

# Residential Air Conditioners

## ECO COOL INVERTER



			1 Ton	1.5 Ton	2 Ton	2.5 Ton
<b>Code</b>			22022010019501	22022010019500	22022010019497	22022010019498
<b>Indoor code</b>			22022011020242	22022011020241	22022011020222	22022011020223
<b>Outdoor code</b>			22022016019740	22022016019723	22022016019721	22022016019722
<b>Model</b>			MSTAG11B-12HRFN1-QC5	MSTAG11C-18HRFN1-QC5	MSTAG11D-24HRFN1-QC5W	MSTAGF-27HRFN1-QC5W
<b>Indoor</b>			MSTAG11B-12HRFN1-QC5	MSTAG11C-18HRFN1-QC5	MSTAG11D-24HRFN1-QC5W	MSTAGF-27HRFN1-QC5W
<b>Outdoor</b>			MOTX430-12HRFN1-QC5	MOTX430-18HRFN1-QC5	MOTX430-22HRFN1-QC5W	MOTD30-27HRFN1-QC5W
<b>Power supply</b>			220-240V 50Hz, 1Ph	220-240V 50Hz, 1Ph	220-240V 50Hz, 1Ph	220-240V 50Hz, 1Ph
Cooling(T1)	Capacity	Btu/h Ton	12600 (4700-13000 1 (0.5-1))	18000(6600-19500) 1.5(0.5-1.5)	24000(9200-28500) 2(0.7-2.5)	28500(11200-32000) 2.5(1-3)
	Input	W	970 (120-1100)	1500(150-1750)	2008(370-3300)	2385(900-3200)
	Rated current	A	4.30 (0.5-4.78)	6.59(0.7-7.6)	8.82(2.4-14.5)	10.77(4-14.5)
	EER	(Btu/h)/W (Ton/h)W	12.99 1	12 1	11.952 1	11.95 1
Cooling(T3)	Capacity	Btu/h Ton/h	9700 0.8	16000 1.3	19400 1.6	25400 2.1
	Input	W	1050	1800	2250	2880
	Rated current	A	4.66	7.91	10.00	12.91
	EER	(Btu/h)/W (Ton/h)W	9,238 1	8,889 1	8,622 1	8,819 1
Heating	Capacity	W	3900 (1070-3957)	5700(1290-5800)	7300(3033-8500)	8000(3370-8792)
	Input	W	1000 (110-1050)	1630(220-1680)	2147(560-2870)	2116(850-2400)
	Rated current	A	4.44 (0.5-4.56)	7.16(0.95-7.3)	9.43(3.6-12.7)	9.68(3.8-10.6)
	COP	W/W	3.90	3.50	3.40	3.78
<b>Max. input consumption</b>			W	2950	3950	4910
<b>Max. current</b>			A	9	13.5	22.5
<b>Starting current</b>			A	/	/	/
Compressor	Model		KSK103D33UEZ3	ASN140D35TFZ	ATF235D22TMT	ATF235D22TMT
	Type		Rotary	Rotary	Rotary	Rotary
	Brand		GMCC	GMCC	GMCC	GMCC
	Capacity	Btu/h Ton	11106 1	14245 1.5	24293 2	24293 2
	Input	W	826	1085	1950	1950
	Rated current(RLA)	A	5,65	7,60	8,85	8,85
	Locked rotor Amp(LRA)	A	/	/	/	/
	Thermal protector		/	/	/	/
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL	INTERNAL
	Capacitor	uF	/	/	/	/
Refrigerant oil/oil charge	ml	VG74/310	VG75/440	RB75EA /670	RB75EA /670	
Indoor fan motor	Model		ZKFP-13-8-4-17	ZKFP-30-8-3-10	ZKFP-58-8-20L	ZKFP-58-8-20L
	Input	W	42	36	86	86
	Output	W	13	30	58	58
	Capacitor	uF	/	/	/	/
	Speed(Hi/Mi/Lo)	r/min	1100/900/800	1100/940/860	1150/1002/854	1120/984/848
Indoor coil	a.Number of rows		2.0	2.0	2.0	2.0
	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	1.3	1.2
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube
