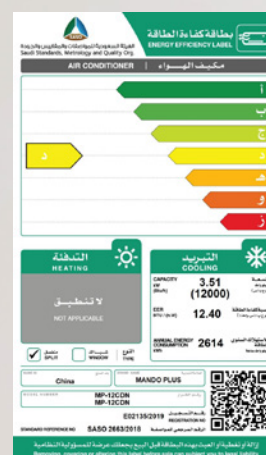
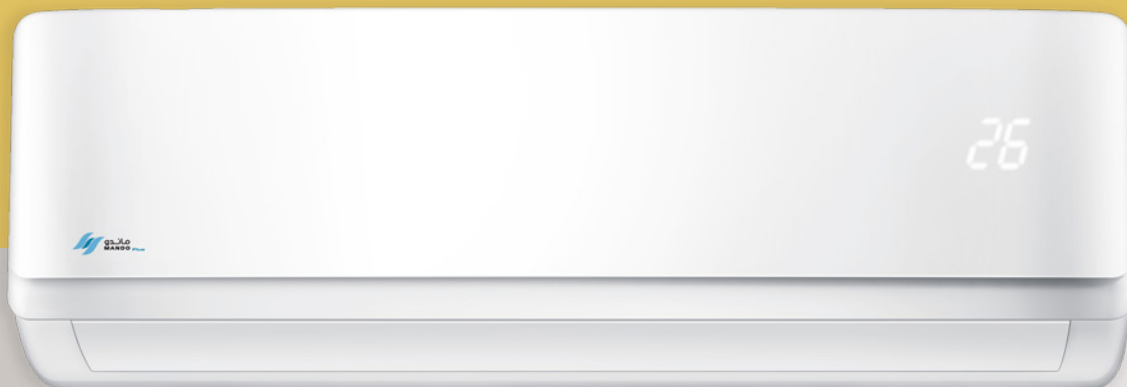




مكيفات ماندو
MANDO AIR CONDITIONERS

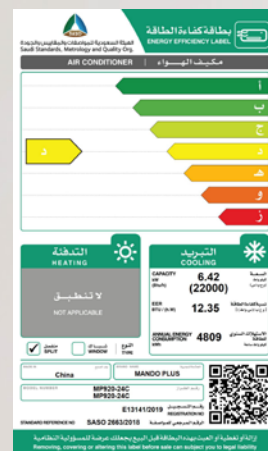
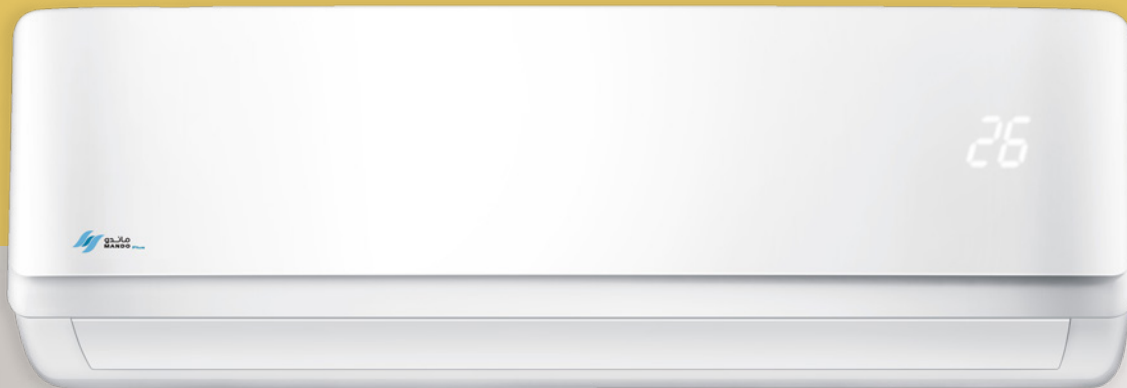


ماندو بلس - جداري موديل ١٢ MANDO PLUS - WALL MOUNTED TYPE 12 K



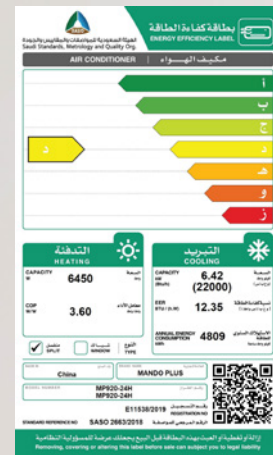
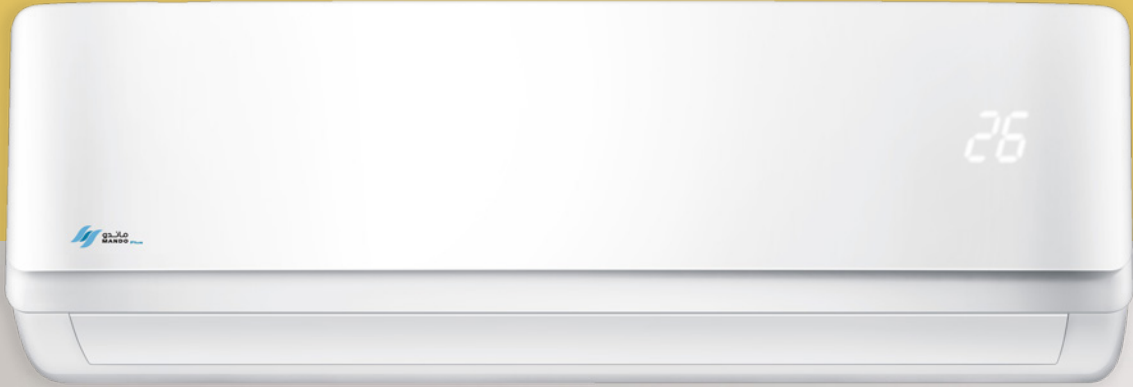
Model			12KC	12KH
Power supply		V-Hz-Ph	220-230V~ 60Hz, 1Ph	220-230V,1Ph,60Hz
Cooling (T1)	Capacity	Btu/h	12000	11800
	Input	W	968	952
	Rated current	A	4.33	4.17
	EER	(Btu/h)/W	12.40	12.40
Cooling (T3)	Capacity	Btu/h	10400	10200
	Input	W	1195	1172
	Rated current	A	5.28	5.09
	EER	(Btu/h)/W	8.70	8.70
Heating	Capacity	W	/	3300
	Input	W	/	943
	Rated current	A	/	4.09
	COP	W/W	/	3.5
Max. input consumption		W	1490	1490
Max. current		A	7.6	7.6
Starting current		A	27	27
Compressor	Model		ASM103N11UFZ	ASM103N11UFZ
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	10338/10492	3030/3075
	Input	W	970/975	970/975
	Rated current(RLA)	A	4.75/4.35	4.75/4.35
	Locked rotor Amp(LRA)	A	27	27
	Thermal protector		/	/
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	35	35.0
	Refrigerant oil/oil charge	ml	ESTEL OIL VG74/350	ESTEL OIL VG74/350
Indoor unit	Dimension(W*D*H)	mm	965x215x319	965x215x319
	Packing (W*D*H)	mm	1045x305x405	1045x305x410
	Net/Gross weight	Kg	11.5/15	11.5/14.9
Outdoor fan motor	Model		YKT-32-6-3L	YKT-32-6-3L-5
	Input	W	77.5	77.5
	Output	W	32	32
	Capacitor	uF	2.5	2.5
Outdoor coil	Speed	r/min	860	860
	a.Number of rows		2	3
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	21x13.37
	c.Fin spacing	mm	1.2	1.4
	d.Fin type (code)		Unhydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ 5,innergroove tube	Φ 7,inner groove tube
	f.Coil length x height x width	mm	760x507x23.2	755*504*13.37+735*504*13.37+715*504*13.37
Outdoor noise level	g.Number of circuits		4	3
		dB(A)	54	55.5
Outdoor unit	Dimension(W*D*H)	mm	770x300x555	770x300x555
	Packing (W*D*H)	mm	900x345x585	900x345x595
	Net/Gross weight	Kg	30.1/33	33.9/36.6
Refrigerant type		g	R410A/850	R410A/1100
Design pressure		MPa	4.8/1.5	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ 6.35/Φ 12.7(1/4"/1/2")	6.35mm(1/4in)/12.7mm(1/2in)
	Max. refrigerant pipe length	m	20	20
	Max. difference in level	m	8	8
Connection wiring			3x1.5(Optional)	1.5x3/0.75x2
Plug type			3x1.5/(no-plug)	1.5x3/no-plug

ماندو بلس - جداري موديل ١٨ MANDO PLUS - WALL MOUNTED TYPE 18 K



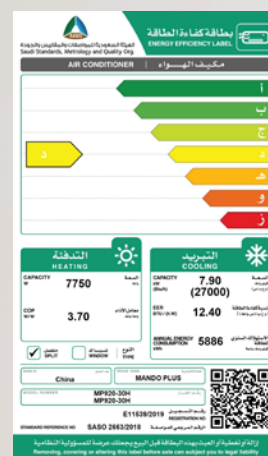
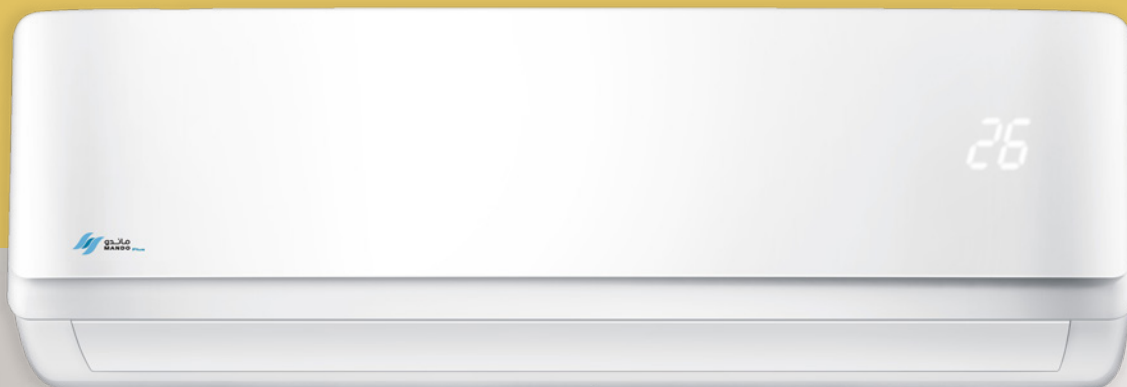
Model			18kc	18KH
Power supply		V-Hz-Ph	220-230V~60Hz, 1Ph	220-230V,1Ph,60Hz
Cooling (T1)	Capacity	Btu/h	18000	18000
	Input	W	1469	1452
	Rated current	A	6.50	6.3
	EER	(Btu/h)/W	12.25	12.40
Cooling (T3)	Capacity	Btu/h	15200	15900
	Input	W	1747	1797
	Rated current	A	7.75	7.80
	EER	(Btu/h)/W	8.70	8.85
Heating	Capacity	W	/	5100
	Input	W	/	1645
	Rated current	A	/	7.15
	COP	W/W	/	3.1
Max. input consumption		W	2120	2120
Max. current		A	10.7	10.7
Starting current		A	34	34
Compressor	Model		ASF155N1UKT	ASF155N1UKT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	15866	4650
	Input	W	1490	1490
	Rated current(RLA)	A	6.6	6.6
	Locked rotor Amp(LRA)	A	34	40
	Thermal protector		/	UP3-64H/HPA-736H
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	50	50.0
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/610	ESTER OIL VG74 -610
Indoor unit	Dimension(W*D*H)	mm	1080x226x335	1080x226x335
	Packing (W*D*H)	mm	1155x415x315	1155x415x320
	Net/Gross weight	Kg	14.9/18.7	15.1/18.8
Outdoor fan motor	Model		YKT-63-6-200L	YKT-63-6-204L
	Input	W	136	150
	Output	W	63	63
	Capacitor	uF	3	4.0
	Speed	r/min	930	800
Outdoor unit	Dimension(W*D*H)	mm	845x363x702	890x342x673
	Packing (W*D*H)	mm	965x395x765	995x435x750
	Net/Gross weight	Kg	47.1/51	49.2/52.5
Refrigerant type		g	R410A/1300	R410A/1960
Design pressure		MPa	4.8/1.5	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ15.9(1/4"/5/8")	6.35mm(1/4in)/15.9mm(5/8in)
	Max. refrigerant pipe length	m	25	25
	Max. difference in level	m	10	10
Connection wiring			3x2.5(Optional)	1.5x3+0.75x2
Plug type			3x2.5/ (no-plug)	2.5x3/no-plug
Thermostat type			Remote Control	Remote Control
Operation temperature		°C	17-30	17-30
Room	Indoor(cooling/ heating)	°C	17-32/----	17~32/0~30

