



Condensing Units & Air Handlers

13 SEER



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GC-1310-1



Distributor information






Condensing Units & Air Handlers

This newly designed high efficiency household air conditioner works hard saving consumers' money from the very beginning. With its competitive purchase price to cost - saving 13 SEER efficiency, this unit can be installed in many different applications: single family homes, villas, office buidings, hotels, etc.




Models List

Condensing Units

NOMINAL CAPACITY (TON)	REFRIGERANT	MODEL	POWER SUPPLY (PH, V, HZ)	APPEARANCE
1 1/2	R410	MAC13018	1, 208/230, 60	
2		MAC13024		
2 1/2		MAC13030		
3		MAC13036		
3 1/2		MAC13042		
4		MAC13048		
5		MAC13060		
1 1/2		MHP13018		
2		MHP13024		
2 1/2		MHP13030		
3		MHP13036		
3 1/2		MHP13042		
4		MHP13048		
5		MHP13060		

Air Handlers

NOMINAL CAPACITY (TON)	REFRIGERANT	MODEL	POWER SUPPLY (PH, V, HZ)	APPEARANCE
1 1/2	R410	MAH13018	1, 208/230, 60	
2		MAH13024		
2 1/2		MAH13030		
3		MAH13036		
3 1/2		MAH13042		
4		MAH13048		
5		MAH13060		

Nomenclature

Nomenclature of Condensing Unit

NUMBER	DESCRIPTION	OPTIONS
1	Symbol	M: Condensing unit of split series
2	System	AC = Cooling only HP = Heat pump
3	SEER	Omitted: SEER<13 13: SEER=13 14: SEER=14 15: SEER=15
4	Nominal capacity	018: 18000 Btu/h 024: 24000 Btu/h 030: 30000 Btu/h 036: 36000 Btu/h 042: 42000 Btu/h 048: 48000 Btu/h 060: 60000 Btu/h
5	Refrigerant	Omitted: R22 Na: R410A

1
2
3
4
5



Nomenclature of Air Handler

NUMBER	DESCRIPTION	OPTIONS
1	Symbol	MAH: Air handler
2	SEER	Omitted: SEER<13 13: SEER=13 14: SEER=14 15: SEER=15
3	Nominal capacity	018: 18000 Btu/h 024: 24000 Btu/h 030: 30000 Btu/h 036: 36000 Btu/h 042: 42000 Btu/h 048: 48000 Btu/h 060: 60000 Btu/h

1
2
3



Features

Description

MRCOOL Condensing Units and HNF Multi-Position Air Handlers offer the perfect combination of superior product quality, operating efficiency, operating sound levels and value for money. The Condensing Units incorporate high-efficiency compressors and use the environmentally friendly refrigerant R-410A, which is chlorine-free to help prevent damage to the ozone layer. The Cool Only Condensing Units feature an aluminum micro channel heat exchanger, proven to be the best heat exchanger in the cooling industry. The MRCOOL unit is designed for the consumer who desires superior comfort, quiet operation, and environmentally friendly performance.

Standard Features

✔ Features of Condensing Units

- R-410A environmentally friendly refrigerant.
- High-efficiency compressor.
- Aluminium micro channel heat exchanger on Cool Only Condensing Units.
- Totally enclosed, permanently lubricated condenser fan motor.
- Compact design of outdoor unit.
- Convenient for installation and maintenance.
- Service valves with sweat connections and easy-access gauge ports.
- ETL Certification and AHRI Listed.

✔ Features of Air Handlers

- Multi-position—upflow or horizontal installations.
- Built-in coil has horizontal and vertical drain pans with secondary drain connections.
- High-efficiency exchanger, with long-life rifled copper tubes and aluminum fin refrigerant coils.

Cabinet Features

✔ Features of Condensing Units

- Unique sound control top design.
- Galvanized steel exterior cabinet with long salt spray test.
- Heavy-duty, full metal coil guard for hail protection.
- Top and side maintenance access.
- Service ports and controls are accessible while unit is operating.

✔ Features of Air Handlers

- Strong unitized, galvanized steel construction.
- Fully insulated, painted cabinet.
- Built-in filter rack.
- Power supply on top; low-voltage entry on top or side.

Product Specifications

Mr Cool A/C Condenser

Due to continuous product improvement, the specifications listed below are subject to change without notice, and the values shown on product nameplates should be referred to as final.