	f.Coil length x height x width	mm	605x315x26.74	750x336x26.74	820x336x26.74	965x378x26.74
	g.Number of circuits		2	4	4	5
	Indoor air flow (Turbo/Hi/Mi/Lo)	m <sup>3</sup> /h	690/540/420/360	1020/730/610/540	1400/1130/800/640	1700/1450/1150/990
Indoor noise level (Turbo/Hi/Mi/Lo)	dB(A)	43.5/38.5/31/24.5	47.5/40.5/34.5/26.5	51/46.5/40/35.5	54/50/44.5/39	
Indoor unit	Dimension(W*D*H)	mm	802x200x295	971x228x321	1082x234x337	1259x283x362
	Packing (W*D*H)	mm	875x285x380	1045x305x405	1155x415x315	1340x385x450
	Net/Gross weight	Kg	8.7/11.1	11.4/14.6	13.5/17.1	17.8/23.2
Outdoor fan motor	Model		ZKFN-34-10-1-3	ZKFN-80-8-3	ZKFN-80-10-1L	ZKFN-120-8-2
	Input	W	58	88	105	150
	Output	W	34	80	80	120
	Capacitor	uF	/	/	/	/
	Speed	r/min	800/600	850/550	830/550	850/650
Outdoor coil	a.Number of rows		2.0	1.6	2.6	2.6
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	1.4	1.3	1.3	1.4
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,inner groove tube	Φ7,inner groove tube	Φ7,innergroove tube
	f.Coil length x height x width	mm	755x504x26.74	900x609x13.37+550x609x13.37	910x609x26.74+540x609x13.37	1005x756x26.74+598x756x13.37
	g.Number of circuits		4	5	6	6
	Outdoor noise level	dB(A)	54.5	58.5	60	59
Outdoor unit	Dimension(W*D*H)	mm	765x303x555	890x342x673	890x342x673	946x410x810
	Packing (W*D*H)	mm	887x337x610	995x398x740	995x398x740	1090x500x885
	Net/Gross weight	Kg	27.2/29.5	39/42.1	49.1/52.2	60.4/65.1
Refrigerant type	g	R410A/1000	R410A/1450	R410A/1950	R410A/2150	
Design pressure	MPa	4.8/1.5	4.8/1.5	4.8/1.5	4.8/1.5	
Refrigerant piping	Liquid side/ Gas side	mm (inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.52/Φ15.9(3/8"/5/8")	Φ6.52/Φ15.9(3/8"/5/8")
	Max. refrigerant pipe length	m	25	30	50	50
	Max. difference in level	m	10	20	25	25
Connection wiring		4x1.5	4x2.5	4x1.5	4x1.5	
Plug type		3x1.5 / BS plug	3x2.5 / no-plug	3x2.5 / no-plug	3x4.0 / no-plug	
Thermostat type		Remote Control	Remote Control	Remote Control	Remote Control	
Operation temperature	℃	16-30	16-30	16-30	16-30	
Room temperature	Indoor(cooling/ heating)	℃	16-32/0-30	16-32/0-30	16-32/0-30	16-32/0-30
	Outdoor(cooling/heating)	℃	0-52/-15-24	0-52/-15-24	0-52/-15-24	0-52/-15-24
Application area (Cooling Standard)	m <sup>2</sup>	16-24	24-35	32-47	36-53	
Qty/per 20' /40' /40'HQ		98/208/250	70/140/162	64/134/156	38/80/96	



# ECO COOL

Energy efficiency in harmony with comfort



Inverter



5 years  
warranty



Compressor  
GMCC/TOSHIBA



Anti-corrosion  
coating  
Golden Fin



Hidden  
LED Display



3D  
Air Flow



MiniMax