



أنظمة تكييف ماندو  
MANDO AIR CONDITIONING SYSTEMS





# رؤيتنا

عملاؤنا وشركاؤنا الكرام ،

يُسعدنا أن نتوجّه إليكم بهذه الكلمة التي تعبّر عن اعتزازنا بما حققناه وتُجسّد مسيرة شركتنا في مجال توريد أنظمة التكييف، وتعكس التزامنا الراسخ بتقديم منتجات وحلول عالية الجودة ترتقي إلى تطلعات عملائنا وتواكب التطورات التقنية في هذا القطاع الحيوي .

منذ تأسيس شركة فاريز للتجارة والتسويق، جعلنا الثقة والتميّز والجودة ركائز أساسية في جميع أعمالنا ، وحرصنا على تحقيق أعلى معايير الأداء والكفاءة في كل منتج نقدمه.

نحن نؤمن بأنّ النجاح الحقيقي يقوم على الشراكة طويلة الأمد مع عملائنا، وعلى تقديم قيمة حقيقية تضمن لهم الراحة، والكفاءة، والابتكار في كل مشروع نقوم به معاً .

إننا في شركة فاريز للتجارة و التسويق نواصل اليوم ما بدأناه من التزام بالتطوير المستمر، واضعين نصب أعيننا هدفاً واحداً: أن نكون الخيار الأفضل في حلول أنظمة التكييف في السوق المحلي .

مع خالص التقدير،

**المدير العام**

**محمد بن عبدالرحمن الخضير**





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# ماندو

ماندو اسم مميز في حلول التهوية و التكييف و الأجهزة المنزلية، أكثر من عشرون سنة ومنتجات ماندو تخدم لا يقل عن 100,000 الف عميل سنوياً.

تتميز أجهزة مكيفات ماندو بجمالية التصميم و جودة الأداء و التوفير في إستهلاك الطاقة فهي الخيار المثالي للأجهزة الأقتصادية.

ماندو علامة تجارية مسجلة لشركة فاريز للتجارة والتسويق.

## MANDO

MANDO is a distinguished name in ventilation and air conditioning solutions and home appliances. More than twenty years and MANDO products serve at least 100,000 customers annually.

MANDO air conditioners are characterized by aesthetic design, quality performance and energy saving which are the ideal choice for economical devices.

MANDO is a registered trademark of FAREAZ Trading and Marketing.



## خدمات ما بعد البيع AFTER-SALES SERVICE

### الضمان

يتم تقديم ضمان شامل لمدة سنتين على جميع أجهزة مكيفات ماندو و سبع سنوات على الكمبرسور و يتوجب على العميل إحضار فاتورة الشراء و يتم استقبال طلبات الصيانة على الخط الموحد لمركز الصيانة لمكيفات ماندو 8001240402

### WARRANTY

A comprehensive warranty for two years is provided on all MANDO air conditioners and seven years on the compressor and the customer must bring the purchase invoice, and maintenance requests are received on the united line of the MANDO air conditioners maintenance center 8001240402



## الصيانة

لدى ماندو اسطول من فرق الدعم الفني و الذي تحتوي على أكثر من 50 فريق فني مجهز بكامل التجهيزات المادية و المعرفية و يتم إدارتهم بإحترافية بواسطة مركز الصيانة و الدعم الفني لأجهزة ماندو و المتواجد في مقر الشركة الرئيسي.



## MAINTENANCE

MANDO has a fleet of technical support teams consisting of more than 50 technical teams equipped with full physical and knowledge equipment, and they are professionally managed by the maintenance and technical support center for MANDO located in the company's headquarters.



PLUS

ماندو بلس - جداري - موديل ١٢  
MANDO PLUS - WALL MOUNTED - MODEL 12



Model			MP-NF23-12C	MP-NF23M-12H
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	10.55	10.55
Energy Class			D	D
Cooling ( T1 )	Capacity	Btu/h	12100	11900
	Input	W	976	960
	Rated Current	A	4.33	4.26
	EER	Btu/h.W	12.40	12.40
Cooling ( T3 )	Capacity	Btu/h	10800	10500
	Input	W	1227	1193
	Rated Current	A	5.44	5.29
	EER	Btu/h.W	8.80	8.80
Heating	Capacity	Btu/h	/	11260
	Input	W	/	943
	Rated Current	A	/	4.2
	COP	W/W	/	3.50
Max. Input Consumption		W	1500	1500
Max. Current		A	8	8
Starting Current		A	27	27
Compressor	Model		ASM103N11UFZ	ASM103N11UFZ
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	10338	10338
	Input	W	970	970
	Rated Current ( RLA )	A	4.75	4.75
	Locked Rotor Amp ( LRA )	A	27	27
	Thermal Protector		/	/
	Thermal Protector Position		INTERNAL	INTERNAL
	Capacitor	µF	35.0	35.0
	Refrigerant Oil / Oil Charge	mL	ESTEL OIL VG74 / 350	ESTEL OIL VG74 / 350
Indoor Fan Motor	Model		YKFG-28-4-6-5	YKFG-28-4-6-5
	Input	W	58.5	58.5
	Output	W	28	28
	Capacitor	uF	1.5	1.5
	Speed ( Turbo / H / M / L )	RPM	1170/1050/950/800	1170/1050/950/800
Indoor Coil	Number of Rows		2	2
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	Fin Spacing	mm	1.2	1.2
	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	750 x 336 x 26.74	750 x 336 x 26.74
	Number of Circuits		4	4
Indoor Air Flow ( Turbo / H / M / L )		m3/h	800/720/630/550	800/720/630/550
Indoor Noise Level ( Turbo / H / M / L )		dB(A)	41/40/37/34	41/40/37/34
Indoor Unit	Dimension ( W x D x H )	mm	969 x 241 x 320	969 x 241 x 320
	Packing ( W x D x H )	mm	1045 x 315 x 405	1045 x 315 x 405
	Net / Gross Weight	Kg	12 / 15.3	12 / 15.3
Outdoor Fan Motor	Model		YKT-48-6-219-1	YKT-48-6-219-1
	Input	W	103.8	103.8
	Output	W	48	48
	Capacitor	uF	2	2
	Speed	RPM	880	880
Outdoor Coil	Number of Rows		1.6	2.0
	Tube Pitch (a) x Row Pitch (b)	mm	19.5 x 11.6	21 x 13.37
	Fin Spacing	mm	1.2	1.4
	Fin Type ( Code )		Unhydrophilic Aluminium	Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ5 , Inner Groove Tube	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	875 x 507 x 11.6 + 510 x 507 x 11.6	870 x 504 x 26.74
	Number of Circuits		2	4
Outdoor Noise Level		dB(A)	55	54
Outdoor Unit	Dimension ( W x D x H )	mm	805 x 330 x 554	805 x 330 x 554
	Packing ( W x D x H )	mm	915 x 370 x 615	915 x 370 x 615
	Net / Gross Weight	Kg	31.4 / 34	33.8 / 36.5
Refrigerant ( Type / Quantity )		Kg	R410A / 0.83	R410A / 1.1
Design Pressure		MPa	4.8 / 1.5	4.8 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Φ6.35 ( 1/4" ) / Φ12.7 ( 1/2" )	Φ6.35 ( 1/4" ) / Φ12.7 ( 1/2" )
	Max. Refrigerant Pipe Length	m	20	20
	Max. Level Difference	m	8	8
Connection Wiring			1.5x3	1.5x3 + 0.75x2
Plug Type			1.5x3 / no-plug	1.5x3 / no-plug
Thermostat Type			Remote Control	Remote Control
Operation Temperature		°C	16 ~ 30	16 ~ 30
Room Temperature	Indoor ( Cooling / Heating )	°C	16 ~ 32	16 ~ 32 / 0 ~ 30
	Outdoor ( Cooling / Heating )	°C	18 ~ 52	18 ~ 52 / -7 ~ 24

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو بلس - جداري - موديل ١٨  
MANDO PLUS - WALL MOUNTED - MODEL 18



Model			MP-NF23-18C	MP-NF23M-18H
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	10.5	10.40
Energy Class			D	D
Cooling ( T1 )	Capacity	Btu/h	18300	18100
	Input	W	1476	1500
	Rated Current	A	6.54	6.65
	EER	Btu/h.W	12.40	12.05
Cooling ( T3 )	Capacity	Btu/h	15900	16300
	Input	W	1807	1812
	Rated Current	A	8.01	8.05
	EER	Btu/h.W	8.80	9.00
Heating	Capacity	Btu/h	/	17060
	Input	W	/	1471
	Rated Current	A	/	6.5
	COP	W/W	/	3.40
Max. Input Consumption		W	2300	2210
Max. Current		A	11.85	11.2
Starting Current		A	34	35.0
Compressor	Model		ASF155N1UKT	ASF155N1UKT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	15865	15866
	Input	W	1490	1490
	Rated Current ( RLA )	A	6.6	6.6
	Locked Rotor Amp ( LRA )	A	40	40
	Thermal Protector		UP3-64H/HPA-736H	UP3-64H/HPA-736H
	Thermal Protector Position		INTERNAL	INTERNAL
	Capacitor	µF	50.0	50
Refrigerant Oil / Oil Charge	mL	ESTER OIL VG74 / 610	ESTER OIL VG74 / 610	
Indoor Fan Motor	Model		YKFG-45-4-13	ZKFP-58-8-1-10
	Input	W	89.0	64
	Output	W	45	58
	Capacitor	uF	3	/
	Speed ( Turbo / H / M / L )	RPM	1230/1100/1020/900	1400/1100/1020/900
Indoor Coil	Number of Rows		2	2
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	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	820 x 336 x 26.74	820 x 336 x 26.74
Number of Circuits		4	4	
Indoor Air Flow ( Turbo / H / M / L )		m3/h	1210/1185/1090/1005	1360/1060/966/830
Indoor Noise Level ( Turbo / H / M / L )		dB(A)	49.5/46/44/40	52/46/44/39.5
Indoor Unit	Dimension ( W x D x H )	mm	1082 x 234 x 337	1082 x 234 x 337
	Packing ( W x D x H )	mm	1155 x 415 x 315	1155 x 415 x 315
	Net / Gross Weight	Kg	14.9 / 18.5	13.9 / 17.3
Outdoor Fan Motor	Model		YKT-63-6-204L	YKT-63-6-204L
	Input	W	150	150
	Output	W	63	63
	Capacitor	uF	4	4
	Speed	RPM	780	780
Outdoor Coil	Number of Rows		2	2
	Tube Pitch (a) x Row Pitch (b)	mm	19.5 x 11.6	21 x 13.37
	Fin Spacing	mm	1.2	1.3
	Fin Type ( Code )		UnHydrophilic Aluminium	Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ5 , Inner Groove Tube	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	905 x 604.5 x 11.6 + 887 x 604.5 x 11.6	
Number of Circuits		4	5	
Outdoor Noise Level		dB(A)	57.5	56
Outdoor Unit	Dimension ( W x D x H )	mm	890 x 342 x 673	890 x 342 x 673
	Packing ( W x D x H )	mm	995 x 435 x 750	995 x 398 x 740
	Net / Gross Weight	Kg	43.7 / 47.1	47.3 / 50.1
Refrigerant Type		Kg	R410A / 1.06	R410A / 1.78
Design Pressure		MPa	4.8 / 1.5	4.8 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Φ6.35 ( 1/4" ) / Φ15.9 ( 5/8" )	Φ6.35 ( 1/4" ) / Φ15.9 ( 5/8" )
	Max. Refrigerant Pipe Length	m	25	25
	Max. Level Difference	m	10	10
Connection Wiring			2.5x3	2.5x3 + 0.75x2
Plug Type			2.5x3 / no-plug	2.5x3 / no-plug
Thermostat Type			Remote Control	Remote Control
Operation Temperature		°C	16~30	16~30
Room Temperature	Indoor ( Cooling / Heating )	°C	16 ~ 32	16 ~ 32/0 ~ 30
	Outdoor ( Cooling / Heating )	°C	18 ~ 52	18 ~ 52/-7 ~ 24

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو بلس - جداري - موديل ٢٤  
MANDO PLUS - WALL MOUNTED - MODEL 24