ماندو بلس - جداري موديل ٢٤ MANDO PLUS - WALL MOUNTED TYPE 24 K



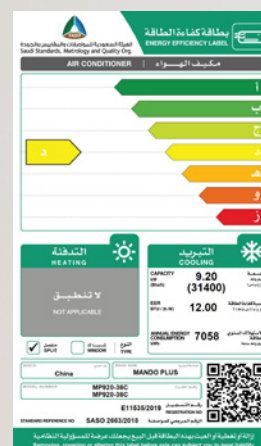
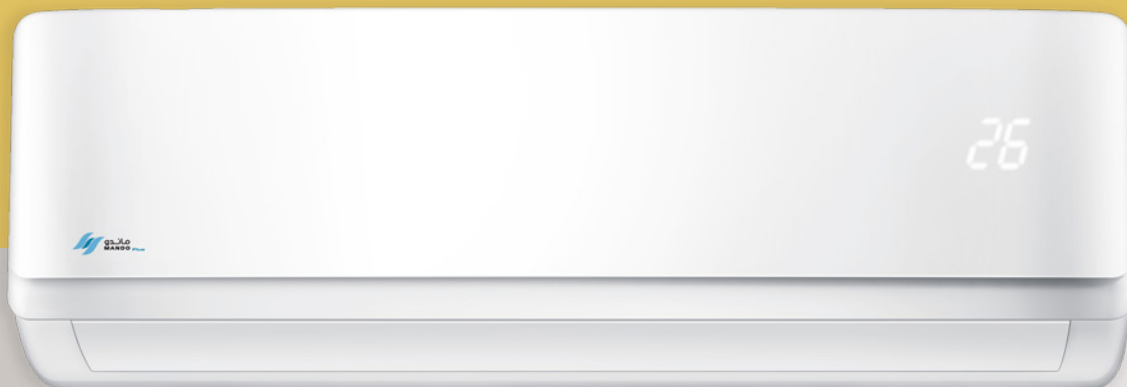
Model			24K C	24KH
Power supply		V-Hz-Ph	230V,1Ph,60Hz	230V,1Ph,60Hz
Cooling (T1)	Capacity	Btu/h	22000	22000
	Input	W	1781	1781
	Rated current	A	7.9	7.9
	EER	(Btu/h)/W	12.35	12.35
Cooling (T3)	Capacity	Btu/h	18200	18400
	Input	W	2128	2114
	Rated current	A	9.42	9.38
	EER	(Btu/h)/W	8.55	8.70
Heating	Capacity	W	/	6450
	Input	W	/	1792
	Rated current	A	/	7.95
	COP	W/W	/	3.6
Max. input consumption		W	2570	2500
Max. current		A	13	12.6
Starting current		A	50	50
Compressor	Model		ASG195N1SKT(MD)	ASG195N1SKT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	20386	20387
	Input	W	1880	1880
	Rated current(RLA)	A	8.25	8.25
	Locked rotor Amp(LRA)	A	50	50
	Thermal protector		/	/
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	40.0	40
	Refrigerant oil/oil charge	ml	ESTER OIL VG75/610	ESTER OIL VG75 /610
Indoor unit	Dimension(W*D*H)	mm	1080x226x335	1080x226x335
	Packing (W*D*H)	mm	1155x415x320	1155x415x320
	Net/Gross weight	Kg	14.1/17.8	13.9/17.6
Outdoor coil	a.Number of rows		2.6	2.6
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	c.Fin spacing	mm	1.4	1.4
	d.Fin type (code)		Unhydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	1010x756x26.74+598x756x13.37	1005x756x26.74+598x756x13.37
	g.Number of circuits		6	6
Outdoor noise level		dB(A)	56	58.5
Outdoor unit	Dimension(W*D*H)	mm	946x410x810	946x410x810
	Packing (W*D*H)	mm	1090x500x885	1090x500x885
	Net/Gross weight	Kg	60.9/65.5	62.5/67.3
Refrigerant type		g	R410A/2200	R410A/2200
Design pressure		MPa	6.0/1.5	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	9.52mm(3/8in)/15.9mm(5/8in)	9.52mm(3/8in)/15.9mm(5/8in)
	Max. refrigerant pipe length	m	25	25
	Max. difference in level	m	10	10
Connection wiring			2.5x4(Optional)	2.5x3/0.75x3
Plug type			2.5x3/no-plug	2.5x3/no-plug
Thermostat type			Remote Control	Remote Control

ماندو بلس - جداري موديل ٣٠ MANDO PLUS - WALL MOUNTED TYPE 30 K



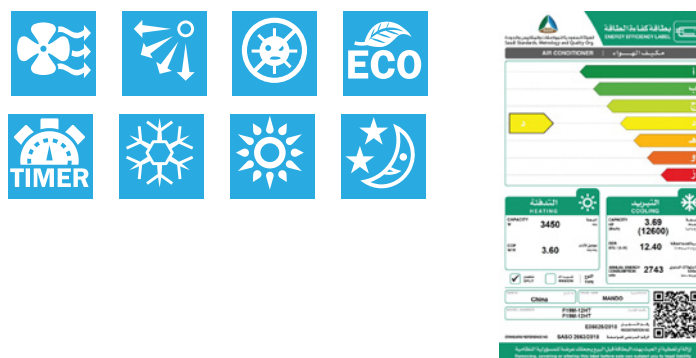
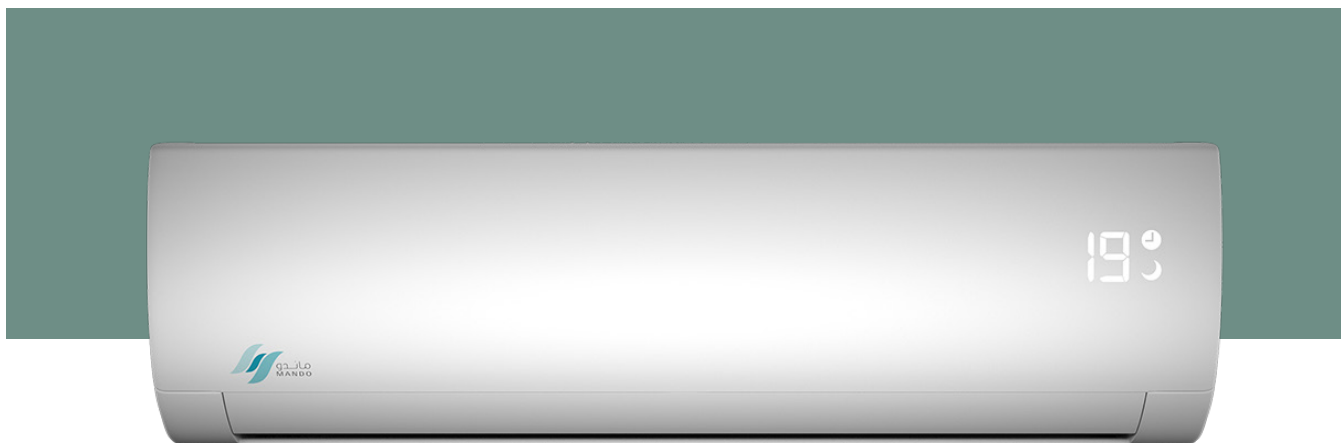
Model			30KC	30KH
Power supply		V-Hz-Ph	220-230V,60Hz, 1Ph	220-230V,1Ph,60Hz
Cooling (T1)	Capacity	Btu/h	27200	27000
	Input	W	2230	2180
	Rated current	A	9.70	9.67
	EER	(Btu/h)/W	12.20	12.40
Cooling (T3)	Capacity	Btu/h	22600	23800
	Input	W	2613	2645
	Rated current	A	11.45	11.73
	EER	(Btu/h)/W	8.65	9.00
Heating	Capacity	W	/	7750
	Input	W	/	2095
	Rated current	A	/	9.3
	COP	W/W	/	3.7
Max. input consumption		W	3320	3500
Max. current		A	17.1	18
Starting current		A	60	60
Compressor	Model		PA235G2CS-3KTM	ASG235N1SKT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	24362	24498
	Input	W	2343	2260
	Rated current(RLA)	A	10.4	9.9
	Locked rotor Amp(LRA)	A	60	58
	Thermal protector		/	/
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	55	60
	Refrigerant oil/oil charge	ml	RB75EA /750	ESTER OIL VG75/740
Indoor unit	Dimension(W*D*H)	mm	1259x282x362	1259x282x362
	Packing (W*D*H)	mm	1340x450x380	1340x450x385
	Net/Gross weight	Kg	22.8./28.5	20.3/26.1
Outdoor fan motor	Model		YKT-60-6-41	YKT-60-6-41
	Input	W	150	150.0
	Output	W	60	60
	Capacitor	uF	4	4
	Speed	r/min	910	910/830
Outdoor noise level		dB(A)	59	57.5
Outdoor unit	Dimension(W*D*H)	mm	946x410x810	946x410x810
	Packing (W*D*H)	mm	1090x500x875	1090x500x885
	Net/Gross weight	Kg	64.9/69.4	66.9/71.8
Refrigerant type		g	R410A/2550	R410A/2600
Design pressure		MPa	4.8/1.5	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ19(3/8"/3/4")	9.52mm(3/8in)/19mm(3/4in)
	Max. refrigerant pipe length	m	25	25
	Max. difference in level	m	10	10
Connection wiring			4x2.5(Optional)	2.5x3/0.75x3
Plug type			3x2.5/(no-plug)	2.5x3/no-plug
Thermostat type			Remote Control	Remote Control
Operation temperature		°C	17-30	17-30
Room temperature	Indoor(cooling/ heating)	°C	17-32/----	17~32/0~30
	Outdoor(cooling/heating)	°C	18-52/----	18~52/-7~24
Application area		m2	37-55	36~52
Qty'per 20' /40' /40'HQ			36/76/88	36/76/88

