

Model No.		MA-12CA22	MA-18CA22
Type		T1, INVERTER	T1, INVERTER
Performance			
Cooling Capacity	Btu/h	12000	18000
Heating Capacity	Btu/h	13000	19000
Cooling Capacity Range	Btu/h	4000-13500	6500-19500
Heating Capacity Range	Btu/h	4000-14000	6500-20000
Rated Input-Cooling	W	920	1385
Rated Input-Heating	W	1130	1595
SEER	Cooling	20.5	23.3
HSPF	Heating	10.8	11.6
EER for Cooling	Btu/W	13.04	13.00
COP for Heating	Btu/W	11.50	11.90
E-STAR__V5.0	ASHP: SEER>15, EER>12.5, HSPF>8.5 CAC: SEER>15, EER>12.5	Yes	Yes
Most Efficient 2016	ASHP: SEER>20, EER>12.5, HSPF>10 CAC: SEER>20, EER>12.5	Yes	Yes
CEE Qualifying Tier	Tier0 - 14.5SEER, 12EER, (8.5HSPF) Tier1 - 15SEER, 12.5EER, (8.5HSPF) Tier2 - 16SEER, 13EER, (9HSPF) Tier3 - 18SEER,13EER, (10HSPF)	Tier3	Tier3
Moisture Removal	L/H.r	1.2	1.5
Air Circulation	m3/h	620	1100
	CFM	365	647
Refrigerant		R410A	R410A
Refrigerant charge volume	g	1160	1550
Indoor Sound Pressure (H/M/L/silence)	dB (A)	39/32/29/26	45/41/37/34
Outdoor Sound pressure	dB (A)	53	55
Voltage, Frequency, Phase	V		
Rated Current	Cooling (A)	4.1	6.3
	Heating (A)	5.0	7.2
Current Range	Cooling (A)	1.2-7.0	1.5-12
	Heating (A)	1.2-7.0	1.5-12
System			
Compressor type		Rotary	Rotary
Compressor MFG		GMCC	GMCC
Expansion Device		capillary	capillary
Compressor model #		ASN108D32UFZ	ATM150D43UFZ
Indoor DC motor		No	Yes
Indoor motor MFG		Weiling	Weiling
Indoor motor model #		DG13G1-21	K1B310497
Indoor motor power ioutput	W	14	35
Indoor motor speed	H/M/L	1250/1100/9500	1100/960/800
Outdoor DC motor		Yes	Yes
Outdoor motor MFG		WOLONG	Broad-ocean
Outdoor motor model #		ZWA138D08A	DG13Z2D-04
Outdoor motor power input	W	30	60
Outdoor motor speed	H/M/L	800/650/450	840/650/500
Evaporator			
Evaporator material			
Number of rows		2	2
Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube
Evaporator length x height x width	mm	620x294x27.2	842x378x27.2
Tube pitch(a)x row pitch(b)	mm	21x13.6	21x13.6
Fin spacing	mm	1.4	1.4
Condenser			
Condenser material			
Number of rows		2	2
Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube

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Condensor length x height x width	mm	842x546x18.19 +813x546x18.19	895x630x18.2 867x630x18.2
Tube pitch(a)x row pitch(b)	mm	21x18.19	21x18.19
Fin spacing	mm	1.4	1.6
Connecting Pipe Diameter			
Liquid Pipe	inch	1/4	1/4
Gas Pipe	inch	3/8	1/2
Others			
Net Dimensions WxHxD (mm)	Indoor Unit mm	835x280x220	1100x325x244
	Indoor Unit in	32 7/8x11x8 11/16	43 5/16x12 13/16x9 5/8
	Outdoor Unit mm	810x585x280	860x650x310
	Outdoor Unit in	31 7/8x23x11	33 7/8x25 9/16x12 3/16
Net Weight (Kg)	Indoor Unit	9.0	14.5
	Outdoor Unit	33.0	45
Packing Dimensions WxHxD (mm)(With pipe)	Indoor Unit mm	870x335x265	1170x390x315
	Indoor Unit in	34 1/4x13 3/16x10 7/16	46 1/16x15 3/8x12 7/16
	Outdoor Unit mm	940x640x385	995x730x445
	Outdoor Unit in	37x25 3/16x15 3/16	39 3/16x28 3/4x17 1/2
Gross Weight (Kg)	Indoor Unit	11.0	17.0
	Outdoor Unit	36	49
Loading Capacity NO pipe(40'HC)		225	150
Test Standard		ARI 210-240	ARI 210-240
Approvals		ETL/AHRI	ETL/AHRI
Features			
LED Display on Front Panel		Yes	Yes
LED Dimmer		Yes	Yes
7 Indoor Fan Speed		Yes	Yes
LCD Wireless Remote Controller		Yes	Yes
"I feel" in remote controller		Yes	Yes
Back lighting remote controller		Yes	Yes
-20°C (-4°F) Heating		Yes	Yes
-15°C (5°F) Cooling		Yes	Yes
Working Temperature Range - Cooling (°C/°F)		-15°C-46°C; (5F-115F)	-15°C-46°C; (5F-115F)
Working Temperature Range - Heating (°C/°F)		-20°C-24°C; (-4F-75F)	-20°C-24°C; (-4F-75F)
Remote Control Adjustable Temperature Range - Cooling		16°C-30°C; (61F-86F)	16°C-30°C; (61F-86F)
Remote Control Adjustable Temperature Range - Heating		16°C-30°C; (61F-86F)	16°C-30°C; (61F-86F)
8°C (46°F) Heating to avoid freezing water pipe in Kitchen		Yes	Yes
°C & °F convertible		Yes	Yes
2 Ways Draining Connection (Left or Right)		Yes	Yes
Compressor Intelligent Pre-heating		Yes	Yes
Smart Function		Yes	Yes
Super Function		Yes	Yes
Auto Restart		Yes	Yes
Auto Defrost		Yes	Yes
Auto Cleaning		Yes	Yes
Quiet Mode		Yes	Yes
24 Hours Timer		Yes	Yes
Removable and washable Panel		Yes	Yes
Louver Postion Memory		Yes	Yes
Washable High Definition Filter		Yes	Yes
Horizontal Auto Swing Louver		Yes	Yes
Chassis Electric heater function		Yes	Yes
Vertical Auto Swing Louver		Yes	Yes
Healthy Filter(catechins,VC,HEPA,jasmine aroma filter)		Optional	Optional
Wired control		Optional	Optional

Above contents are subjected to change according to the testing and improvements.