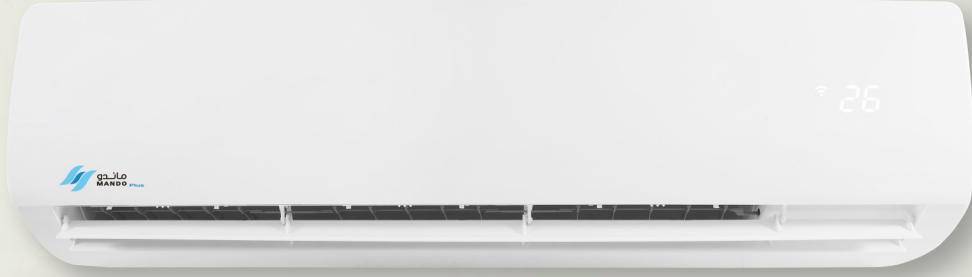


Model			MP-NF23-24SC	MP-NF23M-24SH
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	10.3	10.25
Energy Class			D	D
Cooling ( T1 )	Capacity	Btu/h	22000	22000
	Input	W	1818	1818
	Rated Current	A	8.05	8.05
	EER	Btu/h.W	12.10	12.10
Cooling ( T3 )	Capacity	Btu/h	19400	19000
	Input	W	2230	2235
	Rated Current	A	9.90	9.90
	EER	Btu/h.W	8.70	8.50
Heating	Capacity	Btu/h	/	21496
	Input	W	/	1750
	Rated Current	A	/	7.8
	COP	W/W	/	3.60
Max. Input Consumption		W	2650	2800
Max. Current		A	13.5	14.4
Starting Current		A	50	50
Compressor	Model		ASG195N1SKT	ASG195N1SKT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	20386	20386
	Input	W	1880	1880
	Rated Current ( RLA )	A	8.25	8.25
	Locked Rotor Amp ( LRA )	A	50	50
	Thermal Protector		UP3-48/HPA648	UP3-48/HPA648
	Thermal Protector Position		INTERNAL	INTERNAL
	Capacitor	µF	35	35
	Refrigerant Oil / Oil Charge	mL	ESTER OIL VG75 / 610	ESTER OIL VG75 / 610
Indoor Fan Motor	Model		ZKFP-58-8-1-10	ZKFP-58-8-1-10
	Input	W	64	64
	Output	W	58	58
	Capacitor	uF	/	/
	Speed ( Turbo / H / M / L )	RPM	1400/1100/1020/900	1400/1100/1020/900
Indoor Coil	Number of Rows		2	2
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	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	820 x 210 x 26.74 + 820 x 126 x 26.74	820 x 210 x 26.74 + 820 x 126 x 26.74
	Number of Circuits		4	4
Indoor Air Flow ( Turbo / H / M / L )		m3/h	1420/1080/1000/880	1420/1080/1000/880
Indoor Noise Level ( Turbo / H / M / L )		dB(A)	52.5/43.5/41.5/38	53/50.5/44.5/40
Indoor Unit	Dimension ( W x D x H )	mm	1082 x 234 x 337	1082 x 234 x 337
	Packing ( W x D x H )	mm	1155 x 415 x 315	1155 x 415 x 315
	Net / Gross Weight	Kg	14 / 17.7	14.0 / 17.7
Outdoor Fan Motor	Model		YKT-63-6-204L	YKT-63-6-204L
	Input	W	150	150
	Output	W	63	63
	Capacitor	uF	4	4
	Speed	RPM	780	780
Outdoor Coil	Number of Rows		2.6	2.6
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	Fin Spacing	mm	1.3	1.3
	Fin Type ( Code )		Unhydrophilic Aluminium	Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	910 x 609 x 40.11	910 x 609 x 40.11
	Number of Circuits		6	6
Outdoor Noise Level		dB(A)	59.5	61
Outdoor Unit	Dimension ( W x D x H )	mm	890 x 342 x 673	890 x 342 x 673
	Packing ( W x D x H )	mm	995 x 398 x 740	995 x 398 x 740
	Net / Gross Weight	Kg	50.7/53.7	52.1/55.1
Refrigerant Type		Kg	R410A / 1.75	R410A / 1.8
Design Pressure		MPa	4.8 / 1.5	4.8 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Φ9.52 ( 3/8" ) / Φ15.9 ( 5/8" )	Φ9.52 ( 3/8" ) / Φ15.9 ( 5/8" )
	Max. Refrigerant Pipe Length	m	25	25
	Max. Level Difference	m	10	10
Connection Wiring			2.5x4	2.5x3 + 0.75x3
Plug Type			2.5x3 / 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	16 ~ 32	17 ~ 32 / 0~ 30
	Outdoor ( Cooling / Heating )	°C	18 ~ 52	18 ~ 52 / -7 ~ 24

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو بلس - جداري - موديل ٣٠  
MANDO PLUS - WALL MOUNTED - MODEL 30



Model			MP-NF23-30C	MP-NF23M-30H
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	220-230V / 1Ph / 60Hz
SEER		Btu/h.W	10.65	10.6
Energy Class			D	D
Cooling ( T1 )	Capacity	Btu/h	28000	27000
	Input	W	2230	2180
	Rated Current	A	9.70	9.67
	EER	Btu/h.W	12.55	12.40
Cooling ( T3 )	Capacity	Btu/h	24000	23800
	Input	W	2652	2615
	Rated Current	A	11.75	11.73
	EER	Btu/h.W	9.05	9.10
Heating	Capacity	Btu/h	/	26444
	Input	W	/	2097
	Rated Current	A	/	9.3
	COP	W/W	/	3.60
Max. Input Consumption		W	3380	3370
Max. Current		A	17.5	17.4
Starting Current		A	60	60
Compressor	Model		ASG235N1SKT	ASG235N1SKT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	24498	24498
	Input	W	2260	2260
	Rated Current ( RLA )	A	9.9	9.9
	Locked Rotor Amp ( LRA )	A	58	58
	Thermal Protector		/	/
	Thermal Protector Position		INTERNAL	INTERNAL
	Capacitor	µF	60	60
Refrigerant Oil / Oil Charge	mL	ESTER OIL VG75/740	ESTER OIL VG75/740	
Indoor Fan Motor	Model		ZKFP-58-8-1-5	ZKFP-58-8-1-5
	Input	W	60.0	60
	Output	W	58	58
	Capacitor	uF	/	/
	Speed ( Turbo / H / M / L )	RPM	1450/1130/1020/950	1450/1130/1020/950
Indoor Coil	Number of Rows		3	3
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	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	965 x 378 x 40.11	965 x 378 x 40.11
	Number of Circuits		7	7
Indoor Air Flow ( Turbo / H / M / L )	m3/h	1580/1410/1310/1175	1580/1340/1235/1100	
Indoor Noise Level ( Turbo / H / M / L )	dB(A)	54/49/45/43	54/49/46/43	
Indoor Unit	Dimension ( W x D x H )	mm	1259x283x362	1259x283x362
	Packing ( W x D x H )	mm	1340x450x385	1340x450x385
	Net / Gross Weight	Kg	19.9 / 25.6	20.3 / 26.1
Outdoor Fan Motor	Model		YKT-60-6-41	YKT-60-6-41
	Input	W	150.0	150.0
	Output	W	60	60
	Capacitor	uF	4	4
	Speed	RPM	910	910
Outdoor Coil	Number of Rows		2.6	3
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	Fin Spacing	mm	1.4	1.4
	Fin Type ( Code )		Unhydrophilic Aluminium	Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	1010 x 756 x 26.74 + 598 x 756 x 13.37	1000 x 756 x 40.11
	Number of Circuits		6	6
Outdoor Noise Level	dB(A)	58.5	57.5	
Outdoor Unit	Dimension ( W x D x H )	mm	946 x 410 x 810	946 x 410 x 810
	Packing ( W x D x H )	mm	1090 x 500 x 885	1090 x 500 x 885
	Net / Gross Weight	Kg	64.2 / 68.5	66.9 / 71.8
Refrigerant Type		R410A / 2.5	R410A / 2.6	
Design Pressure	MPa	4.8 / 1.5	4.8 / 1.5	
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Φ9.52 ( 3/8" ) / Φ19.05 ( 3/4" )	Φ9.52 ( 3/8" ) / Φ19.05 ( 3/4" )
	Max. Refrigerant Pipe Length	m	25	25
	Max. Level Difference	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	16~30	17-30	
Room Temperature	Indoor ( Cooling / Heating )	°C	17-32	17~ 32/0~ 30
	Outdoor ( Cooling / Heating )	°C	18-52	18~ 52/-7~ 24

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو پلس - جداري - موديل ٣٦  
MANDO PLUS - WALL MOUNTED - MODEL 36

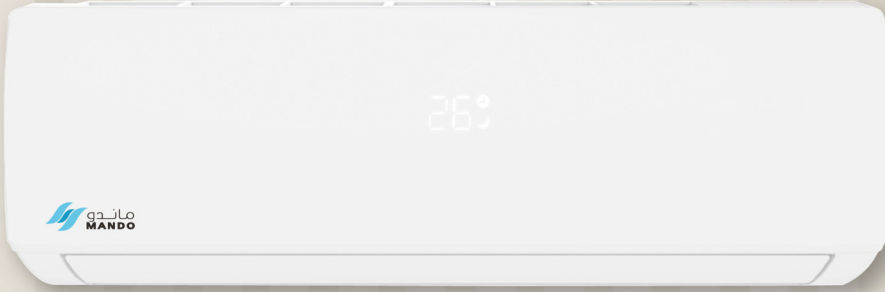


Model		MP-SER-36C	MP-SERM-36H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	10.2	10.2
Energy Class			D	D
Cooling ( T1 )	Capacity	Btu/h	31400	31400
	Input	W	2614	2614
	Rated Current	A	11.6	11.6
	EER	Btu/h.W	12.00	12.00
Cooling ( T3 )	Capacity	Btu/h	26800	26800
	Input	W	3135	3135
	Rated Current	A	13.85	13.85
	EER	Btu/h.W	8.55	8.55
Heating	Capacity	Btu/h	/	29856
	Input	W	/	2465
	Rated Current	A	/	10.9
	COP	W/W	/	3.55
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
	Refrigerant Oil / Oil Charge	mL	880±20	880±20
Indoor Fan Motor	Model		ZKFP-58-8-1-5	ZKFP-58-8-1-5
	Input	W	60.0	60.0
	Output	W	58	58
	Speed ( Turbo / H / M / L )	RPM	1250/1200/1100/1000	1250/1200/1100/1000
Indoor Coil	Number of Rows		3	3
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	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	1040 x 399 x 40.11	1040 x 399 x 40.11
Number of Circuits		7	7	
Indoor Air Flow ( Turbo / H / M / L )		m3/h	1680/1620/1440/1280	1680/1620/1440/1280
Indoor Noise Level ( Turbo / H / M / L )		dB(A)	52/51/48/45	52/51/48/45
Indoor Unit	Dimension ( W x D x H )	mm	1350 x 272 x 365	1350 x 272 x 365
	Packing ( W x D x H )	mm	1475 x 460 x 380	1475 x 460 x 380
	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
	Speed	RPM	940	940
Outdoor Coil	Number of Rows		3.0	3
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	Fin Spacing	mm	1.4	1.4
	Fin Type ( Code )		Unhydrophilic Aluminium	Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	1000 x 756 x 40.11	1000 x 756 x 40.11
Number of Circuits		6	6	
Outdoor Noise Level		dB(A)	61	63
Outdoor Unit	Dimension ( W x D x H )	mm	946 x 410 x 810	946 x 410 x 810
	Packing ( W x D x H )	mm	1090 x 500 x 885	1090 x 500 x 885
	Net / Gross Weight	Kg	68.4 / 73	69.8 / 74.5
Refrigerant Type		Kg	R410A / 2.6	R410A / 2.7
Design Pressure		MPa	4.8 / 1.5	4.8 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Φ9.52 ( 3/8" ) / Φ19.05 ( 3/4" )	Φ9.52 ( 3/8" ) / Φ19.05 ( 3/4" )
	Max. Refrigerant Pipe Length	m	25	25
	Max. Level Difference	m	10	10
Connection Wiring			1.0x4 ( Optional )	1.0x4 ( Optional )
Plug Type			4.0x3 / no-plug	4.0x3 / 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