ماندو بلس - جداري موديل ٣٦ MANDO PLUS - WALL MOUNTED TYPE 36 K



Model			36KC	36KH
Power supply			230V,1Ph,60Hz	230V,1Ph,60Hz
Cooling (T1)	Capacity	Btu/h	31400	31400
	Input	W	2614	2614
	Rated current	A	11.6	11.6
	EER	(Btu/h)/W	12.0	12.0
Cooling (T3)	Capacity	Btu/h	26800	26800
	Input	W	3135	3135
	Rated current	A	13.85	13.85
	EER	(Btu/h)/W	8.55	8.55
Heating	Capacity	W	/	9000
	Input	W	/	2455
	Rated current	A	/	10.90
	COP	W/W	/	3.65
Max. input consumption		W	4100	4100
Max. current		A	20.5	20.5
Starting current		A	78	78
Compressor	Model		ATH280DG-C9EU1	ATH280DG-C9EU1
	Type		ROTARY	ROTARY
	Brand		HIGHLY	HIGHLY
	Capacity	Btu/h	28490	28490
	Input	W	2750	2750
	Rated current(RLA)	A	12	12
	Locked rotor Amp(LRA)	A	79	79
	Thermal protector		UP14PE5215	UP14PE5215
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	70.0	70.0
Indoor fan motor	Refrigerant oil/oil charge	ml	880±20	880±20
	Model		ZKFP-58-8-1-5	ZKFP-58-8-1-5
	Input	W		
	Output	W	58.0	58.0
	Capacitor	uF	/	/
Indoor coil	Speed(Turbo/Hi/Mi/Lo)	r/min	1350/1200/1100/1000	1350/1200/1100/1000
	a.Number of rows		3	3
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	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	1040x126x40.11+1040x126x40.11+1020x147x40.11	1040x126x40.11+1040x126x40.11+1020x147x40.11
	g.Number of circuits		7	7
Indoor air flow (Turbo/Hi/Mi/Lo)		m3/h	1620/1440/1280	1620/1440/1280
Indoor noise level (Turbo/Hi/Mi/Lo)		dB(A)	50.5/47.5/44.5	51/48/45
Indoor unit	Dimension(W*D*H)	mm	1350x272x365	1350x272x365
	Packing (W*D*H)	mm	1475x460x380	1475x460x380
	Net/Gross weight	Kg	21.3/27.3	21.3/27.4
Outdoor fan motor	Model		ZKFN-120-8-2	ZKFN-120-8-2
	Input	W	150.0	150.0
	Output	W	120	120
	Capacitor	uF	/	/
	Speed	r/min	940	940
Outdoor coil	a.Number of rows		3.0	3
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	c.Fin spacing	mm	1.4	1.4
	d.Fin type (code)		Unhydrophilic aluminium	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	1000x756x40.11	1000x756x13.37+980x756x13.37+965x756x13.37
	g.Number of circuits		6	6
Outdoor noise level		dB(A)	61	63
Outdoor unit	Dimension(W*D*H)	mm	946x410x810	946x410x810
	Packing (W*D*H)	mm	1090x500x885	1090x500x885
	Net/Gross weight	Kg	68.4/73	69.8/74.5
Refrigerant type		g	R410A/2.6	R410A/2700
Design pressure		MPa	4.8/1.5	///
Refrigerant piping	Liquid side/ Gas side	mm(inch)	9.52mm(3/8in)/19mm(3/4in)	9.52mm(3/8in)/19mm(3/4in)
	Max. refrigerant pipe length	m	25	25
	Max. difference in level	m	10	10
Connection wiring			1.0x4(Optional)	1.0x4(Optional)
Plug type			//no-plug	//no-plug
Thermostat type			Remote Control	Remote Control
Operation temperature		℃	17~30	17~30
Room temperature	Indoor(cooling/ heating)	℃	17~32	17~32/0~30
	Outdoor(cooling/heating)	℃	18~52	18~52/7~24
Application area		m2	42~61	42~61
Qty'per 20' /40' /40'HQ			36/73/90	36/73/90

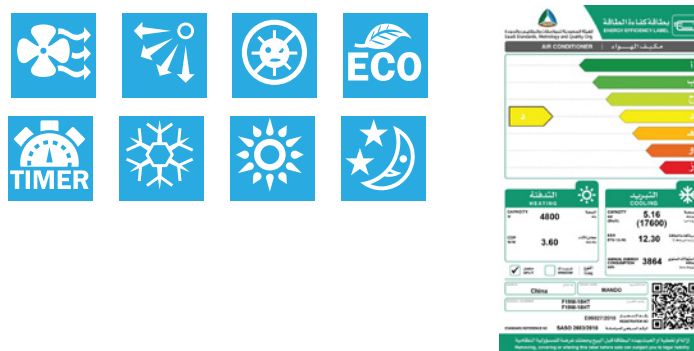
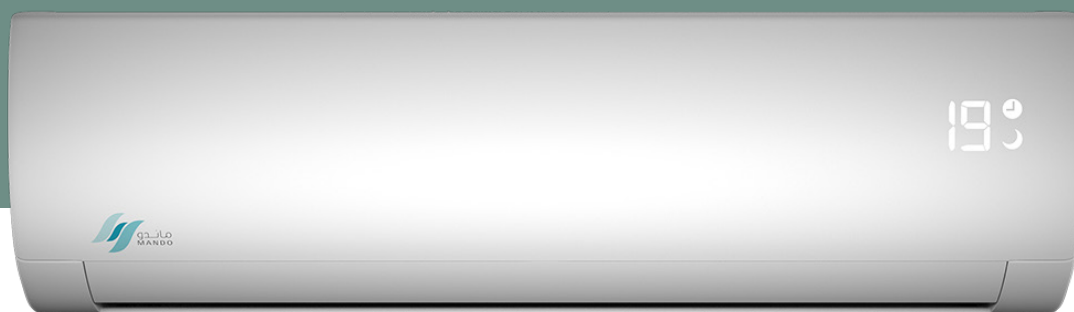
ماندو - جداري موديل ١٢ MANDO - WALL MOUNTED TYPE 12 K



Model No.			12K	12KH
Type			cooling only	Heating Pump
Control type			Remote Controller	Remote Controller
Rated cooling capacity(T1)	Btu/h		12600	12600
Rated cooling capacity(T1)	kW		3.69	3.69
Rated cooling capacity(T3)	Btu/h		11400	11200
Rated cooling capacity(T3)	kW		3.33	3.27
Rated heating capacity	W		N.A	3450
EER for cooling(T1)	Btu/h-W;		12.30	12.40
EER for cooling(T1)	W/W		3.60	3.63
EER for cooling(T3)	Btu/h-W;		8.70	8.70
EER for cooling(T3)	W/W		2.55	2.55
COP for heating	W/W		N.A	3.60
Moisture removal	Liters/h		1.0	1.0
Pressure	High(DP)	MPa	4.5	4.5
	Low(SP)	MPa	1.9	1.9
Climate type			T3	T3
Power supply			230V~1 Phase/ 60Hz	230V~1 Phase/ 60Hz
Voltage Range			198~264	198~264

Current	Cooling(T1)	A	4.5	4.5
	Cooling(T3)	A	5.8	5.7
	Heating	A	N.A	4.3
Power input	Cooling(T1)	W	1024	1016
	Cooling(T3)	W	1310	1287
	Heating	W	N.A	958
Rated Current	Cooling(T1)	A	9.5	9.5
	Cooling(T3)	A	9.5	9.5
	Heating	A	N.A	8.2
Rated Power input	Cooling(T1)	W	1850	1850
	Cooling(T3)	W	1850	1850
	Heating	W	N.A	1600
Annual energy consumption		kwh/year	2766	2744
Refrigerant		kg	R410A /1.070 kg	R410A /1.070 kg
Compressor	Model		44M2G25M&FJKE	44M2G25M&FJKE
	Type		Rotary	Rotary
	Brand		Highly	Highly
	Capacity	Btu/h	10355±5%	10355±5%
	Input	W	1035±5%	1035±5%
	Rated current(RLA)	A	4.6	4.6
	Locked rotor Amp(LRA)	A	27.7±10%	27.7±10%
	Thermal protector		/	/
	Thermal protector position		IOL	IOL
	Capacitor	uF	30	30
	Refrigerant oil/oil charge	ml	370±10	370±10
Connections				
Connecting Pipe	Gas	Inches	Φ12(1/2")	Φ12(1/2")
	Liquid	Inches	Φ6(1/4")	Φ6(1/4")
Connecting	Size x Core number		1.5x3	1.5x3; 0.75x2
Others				
Net dimensions (W x Dx H)	Indoor	mm	972x310x225	972x310x225
	Outdoor	mm	817x328x553	817x328x553
Net weight	Indoor	kg	11.5	11.5
	Outdoor	kg	28	31
Packing dimensions (W x D x H)	Indoor	mm	1036x371x295	1036x371x295
	Outdoor (without	mm	858x321x578	858x321x578
	Outdoor (with piping)	mm	858x356x578	858x356x578
Gross weight	Indoor	kg	14.5	14.5
	Outdoor (without	kg	32	35
	Outdoor (with piping)	kg	33	36

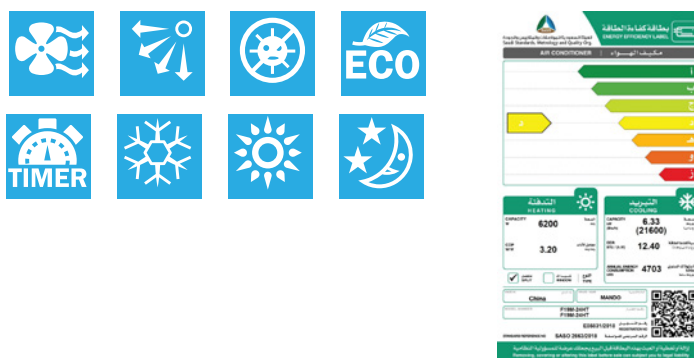
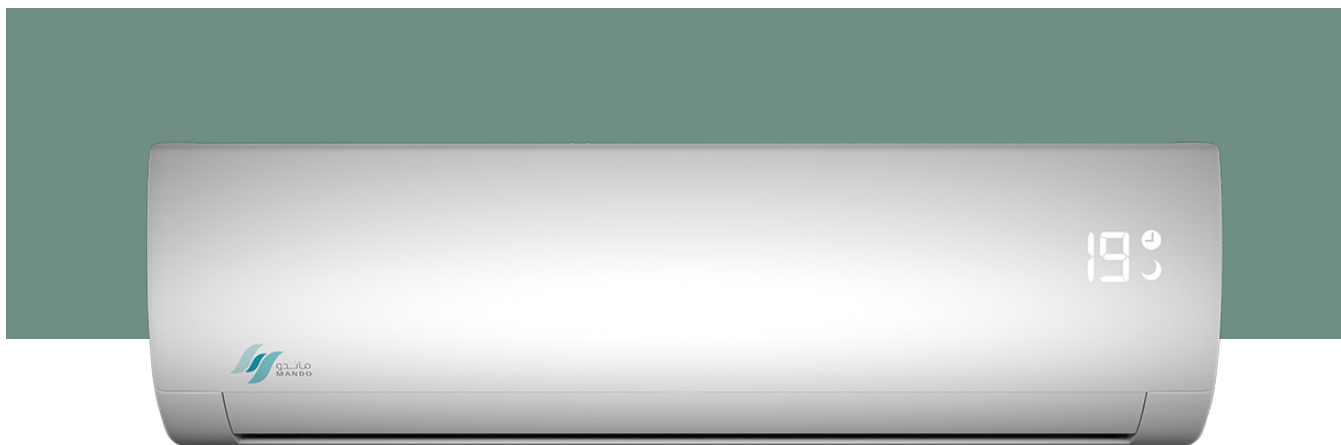
ماندو - جداري موديل ١٨ MANDO - WALL MOUNTED TYPE 18 K



