

code		22022010014097	#####	22022010015739	22022010015677	
Indoor code		22022011012298	YKFG-13-4-38L-4	22022011012358	22022011012359	
outdoor code		22022016015240	#####	22022016016840	22022016016820	
Model		MSAFBU-09HRDN8-QRD0GW[N]	MSAFBU-12HRDN8-QRD0FGW	MSAFBU-18HRFN8-QRD0GW	MSAFDU-24HRFN8-QRD0GW	
Indoor		MSAFBU-09HRDN8-QRD0GW	MSAFBU-12HRDNX-QRD0FGW	MSAFBU-18HRFNX-QRD0GW	MSAFDU-24HRFNX-QRD0GW	
Outdoor		MOX133-09HFN8-QRD0GW	MOX133-12HFN8-QRD0GW	MOX330-18HFN8-QRD0GW	MOX431-24HFN8-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 (3100~11600)	12000 (3800~14200)	18000 (1157~19900)	24000 (7100~27000)
Cooling Power input		W	732 (100~1240)	1213 (130~1580)	1550 (560~2050)	2600 (420~3150)
Cooling Current		A	3.18 (0.4~5.4)	5.27 (0.5~6.9)	6.7 (2.4~8.9)	11.5 (1.8~13.8)
Rated Heating	Capacity	Btu/h	10000 (2800~11500)	13000 (3700~14400)	19000 (10580~19960)	25000 (5500~27000)
Heating Power input		W	733 (120~1200)	1088 (100~1680)	1570 (780~2000)	2400 (300~2750)
Heating Current		A	3.18 (0.5~5.2)	4.73 (0.4~6.9)	6.8 (3.4~8.7)	11 (1.3~12.2)
Seasonal Cooling	Pdesignc	kW	2.8	3.6	5.2	7.0
	SEER	W/W	6.3	6.1	7.4	6.1
	Energy Efficiency Class		A++	A++	A++	A++
Heating(Average)	Pdesignh	kW	2.6	2.7	4.1	4.8
	SCOP	W/W	4.0	4.0	4.0	4.0
	Energy Efficiency Class		A+	A+	A+	A+
	Tbiv	°C	-7	-7	-7	-7
Tol		°C	-15	-15	-15	-15
Moisture Removal		L/h	/	/	/	/
Max. input consumption		W	2150	2150	2500	3500
Max. current		A	10	10	13	15.5
Starting current		A	/	/	0	0
Compressor	Model		KSK103D33UEZ3(YJ)	KSK103D33UEZ3(YJ)	KSN140D21UFZ	KTM240D43UKT
	Type		Rotary	Rotary	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC
	Capacity	Btu/h	2035/3255	2035/3255	4385	7600
	Input	W	325/826	325/826	1140	2045
	Rated current(RLA)	A	2.4/5.65	2.4/5.65	7.50	9
	Locked rotor Amp(LRA)	A	/	/	/	/

	Thermal protector		/	/	/	/
	Thermal protector position		/	/	/	/
	Capacitor	uF	/	/	/	/
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/310	ESTER OIL VG74/310	VG74/440	VG74/620
Indoor fan motor	Model		YKFG-13-4-38L-4	YKFG-13-4-38L-4	ZKFP-30-8-3	ZKFP-58-8-1-5
	Output	W	40	40.0	36.0	58.0
	Capacitor	uF	1.2	1.2	/	/
	Speed(Hi/Mi/Lo)	r/min	1030 / 900 / 750	1150/950/750	1130 / 900 / 800	1130 / 900 / 800
Indoor coil	a.Number of rows		2.0	2	2.0	2.0
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	19.5x11.6	21x13.37	21x13.37
	c.Fin spacing	mm	1.2	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	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	595x78x23.2+595x117x23.2+595x78x23.2	595x78x23.2+595x117x23.2+595x78x23.2	750x189x26.74+750x105x26.74	780x210x26.74+780x105x26.74
	g.Number of circuits		4	4	3	4
Indoor air flow (Hi/Mi/Lo)		m3/h	466/360/325	540/430/314	840/680/540	980/817/662
Indoor sound pressure level (Hi/Mi/Lo/Si)		dB(A)	38.5/32/25	40.5/34.5/25	42.5/36/26	45/40.5/36
Indoor sound power level (Hi)		dB(A)	54.0	55.0	56	59
Indoor unit	Dimension(W*D*H)	mm	805x194x285	805x194x285	957x213x302	1040x220x327
	Packing (W*D*H)	mm	870x270x365	870x270x365	1035x295x385	1120x405x315
	Net/Gross weight	Kg	7.6/9.7	7.6/9.8	10/13	12.3/15.8
Outdoor fan motor	Model		ZKFN-34-10-1	ZKFN-34-10-1	ZKFN-34-10-1-3	ZKFN-80-8-3
	Output	W	/	/	/	/
	Capacitor	uF	0	0	/	/
	Speed	r/min	760/450	790/450	740/650	830/700/550
Outdoor coil	a.Number of rows		1	1	2.0	1.6
	b.Tube pitch(a)x row pitch(b)	mm	21x22	21x22	21x22	21x13.37
	c.Fin spacing	mm	1.3	1.3	1.3	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	740x462x22	740x462x22	860*504*44	900*44*609
	g. Number of circuits		2	2	4	5
Outdoor air flow		m ³ /h	1750	1800	2100	3500
Outdoor sound pressure level		dB(A)	55.5	56.0	56	59
Outdoor sound power level		dB(A)	62.0	63.0	63	67
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	805x330x554	890x342x673
	Packing (W*D*H)	mm	835x300x540	835x300x540	915x370x615	995x398x740
	Net/Gross weight	Kg	23.2/25.0	23.2/25.0	32.7/35.4	42.9/45.9
Refrigerant	Type		R32	R32	R32	R32
	GWP		675	675	675	/
	Charged quantity	Kg	0.55	0.55	1.08	1.42
Design pressure		MPa	4.3/1.7	4.3/1.7	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)	6.35mm(1/4in)/12.7mm(1/2in)	9.52mm(3/8in)/15.9mm(5/8in)
	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//
Plug type			//no-plug	1.5x3/no-plug	//no-plug	//no-plug
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature	Indoor(cooling / heating)	℃	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	℃	-15~50/-15~30	-15~50/-15~30	-15~50/-15~30	-15~50/-15~30
Application area	minimum-maximum	m ²	12~18	16~23	24~35	32~47
Qty'per 20' /40' /40'HQ			132/274/305	132/274/305	84/180/208	66/137/156