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

WALL

ماندو - جداري - موديل ١٢  
MANDO - WALL MOUNTED - MODEL 12

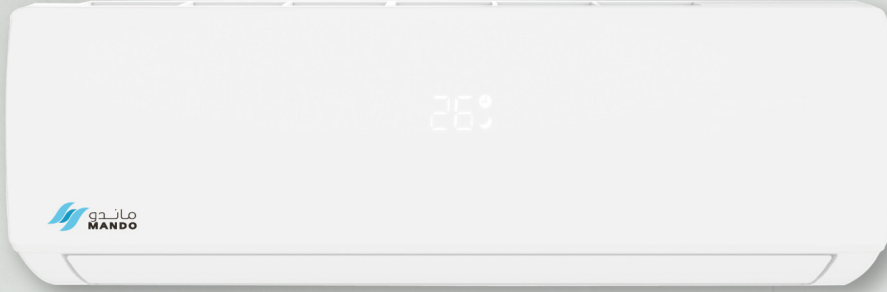


Model			F24TP-12CT	F24TP-12HT
Type			Cooling Only	Heat Pump
Control Type			Remote Controller	Remote Controller
Rated Cooling Capacity ( T1 )		Btu/h	12100 ( 2559 ~ 15354 )	12300 ( 2559 ~ 15013 )
Rated Cooling Capacity ( T1 )		W	3540 ( 750 ~ 4500 )	3600 ( 750 ~ 4400 )
Rated Cooling Capacity ( T1 - half )		Btu/h	5500	6200
Rated Cooling Capacity ( T1 - half )		W	1620	1830
Rated Cooling Capacity ( T3 )		Btu/h	11100 ( 2559 ~ 13648 )	11700 ( 2559 ~ 14330 )
Rated Cooling Capacity ( T3 )		W	3240 ( 750 ~ 4000 )	3420 ( 750 ~ 4200 )
Rated Heating Capacity		Btu/h	/	11942 ( 2559 ~ 16719 )
EER for Cooling ( T1 )		Btu/h.W	12.00	12.50
EER for Cooling ( T1 )		W/W	3.52	3.66
EER for Cooling ( T1 - half )		Btu/h.W	17.10	16.80
EER for Cooling ( T1 - half )		W/W	5.01	4.92
EER for Cooling ( T3 )		Btu/h.W	8.80	9.50
EER for Cooling ( T3 )		W/W	2.58	2.78
COP for Heating		W/W	/	3.45
Annual Energy Consumption		kwh/year	2722	2657
CSEC		kwh	2930	3075
SEER		Btu/h.W	15.00	15.10
SEER Energy Class			B	B
Moisture Removal		Liters/h	1.20	1.20
Pressure	High ( DP )	MPa	4.5	4.5
	Low ( SP )	MPa	1.9	1.9
Indoor Noise Level at Cooling	Super	dB(A)	43	45
	High	dB(A)	41	43
	Med	dB(A)	35	35
	Low	dB(A)	29	29
	Quite	dB(A)	26	27
Outdoor Noise Level		dB(A)	54	53
Climate Type			T3	T3
Power Supply		V / Ph / Hz	230V / 1 Ph / 60Hz	230V / 1 Ph / 60Hz
Voltage Range		V	198 ~ 264	198 ~ 264
Current	Cooling ( T1 )	A	4.6 ( 1.1 ~ 9.0 )	6.6 ( 1.1 ~ 10.0 )
	Cooling ( T1 - half )	A	2.3 ( 1.1 ~ 9.0 )	2.8 ( 1.1 ~ 10.0 )
	Cooling ( T3 )	A	5.6 ( 1.1 ~ 9.0 )	8.2 ( 1.1 ~ 10.0 )
	Heating	A	/	6.8 ( 1.2 ~ 10.0 )
Power Input	Cooling ( T1 )	W	1008 ( 150 ~ 1500 )	984 ( 150 ~ 1600 )
	Cooling ( T1 - half )	W	322 ( 150 ~ 1500 )	369 ( 150 ~ 1600 )
	Cooling ( T3 )	W	1261 ( 150 ~ 1500 )	1232 ( 150 ~ 1600 )
	Heating	W	/	1014 ( 150 ~ 1700 )
Rated Current	Cooling ( T1 )	A	9.0	10.0
	Cooling ( T1 - half )	A	9.0	10.0
	Cooling ( T3 )	A	9.0	10.0
	Heating	A	/	10.0
Rated Power Input	Cooling ( T1 )	W	1500	1600
	Cooling ( T1 - half )	W	1500	1600
	Cooling ( T3 )	W	1500	1600
	Heating	W	/	1700
Refrigerant		kg	R410A	R410A
Compressor	Type		Rotary	Rotary
	Brand		GMCC	GMCC
Evaporator			Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7	Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7
Condenser			Louver or Corrugated Fin ; Inner Groove Tube Type Ø5 or Ø7	Louver or Corrugated Fin ; Inner Groove Tube Type Ø7
Expansion Device			Capillary Tube	Capillary
Defrosting System			Microcomputer controlled	Microcomputer controlled
Fan System			Reverse System	Reverse System
Indoor Air Flow		m <sup>3</sup> /h	750	850/850
Volume ( Cooling / Heating )			Cross Flow	Cross Flow
Indoor Fan Type		Model	DC	DC
Indoor Fan Motor		Brand	WELLING / LT / Tongde	WELLING / Tongde / LT
IndoorFanSpeed (Turbo / SH / H / M / L )	Cooling	RPM	1270/1200/1050/950/800/750/700	1270/1200/950/850/800
	Heating	RPM	/	1270/1200/950/750/700
	Dry	RPM	750	750.00
	Sleep	RPM	750	700 / 800
Outdoor Fan Type			Propeller	Propeller
Outdoor Fan Motor		Model	DC	DC
		Brand	WELLING / LT / Broad-ocean / Tongde	WELLING / Broad~ocean
Outdoor Fan Speed		RPM	1000	1000
Connecting Piping	Gas	Inch	3/8"	3/8"
	Liquid	Inch	1/4"	1/4"
Connecting Wiring	Size x Core Number	mm <sup>2</sup>	4 × 1.0	4 × 0.75
Drainage Pipe		mm	O.D Ø16	O.D Ø16
Others				
Net Dimensions ( W x D x H )	Indoor	mm	920 × 306 × 195	920 × 306 × 195
	Outdoor	mm	795 × 305 × 550	795 × 305 × 550
Net Weight	Indoor	kg	10.0	10.50
	Outdoor	kg	22.0	27.00
Packing Dimensions ( W x D x H )	Indoor	mm	990 × 380 × 265	990 × 380 × 265
	Outdoor (With Piping)	mm	852 × 358 × 610	852 × 358 × 610
Gross Weight	Indoor	kg	12	12
	Outdoor (With Piping)	kg	26	30

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

WALL

ماندو - جداري - موديل ١٨  
MANDO - WALL MOUNTED - MODEL 18

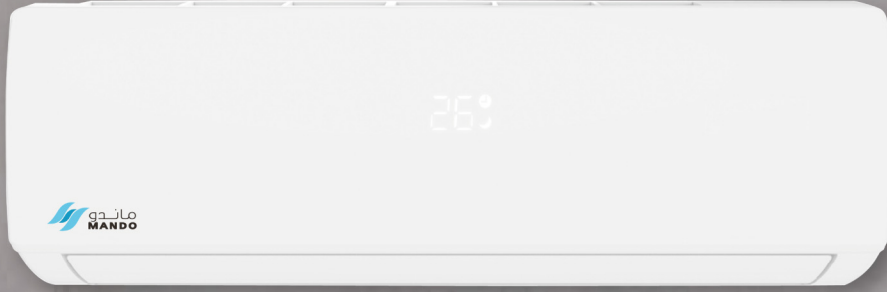


Model			F24TP-18CT	F23TP-18HT
Type			Cooling Only	Heat Pump
Climate Type			T3	T3
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
Voltage Range		V	198 ~ 264	198 ~ 264
Refrigerant		kg	R410A	R410A / 1.23 kg
Cooling ( T1 )	Rated Capacity	Btu/h	18500	18200
	Rated Capacity	kW	5.43	5.34
	EER	Btu/h.W	12.20	12.00
	EER	W/W	3.58	3.52
	Rated Power Input	W	1516	1517
	Rated Current	A	6.9	6.8
	Max. Power Input	W	2400	2400
Cooling ( T3 )	Rated Capacity	Btu/h	16100	16000
	Rated Capacity	kW	4.71	4.68
	EER	Btu/h.W	8.50	8.50
	EER	W/W	2.49	2.49
	Rated Power Input	W	1894	1880
	Rated Current	A	8.5	8.4
	Max. Power Input	W	2400	2400
Heating	Rated Capacity	Btu/h	/	17060
	COP	W/W	/	3.55
	Rated Power Input	W	/	1408
	Rated Current	A	/	6.3
	Max. Power Input	W	/	2000
Indoor Air Flow ( Cooling / Heating )	m <sup>3</sup> /h		1200	1200
Annual Energy Consumption		kwh/year	4093	4096
CSEC		kwh	6205	6237
SEER		Btu/h.W	10.30	10.20
SEER Energy Class			D	D
Pressure	High ( DP )	MPa	4.5	4.5
	Low ( SP )	MPa	1.9	1.9
Indoor Noise Level at Cooling	Super	dB(A)	51	51
	High	dB(A)	47	47
	Med	dB(A)	43	43
	Low	dB(A)	39	40
	Quite	dB(A)	36	37
Outdoor Noise Level		dB(A)	54	54
Net Dimensions ( W x D x H )	Indoor	mm	1100 x 333 x 222	1100 x 333 x 222
	Outdoor	mm	853 x 349 x 602	920 x 380 x 699
Packing Dimensions ( W x D x H )	Indoor	mm	1165 x 405 x 295	1165 x 405 x 295
	Outdoor ( With Piping )	mm	890 x 385 x 628	960 x 430 x 732
Net Weight	Indoor	Kg	14	14
	Outdoor	Kg	34	44
Gross Weight	Indoor	Kg	16	18
	Outdoor ( With Piping )	Kg	38	49
Moisture Removal		Liters/h	1.8	1.8
Compressor	Type		Rotary	Rotary
	Brand		Highly	Highly
Evaporator			Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7	Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7
Condenser			Louver or Corrugated Fin ; Inner Groove Tube Type Ø5	Louver or Corrugated Fin ; Inner Groove Tube Type Ø5
Expansion Device			Capillary Tube	Capillary Tube
Defrosting System			Microcomputer Controlled Reverse System	Microcomputer Controlled Reverse System
Fan System				
Indoor Fan Type			Cross Flow	Cross Flow
Indoor Fan Motor		Brand	WELLING / Broad-ocean / Tongde	WELLING / Broad-ocean / Tongde
Indoor Fan Speed ( Turbo / SH / H / M / L )	Cooling	RPM	1370/1250/1050/850/750	1370/1250/1050/850/750
	Heating	RPM	/	1370/1250/1090/930/850
	Dry	RPM	850	850
	Sleep	RPM	850	930/850
Outdoor Fan Type		Brand	Propeller	Propeller
Outdoor Fan Speed		RPM	1000	890
Connecting Piping	Gas	Inch	1/2"	1/2"
	Liquid	Inch	1/4"	1/4"
	Size x Core Number	mm <sup>2</sup>		2 x 0.75 , 3 x 1.5
Drainage Pipe		mm	O.D Ø16	O.D Ø16

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

WALL

ماندو - جداري - موديل ٢٤  
MANDO - WALL MOUNTED - MODEL 24

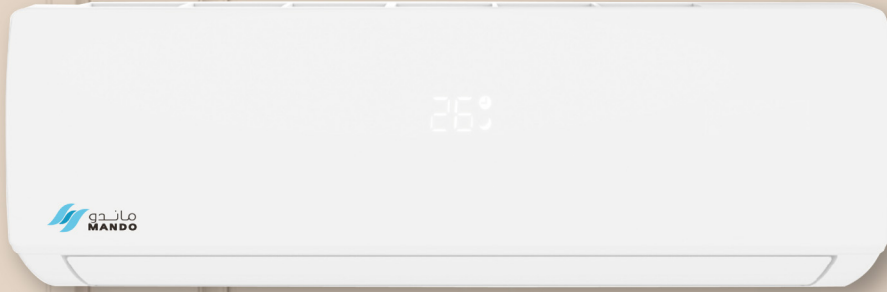


Model			F23TP-24CT	F23TP-24HT
Type			Cooling Only	Heat Pump
Climate Type			T3	T3
Power Supply			230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
Voltage Range			198 ~ 264	198 ~ 264
Refrigerant			R410A / 1.25 kg	R410A / 1.690 kg
Cooling ( T1 )	Rated Capacity	Btu/h	22800	22500
	Rated Capacity	kW	6.69	6.60
	EER	Btu/h.W	11.85	11.85
	EER	W/W	3.47	3.47
	Rated Power Input	W	1924	1899
	Rated Current	A	8.5	8.4
	Max. Power Input	W	3100	3100
	Max. Current	A	14.0	14.0
Cooling ( T3 )	Rated Capacity	Btu/h	19600	19300
	Rated Capacity	kW	5.73	5.67
	EER	Btu/h.W	8.40	8.35
	EER	W/W	2.46	2.35
	Rated Power Input	W	2333	2311
	Rated Current	A	10.4	10.3
	Max. Power Input	W	3100	3100
	Max. Current	A	14.0	14.0
Heating	Rated Capacity	Btu/h	/	23544
	COP	W/W	/	3.40
	Rated Power Input	W	/	2029
	Rated Current	A	/	9.1
	Max. Power Input	W	/	3400
Max. Current	A	/	18.0	
Indoor Air Flow ( Cooling / Heating )			m <sup>3</sup> /h	1300 / 1300
Annual Energy Consumption			kwh/year	5195
CSEC			kwh	7746
SEER			Btu/h.W	10.05
SEER Energy Class			D	D
Pressure	High ( DP )	MPa	4.5	4.5
	Low ( SP )	MPa	1.9	1.9
Indoor Noise Level at Cooling	Super	dB(A)	53	53
	High	dB(A)	50	50
	Med	dB(A)	46	46
	Low	dB(A)	42	42
	Quite	dB(A)	36	36
Outdoor Noise Level			dB(A)	58
Net Dimensions ( W x D x H )	Indoor		1100 × 333 × 222	1100 × 333 × 222
	Outdoor		978 × 421 × 803	978 × 421 × 803
Packing Dimensions ( W x D x H )	Indoor		1165 × 405 × 295	1165 × 405 × 295
	Outdoor ( Without Piping )		1025 × 480 × 840	1025 × 480 × 840
	Outdoor ( With Piping )		1025 × 480 × 840	1025 × 480 × 840
Net weight	Indoor	Kg	15	15
	Outdoor	Kg	50	54
Gross weight	Indoor	Kg	18	18
	Outdoor ( Without Piping )	Kg	51	55
	Outdoor ( With Piping )	Kg	53	58
Moisture Removal			Liters/h	2.1
Compressor	Type		Rotary	Rotary
	Brand		Highly	Highly
Evaporator			Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7	Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7
Condenser			Louver or Corrugated Fin ; Inner Groove Tube Type Ø5	Louver or Corrugated Fin ; Inner Groove Tube Type Ø5
Expansion Device			Capillary Tube	Capillary Tube
Defrosting System			Microcomputer Controlled Reverse System	Microcomputer Controlled Reverse System
Fan System				
Indoor Fan Type			Cross Flow	Cross Flow
Indoor Fan Speed ( Turbo / SH / H / M / L )	Cooling	RPM	1430/1280/1180/1080/980	1430/1280/1180/1080/980
	Heating	RPM	/	1430/1280/1180/1080/980
	Dry	RPM	1080	1080
	Sleep	RPM	1080	1080
Outdoor Fan Type			Propeller	Propeller
Outdoor Fan Speed			RPM	850
Connecting Pipe	Gas	Inch	1/2"	1/2"
	Liquid	Inch	1/4"	1/4"
Connecting Wiring			Size x Core Number	2 × 0.75 , 4 × 0.75
Drainage Pipe			mm	O.D Ø16
Air Flow	Super	CFM	820	820
	High	CFM	765	765
	Med	CFM	665	690
	Low	CFM	565	600
	Quite	CFM	515	555