Model No.			18K	18KH
Type			cooling only	Heating Pump
Control type			Remote Controller	Remote Controller
Rated cooling capacity(T1)		Btu/h	18400	18200
Rated cooling capacity(T1)		kW	5.16	5.16
Rated cooling capacity(T3)		Btu/h	16000	15600
Rated cooling capacity(T3)		kW	4.68	4.56
Rated heating capacity		W	N.A	4800
EER for cooling(T1)		Btu/h-W;	12.40	12.00
EER for cooling(T1)		W/W	3.63	3.60
EER for cooling(T3)		Btu/h-W;	8.70	8.70
EER for cooling(T3)		W/W	2.55	2.55
COP for heating		W/W	N.A	3.60
Moisture removal		Liters/h	1.8	1.8
Pressure	High(DP)	MPa	4.5	4.5
	Low(SP)	MPa	1.9	1.9
Indoor noise level at cooling	Super	dB(A)	50	50
	High	dB(A)	47	47
	Med.	dB(A)	41	41
	Low	dB(A)	36	36
	Quite	dB(A)	34	34
Climate type			T3	T3
Power supply			230V~1 Phase/ 60Hz	230V~1 Phase/ 60Hz
Voltage Range		V	198~264	198~264

Current	Cooling(T1)	A	6.3	6.3
	Cooling(T3)	A	8.2	8.0
	Heating	A	N.A	5.9
Power input	Cooling(T1)	W	1419	1431
	Cooling(T3)	W	1839	1793
	Heating	W	N.A	1333
Rated Current	Cooling(T1)	A	14.5	14.5
	Cooling(T3)	A	14.5	14.5
	Heating	A	N.A	10.0
Rated Power input	Cooling(T1)	W	2400	2400
	Cooling(T3)	W	2400	2400
	Heating	W	N.A	2000
Annual energy consumption		kwh/year	3832	3863
Refrigerant		kg	R410A /1.000 kg	R410A /1.400 kg
	Model		ASF150N1SKT	ASF150N1SKT
	Type		Rotary	Rotary
	Brand		Highly	Highly
Compressor	Capacity	Btu/h	15388±5%	15388±5%
	Input	W	1430±5%	1430±5%
	Rated current(RLA)	A	6.40±5%	6.40±5%
	Locked rotor Amp(LRA)	A	34±10%	34±10%
	Thermal protector		/	/
	Thermal protector position		IOL	IOL
	Capacitor	uF	50	50
	Refrigerant oil/oil charge	ml	570±10	570±10
Fan System				
Indoor air volume(Cooling/Heating)		m³/h	1150	1200/1200
Outdoor fan type			Propeller	Propeller
			3叶	3叶
Outdoor fan speed		rpm	890	890
Connections				
Connecting Pipe	Gas	Inches	Φ12(1/2")	Φ12(1/2")
	Liquid	Inches	Φ6(1/4")	Φ6(1/4")
Connecting	Size x Core number		1.5x3	1.5x3; 0.75x2
Others				
Net dimensions (W x Dx H)	Indoor	mm	1095x327x235	1095x327x235
	Outdoor	mm	920x380x699	920x380x699
Net weight	Indoor	kg	15	15
	Outdoor	kg	42	43
Packing dimensions (W x D x H)	Indoor	mm	1158x388x308	1158x388x308
	Outdoor (without piping)	mm	960×400×732	960×400×732
	Outdoor (with piping)	mm	960x430x732	960x430x732
Gross weight	Indoor	kg	19	19
	Outdoor (without piping)	kg	46	47
	Outdoor (with piping)	kg	47	48
Stuffing qty	40'HQ (without piping)	sets	158	158
	40'HQ (with piping)	sets	150	150

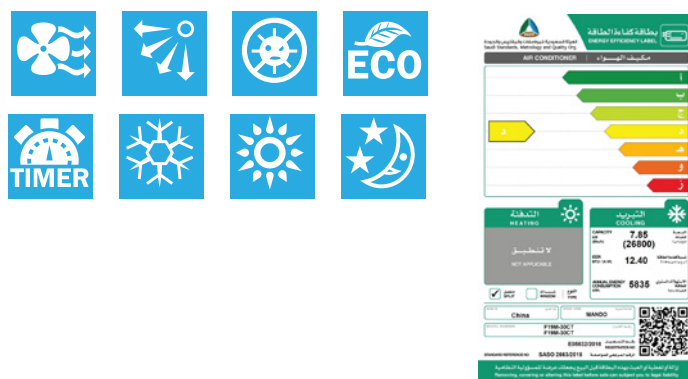
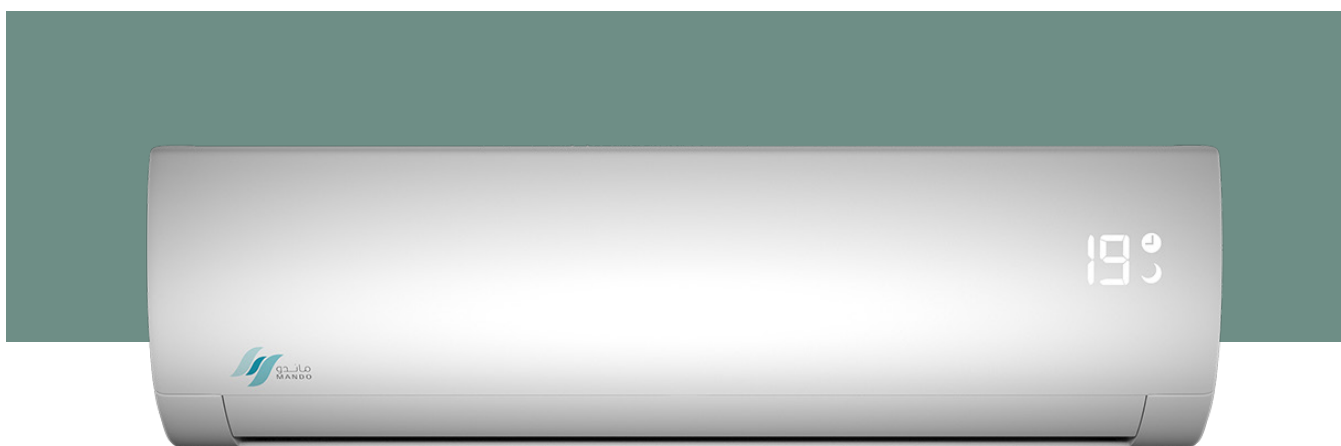
ماندو - جداري موديل ٢٤ MANDO - WALL MOUNTED TYPE 24 K



Model No.			24K	24K H
Type			cooling only	Heating Pump
Control type			Remote Controller	Remote Controller
Rated cooling capacity(T1)		Btu/h	21600	21600
Rated cooling capacity(T1)		kW	6.33	6.33
Rated cooling capacity(T3)		Btu/h	19200	19000
Rated cooling capacity(T3)		kW	5.64	5.58
Rated heating capacity		W	N.A	6200
EER for cooling(T1)		Btu/h-W;	12.40	12.40
EER for cooling(T1)		W/W	3.63	3.63
EER for cooling(T3)		Btu/h-W;	8.70	8.70
EER for cooling(T3)		W/W	2.55	2.55
COP for heating		W/W	N.A	3.20
Moisture removal		Liters/h	2.4	2.4
Pressure	High(DP)	MPa	4.5	4.5
	Low(SP)	MPa	1.9	1.9
Climate type			T3	T3
Power supply			230V~1 Phase/ 60Hz	230V~1 Phase/ 60Hz
Voltage Range		V	198~264	198~264
Current	Cooling(T1)	A	7.7	7.7
	Cooling(T3)	A	9.8	9.7
	Heating	A	N.A	8.6

Power input	Cooling(T1)	W	1742	1742
	Cooling(T3)	W	2207	2184
	Heating	W	N.A	1938
Rated Current	Cooling(T1)	A	16.5	16.5
	Cooling(T3)	A	16.5	16.5
	Heating	A	N.A	15.0
Rated Power input	Cooling(T1)	W	3000	3000
	Cooling(T3)	W	3000	3000
	Heating	W	N.A	2750
Annual energy consumption		kwh/year	4703	4703
Refrigerant		kg	R410A /1.900 kg	R410A/1.900 kg
Compressor	Model		ASH184DG-C8LUL	ASH184DG-C8LUL
	Type		Rotary	Rotary
	Brand		Highly	Highly
	Capacity	Btu/h	18527	18527
	Input	W	1780	1780
	Rated current(RLA)	A	7.8	7.8
	Locked rotor Amp(LRA)	A	47	47
	Thermal protector		/	/
	Thermal protector position		IOL	IOL
	Capacitor	uF	35	35
	Refrigerant oil/oil charge	ml	570±20	570±20
Outdoor fan type			Propeller	Propeller
			3叶	3叶
Outdoor fan speed		rpm	800	800
Connections				
Connecting Pipe	Gas	Inches	Φ15.88(5/8")	Φ15.88(5/8")
	Liquid	Inches	Φ6(1/4")	Φ6(1/4")
Connecting Wiring	Size x Core number		1.5x3	1.5x3; 0.75x2
Others				
Net dimensions (W x Dx H)	Indoor	mm	1095x327x235	1095x327x235
	Outdoor	mm	953x433x808	953x433x808
Net weight	Indoor	kg	15	15
	Outdoor	kg	54	55
Packing dimensions (W x D x H)	Indoor	mm	1158x388x308	1158x388x308
	Outdoor (without piping)	mm	1020x475x845	1020x475x845
	Outdoor (with piping)	mm	1020x475x845	1020x475x845
Gross weight	Indoor	kg	19	19
	Outdoor (without piping)	kg	60	61
	Outdoor (with piping)	kg	63	64
Stuffing qty	40'HQ (without piping)	sets	120	120
	40'HQ (with piping)	sets	120	120

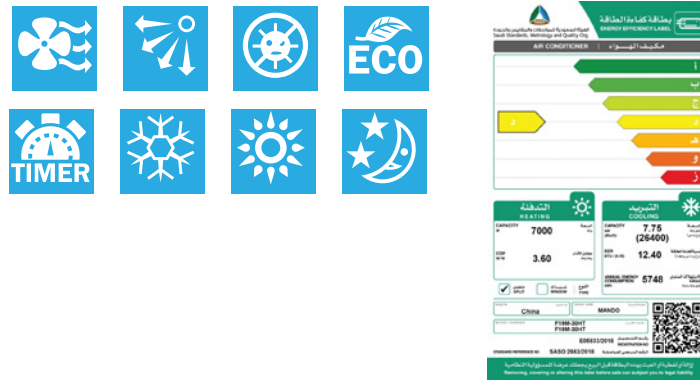
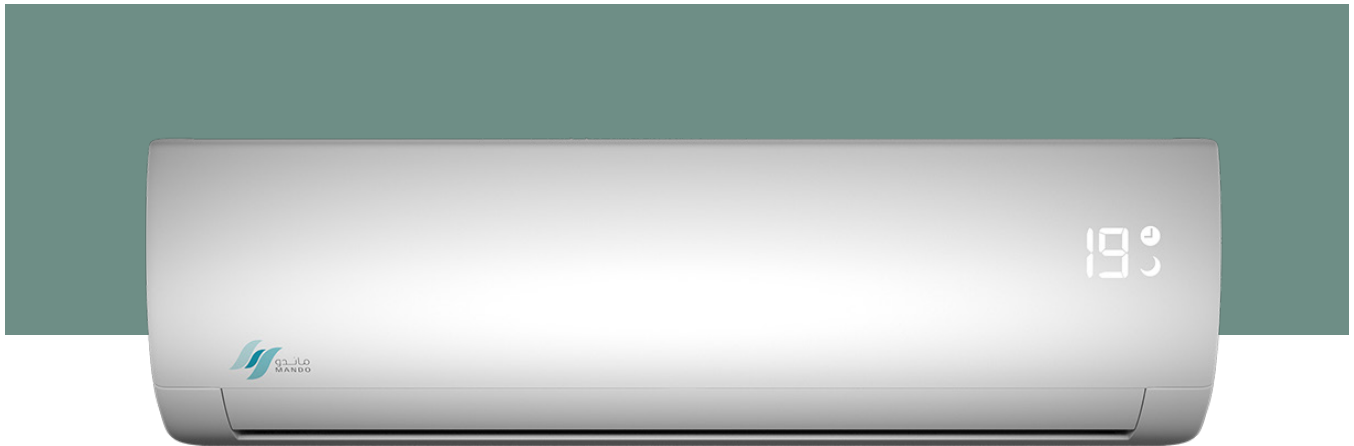
ماندو - جداري موديل ٣٠ MANDO - WALL MOUNTED TYPE 30 K



