

code			22022010011674	22022010011673	22022010011956	22022010011957
Indoor code			22022011012301	22022011012299	22022011012540	22022011012541
outdoor code			22022016012099	22022016012100	22022016012159	22022016012160
Model			MA-09N8D0-SP	MA-12N8D0-SP	MA-18N8D0-SP	MA-24N8D0-SP
Indoor			MA-09NXD0-I	MA-12NXD0-I	MA-18NXD0-I	MA-24NXD0-I
Outdoor			MA-09N8D0-O	MA-12N8D0-O	MA-18N8D0-O	MA-24N8D0-O
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(3700-14000)	17700(6524-20977)	24000(9045-28163)
Rated Cooling	Capacity	kW	2.6(1.02-3.22)	3.5(1.08-4.1)	5.2(1.91-6.14)	7.0(2.65-8.25)
Cooling Power input		W	767(100~1240)	1185(130~1580)	1630(649~2068)	2434(946~3507)
Cooling Current		A	3.3(0.4~5.4)	5.1(0.5~6.9)	7.1(0.8~10.3)	10.6(4.34~15.4)
EER		W/W	3,44	2,97	3,24	2,83
Rated Heating	Capacity	Btu/h	10000(2800-11500)	13000(3700-14400)	19000(3552-23600)	25000(9963-29121)
Rated Heating	Capacity	kW	2.93(0.82-3.37)	3.74(1.08-4.22)	5.57(1.04-6.91)	7.33(2.91-8.53)
Heating Power input		W	788(100~1200)	1080(120~1580)	1538(254~2320)	2426(1004~3072)
Heating Current		A	3.4(0.4~5.2)	4.8(0.5~6.9)	6.7(0.9~10.5)	10.5(4.57~13.5)
COP		W/W	3,72	3,47	3,62	3,02
Seasonal Cooling	Pdesignc	kW	2,6	3,5	5,2	7,0
	SEER	W/W	6,2	6,1	6,6	6,1
	Energy Efficiency Class		A++	A++	A++	A++
Heating(Average)	Pdesignh	kW	2,1	2,2	4,1	4,7
	SCOP	W/W	4,0	4,0	4,0	4,0
	Energy Efficiency Class		A+	A+	A+	A+
	Tbiv	°C	-7	-7	2	2
Heating(Warmer)	Pdesignh	kW	2,6	2,7	4,2	6,5
	SCOP	W/W	4,9	4,6	4,9	4,8
	Energy Efficiency Class		A++	A++	A++	A++
	Tbiv	°C	2	2	2	2
Tol		°C	-15	-15	-15	-15
Moisture Removal		L/h	/	/	/	/
Max. input consumption		W	2150	2150	2950	3850
Max. current		A	10	10	13.5	17.5
Starting current		A	----	----	----	----
	Model		KSK89D53UEZ	KSK89D53UEZ	KSN140D21UFZ	KTF235D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC
	Capacity	Btu/h	2780	2780	4385	7650
	Input	W	712	712	1140	2065

Compressor	Rated current(RLA)	A	4,9	4,9	7,5	9.4
	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	RB74A F/670
Indoor fan motor	Model		YKFG-13-4-38L	YKFG-13-4-38L	ZKFP-30-8-3	ZKFP-58-8-1
	Output	W	40.0	40.0	36.0	58.0
	Capacitor	uF	1.2	1.2	/	/
	Speed(Hi/Mi/Lo)	r/min	1030 / 900 / 750	1130 / 900 / 800	1150 / 1000 / 850	1150/1000/780
Indoor coil	a.Number of rows		2.0	2.0	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	95x78x23.2+595x117x23.2+595x78x23	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	520/460/340	600/500/360	860/690/560	1050/860/700	
Indoor sound pressure level (Hi/Mi/Lo/Si)	dB(A)	36/30/26/21	38/34/28/22	43/36/30/22	47/40/33/22	
Indoor sound power level (Hi)	dB(A)	54	54	58	61	
Indoor unit	Dimension(W*D*H)	mm	805x205x285	805x205x285	958x223x302	1038x235x325
	Packing (W*D*H)	mm	870x285x360	870x285x360	1035x305x380	1120x405x330
	Net/Gross weight	Kg	7.9/10.3	7.9/10.3	10.3/13.3	12.8/16.2
Outdoor fan motor	Model		ZKFN-34-8-1	ZKFN-34-8-1	ZKFN-40-8-1L-5	ZKFN-50-8-2
	Output	W	66	66	63	115.0
	Capacitor	uF	—	—	/	/
	Speed	r/min	850/650/450	850/650/450	800/650/550	850/700/550
Outdoor coil	a.Number of rows		1.0	1.0	2.0	2.0
	b.Tube pitch(a)x row pitch(b)	mm	21x22	21x22	21x22	25.4x22
	c.Fin spacing	mm	1.2	1.2	1.2	1.4
	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	Φ9.52,Inner groove tube
	f.Coil length x height x width	mm	680x504x22	680x504x22	860x504x44	730x660x44
	g.Number of circuits		2	2	4	4
Outdoor air flow	m3/h	1700	1700	2000	3000	
Outdoor sound pressure level	dB(A)	55.5	56	56.5	60	
Outdoor sound power level	dB(A)	63	65	65	69	
Outdoor unit	Dimension(W*D*H)	mm	700x270x550	700x270x550	800x333x554	845x363x702
	Packing (W*D*H)	mm	815x325x615	815x325x615	920x390x615	965x395x765

	Net/Gross weight	Kg	22.7/25.2	22.7/25.2	34/36.7	51.5/54.5
Refrigerant	Type		R32	R32	R32	R32
	GWP		675	675	675	675
	Charged quantity	Kg	0.5	0.5	1.00	1.6
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)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35(1/4")/Φ12.7(1/2")	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			5*1.5(Optional)	5*1.5(Optional)	5*1.5(Optional)	5*2.5(Optional)
Plug type			--	--	--	--
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/-25~30	-15~50/-25~30	-15~50/-25~30	-15~50/-25~30
Application area	minimum	m2	12-18	16-23	24-35	32-47
	maximum	m2	110/236/269	110/236/269	78/165/187	63/134/146
Qty'per 20' /40' /40'HQ						