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

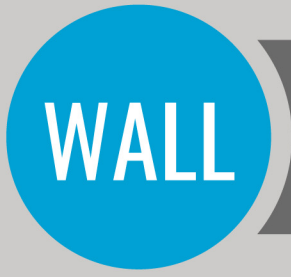
WALL

ماندو - جداري - موديل ٣٠  
MANDO - WALL MOUNTED - MODEL 30

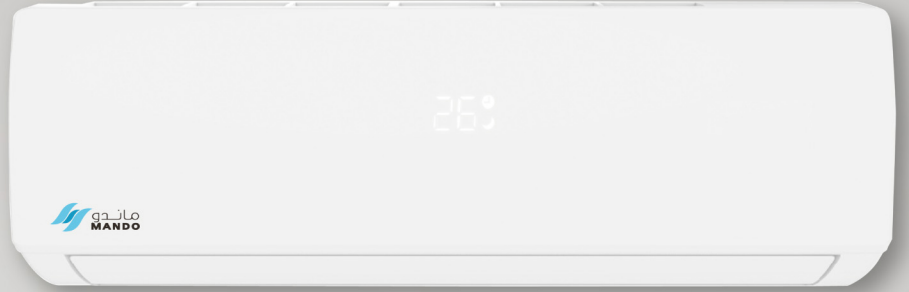


Model			F23M-30CT	F23M-30HT
Type			Cooling Only	Heating Pump
Climate Type			T3	T3
Power Supply			230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
Voltage Range			V	198 ~ 264
Refrigerant			Kg	R410A
Cooling ( T1 )	Rated Capacity	Btu/h	27200	26400
	Rated Capacity	KW	7.95	7.75
	EER	Btu/h.W	12.40	12.15
	EER	W/W	3.63	3.56
	Rated Power Input	W	2194	2173
	Rated Current	A	9.8	9.7
	Max Power Input	W	3300	3300
	Max Current	A	17.9	17.9
Cooling ( T3 )	Rated Capacity	Btu/h	23600	23400
	Rated Capacity	KW	6.93	6.87
	EER	Btu/h.W	8.70	8.70
	EER	W/W	2.55	2.55
	Rated Power Input	W	2713	2690
	Rated Current	A	12.2	12.1
	Max Power Input	W	3300	3300
	Max Current	A	17.9	17.9
Heating	Rated Capacity	W	/	7400
	COP	W/W	/	3.60
	Rated Power Input	W	/	2056
	Rated Current	A	/	9.2
	Max Power Input	W	/	2700
	Max Current	A	/	14.5
Indoor Air Flow ( Cooling / Heating )			m <sup>3</sup> /h	1500 / 1500
Annual Energy Consumption			kwh/year	5924
CSEC			kWh	8983
SEER			Btu/h.W	10.45
SEER Energy Class				D
Pressure	High ( DP )	MPa	4.5	4.5
	Low ( SP )	MPa	1.9	1.9
Indoor Noise Level at Cooling	Super	dB(A)	55	55
	High	dB(A)	52	52
	Med	dB(A)	50	50
	Low	dB(A)	47	47
	Quite	dB(A)	45	45
Outdoor Noise Level			dB(A)	60
Net Dimensions ( W x D x H )	Indoor		1191 x 360 x 258	1191 x 360 x 258
	Outdoor		978 x 421 x 803	978 x 421 x 803
Packing Dimensions ( W x D x H )	Indoor		1262 x 420 x 337	1262 x 420 x 337
	Outdoor ( Without Piping )		1025 x 420 x 840	1025 x 420 x 840
	Outdoor ( With Piping )		1025 x 420 x 840	1025 x 420 x 840
Net Weight	Indoor	Kg	18	18
	Outdoor	Kg	51	52
Gross Weight	Indoor	Kg	22	22
	Outdoor ( Without Piping )	Kg	56	57
	Outdoor ( With Piping )	Kg	59	60
Moisture Removal			Liters/h	2.8
Compressor	Type		Rotary	Rotary
	Brand		GMCC	GMCC
Evaporator			Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7	Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7
Condenser			Louver or Corrugated Fin ; Inner Groove Tube Type Ø5 or Ø7	Louver or Corrugated Fin ; Inner Groove Tube Type Ø5 or Ø7
Expansion Device			Capillary tube	Capillary Tube
Defrosting System			Microcomputer Controlled Reverse System	Microcomputer Controlled Reverse System
Fan System				
Indoor Fan Type			Cross Flow	Cross Flow
Indoor Fan Speed ( Turbo / SH / H / M / L )	Cooling	RPM	1320/1230/1130/1020/950	1320/1230/1130/1020/950
	Heating	RPM	/	1250/1170/1100/1020/950
	Dry	RPM	1020	1020
	Sleep	RPM	1020	1020/1020
Outdoor Fan Type			Propeller	Propeller
Outdoor Fan Speed			RPM	850
Connecting Pipe	Gas	Inch	5/8"	5/8"
	Liquid	Inch	1/4"	1/4"
Drainage Pipe			mm	O.D Ø16

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.



ماندو - جداري - موديل ٣٦  
MANDO - WALL MOUNTED - MODEL 36

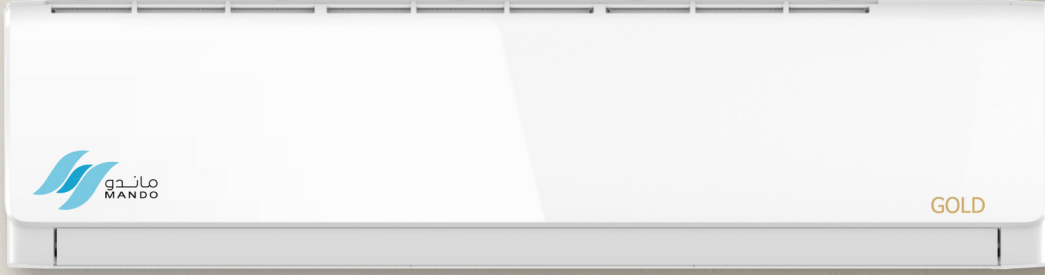


Model			F23M-36CT	F23M-36HT
Type			Cooling Only	Heating Pump
Climate Type			T3	T3
Power Supply			230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
Voltage Range			V	198 ~ 264
Refrigerant			kg	R410A
Cooling ( T1 )	Rated Capacity	Btu/h	28600	28800
	Rated Capacity	kW	8.40	8.45
	EER	Btu/h.W	12.00	12.40
	EER	W/W	3.52	3.63
	Rated Power Input	W	2383	2323
	Rated Current	A	10.6	10.3
	Max Power Input	W	3500	3500
	Max Current	A	18.7	18.7
Cooling ( T3 )	Rated Capacity	Btu/h	24400	24800
	Rated Capacity	kW	7.15	7.25
	EER	Btu/h.W	8.50	8.70
	EER	W/W	2.49	2.55
	Rated Power Input	W	2871	2851
	Rated Current	A	12.9	12.6
	Max Power Input	W	3500	3500
	Max Current	A	18.7	18.7
Heating	Rated Capacity	W	NA	8000
	COP	W/W	NA	3.60
	Rated Power Input	W	NA	2222
	Rated Current	A	NA	9.9
	Max Power Input	W	NA	3000
	Max Current	A	NA	15.5
Indoor Air Flow ( Cooling / Heating )		m <sup>3</sup> /h	1500	1550 / 1600
Annual Energy Consumption		kwh/year	6434	6272
CSEC		kWh	9539	9394
SEER		Btu/h.W	10.15	10.45
SEER Energy Class			D	D
Pressure	High ( DP )	MPa	4.5	4.5
	Low ( SP )	MPa	1.9	1.9
Indoor Noise Level at Cooling	Super	dB(A)	54	53
	High	dB(A)	52	51
	Med	dB(A)	49	49
	Low	dB(A)	46	45
	Quite	dB(A)	44	39
Outdoor Noise Level		dB(A)	59	55
Net Dimensions ( W x D x H )	Indoor	mm	1191 x 360 x 258	1191 x 360 x 258
	Outdoor	mm	978 x 421 x 803	978 x 421 x 803
Packing dimensions ( W x D x H )	Indoor	mm	1262 x 420 x 337	1262 x 420 x 337
	Outdoor (without piping)	mm	1025 x 420 x 840	1025 x 420 x 840
	Outdoor (with piping)	mm	1025 x 420 x 840	1025 x 420 x 840
Net weight	Indoor	Kg	18	18
	Outdoor	Kg	54	63
Gross weight	Indoor	Kg	22	22
	Outdoor (without piping)	Kg	60	68
	Outdoor (with piping)	Kg	63	72
Stuffing qty	40'HQ (without piping)		102	102
	40'HQ (with piping)		102	102
Moisture removal		Liters/h	3.2	3.2
Compressor	Type		Rotary	Rotary
	Brand		Highly	Highly
Evaporator			Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7	Hydrophilic & Louver Fin ; Inner Groove Tube Type Ø7
Condenser			Louver or Corrugated Fin ; Inner Groove Tube Type Ø5 or Ø7	Louver or Corrugated Fin ; Inner Groove Tube Type Ø7
Expansion Device			Capillary Tube	Capillary Tube
Defrosting System			Microcomputer Controlled Reverse System	Microcomputer Controlled Reverse System
Fan System				
Indoor Fan Type			Cross Flow	Cross Flow
Indoor Fan Speed ( Turbo / SH / H / M / L )	Cooling	RPM	1320/1230/1130/1020/950	1320/1230/1130/1020/950
	Heating	RPM	/	1250/1170/1100/1020/950
	Dry	RPM	1020	1020
	Sleep	RPM	1020	1020/1020
Outdoor Fan Type			Propeller	Propeller
Outdoor Fan Speed		RPM	850	850
Connecting Pipe	Gas	Inch	5/8"	5/8"
	Liquid	Inch	1/4"	1/4"
Drainage Pipe		mm	O.D Ø16	O.D Ø16

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

**GOLD**  
INVERTER

ماندو جولد - جداري - موثر للطاقة  
MANDO GOLD - WALL MOUNTED - INVERTER



Technical Specification - MANDO GOLD INVERTER			Model	AU-24INV-12C	AU-24INV-12H	AU-24INV-18C	AU-24INV-18H
	Rated Capacity	Cooling	Btu/h W	T1: 12000 & T3: 10700 T1:3510 & T3: 3150	T1: 12000 & T3: 10700 T1:3510 & T3: 3150	T1: 18000 & T3: 16800 T1: 5280 & T3: 4920	T1: 18000 & T3: 16800 T1: 5280 & T3: 4920
		Heating	W	/	3750 ( 800 - 4400 )	/	5300
	Rated Power Consumption	Cooling	W	T1: 960 & T3: 1230	T1: 960 & T3: 1230	T1: 1450 & T3: 1930	T1: 1450 & T3: 1930
		Heating	W	/	1100 ( 400 - 1450 )	/	1400
	Rated Running Current	Cooling	A	T1: 4.50 & T3: 5.20	T1: 4.50 & T3: 5.20	T1: 6.40 & T3: 8.50	T1: 6.40 & T3: 8.50
		Heating	A	/	4.9 ( 1.8 - 6.4 )		6.3
Max. Input Power			W	1800	1800	2400	2400
Max. Input Current			A	8.5	8.5	13	13
EER Cooling			Btu/h.W	T1: 12.50 & T3: 8.70	T1: 12.50 & T3: 8.70	T1: 12.40 & T3: 8.70	T1: 12.40 & T3: 8.70
COP Heating			W/W	/	3.40	/	3.80
Rating Label	SEER		Btu/h.W	15.85	15.75	15.30	15.30
Power Supply Source			V/Ph/Hz	230V/1Ph/60Hz	230V/1Ph/60Hz	230V/1Ph/60Hz	230V/1Ph/60Hz
Refrigerant			/	R410A	R410A	R410A	R410A
Refrigerant Charged			Kg	0.75	0.78	0.93	1
Max. Discharge Pressure			Mpa	4.3	4.3	4.3	4.3
Max. Suction Pressure			Mpa	1.15	1.15	1.15	1.15
Air Flow			m3/h / CFM	650 / 382	650 / 382	1250 / 735	1250 / 735
Indoor Noise Level			dB (A)	43	43/40/36/32	51	49
Outdoor Noise Level			dB (A)	54	54	56	56
Indoor Unit Weight ( Net)			Kg	8.5	8.5	13.5	13
Outdoor Unit Weight ( Net)			Kg	26	27	30	31
Evaporator Bend			/	3	3	3	3
Evaporator Row			/	2	2	2	2
Indoor Unit	Evaporator Pipe Diameter		mm	Φ5	Φ5	Φ7	Φ7
	Indoor Fan Motor		/	D-13-10L	D-13-10L	D-310-50-10A	D-310-50-10A
Dimension	Net Dimension ( W x H x D )		mm	827 x 299 x 200	827 x 299 x 200	1121 x 329 x 231	1121 x 329 x 231
	Packing ( W x H x D )		mm	891 x 371 x 282	891 x 371 x 282	1210 x 400 x 327	1210 x 400 x 327
Refrigerant Pipe			Liquid Side	Inch	1/4"	1/4"	1/4"
			Gas Side	Inch	1/2"	1/2"	1/2"
Compressor Brand			/	GMCC	GMCC	GMCC	GMCC
Compressor Model			/	KSN98	KSN98	KSN140D	KSN140
Outdoor Fan Motor			/	D-40-10L	D-40-10L	D-60-10M	D-60-10M
Outdoor Unit	Condenser Rows		/	2	2	2	2
	Condenser Pipe Diameter		mm	Φ5	Φ5 ~	Φ5	Φ5
Dimension	Net Dimension ( W x H x D )		mm	785 x 555 x 300	785 x 555 x 300	830 x 655 x 315	825 x 655 x 335
	Packing ( W x H x D )		mm	888 x 590 x 367	888 x 590 x 367	945 x 715 x 400	985 x 695 x 400