Model No.			30K	30K H
Type			cooling only	Heating Pump
Control type			Remote Controller	Remote Controller
Rated cooling capacity(T1)	Btu/h		26800	26400
Rated cooling capacity(T1)	kW		7.85	7.75
Rated cooling capacity(T3)	Btu/h		22200	22000
Rated cooling capacity(T3)	kW		6.51	6.45
Rated heating capacity	W		N.A	7000
EER for cooling(T1)	Btu/h-W;		12.40	12.40
EER for cooling(T1)	W/W		3.63	3.63
EER for cooling(T3)	Btu/h-W;		8.70	8.70
EER for cooling(T3)	W/W		2.55	2.55
COP for heating	W/W		N.A	3.60
Moisture removal	Liters/h		2.50	2.50
Pressure	High(DP)	MPa	4.5	4.5
	Low(SP)	MPa	1.9	1.9
Climate type			T3	T3
Power supply			230V~1 Phase/ 60Hz	230V~1 Phase/ 60Hz
Voltage Range			198~264	198~264

Current	Cooling(T1)	A	9.6	9.4
	Cooling(T3)	A	11.3	11.2
	Heating	A	N.A	8.6
Power input	Cooling(T1)	W	2161	2129
	Cooling(T3)	W	2552	2529
	Heating	W	N.A	1944
Rated Current	Cooling(T1)	A	17.9	17.9
	Cooling(T3)	A	17.9	17.9
	Heating	A	N.A	14.5
Rated Power input	Cooling(T1)	W	3300	3300
	Cooling(T3)	W	3300	3300
	Heating	W	N.A	2700
Annual energy consumption		kwh/year	5835	5748
Refrigerant		kg	R410A/ 2.000 kg	R410A / 2.000 kg
Compressor	Model		ASH215DG-C8DU	ASH215DG-C8DU
	Type		Rotary	Rotary
	Brand		Highly	Highly
	Capacity	Btu/h	21871	21871
	Input	W	2080	2080
	Rated current(RLA)	A	9.3	9.3
	Locked rotor Amp(LRA)	A	58	58
	Thermal protector		/	/
	Thermal protector position		IOL	IOL
	Capacitor	uF	50	50
	Refrigerant oil/oil charge	ml	570±20	570±20
Indoor fan type			Cross flow	Cross flow
Outdoor fan type			Propeller	Propeller
			4叶	4叶
Connections				
Connecting Pipe	Gas	Inches	Φ15.88(5/8")	Φ15.88(5/8")
	Liquid	Inches	Φ6(1/4")	Φ6(1/4")
Connecting	Size x Core number		0.75x4	0.75x4; 0.75x2
Net dimensions (W x Dx H)	Indoor	mm	1186x340x258	1186x340x258
	Outdoor	mm	953x433x808	953x433x808
Net weight	Indoor	kg	18	18
	Outdoor	kg	59	60
Packing dimensions (W x D x H)	Indoor	mm	1265x415x338	1265x415x338
	Outdoor (without piping)	mm	1020x475x845	1020x475x845
	Outdoor (with piping)	mm	1020x475x845	1020x475x845
Gross weight	Indoor	kg	26	26
	Outdoor (without piping)	kg	65	66
	Outdoor (with piping)	kg	68	69
Stuffing qty	40'HQ (without piping)	sets	112	112
	40'HQ (with piping)	sets	112	112

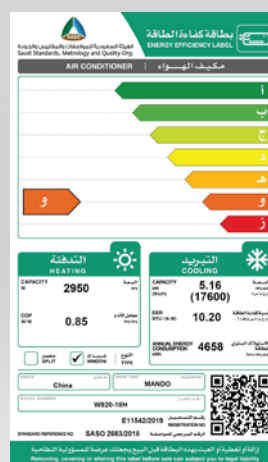
ماندو - جداري موديل ٣٦ MANDO - WALL MOUNTED TYPE 36 K



Model No.			36K	36K H
Type			cooling only	Heating Pump
Control type			Remote Controller	Remote Controller
Rated cooling capacity(T1)	Btu/h		28600	28600
Rated cooling capacity(T1)	kW		8.40	8.40
Rated cooling capacity(T3)	Btu/h		23600	24800
Rated cooling capacity(T3)	kW		6.90	7.25
Rated heating capacity	W		N.A	8000
EER for cooling(T1)	Btu/h-W;		12.40	12.40
EER for cooling(T1)	W/W		3.63	3.63
EER for cooling(T3)	Btu/h-W;		8.70	8.70
EER for cooling(T3)	W/W		2.55	2.55
COP for heating	W/W		N.A	3.60
Moisture removal	Liters/h		2.80	2.8
Pressure	High(DP)	MPa	4.5	4.5
	Low(SP)	MPa	1.9	1.9
Climate type			T3	T3
Power supply			230V~1 Phase/ 60Hz	230V~1 Phase/ 60Hz
Voltage Range			198~264	198~264

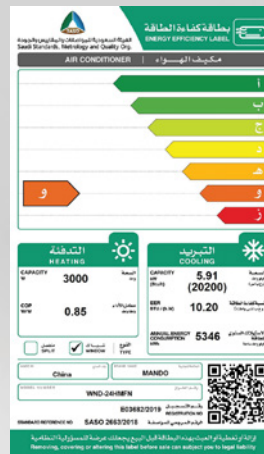
Current	Cooling(T1)	A	10.2	10.2
	Cooling(T3)	A	12.0	12.6
	Heating	A	N.A	9.9
Power input	Cooling(T1)	W	2306	2306
	Cooling(T3)	W	2713	2851
	Heating	W	N.A	2222
Rated Current	Cooling(T1)	A	18.7	18.7
	Cooling(T3)	A	18.7	18.7
	Heating	A	N.A	15.5
Rated Power input	Cooling(T1)	W	3500	3500
	Cooling(T3)	W	3500	3500
	Heating	W	N.A	3000
Annual energy consumption		kwh/year	6227	6227
Refrigerant		kg	R410A/ 2.350 kg	R410A /2.350 kg
Compressor	Model		ASH239DG-C8DU	ASH239DG-C8DU
	Type		Rotary	Rotary
	Brand		Highly	Highly
	Capacity	Btu/h	24072	24072
	Input	W	2290	2290
	Rated current(RLA)	A	10.2	10.2
	Locked rotor Amp(LRA)	A	50	50
	Thermal protector		/	/
	Thermal protector position		IOL	IOL
	Capacitor	uF	55	55
	Refrigerant oil/oil charge	ml	560±20	560±20
Indoor air volume(Cooling/Heating)		m ³ /h	1500	1500/1500
Indoor fan type			Cross flow	Cross flow
Outdoor fan type			Propeller	Propeller
			4叶	4叶
Connections				
Connecting Pipe	Gas	Inches	Φ15.88(5/8")	Φ15.88(5/8")
	Liquid	Inches	Φ6(1/4")	Φ6(1/4")
Connecting	Size x Core number		0.75x4	0.75x4; 0.75x2
Net dimensions (W x Dx H)	Indoor	mm	1186x340x258	1186x340x258
	Outdoor	mm	953x433x808	953x433x808
Net weight	Indoor	kg	18	18
	Outdoor	kg	60	62
Packing dimensions (W x D x H)	Indoor	mm	1265x415x338	1265x415x338
	Outdoor (without piping)	mm	1020x475x845	1020x475x845
	Outdoor (with piping)	mm	1020x475x845	1020x475x845
Gross weight	Indoor	kg	26	26
	Outdoor (without piping)	kg	66	68
	Outdoor (with piping)	kg	69	71
Stuffing qty	40'HQ (without piping)	sets	112	112
	40'HQ (with piping)	sets	112	112

ماندو - شبك موديل ١٨
MANDO - WINDO TYPE 18 K



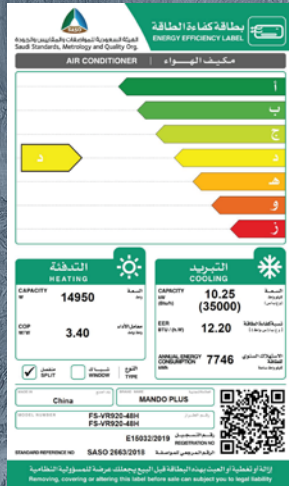
Model			18KC	18KH
Power supply		V,Hz,Ph	230V,1Ph,60Hz	230V,1Ph,60Hz
Cooling(T1)	Capacity	Btu/h	17800	17600
	Input	W	1745	1725
	Current	A	7.59	7.50
	EER	Btu/h/W	10.20	10.20
Cooling(T3)	Capacity	Btu/h	15200	15200
	Input	W	2110	2054
	Current	A	9.17	9.00
	EER	Btu/h/W	7.20	7.40
Heating(T1)	Capacity	W	/	2950
	Input	W	/	3470
	Current	A	/	15.20
	COP	W/W	/	0.85
Moisture Removal		L/h	1.8	1.8
Rated input consumption		W	2700	3470
Rated current		A	13.1	15.2
Starting current		A	39.3	39.3
Compressor	Model		ASG170N1SKT	ASG170N1SKT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	5170 ±3% W	5170 ±3% W
	Input	W	1625 ±3% W	1625 ±3% W
	Rated current(RLA)	A	7.35 ±3% A	7.35 ±3% A
	Locked rotor Amp(LRA)	A	(at 1φ-240V-50Hz) 45±10%	(at 1φ-240V-50Hz) 45±10% A
	Thermal protector		/	/
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	60.0	60.0
	Refrigerant oil/oil charge	ml	VG75 OIL 610±15 ·ml	VG75 OIL 610±15 ·ml
Indoor side noise level (Hi/Mi/Lo)		dB(A)	56/54/52	56/0/53
Refrigerant type		kg	R410A	R410A
Design pressure		MPa	1.5/4.8	1.5/4.8
Plug type			no-plug	no-plug
Control type			Mechanical Control	Mechanical Control
Operation tem	indoor(cooling/heating)	°C	17-35//	17-35/0-27
	outdoor(cooling/heating)	°C	18-52//	18-52//
Application area (Cooling Standard)		m ²	24-35	23-34
Dimension(W*D*H)		mm	680x660x428	680x660x428
Packing (W*D*H)		mm	815x746x515	815x746x515
Net/Gross weight		Kg	55.7/60.1	55.8/60.4
Loading quantity 20' /40' /40'HQ		Pieces	84/176/218	84/176/218

