	A	0	000	
Compressor	Model		KSK103D33UEZ3	KSK103D33UEZ3
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	W	2035/3255	2035/3255
	Input	W	325/826	325/826
	Rated current(RLA)	A	2.40/5.65	2.40/5.65
	Locked rotor Amp(LRA)	A	/	/
	Thermal protector		/	/
	Thermal protector position		NA	NA
	Capacitor	µF	/	/
Refrigerant oil/oil charge	ml	ESTER OIL VG74 310	ESTER OIL VG74 310	
Indoor fan motor	Model		YKFG-20-4-5-21	YKFG-20-4-5-21
	Old Model			
	Input	W	/	/
	Capacitor	uF	1.5	1.5
	Speed(Hi/Mi/Lo)	r/min	1050/950/700	1150/950/650
Indoor coil	a.Number of rows		2	2.0
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	19.5x11.6
	c.Fin spacing	mm	1.2/1.3	1.3
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ7,innergroove tube	Φ5,Inner groove tube
	f.Coil length x height x width	mm	25x84x13.37+525x105x26.74+525x105x26.74	607x195x23.2+607x117x23.2
	g.Number of circuits		2	3
Indoor air flow (Hi/Mi/Lo)	m3/h	451/325/255	575/493/454	
Indoor noise level (Hi/Mi/Lo)	dB(A)	37.0/29.0/25.5	37.5/29/25	
Indoor sound power level	dB(A)	52	54	
Dimension(W*D*H)	mm	726x210x291	835x208x295	

Indoor unit	Packing (W*D*H)	mm	790x270x375	905x355x290
	Net/Gross weight	kg	7.8/10.1	8.4/11.0
Outdoor fan motor	Model		ZKFN-34-10-1-3	ZKFN-34-10-1-3
	Input	W	/	/
	Capacitor	uF	0	0
	Speed	r/min	760/450	790/450
Outdoor coil	a.Number of rows		1	1
	b.Tube pitch(a)x row pitch(b)	mm	21x22	21x22
	c.Fin spacing	mm	1.3	1.3
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	740x462x22	740x462x22
	g.Number of circuits		2	2
Outdoor air flow		m3/h	1750	1800
Outdoor sound pressure level		dB(A)	55.5	55.5
Outdoor sound power level		dB(A)	60	64
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495
	Packing (W*D*H)	mm	835x300x540	835x300x540
	Net/Gross weight	kg	23.2/25.0	23.2/25.0
Refrigerant	Type		R32	R32
	GWP		675	675
	Charged quantity	kg	0.55	0.55
Design pressure		MPa	4.3/1.7	4.3/1.7
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in)/9.52mm(3/8in)	6.35mm(1/4in)/9.52mm(3/8in)
	Max. refrigerant pipe length	m	25	25
	Max. difference in level	m	10	10
Connection wiring			1.5x5//	1.5x5//
Plug type			//no-plug	//no-plug
Thermostat type			Remote Control	Remote Control
Room temperature	Indoor(cooling/ heating)	℃	16~32/0~30	16~32/0~30
	Outdoor(cooling/heating)	℃	-15~50/-15~24	-15~50/-15~24
Application area (Cooling Standard)		m2	12~18	16~23
Qty'per 20' /40' /40'HQ			138/282/312	125/256/284