**GOLD**  
INVERTER

ماندو جولد - جداري - موثر للطاقة  
MANDO GOLD - WALL MOUNTED - INVERTER



Technical Specification - MANDO GOLD INVERTER			Model	AU-24INV-24C	AU-24INV-24H	AU-24INV-30C	AU-24INV-30H	AU-24INV-36C	AU-24INV-36H
Rated Capacity	Cooling	Btu/hr W	T1: 22000 & T3: 18700 T1: 6450 & T3: 5490	T1: 21200 & T3: 19100 T1: 6210 & T3: 5610	T1: 27400 & T3: 24800 T1: 8050 & T3: 7250	T1: 27400 & T3: 24800 T1: 8050 & T3: 7250	T1: 31400 & T3: 26000 T1: 9200 & T3: 7600	T1: 31400 & T3: 26000 T1: 9200 & T3: 7600	
	Heating	W	/	6950 (2000-7200)	/	8050	/	9400	
Rated Power Consumption	Cooling	W	T1: 1770 & T3: 2190	T1: 1710 & T3: 2250	T1: 2220 & T3: 2950	T1: 2220 & T3: 2950	T1: 2540 & T3: 3050	T1: 2540 & T3: 3000	
	Heating	W	/	2200 (400-2500)	/	2130	/	2600	
Rated Running Current	Cooling	A	T1: 8.00 & T3: 9.00	T1: 7.5 & T3: 10.00	T1: 9.50 & T3: 12.50	T1: 9.50 & T3: 12.50	T1: 10.00 & T3: 13.00	T1: 10.00 & T3: 13.00	
	Heating	A	/	9.7 (1.8 - 11.5)	/	12.5	/	11	
Max. Input Power		W	3200	3500	3600	3600	3800	3800	
Max. Input Current		A	16	16	18	18	18	18	
EER Cooling		Btu/h.W	T1: 12.45 & T3: 8.55	T1: 12.40 & T3: 8.50	T1: 12.35 & T3: 8.40	T1: 12.35 & T3: 8.40	T1: 12.35 & T3: 8.65	T1: 12.35 & T3: 8.65	
COP Heating		WW	/	3.15	/	3.8	/	3.60	
Rating Label	SEER	Btu/h.W	15.05	15.05	15.10	15.10	15.00	15.00	
Power Supply Source		V/Ph/Hz	230V/1Ph/60Hz	230V/1Ph/60Hz	230V/1Ph/60Hz	230V/1Ph/60Hz	230V/1Ph/60Hz	230V/1Ph/60Hz	
Refrigerant		/	R410A	R410A	R410A	R410A	R410A	R410A	
Refrigerant Charged		Kg	1.25	1.46	2.47	2.6	2.55	2.85	
Max. Discharge Pressure		Mpa	4.3	4.3	4.3	4.3	4.3	4.3	
Max. Suction Pressure		Mpa	1.15	1.15	1.15	1.15	1.15	1.15	
Air Flow		m <sup>3</sup> /h / CFM	1300 / 765	1300 / 765	2000 / 1177	2000 / 1177	2100 / 1235	2100 / 1235	
Indoor Noise Level		dB (A)	51/47/43/39	50/47/43/39	53	53	53	53	
Outdoor Noise Level		dB (A)	59	58	58	58	60	60	
Indoor Unit Weight ( Net)		Kg	13	13.5	20	20	20	20	
Outdoor Unit Weight ( Net)		Kg	38	41.5	44	46	58	61	
Evaporator Bend		/	3	3	3	3	3	3	
Evaporator Row		/	2	2	2	2	2	2	
Indoor Unit	Evaporator Pipe Diameter	mm	Φ7	Φ7	Φ7	Φ7	Φ7	Φ7	
	Indoor Fan Motor	/	D-310-50-10A	D-310-50-10A	D-310-70-10A	D-310-70-10A	D-310-70-10A	D-310-70-10A	
	Dimension	Net Dimension (W x H x D)	mm	1140 x 334 x 229	1140 x 334 x 229	1460 x 270 x 375	1460 x 270 x 375	1460 x 270 x 375	1460 x 270 x 375
Packing (W x H x D)		mm	1210 x 400 x 327	1210 x 400 x 327	1555 x 460 x 377	1555 x 460 x 377	1555 x 460 x 377	1555 x 460 x 377	
Refrigerant Pipe		Liquid Side	Inch	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"
		Gas Side	Inch	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Compressor Brand		/	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	
Compressor Model		/	KTN210	KTN210	KTM240	KTM240	KTM240	KTM240	
Outdoor Fan Motor		/	D-65-10L	D-65-10A	D-65-10L AL	D-65-10L AL	D-90-8	D-90-8	
Outdoor Unit	Condenser Rows	/	2	2	3	3	3	3	
	Condenser Pipe Diameter	mm	Φ5	Φ7	Φ7	Φ7	Φ7	Φ7	
Dimension	Net Dimension (W x H x D)	mm	900 x 700 x 350	900 x 700 x 350	900 x 700 x 350	900 x 700 x 350	970 x 805 x 395	970 x 805 x 395	
	Packing (W x H x D)	mm	1015 x 762 x 425	1015 x 762 x 425	1020 x 770 x 430	1020 x 770 x 430	1105 x 890 x 495	1105 x 890 x 495	

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

# WINDOW

## ماندو شباك - موديل ١٨ MANDO WINDOW - MODEL 18

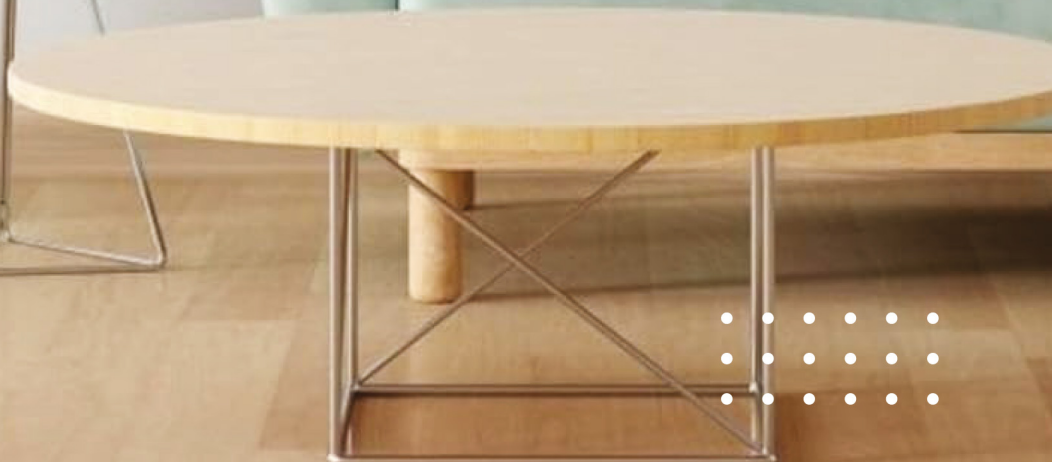


Model			W21-18C	W21-18H
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	8.7	8.7
Energy Class			F	F
Cooling ( T1 )	Capacity	Btu/h	18000	17700
	Input	W	1765	1735
	Current	A	7.96	7.79
	EER	Btu/h.W	10.20	10.20
Cooling ( T3 )	Capacity	Btu/h	15500	15500
	Input	W	2095	2095
	Current	A	9.30	9.30
	EER	Btu/h.W	7.40	7.40
Heating	Capacity	Btu/h	/	10066
	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	38	38
Compressor	Model		ASF170N1SETB3	ASF170N1SETB3
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	17469	17469
	Input	W	1600	1600
	Rated Current ( RLA )	A	7.1	7.1
	Locked Rotor Amp( LRA )	A	38	38
	Thermal Protector		/	/
	Thermal Protector Position		INTERNAL	INTERNAL
	Capacitor	uF	50	50
	Refrigerant Oil / Oil Charge	ml	VG75 /410	VG75 /410
Fan Motor	Model		YKTS-110-6-7	YKTS-110-6-7
	Input	W	210.0	210.0
	Capacitor	uF	8	8
	Speed ( H / M / L )	RPM	890/790/700	890/790/700
Evaporator	Number of Rows		3	3
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37	21x13.37
	Fin Spacing	mm	1.2	1.2
	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	390 x 378 x 40.11	390 x 378 x 40.11
	Number of Circuits		4	4
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	760 / 660 / 570	717 / 640 / 545
Indoor Noise Level ( H / M / L )		dB(A)	55 / 52 / 50	56 / 55 / 54
Condenser	Number of Rows		2	2
	Tube Pitch (a) x Row Pitch (b)	mm	19.5 x 11.6	19.5 x 11.6
	Fin Spacing	mm	1.2	1.2
	Fin Type ( Code )		Unhydrophilic Aluminium	Unhydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Φ5 , Inner Groove Tube	Φ5 , Inner Groove Tube
	Coil Length x Height x Width	mm	688 x 390 x 23.2	688 x 390 x 23.2
	Number of Circuits		4	4
Outdoor Noise Level		dB(A)	64	65
Refrigerant Type		Kg	R410A / 0.72	R410A / 0.72
Design Pressure		MPa	4.8 / 1.5	4.8 / 1.5
Plug Type			No - Plug	No - Plug
Control Type			Mechanical Control	Mechanical Control
Operation Temp.	Indoor ( Cooling / Heating )	°C	17 - 35	17 - 35 / 0 - 27
	Outdoor ( Cooling / Heating )	°C	18 - 52	18 - 52
Dimension ( W x D x H )		mm	680 x 660 x 428	680 x 660 x 428
Packing ( W x D x H )		mm	815 x 746 x 515	815 x 746 x 515
Net / Gross Weight		Kg	53.1 / 57.2	53.7 / 57.6

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

WINDOW

ماندو شباك - موديل ٢٤  
MANDO WINDOW - MODEL 24



Model			W21-24C	W21-24H
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	8.65	8.65
Energy Class			F	F
Cooling ( T1 )	Capacity	Btu/h	21000	20800
	Input	W	2058	2040
	Current	A	8.95	8.87
	EER	Btu/h.W	10.20	10.20
Cooling ( T3 )	Capacity	Btu/h	17800	17700
	Input	W	2438	2424
	Current	A	10.60	10.54
	EER	Btu/h.W	7.30	7.30
Heating	Capacity	Btu/h	/	10407
	Input	W	/	3590
	Current	A	/	15.60
	COP	W/W	/	0.85
Moisture Removal		L/h	2.2	2.2
Rated Input Consumption		W	3100	3590
Rated Current		A	15.20	15.60
Starting Current		A	50	50
Compressor	Model		ASG195N1SKT	ASG195N1SKT
	Type		ROTARY	ROTARY
	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	45	45
	Refrigerant Oil / Oil Charge	ml	ESTER OIL VG75 /610	ESTER OIL VG75 /610
Fan Motor	Model		YKSS-200-6-26L-1	YKSS-200-6-26L-1
	Input	W	260	260
	Capacitor	uF	10	10
	Speed ( H / M / L )	RPM	1125 / 1065 / 1010	1125 / 1065 / 1010
Evaporator	Number of Rows		4	4
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	21 x 13.37
	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	390 x 378 x 53.48	390 x 378 x 53.48
	Number of Circuits		4	4
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	895 / 845 / 775	850 / 800 / 750
Indoor Noise Level ( H / M / L )		dB(A)	59.5 / 57.5 / 56	60 / 59 / 58
Condenser	Number of Rows		2	2
	Tube Pitch (a) x Row Pitch (b)	mm	14.5 x 12.56	14.5 x 12.56
	Fin Spacing	mm	1.2	1.2
	Fin Type ( Code )		Unhydrophilic Aluminium	Unhydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Φ5 , Inner Groove Tube	Φ5 , Inner Groove Tube
	Coil Length x Height x Width	mm	845 x 406 x 25.12	845 x 406 x 25.12
	Number of Circuits		4	4
Outdoor Noise Level		dB(A)	66	66
Refrigerant Type		Kg	R410A / 1.010	R410A / 1.010
Design Pressure		MPa	4.8 / 1.5	4.8 / 1.5
Plug Type			No - Plug	No - Plug
Control Type			Mechanical Control	Mechanical Control
Operation Temp.	Indoor ( Cooling / Heating )	°C	17 - 35	17 - 35 / 0 - 27
	Outdoor ( Cooling / Heating )	°C	18 - 52	18 - 52
Dimension ( W x D x H )		mm	780 x 660 x 428	780 x 660 x 428
Packing ( W x D x H )		mm	915 x 770 x 510	915 x 770 x 510
Net / Gross Weight		Kg	62.1 / 66.3	62.8 / 67

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو بلس - دولابي موديل ٤٨  
MANDO PLUS - FLOOR STAND MODEL 48



Model		FS-VR23-48HDT	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	12.65
Energy Class			C
Cooling ( T1 )	Capacity	Btu/h	42000
	Input	W	3415
	Rated Current	A	15.20
	EER	Btu/h.W	12.30
Cooling ( T3 )	Capacity	Btu/h	33000
	Input	W	3793
	Rated Current	A	16.50
	EER	Btu/h.W	8.70
Heating	Capacity	Btu/h	53741
	Input	W	4500
	Rated Current	A	19.50
	COP	W/W	3.50
Max. Input Consumption		W	6000
Max. Current		A	27
Starting Current		A	/
Compressor	Model		ATQ420D1SN5A1
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	44220
	Input	W	3485
	Rated Current ( RLA )	A	7.0
	Locked Rotor Amp ( LRA )	A	/
	Thermal Protector		/
	Thermal Protector Position		INTERNAL
	Capacitor	uF	/
	Refrigerant Oil / Oil Charge	ml	VG74/1500
Indoor Fan Motor	Model		ZKFN-200-8-1
	Input	W	210
	Output	W	200
	Capacitor	uF	/
	Speed ( H / M / L )	RPM	540 / 500 / 460
Indoor Coil	Number of Rows		3.0
	Tube Pitch (a) x Row Pitch (b)	mm	25.4 x 22
	Fin Spacing	mm	1.4
	Fin Type ( Code )		Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ9.52 , Inner Groove Tube
	Coil Length x Height x Width	mm	510 x 864 x 668
Number of Circuits			
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	2400 / 2200 / 2000
Indoor Noise Level ( H / M / L )		dB(A)	53 / 52 / 50
Indoor Unit	Dimension ( W x D x H )	mm	629 x 456 x 1935
	Packing ( W x D x H )	mm	750 x 575 x 2055
	Net / Gross Weight	Kg	58.2 / 76.9
Outdoor Fan Motor	Model		ZKFN-85-8-22-5 + ZKFN-85-8-22-5
	Input	W	126
	Output	W	85
	Capacitor	uF	/
	Speed	RPM	900 / 750
Outdoor Coil	Number of Rows		3
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.3
	Fin Type ( Code )		Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	985 x 1260 x 40.11
Number of Circuits		14	
Outdoor Noise Level		dB(A)	64
Outdoor Unit	Dimension ( W x D x H )	mm	952 x 415 x 1333
	Packing ( W x D x H )	mm	1095 x 495 x 1480
	Net / Gross Weight	Kg	97.4 / 111.5
Refrigerant Type		Kg	R410A / 4.3
Design Pressure		MPa	4.8 / 1.5
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	Φ9.52 ( 3/8" ) / Φ22.23 ( 7/8" )
	Max. Refrigerant Pipe Length	m	50
	Max. Level Difference	m	30
Connection Wiring			3x1.0 + 2x0.2
Plug Type			3 x 6.0
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