ماندو - شبك موديل ٢٤ MANDO - WINDO TYPE 24 K



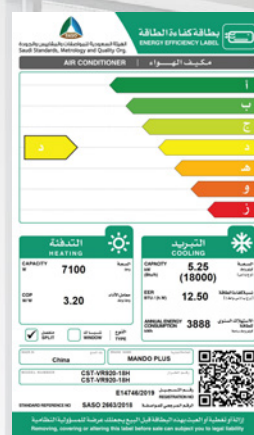
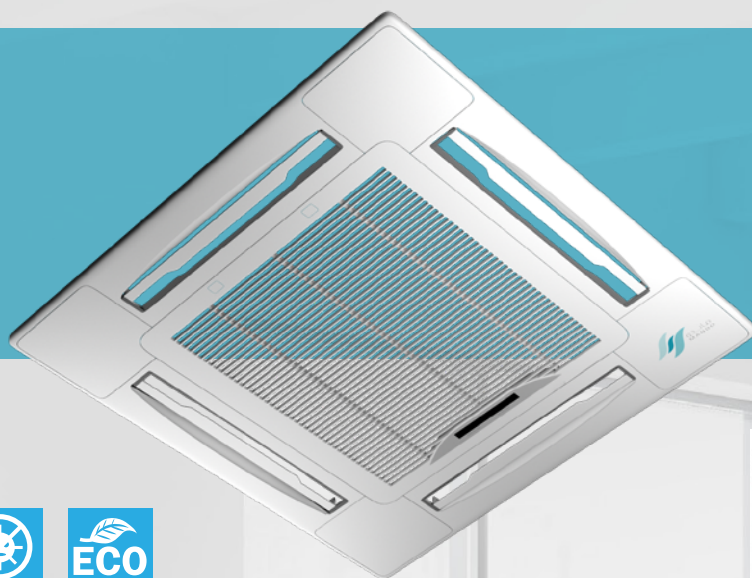
Model			24KC	24KH
Power supply			V,Hz,Ph	230V,1Ph,60Hz
Cooling(T1)	Capacity	Btu/h	20500	20200
	Input	W	1990	1980
	Current	A	8.66	8.61
	EER	Btu/h/W	10.30	10.20
Cooling(T3)	Capacity	Btu/h	17600	17300
	Input	W	2411	2370
	Current	A	10.50	10.31
	EER	Btu/h/W	7.30	7.30
Heating(T1)	Capacity	W	/	3000
	Input	W	/	3530
	Current	A	/	15.40
	COP	W/W	/	0.85
Moisture Removal		L/h	/	/
Rated input consumption		W	3150	3530
Rated current		A	15.3	15.4
Starting current		A	45.9	45.6
Compressor	Model		ASG195N1SKT	ASG195N1SKT
	Type		/	/
	Brand		GMCC	GMCC
	Capacity	Btu/h	20387	20387
	Input	W	1880	1880
	Rated current(RLA)	A	8.25	8.25
	Locked rotor Amp(LRA)	A	50	50
	Thermal protector		/	/
	Thermal protector position		INTERNAL	INTERNAL
	Capacitor	uF	40	40
	Refrigerant oil/oil charge	ml	ESTER OIL VG75 /610	ESTER OIL VG75 /610
Evaporator	a.Number of rows		4	4
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	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	390x378x53.48	390x378x53.48
	g.Number of circuits		4	4
Condenser	a.Number of rows		2	2
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	19.5x11.6
	c.Fin spacing	mm	1.2	1.2
	d.Fin type (code)		Unhydrophilic aluminium	Unhydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ5,Inner groove tube	Φ5,Inner groove tube
	f.Coil length x height x width	mm	680x406x23.2	680x406x23.2
	g.Number of circuits		4	4
Refrigerant type		kg	R410A	R410A
Design pressure		MPa	1.5/4.8	1.5/4.8
Plug type			no-plug	no-plug
Control type			机械式(Mechanical Control)	机械式(Mechanical Control)
Operation tem	indoor(cooling/heating)	°C	17-35//	17-35/0-27
	outdoor(cooling/heating)	°C	18-52//	18-52//
Application area (Cooling Standard)		m ²	27-40	27-39
Dimension(W*D*H)		mm	660x780x428	660x780x428
Packing (W*D*H)		mm	915x770x510	915x770x510
Net/Gross weight		Kg	62.8/67.1	63.4/67.7
Loading quantity 20' /40' /40'HQ		Pieces	72/156/195	72/156/195

ماندو - ارضي موديل ٤٨ MANDO - FLOOR TYPE 48 VR



Model		48 V.R	
Power supply		V-Hz-Ph	230V,1Ph,60Hz
Cooling (T1)	Capacity	Btu/h	35000 (Max : 55200)
	Input	W	2869
	Rated current	A	12.6
	EER	(Btu/h)/W	12.20
Cooling (T3)	Capacity	Btu/h	31400
	Input	W	3651
	Rated current	A	15.8
	EER	(Btu/h)/W	8.60
Heating	Capacity	W	14950
	Input	W	4397
	Rated current	A	19.28
	COP	W/W	3.40
Max. input consumption		W	6100
Max. current		A	28
Starting current		A	0
Compressor	Model		ATQ420D1TMU
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	12960
	Input	W	3485
	Rated current(RLA)	A	7
	Locked rotor Amp(LRA)	A	/
	Thermal protector		/
	Thermal protector position		NA
	Capacitor	uF	0.0
	Refrigerant oil/oil charge	ml	VG74/1400
Indoor unit	Dimension(W*D*H)	mm	629x456x1935
	Packing (W*D*H)	mm	750x575x2055
	Net/Gross weight	Kg	59.1/77.7
Outdoor unit	Dimension(W*D*H)	mm	952x415x1333
	Packing (W*D*H)	mm	1095x495x1480
	Net/Gross weight	Kg	96.6/110.4
Refrigerant type		g	R410A/4.3
Design pressure		MPa	4.8/1.5
Refrigerant pipe	Liquid side/ Gas side	mm(inch)	9.52mm(3/8in)/22mm(7/8in)
	Max. refrigerant pipe length	m	50
	Max. difference in level	m	30
Connection wiring			1.0x3/0.2x2
Plug type			//no-plug
Thermostat type			Remote Control
Operation temperature		°C	17~30
Room temperature	Indoor(cooling/ heating)	°C	17~32/0~30
	Outdoor(cooling/heating)	°C	0~52/-15~24
Application area		m2	47~68
Qty'per 20' /40' /40'HQ			15/32/39

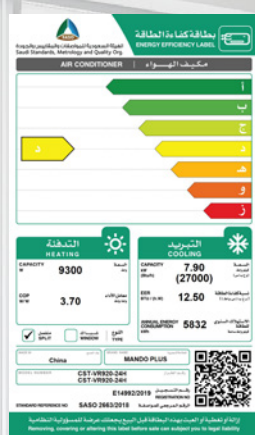
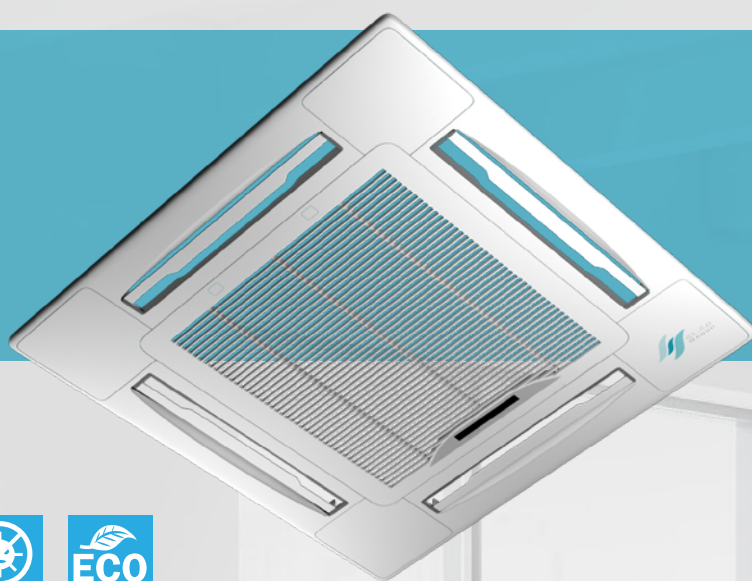
ماندو - كاسيت موديل ١٨ MANDO - CASSETTE TYPE 18 - VR



Model			18VR - IDU
Power supply		V-ph-Hz	230V,1Ph, 60Hz
Cooling(T1)	Capacity	Btu/h	18000 (~29000)
	Input	W	1440
	Current	A	9.50
	EER	Btu/h.W	12.5
Cooling(T3)	Capacity	Btu/h	15500
	Input	W	1751
	Current	A	11.50
	EER	Btu/h.W	8.85
Heating	Capacity	W	7100
	Input	W	2218
	Current	A	10.00
	COP	W/W	3.2
Sound level (sound pressure)		dB(A)	50/47.4/45.1
Indoor unit	Dimension (W x Hx D)(body)	mm	840x840x245
	Packing (W x Hx D)(body)	mm	900x900x265
	Dimension (W x Hx D)(panel)	mm	950x950x55
	Packing (W x Hx D)(panel)	mm	1035x1035x90
	Net/Gross weight(body)	kg	24.6/29.7
	Net/Gross weight(panel)	kg	5/8
Design pressure		MPa	4.8/1.5
Drainage water pipe dia.		mm	O D Φ 2 5 mm
Refrigerant piping	Liquid side/ Gas side	mm	9.52&19
Controller			Remote control
Operation temperature		°C	17~30
Room temperature	Cooling	°C	17~32
	Heating	°C	0~30
Application area		m2	24~35

Model			18VR - ODU
Model			MOTD30-24HFN1-NC7W
Factory model			KSA-KT3FR71W/BP3N1-D30(C7)-W
Code			22022516001622
Power supply		V-ph-Hz	230V,1Ph, 60Hz
Max. input consumption		W	3200
Max. input current		A	14.1
Compressor	Model		ATF235D22TMT
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	24345
	Input	W	1970
	Rated current(RLA)	A	9
	Locked rotor Amp(LRA)	A	/
	Thermal protector position		/
	Capacitor	μ F	NA
Refrigerant oil		ml	RB75EA /670
Throttle type			EXV
Outdoor unit	Dimension(WxDxH)	mm	946x410x810
	Packing(WxDxH)	mm	1090x500x885
	Net/Gross weight	kg	56.3/60.9
Refrigerant type/Quantity	Type		R410A
	Charged volume	kg	2.1
Design pressure		MPa	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	9.52mm(3/8in)/15.9mm(5/8in)
	Max. pipe length	m	25
	Max. difference in level	m	15
Ambient temperature	Cooling	°C	0~52
	Heating	°C	-15~24
Qty'per 20' /40' /40'HQ		Outdoor unit	44/96/138
Mini Circuit Amps		A	
Max Fuse Amps		A	
Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.			

