

Indoor Unit Model			MSAGBU-12HRFN8-QRD0GW	MSAGBU-12HRFN8-QRD1GW(GA)
Outdoor Unit Model			MOX102-12HFN8-QRD0GW	MOX201-12HFN8-QRD1GW
Power supply		V- Ph- Hz	220~240-1-50	220~240-1-50
Rated Power Input		W	2150	2150
Rated Current		A	10	10
Compressor	Model		KSK103D33UEZ3	KSN98D22UFZ
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	W	2035/3255	3095
	Input	W	325/826	790
	Rated current(RLA)	A	2.4/5.65	5.3
	Locked rotor Amp(LRA)	A	/	/
	Thermal protector		/	/
	Thermal protector position		NA	NA
	Capacitor	uF	/	/
	Refrigerant oil/oil charge	ml	VG74 310	RB74A F/370
Indoor fan motor	Model		ZKFP-13-8-4	ZKFP-13-8-4
	Input	W	18.2	18.2
	Output	W	13	13
	Capacitor	uF	/	/
	Speed(Hi/Mi/Lo)	r/min	1050/700	1100/900/750
Indoor coil	Number of rows		2	2
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	Fin spacing	mm	1.3	1.3
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length x height x width	mm	605x210x26.74+ 605x105x26.74	605x210x26.74+ 605x105x26.74
	Number of circuits		2	2
Indoor air flow (Hi/Mi/Lo)		m3/h	530/400/350	520/370/310
Indoor sound pressure level (Hi/Mi/Lo)		dB(A)	37.0/32.0/22.0	38/33/22
Indoor sound power level		dB(A)	55	60
Indoor unit	Dimension(W*D*H)	mm	835x208x295	835x208x295
	Packing (W*D*H)	mm	905x355x290	905x355x290
	Net/Gross weight	kg	8.7/11.5	8.7/11.3
Outdoor fan motor	Model		ZKFN-20-8-1	ZKFN-34-10-1-3
	Input	W	55.5	99.6
	Output	W	20.0	34.0
	Capacitor	uF	/	/
	Speed	r/min	800/450	800/450

Outdoor coil	Number of rows		1	1
	Tube pitch(a)x row pitch(b)	mm	21x22	21x22
	Fin spacing	mm	1.3	1.3
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length x height x width	mm	740x462x22	745*504*22
	Number of circuits		2	2
Outdoor air flow		m3/h	1850	2200
Outdoor sound pressure level		dB(A)	56.0	55.0
Outdoor sound power level		dB(A)	62	64
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	765x303x555
	Packing (W*D*H)	mm	835x300x540	887x337x610
	Net/Gross weight	kg	23.5/25.4	26.4/28.8
Refrigerant	Type		R32	R32
	GWP		675	675
	Charged quantity	kg	0.65	0.62
Design pressure		MPa	4.3/1.7	4.3/1.7
Refrigerant piping	Liquid side/ Gas side	mm (inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ9.52(1/4"/3/8")
	Max. refrigerant pipe length	m	25	25
	Max. difference in level	m	10	10
Connection wiring			1.5x5Core	1.5x5Core
Plug type			no-plug	no-plug
Thermostat type			Remote Control	Remote Control
Operation temperature			16-30	16-30
Ambient temperature	Indoor(cooling/ heating)	°C	16-32/0-30	16-32/0-30
	Outdoor(cooling/heating)	°C	-15-50/-15-24	-15-50/-15-24
Qty'per 20' /40' /40'HQ			125/256/284	99/208/240

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB
 -Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB
 -Interconnecting Piping Length 5m
 - Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB
 -Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB
 - Interconnecting Piping Length 5 m
 - Level Difference of Zero.

2) Capacities are Net Capacities.

3) Due to our policy of innovation some specifications may be changed without notification.