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو بلس - دولابي موديل ٦٠  
MANDO PLUS - FLOOR STAND MODEL 60



Model		FS-VR20-60CDT	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	10.45
Energy Class			D
Cooling ( T1 )	Capacity	Btu/h	51000
	Input	W	4113
	Rated Current	A	18.33
	EER	Btu/h.W	12.40
Cooling ( T3 )	Capacity	Btu/h	43000
	Input	W	5000
	Rated current	A	22.21
	EER	Btu/h.W	8.60
Heating	Capacity	W	/
	Input	W	/
	Rated Current	A	/
	COP	W/W	/
Max. Input Consumption		W	6600
Max. Current		A	35
Starting Current		A	120
Compressor	Model		ABT048KTA
	Type		SCROLL
	Brand		LG
	Capacity	Btu/h	48000
	Input	W	4444
	Rated Current ( RLA )	A	19.50
	Locked Rotor Amp ( LRA )	A	120
	Thermal Protector		/
	Thermal Protector Position		INTERNAL
	Capacitor	uF	70
Refrigerant Oil / Oil Charge	ml	POE/1360	
Indoor Fan Motor	Model		ZKFN-200-8-1
	Input	W	210
	Output	W	200
	Capacitor	uF	/
	Speed ( H / M / L )	RPM	530 / 490 / 460
Indoor Coil	Number of Rows		3
	Tube Pitch (a) x Row Pitch (b)	mm	25.4 x 22
	Fin Spacing	mm	1.4
	Fin Type ( Code )		Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ9.52 , Inner Groove Tube
	Coil Length x Height x Width	mm	510 x 864 x 66
Number of Circuits		8	
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	2430 / 2230 / 2065
Indoor Noise Level ( H / M / L )		dB(A)	52 / 50 / 49
Indoor Unit	Dimension ( W x D x H )	mm	629 x 456 x 1935
	Packing ( W x D x H )	mm	750 x 575 x 2055
	Net / Gross Weight	Kg	58.8 / 78.8
Outdoor Fan Motor	Model		ZKSP-170-8-1(WZDK170-38G-1)
	Input	W	170
	Output	W	
	Capacitor	uF	/
	Speed	RPM	850
Outdoor Coil	Number of Rows		3
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37
	Fin Spacing	mm	1.3
	Fin Type ( Code )		Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	1080 x 756 x 40.11
Number of Circuits		8	
Outdoor Noise Level		dB(A)	65
Outdoor Unit	Dimension ( W x D x H )	mm	1120 x 528 x 1558
	Packing ( W x D x H )	mm	1270 x 575 x 1700
	Net / Gross Weight	Kg	130.8 / 148.1
Refrigerant Type		Kg	R410A / 4.8
Design Pressure		MPa	4.8 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Φ9.52 ( 3/8" ) / Φ22.23 ( 7/8" )
	Max. Refrigerant Pipe Length	m	50
	Max. Level Difference	m	30
Connection Wiring			1.0x4
Plug Type			6.0x3
Thermostat Type			Remote Control
Operation Temperature		°C	17 ~ 30
Room Temperature	Indoor ( Cooling / Heating )	°C	17 ~ 32
	Outdoor ( Cooling / Heating )	°C	18 ~ 52

Note: (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو پلس - کاسیت مودیل ۱۸  
MANDO PLUS - CASSETTE MODEL 18





Model CST Indoor Unit		CST-NV24-18H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	13.3
Energy Class			C
Cooling ( T1 )	Capacity	Btu/h	18200 (~21000)
	Input	W	1433
	Current	A	6.55
	EER	Btu/h.W	12.700
Cooling ( T3 )	Capacity	Btu/h	15700
	Input	W	1754
	Current	A	7.8
	EER	Btu/h.W	8.95
Heating	Capacity	Btu/h	18118
	Input	W	1415
	Current	A	6.2
	COP	W/W	3.75
Indoor Fan Motor	New Model Name		/
	Type		ZKFN-125-8-1
	Qty		1
	Input	W	157
	Output	W	125
	Capacitor	uF	/
	Speed ( H / M / L )	RPM	502 / 453 / 403
Indoor Coil	Number of Rows		2
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37
	Fin Spacing	mm	1.3
	Fin Type ( Code )		Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Ø7 , Inner Groove Tube
	Coil Length x Height x Width	mm	2135 x 210 x 26.74
	Number of Circuits		5
Indoor Air Flow ( H / M / L )		m³/h	1225 / 1100 / 945
Indoor Air Flow ( H / M / L )		CFM	722 / 647 / 556
Indoor Noise Level ( H / M / L )		dB(A)	42 / 40 / 38
Indoor Unit	Dimension ( W x H x D ) ( Body )	mm	830 x 830 x 245
	Packing ( W x H x D ) ( Body )	mm	910 x 910 x 290
	Dimension ( W x H x D ) ( Panel )	mm	950 x 950 x 55
	Packing ( W x H x D ) ( Panel )	mm	1035 x 1035 x 90
	Net / Gross Weight ( Body )	kg	24.3 / 28.9
	Net / Gross Weight ( Panel )	kg	6 / 9
Design Pressure		MPa	4.8 / 1.5
Drainage Water Pipe Dia.		mm	OD Ø25
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Ø6.35 ( 1/4" ) / Ø12.7 ( 1/2" )
Controller			( Remote Control )
Operation Temperature		°C	17 ~ 30
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

Model CST Outdoor Unit		CST-NV24-18H	
Power Supply		V / Ph / Hz	230V / 1P / 60Hz
Max. Input Consumption		W	2310
Max. Input Current		A	11.5
Compressor	Model		ASN140D35TFZ
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	14245.1
	Input	W	1085
	Rated Current ( RLA )	A	7.6
	Thermal Protector Position		INTERNAL
	Capacitor	µF	INTERNAL
	Refrigerant Oil	ml	VG75-440
Outdoor Fan Motor	Model		ZKFN-80-8-3
	Input	W	88.0
	Output	W	80
	Speed	RPM	800 / 700 / 550
Outdoor coil	Number of Rows		2.6
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.3
	Fin Type		Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Ø7 , Inner Groove Tube
	Coil Length x Height x Width	mm	900 x 609 x 26.74 + 540 x 609 x 13.37
	Number of Circuits		6
Outdoor Noise Level ( Sound Pressure )		dB(A)	58.5
Throttle Type			EEV
Outdoor Unit	Dimension ( W x D x H )	mm	890 x 342 x 673
	Packing ( W x D x H )	mm	995 x 435 x 750
	Net/Gross Weight	kg	41 / 44.3
Refrigerant Type / Quantity	Type		R410A
	Charged Volume	kg	2
Design Pressure		MPa	4.8 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Ø6.35 ( 1/4" ) / Ø12.7 ( 1/2" )
	Max. Pipe Length	m	25
	Max. Level Difference	m	15
Ambient Temperature	Cooling	°C	0 ~ 52
	Heating	°C	-15 ~ 24

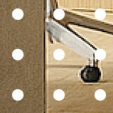
Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS

ماندو بلس - کاسیت مودیل ۲۴  
MANDO PLUS - CASSETTE MODEL 24





Model CST Indoor Unit		CST-NV24-24H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	13.9
Energy Class			C
Cooling ( T1 )	Capacity	Btu/h	21600 ( ~29600 )
	Input	W	1735
	Current	A	7.55
	EER	Btu/h.W	12.450
Cooling ( T3 )	Capacity	Btu/h	18900
	Input	W	2216
	Current	A	9.60
	EER	Btu/h.W	8.55
Heating	Capacity	Btu/h	24567
	Input	W	1800
	Current	A	7.70
	COP	W/W	4.01
Indoor Fan Motor	New Model Name		/
	Type		ZKFN-125-8-1
	Qty		1
	Input	W	157
	Output	W	125
	Capacitor	uF	/
	Speed ( H / M / L )	RPM	600 / 550 / 500
Indoor Coil	Number of Rows		2
	Tube Pitch (a) x Row Pitch(b)	mm	21x13.37
	Fin Spacing	mm	1.3
	Fin Type ( Code )		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Ø7 , Inner Groove Tube
	Coil Length x Height x Width	mm	2135 x 210 x 26.74
	Number of Circuits		5
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	1490 / 1340 / 1210
Indoor Air Flow ( H / M / L )		CFM	878 / 790 / 713
Indoor Noise Level ( H / M / L )		dB(A)	47.5 / 45 / 43
Indoor Unit	Dimension ( W x H x D ) ( Body )	mm	830 x 830 x 245
	Packing ( W x H x D ) ( Body )	mm	910 x 910 x 290
	Dimension ( W x H x D ) ( Panel )	mm	950 x 950 x 55
	Packing ( W x H x D ) ( Panel )	mm	1035 x 1035 x 90
	Net / Gross Weight ( Body )	kg	24.5 / 29.2
	Net / Gross Weight ( Panel )	kg	6 / 9
Design Pressure		MPa	4.8 / 1.5
Drainage Water Pipe Dia.		mm	OD Ø25
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	Ø9.52 ( 3/8" ) / Ø15.9 ( 5/8" )
Controller			(Remote Control)
Operation Temperature		°C	17 ~ 30
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

Model CST Outdoor Unit		CST-NV24-24H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
Max. Input Consumption		W	3200
Max. Input Current		A	14
Compressor	Model		ATF235D22TMT
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	24345.0
	Input	W	1970.0
	Rated Current ( RLA )	A	9
	Thermal Protector Position		INTERNAL
	Capacitor	µF	INTERNAL
	Refrigerant Oil	ml	RB75EA/670
Outdoor Fan Motor	Model		ZKFN-120-8-2
	Input	W	150.0
	Output	W	120
	Speed	RPM	810 / 700 / 450
Outdoor Coil	Number of Rows		2.60
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.4
	Fin Type		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Ø7 , Inner Groove Tube
	Coil Length x Height x Width	mm	1005 x 756 x 26.74 + 598 x 756 x 13.37
	Number of Circuits		6
Outdoor Noise Level		dB(A)	58
Throttle Type			EEV
Outdoor Unit	Dimension ( W x D x H )	mm	946 x 410 x 810
	Packing ( W x D x H )	mm	1090 x 500 x 875
	Net / Gross Weight	kg	58.6 / 63.2
Refrigerant Type / Quantity	Type		R410A
	Charged Volume	kg	2.2
Design Pressure		MPa	4.8 / 1.5
Refrigerant Piping	Liquid side/ Gas side	mm ( Inch )	Ø9.52 ( 3/8" ) / Ø15.9 ( 5/8" )
	Max. Pipe Length	m	25
	Max. Level Difference	m	15
Ambient Temperature	Cooling	°C	0 ~ 52
	Heating	°C	-15 ~ 24
Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.			

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.



ماندو بلس - کاسیت مودیل ۳۶  
MANDO PLUS - CASSETTE MODEL 36





Model CST Indoor Unit		CST-NV24-36H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	13.55
Energy Class			C
Cooling ( T1 )	Capacity	Btu/h	35800
	Input	W	2864
	Current	A	12.70
	EER	Btu/h.W	12.50
Cooling ( T3 )	Capacity	Btu/h	31600
	Input	W	3511
	Current	A	16.2
	EER	Btu/h.W	9.0
Heating	Capacity	Btu/h	47088
	Input	W	4182
	Current	A	19.1
	COP	W/W	3.30
Indoor Fan Motor	New Model Name		/
	Type		ZKFN-220-8-2
	Qty		1
	Input	W	274.0
	Output	W	220
	Capacitor	uF	/
	Speed ( H / M / L )	RPM	740 / 680 / 620
Indoor Coil	Number of Rows		3
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.4
	Fin Type (code)		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Ø7, Inner groove tube
	Coil Length x Height x Width	mm	1125 x 252 x 40.11 + 1125 x 252 x 40.11
	Number of Circuits		10
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	2300 / 2100 / 1900
Indoor Air Flow ( H / M / L )		CFM	1353 / 1235 / 1118
Indoor Noise Level ( H / M / L )		dB(A)	56.5 / 54.5 / 52.5
Indoor Unit	Dimension ( W x H x D ) ( Body )	mm	910 x 910 x 287
	Packing ( W x H x D ) ( Body )	mm	1015 x 1015 x 322
	Dimension ( W x H x D ) ( Panel )	mm	1020 x 1020 x 50
	Packing ( W x H x D ) ( Panel )	mm	1115 x 1115 x 107
	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	OD Ø32
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Ø9.52 ( 3/8" ) / Ø19.05 ( 3/4" )
Controller			Remote control
Operation Temperature		°C	17 ~ 30
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

Model CST Outdoor Unit		CST-NV24-36H	
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	44220.0
	Input	W	3485.0
	Rated Current ( RLA )	A	7
	Thermal Protector Position		INTERNAL
	Capacitor	µF	/
	Refrigerant Oil	ml	VG74 / 1400
	Outdoor Fan Motor	Model	
Input		W	126.0
Output		W	85
Speed		RPM	900 / 850 / 800
Outdoor Coil	Number of Rows		3.00
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37
	Fin Spacing	mm	1
	Fin Type		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Ø7 , Inner Groove Tube
	Coil Length x Height x Width	mm	985 x 1260 x 40.11
	Number of Circuits		14
Outdoor Noise Level		dB(A)	64
Throttle Type			EEV
Outdoor Unit	Dimension ( W x D x H )	mm	952 x 415 x 1333
	Packing ( W x D x H )	mm	1095 x 495 x 1480
	Net / Gross Weight	kg	97.2 / 110.2
Refrigerant ( Type / Quantity )	Type		R410a
	Charged Volume	kg	4
Design pressure		MPa	4.8 / 1.5
Refrigerant piping	Liquid Side / Gas Side	mm ( Inch )	Ø9.52 ( 3/8" ) / Ø19.05 ( 3/4" )
	Max. pipe length	m	50
	Max. difference in level	m	30
Ambient temperature	Cooling	°C	0 ~ 52
	Heating	°C	-15 ~ 24