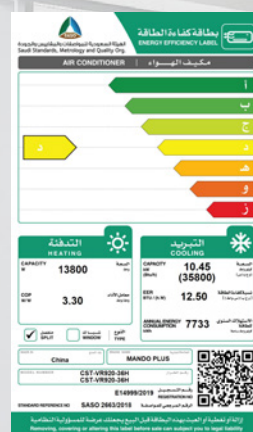
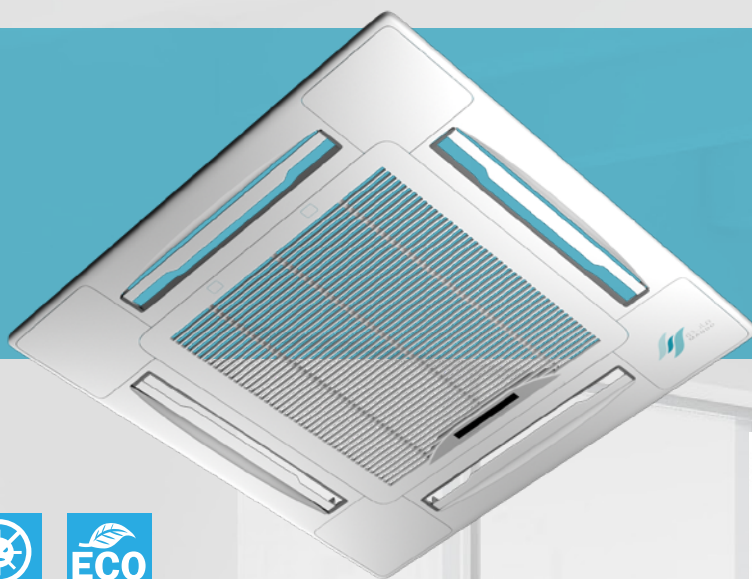
ماندو - کاسیت مودیل ۲۴
MANDO - CASSETTE TYPE 24 - VR



Model		24VR - IDU	
Power supply		V-ph-Hz	230V,1Ph, 60Hz
Cooling(T1)	Capacity	Btu/h	27000 (~43400)
	Input	W	2160
	Current	A	13.6
	EER	Btu/h.W	12.5
Cooling(T3)	Capacity	Btu/h	24200
	Input	W	2750
	Current	A	17.20
	EER	Btu/h.W	8.80
Heating	Capacity	W	9300
	Input	W	2513
	Current	A	11.40
	COP	W/W	3.7
Sound level (sound pressure)		dB(A)	52.1/49.6/47.3
Indoor unit	Dimension (W x Hx D)(body)	mm	910x910x287
	Packing (W x Hx D)(body)	mm	1015x1015x322
	Dimension (W x Hx D)(panel)	mm	1020x1020x50
	Packing (W x Hx D)(panel)	mm	1115x1115x107
	Net/Gross weight(body)	kg	34.4/41.3
	Net/Gross weight(panel)	kg	5.8/9.5
Design pressure		MPa	4.8/1.5
Drainage water pipe dia.		mm	O D Φ 2 5 m m
Refrigerant piping	Liquid side/ Gas side	mm	9.52&19
Controller			Remote control
Operation temperature		°C	17~30
Room temperature	Cooling	°C	17~32
	Heating	°C	0~30
Application area		m2	36~53

Model		24VR - ODU	
Power supply		V-ph-Hz	230V,1Ph, 60Hz
Max. input consumption		W	4300
Max. input current		A	19.8
Compressor	Model		ATF310D43TMT
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	32346
	Input	W	2600
	Rated current(RLA)	A	5.1
	Locked rotor Amp(LRA)	A	/
	Thermal protector position		/
	Capacitor	μ F	NA
Refrigerant oil		ml	RB75EA /1000
Throttle type			EXV
Outdoor unit	Dimension(WxDxH)	mm	946x410x810
	Packing(WxDxH)	mm	1090x500x885
	Net/Gross weight	kg	64.9/69.6
Refrigerant type/Quantity	Type		R410A
	Charged volume	kg	3.2
Design pressure		MPa	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	9.52mm(3/8in)/19mm(3/4in)
	Max. pipe length	m	30
	Max. difference in level	m	20
Ambient temperature	Cooling	°C	0~52
	Heating	°C	-15~24
Qty'per 20' /40' /40'HQ		Outdoor unit	44/96/138
Mini Circuit Amps		A	
Max Fuse Amps		A	
Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.			

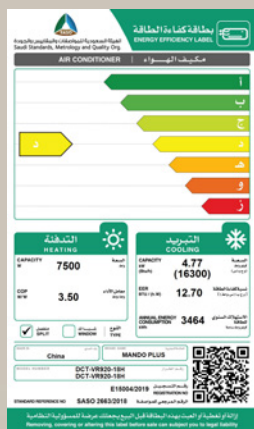
ماندو - كاسيت موديل ٣٦ MANDO - CASSETTE TYPE 36 - VR



Model		36VR - IDU	
Power supply		V-ph-Hz	230V,1Ph, 60Hz
Max. input consumption		W	6100
Max. input current		A	28
Compressor	Model		ATQ420D1TMU
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	44220
	Input	W	3485
	Rated current(RLA)	A	7
	Locked rotor Amp(LRA)	A	/
	Thermal protector position		INTERNAL
	Capacitor	μ F	NA
	Refrigerant oil	ml	VG74/1400
Throttle type			EXV+Capillary
Outdoor unit	Dimension(WxDxH)	mm	952x415x1333
	Packing(WxDxH)	mm	1095x495x1480
	Net/Gross weight	kg	97.2/110.2
Refrigerant type/Quantity	Type		R410A
	Charged volume	kg	4.3
Design pressure		MPa	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	50
	Max. difference in level	m	30
Ambient temperature	Cooling	°C	18~52
	Heating	°C	-15~24
Qty'per 20' /40' /40'HQ		Outdoor unit	22/48/48
Mini Circuit Amps		A	32
Max Fuse Amps		A	60
Remarks:1.The above design and specifications are subject to change without prior notice for product			

Model		36VR - ODU	
Power supply		V-ph-Hz	230V,1Ph, 60Hz
Cooling(T1)	Capacity	Btu/h	35800 (~54800)
	Input	W	2864
	Current	A	12.70
	EER	Btu/h.W	12.50
Cooling(T3)	Capacity	Btu/h	31600.0
	Input	W	3511.0
	Current	A	16.2
	EER	Btu/h.W	9.0
Heating	Capacity	W	13800
	Input	W	4182
	Current	A	19.1
	COP	W/W	3.30
Sound level (sound pressure)		dB(A)	56.5/54.5/52.5
Indoor unit	Dimension (W x Hx D)(body)	mm	910x910x287
	Packing (W x Hx D)(body)	mm	1015x1015x322
	Dimension (W x Hx D)(panel)	mm	1020x1020x50
	Packing (W x Hx D)(panel)	mm	1115x1115x107
	Net/Gross weight(body)	kg	34.7/41.2
	Net/Gross weight(panel)	kg	5.8/9.5
Design pressure		MPa	4.8/1.5
Drainage water pipe dia.		mm	O D Φ 3 2 mm
Refrigerant piping	Liquid side/ Gas side	mm	9.52&19
Controller			Remote control
Operation temperature		°C	17~30
Room temperature	Cooling	°C	17~32
	Heating	°C	0~30
Application area		m2	56~82

ماندو - مخفي موديل ١٨ MANDO - DUCT TYPE 18 - VR



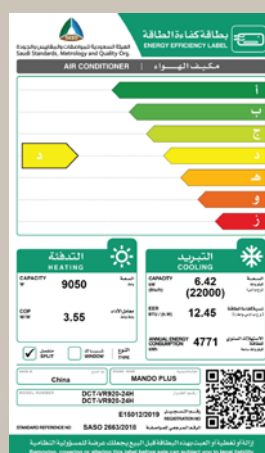
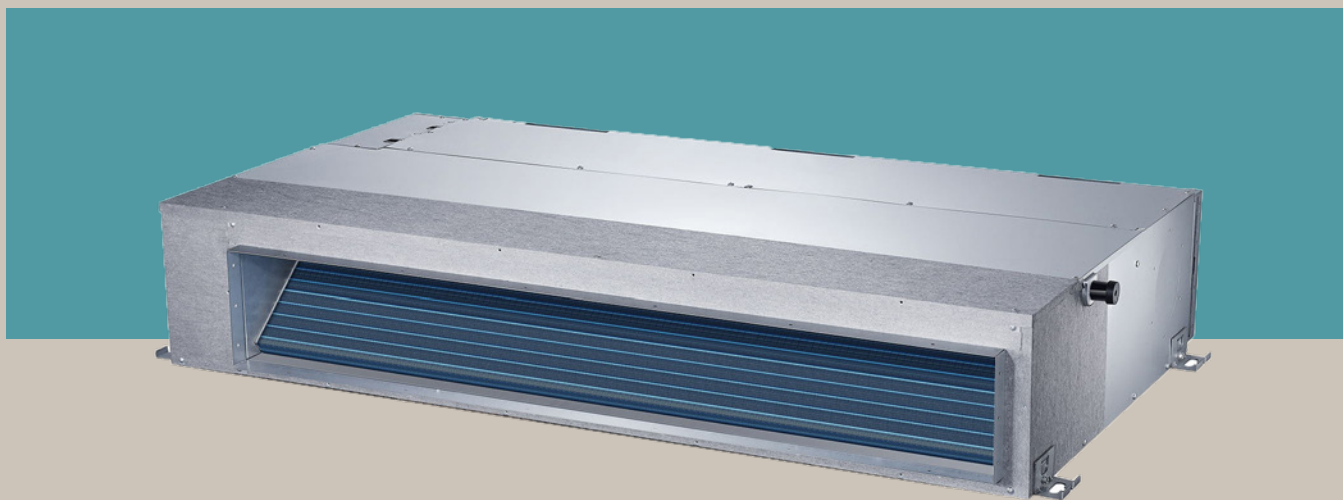
Model			18VR - IDU
Power supply		V,Hz,Ph	220~240,50/60,1
Cooling (T1)	Capacity	Btu/h	16300(7100-27000)
	Input	W	1283 (700-2300)
	Current	A	6.20
	EER	Btu/h/W	12.70
Cooling (T3)	Capacity	Btu/h	14200
	Input	W	1632
	Current	A	7.88
	EER	Btu/h/W	8.70
Heating	Capacity	W	7500 (2500-9300)
	Input	W	2143 (790-2500)
	Current	A	10.35
	COP	W/W	3.50
ESP	Rated	Pa	25
	Range	Pa	0-100
Indoor unit	Dimension (WxDxH)	mm	1100x774x249
	Packing(WxDxH)	mm	1305x805x305
	Net/Gross weight	kg	30.2/37.4
Design pressure		MPa	4.8/1.5
Drainage water pipe diameter		mm	O D Φ 2 5
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Wired control
Operation temperature		°C	17~30
Room temperature	Cooling	°C	17~32
	Heating	°C	0~30
Qty'per 20' /40' /40'HQ		Indoor	77/161/184

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

Model			18VR - ODU
Power supply		V-ph-Hz	220-240~1-50/60
Max. input consumption		W	3200
Max. input current		A	14.1
Compressor	Model		ATF235D22TMT
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	24345
	Input	W	1970
	Rated current(RLA)	A	9.00
	Thermal protector position		INTERNAL
	Refrigerant oil	ml	RB75EA/670
Throttle type			Throttle valve
Outdoor unit	Dimension(WxDxH)	mm	946x410x810
	Packing(WxDxH)	mm	1090x500x875
	Net/Gross weight	kg	55.3/61.7
Refrigerant type/Quantity	Type		R410A
	Charged volume	kg	2.12
Design pressure		MPa	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")
	Max. pipe length	m	25
	Max. difference in level	m	15
Ambient temperature	Cooling	°C	18-54
	Heating	°C	-7-24
Qty'per 20' /40' /40'HQ		Outdoor unit	44/96/144
Mini Circuit Amps		A	16
Max Fuse Amps		A	20