Indoor Unit Model			MSAGBU-12HRFN8-QRD1GW(GA)	MSAGBU-12HRFN8-QRD1GW(GA)	MSAGBU-12HRDN8-QRD0GW
Outdoor Unit Model			MOX201-12HFN8-QRD6GW	MOX230-12HFN8-QRD6GW	MOX133-12HFN8-QRD0GW
Power supply	V- Ph-Hz		220~240-1-50	220~240-1-50	220~240-1-50
Rated Power Input	W		2300	2200	2150
Rated Current	A		10	10.5	10.0
Compressor	Model		KSN98D64UFZ3	KSN98D64UFZ3	KSK103D33UEZ3
	Type		ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC
	Capacity	W	1930/3100 ±3%	1930/3100 ±3%	2035/3255
	Input	W	292/765 ±3%	292/765 ±3%	325/826
	Rated current(RLA)	A	2.15/4.65 ±3%	2.15/4.65 ±3%	2.40/5.65
	Locked rotor Amp(LRA)	A	/	/	/
	Thermal protector		/	/	/
	Thermal protector position		NA	NA	NA
	Capacitor	uF	/	/	/
	Refrigerant oil/oil charge	ml	ESTER OIL VG74 300±10	ESTER OIL VG74 300±10	ESTER OIL VG74 310
Indoor fan motor	Model		ZKFP-13-8-4	ZKFP-13-8-4	YKFG-20-4-5-21
	Input	W	18.2	18.2	44.1
	Output	W	13	13	20
	Capacitor	uF	/	/	1.5
	Speed(Hi/Mi/Lo)	r/min	1100/900/750	1100/900/750	1150/950/650
Indoor coil	Number of rows		2	2	2.0
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	19.5x11.6
	Fin spacing	mm	1.3	1.3	1.3
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ5,Inner groove tube
	Coil length x height x width	mm	605x210x26.74+ 605x105x26.74	605x210x26.74+ 605x105x26.74	607x195x23.2+ 607x117x23.2
	Number of circuits		2	2	3
Indoor air flow (Hi/Mi/Lo)		m3/h	520/370/310	520/370/310	575/493/454
Indoor sound pressure level (Hi/Mi/Lo)		dB(A)	39.0/30.0/24.0	39/33/22	37.5/31.5/25
Indoor sound power level		dB(A)	54.0	55	54
Indoor unit	Dimension(W*D*H)	mm	835x208x295	835x208x295	835x208x295
	Packing (W*D*H)	mm	905x355x290	905x355x290	905x355x290
	Net/Gross weight	kg	8.7/11.3	8.7/11.3	8.4/11.0
Outdoor fan motor	Model		ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-34-10-1-3
	Input	W	99.6	99.6	99.6
	Output	W	34.0	34.0	34.0
	Capacitor	uF	/	/	/
	Speed	r/min	850/450	800/450	790/450

Outdoor coil	Number of rows		2.0	1	1
	Tube pitch(a)x row pitch(b)	mm	21x22	21x22	21x22
	Fin spacing	mm	1.2	1.3	1.3
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length x height x width	mm	745*504*22+ 710*504*22	745x504x22	740x462x22
	Number of circuits		4	2	2
Outdoor air flow		m ³ /h	2150	2200	1800
Outdoor sound pressure level		dB(A)	57.0	54.5	55.5
Outdoor sound power level		dB(A)	58.0	61	64
Outdoor unit	Dimension(W*D*H)	mm	765x303x555	765x303x555	720x270x495
	Packing (W*D*H)	mm	887x337x610	887x337x610	835x300x540
	Net/Gross weight	kg	29.6/32.0	26.4/28.7	23.2/25.0
Refrigerant	Type		R32	R32	R32
	GWP		675	675	675
	Charged quantity	kg	0.7	0.62	0.55
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/Φ9.52(1/4"/3/8")	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ9.52(1/4"/3/8")
	Max. refrigerant pipe length	m	25	25	25
	Max. difference in level	m	10	10	10
Connection wiring			1.5x5Core	1.5x5Core	1.5x5Core
Plug type			1.5x3/no-plug	1.5x3/no-plug	1.5x3/no-plug
Thermostat type			Remote Control	Remote Control	Remote Control
Operation temperature			16-30	16-30	16-30
Ambient temperature	Indoor(cooling/ heating)	°C	16-32/0-30	16-32/0-30	16-32/0-30
	Outdoor(cooling/heat-ing)	°C	-15-50/-15-24	-15-50/-15-24	-15-50/-15-24
Qty'per 20' /40' /40'HQ			99/208/240	99/208/240	125/256/284

Notes:

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Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB

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-Interconnecting Piping Length 5m

- Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB

-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB

- Interconnecting Piping Length 5 m

- Level Difference of Zero.

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