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

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

**PLUS**  
R32

ماندو بلس - كاسيت R32 - موديل 48  
MANDO PLUS - CASSETTE R32 - MODEL 48





Model Indoor Unit		CST-NV24-48H		
Power Supply	V / Ph / Hz	230V / 1Ph / 60Hz		
SEER	Btu/h.W	14.3		
Energy Class		C		
Cooling(T1)	Capacity	Btu/h	41000	
	Input	W	3310	
	Current	A	14.80	
	EER	Btu/h.W	12.40	
Cooling(T3)	Capacity	Btu/h	38600	
	Input	W	4270	
	Current	A	18.8	
	EER	Btu/h.W	9.1	
Heating	Capacity	Btu/h	48790	
	Input	W	4150	
	Current	A	18.6	
	COP	W/W	3.45	
Indoor Fan Motor	Type	ZKFN-220-8-2		
	Qty	1		
	Input	W	274	
	Output	W	220	
	Speed ( H / M / L )	RPM	720 / 640 / 560	
Indoor Coil	Number of Rows	3		
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37	
	Fin Spacing	mm	1.4	
	Fin Type ( Code )	Hydrophilic aluminum		
	Tube Outside Dia. and Type	mm	Φ7, Inner Groove Tube	
	Coil Length x Height x Width	mm	1125 x 252 x 40.11	
	Number of Circuits	10		
Indoor Air Flow ( H / M / L )	CFM	1294 / 1176 / 1059		
	m <sup>3</sup> /h	2200 / 2000 / 1800		
Indoor Noise Level ( H / M / L )	dB(A)	55 / 53 / 51		
Indoor Unit	Dimension (W x H x D)(Body)	mm	910 x 910 x 287	
	Packing (W x H x D)(Body)	mm	1015 x 1015 x 322	
	Dimension (W x H x D)(Panel)	mm	1020 x 1020 x 50	
	Packing (W x H x D)(Panel)	mm	1115 x 1115 x 107	
	Net / Gross Weight (Body)	kg	34.7 / 42.1	
	Net / Gross Weight (Panel)	kg	5.8 / 9.5	
Design Pressure	MPa	4.8 / 1.7		
Drainage Water Pipe Diameter	mm	OD Φ32		
Refrigerant Piping	Liquid Side & Gas Side	mm ( Inch )	Φ9.52 & Φ22 ( 3/8" & 7/8" )	
Controller		Remote Control		

Model Outdoor Unit		CST-NV24-48H	
Power Supply	V / Ph / Hz	220-240V / 1Ph / 60Hz	
Max. Input Consumption	W	6300	
Max. Input Current	A	28.5	
	Model	KTQ420D41SN5A1	
	Type	ROTARY	
	Brand	GMCC	
Compressor	Capacity	Btu/h	44356
	Input	W	3430
	Rated Current ( RLA )	A	6.8
	Thermal Protector Position	A	INTERNAL
Outdoor Fan Motor	Refrigerant Oil	ml	VG75 / 1400
	Model	ZKFN-85-8-22-5	
	Input	W	126
	Output	W	85
	Speed	RPM	850 / 750 / 650 / 550
	Number of rows	3	
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.3
Outdoor Coil	Fin Type	Hydrophilic aluminum	
	Tube Outside Dia. and Type	mm	Φ7, Inner Groove Tube
	Coil Length x Height x Width	mm	985 x 1260 x 40.11
	Number of Circuits	14	
Outdoor Noise Level	dB(A)	64	
Throttle Type		EXV+Throttle valve	
Outdoor Unit	Dimension ( W x D x H )	mm	952 x 415 x 1333
	Packing ( W x D x H )	mm	1095 x 495 x 1480
	Net / Gross Weight	kg	96.9 / 110.9
	Type	R32	
Refrigerant Type / Quantity	Charged Volume	kg	3.7
Design Pressure	MPa	4.8 / 1.7	
Refrigerant Piping	Liquid Side & Gas Side	mm ( Inch )	Φ9.52 & Φ22 ( 3/8" & 7/8" )
	Max. Pipe Length	m	50
	Max. Difference in Level	m	30
Ambient Temperature	Cooling	°C	0 ~ 52
	Heating	°C	-15 ~ 24

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

CONCEALED

ماندو بلس - مخفي موديل ١٨  
MANDO PLUS - CONCEALED MODEL 18





Model Indoor Unit		DCT-NV25-18H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
SEER		Btu/h.W	13.65
Energy Class			C
Cooling ( T1 )	Capacity	Btu/h	18000 ( 5500 ~ 22000 )
	Input	W	1440
	Current	A	6.45
	EER	Btu/h.W	12.50
Cooling ( T3 )	Capacity	Btu/h	14400
	Input	W	1674
	Current	A	7.5
	EER	Btu/h.W	8.6
Heating	Capacity	Btu/h	19279
	Input	W	1570
	Current	A	7.2
	COP	W/W	3.6
Indoor Fan Motor	Model		ZKFN-160-8-1-2
	Type		DC
	Qty		1
	Input	W	176
	Output	W	160
	Speed ( H / M / L )	RPM	1370 / 1240 / 1090
Indoor Coil	Number of Rows		4
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.4
	Fin Type		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	695 x 252 x 53.48
Number of Circuits		6	
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	973 / 805 / 632
ESP	Rated	Pa	25
	Range	Pa	0 - 80
Indoor Noise Level ( H / M / L ) ( Under Rated ESP )		dB(A)	43.5 / 39 / 34
Indoor Unit	Dimension ( W x D x H )	mm	880 x 674 x 210
	Packing ( W x D x H )	mm	1070 x 725 x 280
	Net / Gross Weight	kg	25.8 / 31
Design Pressure		MPa	4.8 / 1.5
Drainage Water Pipe Diameter		mm	OD Φ25
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	Φ6.35 / Φ12.7 ( 1/4" / 1/2" )
Controller			Wired Control
Operation Temperature		°C	17 ~ 30
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

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

Model Outdoor Unit		DCT-NV25-18H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
Max. Input Consumption		W	2600
Max. Input Current		A	12.9
Compressor	Model		ASN140D35TFZ
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	14245
	Input	W	1085
	Rated Current ( RLA )	A	7.6
	Thermal Protector Position		/
	Refrigerant Oil	ml	VG75 / 440
Outdoor Fan Motor	Model		ZKFN-80-8-3
	Type		DC
	Qty		1
	Input	W	88
	Output	W	80
	Speed ( H / M / L )	RPM	800 / 700 / 550
Outdoor Coil	Number of Rows		2.6
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.3
	Fin Type		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	900 x 609 x 26.74 + 540 x 609 x 13.37
	Number of Circuits		6
	Outdoor Noise Level	dB(A)	58.5
Throttle Type			EXV + Throttle Valve
Outdoor Unit	Dimension ( W x D x H )	mm	890 x 342 x 673
	Packing ( W x D x H )	mm	995 x 435 x 750
	Net / Gross Weight	kg	41 / 44.3
Refrigerant Type / Quantity	Type		R410A
	Charged Volume	kg	1.6
Design Pressure		MPa	4.8 / 1.5
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Φ6.35 / Φ12.7 ( 1/4" / 1/2" )
	Max. Pipe Length	m	25
	Max. Level Difference	m	15
Ambient Temperature	Cooling	°C	0 ~ 52
	Heating	°C	-15 ~ 24

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

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

CONCEALED

ماندو بلس - مخفي موديل ٢٤  
MANDO PLUS - CONCEALED MODEL 24





Model Indoor Unit		DCT-NV23-24H	
Power Supply	V / Ph / Hz	230V / 1Ph / 60Hz	
SEER	Btu/h.W	14.7	
Energy Class		C	
Cooling ( T1 )	Capacity	Btu/h	23700
	Input	W	1881
	Current	A	8.24
	EER	Btu/h.W	12.60
Cooling ( T3 )	Capacity	Btu/h	18900
	Input	W	2148
	Current	A	13.23
	EER	Btu/h.W	8.80
Heating	Capacity	Btu/h	26615
	Input	W	2108
	Current	A	9.35
	COP	W/W	3.70
Indoor Fan Motor	Model	ZKFN-160-8-1-2	
	Type	DC	
	Qty	1	
	Input	W	176
	Output	W	160
	Speed ( H / M / L )	RPM	940 / 870 / 760
Indoor Coil	Number of Rows	3	
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.4
	Fin Type	Hydrophilic Aluminium	
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube
	Coil Length x Height x Width	mm	915 x 294 x 40.11
	Number of Circuits	7	
Indoor Air Flow ( H / M / L )	m <sup>3</sup> /h	1365 / 1100 / 880	
ESP	Rated	Pa	25
	Range	Pa	0 - 100
Indoor Noise Level ( H / M / L ) ( Under Rated ESP )	dB(A)	40 / 38 / 36	
Indoor Unit	Dimension ( W x D x H )	mm	1100 x 774 x 249
	Packing ( W x D x H )	mm	1305 x 805 x 305
	Net / Gross Weight	kg	32.6 / 39.9
Design Pressure	MPa	4.8 / 1.5	
Drainage Water Pipe Diameter	mm	OD Φ25	
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	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

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

Model Outdoor Unit		DCT-NV23-24H		
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	9.0	
	Thermal Protector Position	INTERNAL		
	Refrigerant Oil	ml	RB75EA/670	
Outdoor Fan Motor	Model	ZKFN-120-8-2		
	Type	DC		
	Qty	1		
	Input	W	150	
	Output	W	120	
	Speed ( H / M / L )	RPM	810 / 700 / 450	
Outdoor Coil	Number of Rows	2.6		
	Tube Pitch(a) x Row Pitch (b)	mm	21 x 13.37	
	Fin Spacing	mm	1.4	
	Fin Type	Hydrophilic Aluminium		
	Tube Outside Dia. and Type	mm	Φ7 , Inner Groove Tube	
	Coil Length x Height x Width	mm	1005 x 756 x 26.74 + 598 x 756 x 13.37	
	Number of Circuits	6		
Outdoor Noise Level	dB(A)	58		
Throttle Type	EEV			
Outdoor Unit	Dimension ( W x D x H )	mm	946 x 410 x 810	
	Packing ( W x D x H )	mm	1090 x 500 x 875	
	Net/Gross Weight	kg	58.6 / 63.2	
Refrigerant Type / Quantity	Type	R410A		
	Charged Volume	kg	2.2	
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. Level Difference	m	15	
Ambient Temperature	Cooling	°C	0 ~ 52	
	Heating	°C	-15 ~ 24	

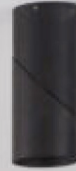
Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

CONCEALED

ماندو بلس - مخفي موديل ٣٦  
MANDO PLUS - CONCEALED MODEL 36





Model Indoor Unit		DCT-NV23-36H	
Power Supply		V / Hz / Ph	230V / 1Ph / 60Hz
SEER		Btu/h.W	12.75
Energy Class			C
Cooling ( T1 )	Capacity	Btu/h	30400
	Input	W	2450
	Current	A	15.70
	EER	Btu/h.W	12.40
Cooling ( T3 )	Capacity	Btu/h	26400
	Input	W	2983
	Current	A	18.30
	EER	Btu/h.W	8.85
Heating	Capacity	Btu/h	32757
	Input	W	2400
	Current	A	11.00
	COP	W/W	4.00
Indoor Fan Motor	Model		ZKFN-300-8-1
	Type		DC
	Qty		1
	Input	W	420
	Output	W	300
	Speed ( H / M / L )	RPM	930 / 840 / 770
Indoor Coil	Number of Rows		4
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.5
	Fin Type		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Ø7 , Inner Groove Tube
	Coil Length x Height x Width	mm	1030 x 378 x 53.48
Number of Circuits		8	
Indoor Air Flow ( H / M / L )		m <sup>3</sup> /h	2250 / 1880 / 1360
ESP	Rated	Pa	37
	Range	Pa	0 - 120
Indoor Noise Level ( H / M / L ) ( Under Rated ESP )		dB(A)	49 / 46 / 43
Indoor Unit	Dimension ( W x D x H )	mm	1200 x 874 x 300
	Packing ( W x D x H )	mm	1405 x 915 x 365
	Net / Gross Weight	kg	44.5 / 52.7
Design Pressure		MPa	4.8 / 1.5
Drainage Water Pipe Diameter		mm	OD Ø25
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	Ø9.52 / Ø19.05 ( 3/8" / 3/4" )
Controller			Wired Control
Operation Temperature		°C	17 ~ 30
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

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

Model Outdoor Unit		DCT-NV23-36H	
Power Supply		V / Ph / Hz	230V / 1Ph / 60Hz
Max. Input Consumption		W	4900
Max. Input Current		A	21
Compressor	Model		ATH307CDRC8DUL
	Type		ROTARY
	Brand		HIGHLY
	Capacity	Btu/h	29377
	Input	W	2660
	Rated Current ( RLA )	A	9.5
	Thermal Protector Position		INTERNAL
	Refrigerant Oil	ml	RMM68EA or Equivalent / 1050
Outdoor Fan Motor	Model		ZKFN-120-8-2
	Type		DC
	Qty		1
	Input	W	150
	Output	W	120
	Speed ( H / M / L )	RPM	950 / 850 / 750
Outdoor Coil	Number of Rows		3
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.4
	Fin Type		Hydrophilic Aluminium
	Tube Outside Dia. and Type	mm	Ø7 , Inner Groove Tube
	Coil Length x Height x Width	mm	1000 x 756 x 40.11
	Number of Circuits		6
	Outdoor Noise Level	dB(A)	63
Throttle Type			EEV
Outdoor Unit	Dimension ( W x D x H )	mm	946 x 410 x 810
	Packing ( W x D x H )	mm	1090 x 500 x 875
	Net / Gross Weight	kg	66.0 / 70.9
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 )	Ø9.52 / Ø19.05 ( 3/8" / 3/4" )
	Max. Pipe Length	m	30
	Max. Level Difference	m	20
Ambient Temperature	Cooling	°C	0 ~ 52
	Heating	°C	-15 ~ 24