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

ماندو - مخفي موديل ٢٤ MANDO - DUCT TYPE 24 - VR



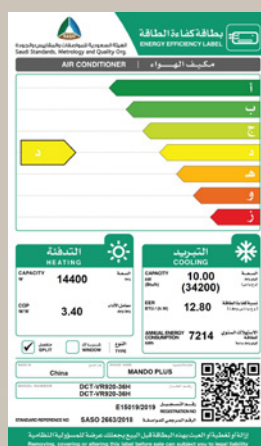
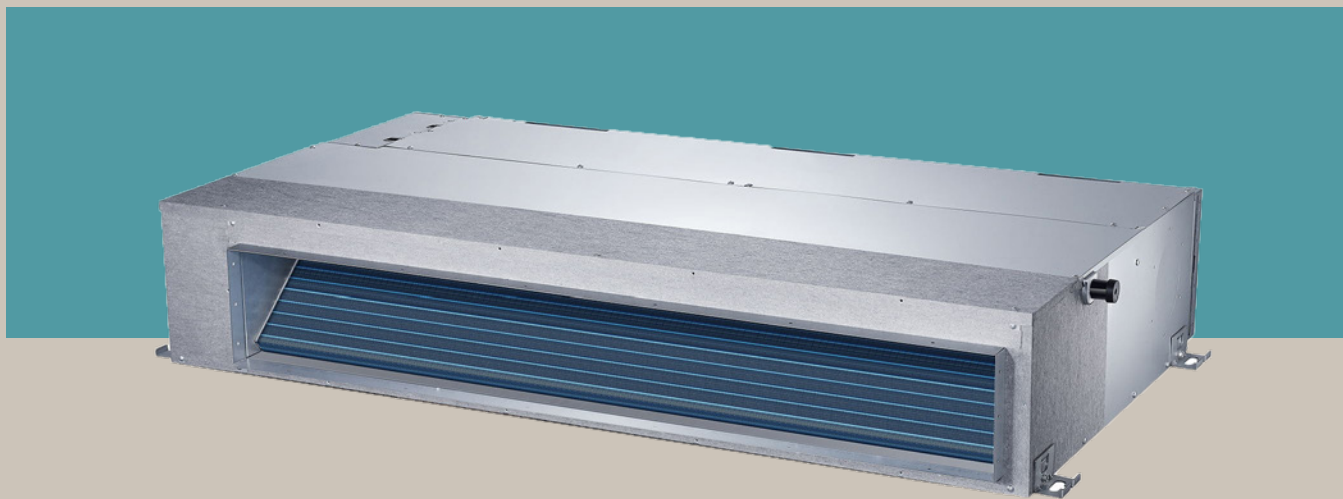
Model			24 VR - IDU
Power supply		V,Hz,Ph	220~240,50/60,1
Cooling (T1)	Capacity	Btu/h	22000(10500-39000)
	Input	W	1767 (1000-3400)
	Current	A	8.54
	EER	Btu/h/W	12.45
Cooling (T3)	Capacity	Btu/h	18300
	Input	W	2080
	Current	A	10.05
	EER	Btu/h/W	8.8
Heating	Capacity	W	9050 (3000-11000)
	Input	W	2549 (950-3200)
	Current	A	12.36
	COP	W/W	3.55
ESP	Rated	Pa	25
	Range	Pa	0-100
Indoor unit	Dimension (WxDxH)	mm	1200x874x300
	Packing(WxDxH)	mm	1405x915x355
	Net/Gross weight	kg	42.8/51
Design pressure		MPa	4.8/1.5
Drainage water pipe diameter		mm	O D Φ 2 5
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ19(3/8"/3/4")
Controller			Wired control
Operation temperature		°C	17~30
Room temperature	Cooling	°C	17~32
	Heating	°C	0~30
Qty'per 20' /40' /40'HQ		Indoor	77/161/184

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

Model			24VR - ODU
Power supply		V-ph-Hz	220-240~1-50/60
Max. input consumption		W	4300
Max. input current		A	19.8
Compressor	Model		ATF310D43TMT
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	32278
	Input	W	2595
	Rated current(RLA)	A	5.1
	Thermal protector position		INTERNAL
	Refrigerant oil	ml	RB75EA/1000
Throttle type			Throttle valve
Outdoor unit	Dimension(WxDxH)	mm	946x410x810
	Packing(WxDxH)	mm	1090x500x875
	Net/Gross weight	kg	66.5/71.9
Refrigerant type/Quantity	Type		R410A
	Charged volume	kg	3.2
Design pressure		MPa	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	30
	Max. difference in level	m	20
Ambient temperature	Cooling	°C	18-54
	Heating	°C	-7-24
Qty'per 20' /40' /40'HQ		Outdoor unit	44/96/144
Mini Circuit Amps		A	20
Max Fuse Amps		A	30

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

ماندو - مخفي موديل ٣٦ MANDO - DUCT TYPE 36 - VR



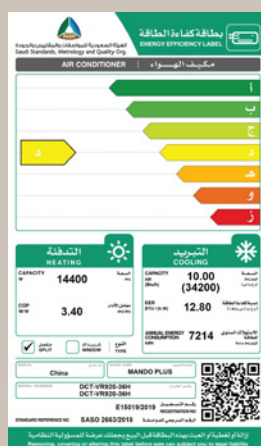
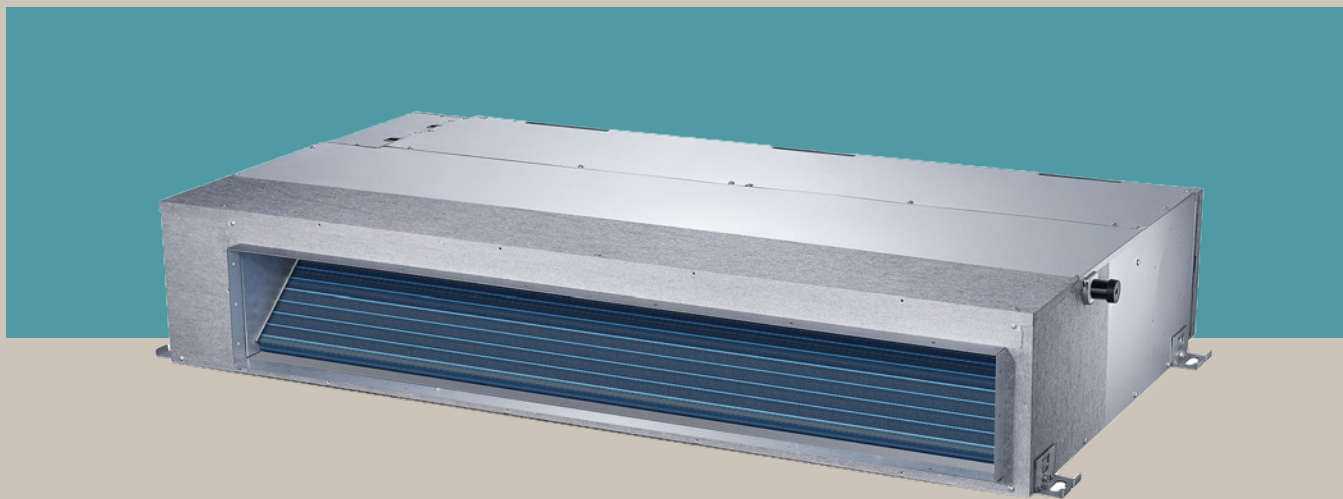
Model			36VR - IDU
Power supply		V,Hz,Ph	230,50/60,1
Cooling (T1)	Capacity	Btu/h	43200 (19000-55000)
	Input	W	3512 (1700-5800)
	Current	A	16.20
	EER	Btu/h/W	12.30
Cooling (T3)	Capacity	Btu/h	42000
	Input	W	4800
	Current	A	22.00
	EER	Btu/h/W	8.75
Heating	Capacity	W	15600 (6000-17200)
	Input	W	4333 (2000-5600)
	Current	A	19.18
	COP	W/W	3.60
ESP	Rated	Pa	50
	Range	Pa	0-160
Indoor unit	Dimension (WxDxH)	mm	1200x625x380
	Packing(WxDxH)	mm	1485x675x450
	Net/Gross weight	kg	56.7/64.9
Design pressure		MPa	4.8/1.5
Drainage water pipe diameter		mm	Ø D Ø 2 5
Refrigerant piping	Liquid side/ Gas side	mm	Ø9.52/Ø19(3/8"/3/4")
Controller			Wired control
Operation temperature		°C	17~30
Room temperature	Cooling	°C	17~32
	Heating	°C	0~30
Qty'per 20' /40' /40'HQ		Indoor	59/124/125

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

Model			36VR - ODU
Power supply		V-ph-Hz	230,50/60,1
Max. input consumption		W	6100
Max. input current		A	28
Compressor	Model		ATQ420D1TMU
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	44220
	Input	W	3485
	Rated current(RLA)	A	7.0
	Thermal protector position		INTERNAL
	Refrigerant oil	ml	RB75EA/1400
Throttle type			EEV
Outdoor unit	Dimension(WxDxH)	mm	952x415x1333
	Packing(WxDxH)	mm	1095x495x1480
	Net/Gross weight	kg	95/107.7
Refrigerant type/Quantity	Type		R410A
	Charged volume	kg	4.1
Design pressure		MPa	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Ø9.52/Ø19(3/8"/3/4")
	Max. pipe length	m	50
	Max. difference in level	m	30
Ambient temperature	Cooling	°C	18-54
	Heating	°C	-7-24
Qty'per 20' /40' /40'HQ		Outdoor unit	22/48/48
Mini Circuit Amps		A	
Max Fuse Amps		A	40

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

ماندو - مخفي موديل ٤٨ MANDO - DUCT TYPE 48 - VR



Model		48VR - IDU	
Power supply		V,Hz,Ph	230,50/60,1
Cooling (T1)	Capacity	Btu/h	51000 (22000-58000)
	Input	W	4146 (2300-6000)
	Current	A	18.90
	EER	Btu/h/W	12.00
Cooling (T3)	Capacity	Btu/h	46000
	Input	W	5318
	Current	A	23.78
	EER	Btu/h/W	8.55
Heating	Capacity	W	15400 (5900-17000)
	Input	W	3850 (1800-5500)
	Current	A	17.50
	COP	W/W	4.00
ESP	Rated	Pa	50
	Range	Pa	0-160
Indoor unit	Dimension (WxDxH)	mm	1400x858x440
	Packing(WxDxH)	mm	1605x910x505
	Net/Gross weight	kg	74.6/86.4
Design pressure		MPa	4.8/1.5
Drainage water pipe diameter		mm	O D Φ 2 5
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ19(3/8"/3/4")
Controller			Wired control
Operation temperature		°C	17~30
Room temperature	Cooling	°C	17~32
	Heating	°C	0~30
Qty'per 20' /40' /40'HQ		Indoor	35/72/86

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

Model		48VR - ODU	
Power supply		V-ph-Hz	230,50/60,1
Max. input consumption		W	6100
Max. input current		A	28
Compressor	Model		ATQ420D1TMU
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	44220
	Input	W	3485
	Rated current(RLA)	A	7.0
	Thermal protector position		INTERNAL
	Refrigerant oil	ml	RB75EA/1400
Throttle type			EEV
Outdoor unit	Dimension(WxDxH)	mm	952x415x1333
	Packing(WxDxH)	mm	1095x495x1480
	Net/Gross weight	kg	97.2/110.2
Refrigerant type/Quantity	Type		R410A
	Charged volume	kg	4.3
Design pressure		MPa	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	50
	Max. difference in level	m	30
Ambient temperature	Cooling	°C	18-54
	Heating	°C	-7-24
Qty'per 20' /40' /40'HQ		Outdoor unit	22/48/48
Mini Circuit Amps		A	
Max Fuse Amps		A	40

Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.