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

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

CONCEALED

ماندو بلس - مخفي موديل ٤٨  
MANDO PLUS - CONCEALED MODEL 48





Model Indoor Unit		DCT-NV23-48H	
Power Supply	V / Ph / Hz	230V / 1Ph / 60Hz	
SEER	Btu/h.W	13.3	
Energy Class		C	
Cooling ( T1 )	Capacity	Btu/h	42200
	Input	W	3430
	Current	A	15.20
	EER	Btu/h.W	12.30
Cooling ( T3 )	Capacity	Btu/h	37800
	Input	W	4344
	Current	A	19.12
	EER	Btu/h.W	8.70
Heating	Capacity	Btu/h	57665
	Input	W	4694
	Current	A	20.88
	COP	W/W	3.60
Indoor Fan motor	Model	ZKFN-560-8-1-1	
	Type	DC	
	Qty	1	
	Input	W	560
	Output	W	560
	Speed ( H / M / L )	RPM	1020 / 800 / 600
	Indoor Coil	Number of Rows	4
Tube Pitch (a) x Row Pitch (b)		mm	25.4 x 22
Fin Spacing		mm	1.5
Fin Type		Hydrophilic Aluminium	
Tube Outside Dia. and Type		mm	Ø9.52, Inner Groove Tube
Coil Length x Height x Width		mm	1055 x 356 x 88
Number of Circuits		7	
Indoor Air Flow ( H / M / L )	m <sup>3</sup> /h	2630 / 2050 / 1450	
ESP	Rated	Pa	50
	Range	Pa	0 - 160
Indoor Noise Level ( H / M / L ) ( Under Rated ESP )	dB(A)	51 / 48 / 44	
Indoor Unit	Dimension ( W x D x H )	mm	1200 x 625 x 380
	Packing ( W x D x H )	mm	1485 x 675 x 460
	Net / Gross Weight	kg	56.8 / 65.6
Design Pressure	MPa	4.8 / 1.5	
Drainage Water Pipe Diameter	mm	OD Ø25	
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	Ø9.52 / Ø19.05 ( 3/8" / 3/4" )
Controller		Wired Control	
Operation Temperature	°C	17 ~ 30	
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

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

Model Outdoor Unit		DCT-NV23-48H		
Power Supply	V / Ph / Hz	230V / 1Ph / 60Hz		
Max. Input Consumption	W	6100		
Max. Input Current	A	28		
Compressor	Model	ATQ420D1SN5A1		
	Type	ROTARY		
	Brand	GMCC		
	Capacity	Btu/h	44220	
	Input	W	3485	
	Rated Current ( RLA )	A	7.0	
	Thermal Protector Position	INTERNAL		
Refrigerant Oil	ml	VG74 / 1500		
Outdoor Fan Motor	Model	ZKFN-85-8-22-5 + ZKFN-85-8-22-5		
	Type	DC		
	Qty	1 + 1		
	Input	W	126	
	Output	W	85	
	Speed ( H / M / L )	RPM	850 / 750 / 650	
	Outdoor Coil	Number of Rows	3	
Tube Pitch (a) x Row Pitch (b)		mm	21 x 13.37	
Fin Spacing		mm	1.3	
Fin Type		Hydrophilic Aluminium		
Tube Outside Dia. and Type		mm	Ø7, Inner Groove Tube	
Coil Length x Height x Width		mm	985 x 1260 x 40.11	
Number of Circuits		14		
Outdoor Noise Level	dB(A)	64		
Throttle Type	EEV			
Outdoor Unit	Dimension ( W x D x H )	mm	952 x 415 x 1333	
	Packing ( W x D x H )	mm	1095 x 495 x 1480	
	Net/Gross Weight	kg	99.3 / 112.2	
Refrigerant Type / Quantity	Type	R410A		
	Charged Volume	kg	4.4	
Design Pressure	MPa	4.8 / 1.5		
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	Ø9.52 / Ø19.05 ( 3/8" / 3/4" )	
	Max. Pipe Length	m	50	
	Max. Level Difference	m	30	
Ambient Temperature	Cooling	°C	0 ~ 52	
	Heating	°C	-15 ~ 24	

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

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

CONCEALED

ماندو بلس - مخفي موديل ٦٠  
MANDO PLUS - CONCEALED MODEL 60





Model Indoor Unit		DCT-A723-60H	
Power Supply	V / Ph / Hz	230V / 1Ph / 60Hz	
SEER	Btu/h.W	14.3	
Energy Class		C	
Cooling ( T1 )	Capacity	Btu/h	50000
	Input	W	4047
	Current	A	18.00
	EER	Btu/h.W	12.35
Cooling ( T3 )	Capacity	Btu/h	43200
	Input	W	4937
	Current	A	22.00
	EER	Btu/h.W	8.75
Heating	Capacity	Btu/h	60736
	Input	W	4944
	Current	A	22.00
	COP	W/W	3.60
Indoor Fan Motor	Model	ZKFN-560-8-4	
	Type	DC	
	Qty	1	
	Input	W	560
	Output	W	560
	Speed ( H / M / L )	RPM	853 / 778 / 702
Indoor Coil	Number of Rows	4	
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
	Fin Spacing	mm	1.3
	Fin Type	Hydrophilic Aluminium	
	Tube Outside Dia. and Type	mm	Ø7, Inner Groove Tube
	Coil Length x Height x Width	mm	1225 x 462 x 53.48
	Number of Circuits	11	
Indoor Air Flow ( H / M / L )	m <sup>3</sup> /h	2900 / 2300 / 1600	
ESP	Rated	Pa	50
	Range	Pa	0-200
Indoor Noise Level ( H / M / L ) ( Under Rated ESP )	dB(A)	46.5 / 45 / 43	
Indoor Unit	Dimension ( W x D x H )	mm	1400 x 800 x 380
	Packing ( W x D x H )	mm	1600 x 915 x 445
	Net / Gross Weight	kg	65.2 / 73
Design Pressure	MPa	4.8 / 1.5	
Drainage Water Pipe Diameter	mm	OD Ø25	
Refrigerant Piping	Liquid Side/ Gas Side	mm ( Inch )	Ø9.52 / Ø22.225 ( 3/8" / 7/8" )
Controller		Wired control	
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

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

Model Outdoor Unit		DCT-A723-60H		
Power Supply	V / Ph / Hz	230V / 1Ph / 60Hz		
Max. Input Consumption	W	6100		
Max. Input Current	A	28		
Compressor	Model	KTQ420D41SN5A1		
	Type	ROTARY		
	Brand	GMCC		
	Capacity	Btu/h	44356	
	Input	W	3430	
	Rated Current ( RLA )	A	6.8	
	Thermal Protector Position	INTERNAL		
Outdoor Fan Motor	Refrigerant Oil	ml	VG75 / 1400	
	Model	ZKFN-85-8-22-5 + ZKFN-85-8-22-5		
	Type	DC		
	Qty	1 + 1		
	Input	W	126	
	Output	W	85	
	Speed ( H / M / L )	RPM	850 / 750 / 650	
Outdoor Coil	Number of Rows	3		
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37	
	Fin Spacing	mm	1.3	
	Fin Type	Hydrophilic Aluminium		
	Tube Outside Dia. and Type	mm	Ø7, Inner Groove Tube	
	Coil Length x Height x Width	mm	985 x 1260 x 40.11	
	Number of Circuits	14		
Outdoor Noise Level	dB(A)	64		
Throttle Type	EXV + Throttle valve			
Outdoor Unit	Dimension ( W x D x H )	mm	952 x 415 x 1333	
	Packing ( W x D x H )	mm	1095 x 495 x 1480	
	Net / Gross Weight	kg	98.1 / 112.1	
Refrigerant Type/Quantity	Type	R410A		
	Charged Volume	kg	4.4	
Design Pressure	MPa	4.8 / 1.5		
Refrigerant Piping	Liquid Side / Gas Side	mm ( Inch )	Ø9.52 / Ø22.225 ( 3/8" / 7/8" )	
	Max. Pipe Length	m	50	
	Max. Level Difference	m	30	
Ambient Temperature	Cooling	°C	0 ~ 52	
	Heating	°C	-15 ~ 24	
Min. Circuit Amps	A	32		
Max. Fuse Amps	A	50		

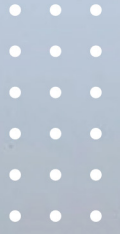
Remarks:1.The above design and specifications are subject to change without prior notice for product improvement.

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.
- (2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

PLUS  
R32

ماندو بلس - مخفي R32 - موديل ٦٠  
MANDO PLUS - CONCEALED R32 - MODEL 60



Model Indoor Unit		DCT-A724-60H	
Power Supply		V / Hz / Ph	230V / 1Ph / 60Hz
SEER		Btu/h.W	13.9
Energy Class			C
Cooling (T1)	Capacity	Btu/h	53200 (18000-62000)
	Input	W	4326
	Current	A	19.7
	EER	Btu/h.W	12.30
Cooling (T3)	Capacity	Btu/h	47800
	Input	W	5458
	Current	A	24.5
	EER	Btu/h.W	8.75
Heating	Capacity	Btu/h	61418
	Input	W	4995
	Current	A	22.5
	COP	W/W	3.60
Indoor Fan Motor	Model		ZKFN-560-8-4
	Type		DC
	Qty		1
	Input	W	560
	Output	W	560
	Speed ( H / M / L )	RPM	853 / 778 / 702
	Number of Rows		4
	Tube Pitch (a) x Row Pitch (b)	mm	21 x 13.37
Indoor Coil	Fin Spacing	mm	1.3
	Fin Type		Hydrophilic Aluminum
	Tube Outside Dia. and Type	mm	Φ7, Inner Groove Tube
	Coil Length x Height x Width	mm	1225 x 462 x 53.48
	Number of Circuits		11
Indoor Air Flow ( H / M / L ) ( Under Rated ESP )		CFM	1,705 / 1,352 / 941
		m <sup>3</sup> /h	2900 / 2300 / 1600
ESP	Rated	Pa	50
	Range	Pa	0 - 200
Indoor Noise Level ( H / M / L ) ( Under Rated ESP )		dB(A)	45.5 / 43.5 / 41.5
	Dimension ( W x D x H )	mm	1400 x 800 x 380
Indoor Unit	Packing ( W x D x H )	mm	1600 x 915 x 445
	Net / Gross Weight	kg	65.2 / 73
Design Pressure		MPa	4.8 / 1.5
Drainage Water Pipe Diameter		mm	OD Φ25
Refrigerant Piping	Liquid Side & Gas Side	mm ( Inch )	Φ9.52 & Φ22 ( 3/8" & 7/8" )
Controller			Wired Control
Operation Temperature		°C	17 ~ 30
Room Temperature	Cooling	°C	17 ~ 32
	Heating	°C	0 ~ 30

**Note:**

(1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.

(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.

Model Outdoor UNIT			DCT-A724-60H
Power Supply		V / Ph / Hz	220-240V / 1Ph / 60Hz
Max. Input Consumption		W	6300
Max. Input Current		A	28.5
Compressor	Model		KTQ420D41SN5A1
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	44356
	Input	W	3430
	Rated Current ( RLA )	A	6.8
	Locked Rotor Amp ( LRA )	A	/
	Thermal Protector Position		INTERNAL
	Capacitor	μF	/
	Refrigerant Oil	ml	VG75/1400
Outdoor Fan Motor	Model		ZKFN-85-8-22-5
	Input	W	126
	Output	W	85
	Capacitor	μF	/
	Speed	RPM	850 / 750 / 650 / 550
Outdoor Coil	Number of Rows		3
	Tube Pitch (a) x Row Pitch (b)	mm	21x13.37
	Fin Spacing	mm	1.3
	Fin Type		Hydrophilic aluminum
	Tube Outside Dia. and Type	mm	Φ7, Inner Groove Tube
	Coil Length x Height x Width	mm	985 x 1260 x 40.11
	Number of Circuits		14
Outdoor Noise Level (Sound Pressure)		dB(A)	64
Throttle Type			EXV + Throttle Valve
Outdoor Unit	Dimension ( W x D x H )	mm	952 x 415 x 1333
	Packing ( W x D x H )	mm	1095 x 495 x 1480
	Net / Gross Weight	kg	96.9 / 110.9
Refrigerant Type / Quantity	Type		R32
	Charged Volume	kg	3.7
Design Pressure		MPa	4.8 / 1.7
Refrigerant Piping	Liquid Side & Gas Side	mm (Inch)	Φ9.52 & Φ22 (3/8" & 7/8")
	Max. Pipe Length	m	50
	Max. Difference in Level	m	30
Ambient Temperature	Cooling	°C	0 ~ 52
	Heating	°C	-15 ~ 24

**Note:**

- (1) T1 Cooling : Indoor Temperature 27°C DB / 19°C WB ; Outdoor Temperature 35°C DB / 24°C WB.  
(2) T3 Cooling : Indoor Temperature 29°C DB / 19°C WB ; Outdoor Temperature 46°C DB / 24°C WB.





NOTES :



A series of horizontal lines for writing notes, with a large, stylized graphic of overlapping light blue and white curved shapes in the center.









**ماندو - شركة فاريز للتجارة و التسويق**  
**Mando - Fareaz for Trading & Marketing Co.Ltd**

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