MODEL	MAC13018	MAC13024	MAC13030	MAC13036	MAC13042	MAC13048	MAC13060
Nominal Ratings							
Nominal Cooling (Btu/h)	18000	24000	30000	36000	42000	48000	60000
Sound Pressure Level dB(A)	59	58	60	61	62	64	66
Compressor							
RLA	79	98	12.6	15.08	21.5	21	25
LRA	38	53	71	64	105	115	150
Condenser Fan Motor							
Power output (HP)	1/6	1/6	1/6	1/4	1/4	1/4	1/3
FLA	1.2	1.2	1.2	1.7	1.7	1.7	2.1
Refrigeration System							
Refrigerant Line Size							
Liquid valve size (inch)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
Suction valve size (inch)	5/8"	5/8"	3/4"	3/4"	7/8"	7/8"	1-1/8"
Valve Connection Type	Brazed						
Refrigerant Charge (oz)	52.9	670	63.5	84.7	81.1	105.8	141.1
Electrical Data							
Power Supply (V-Hz-Ph)	208/230-60-1						
Min. Circuit Ampacity (A)	11.1	13.5	17	20.6	28.6	28	33.5
Max. Overcurrent Protection (A)	15	20	25	35	50	45	50
Min/Max Voltage (V)	187/254						
Min. Power Supply Cord	AWG16	AWG14	AWG12	AWG12	AWG10	AWG10	AWG8
Dimension							
Outline Dimension (W/D/H) (inch)	21 1/2 / 21 1/2 / 24	24 / 24 / 24 1/2	24 / 24 / 29	28 / 28 / 29	28 / 28 / 29	28 / 28 / 29	29 1/2 / 29 1/2 / 33 1/2
Package Dimension (W/D/H) (inch)	22 5/8 / 22 5/8 / 25 5/8	25 5/8 / 25 5/8 / 25 3/4	25 5/8 / 25 5/8 / 29 3/4	30 1/2 / 30 1/2 / 29 3/4	30 1/2 / 30 1/2 / 29 3/4	30 1/2 / 30 1/2 / 29 3/4	30 1/2 / 30 1/2 / 39 5/8
Weight							
Net Weight (lb)	99.2	119.1	130.1	154.4	173.1	185.2	233.7
Gross Weight (lb)	105.8	127.9	141.1	163.2	183	194	266.8

Note

- ☑ Tested and rated in accordance with ARI Standard 210/240. Always check the S & R plate for electrical data on the unit being installed. Unit is charged with enough refrigerant for a 25' line set.
- ☑ RLA - Rated Load Amps
- ☑ LRA - Locked Rotor Amps
- ☑ FLA - Full Load Amps

Product Specifications

Mr Cool Heat Pump

MODEL	MHP13018	MHP13024	MHP13030	MHP13036	MHP13042	MHP13048	MHP13060
Nominal Ratings							
Nominal Cooling (Btu/h)	18000	24000	30000	36000	42000	48000	60000
Sound Pressure Level dB(A)	60	60	62	63	62	62	65
Compressor							
RLA	75	9.8	12.5	15.08	17	21	24.5
LRA	38	53	71	64	112	115	134
Condenser Fan Motor							
Power output (HP)	1/6	1/6	1/8	1/4	1/4	1/4	1/3
FLA	0.8	1.2	0.7	1.7	1.7	1.7	2.3
Refrigeration System							
Refrigerant Line Size							
Liquid valve size (inch)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
Suction valve size (inch)	5/8"	5/8"	3/4"	3/4"	7/8"	7/8"	1-1/8"
Valve Connection Type	Brazed						
Refrigerant Charge (oz)	81.1	102.3	112.9	151.7	155.2	172.8	194
Electrical Data							
Power Supply (V-Hz-Ph)	208/230-60-1						
Min. Circuit Ampacity (A)	10.2	13.5	16.3	20.6	23	28	33
Max. Overcurrent Protection (A)	15	20	25	35	50	45	50
Min/Max Voltage (V)	187/254						
Min. Power Supply Cord	AWG16	AWG14	AWG12	AWG12	AWG10	AWG10	AWG8
Dimension							
Outline Dimension (W/D/H) (inch)	24 / 24 / 24 1/2	24 / 24 / 24 1/2	28 / 28 / 29	28 / 28 / 29	28 / 28 / 29	28 / 28 / 33 1/2	29 1/2 / 29 1/2 / 33 1/2
Package Dimension (W/D/H) (inch)	25 5/8 / 25 5/8 / 25 3/4	25 5/8 / 25 5/8 / 25 3/4	30 1/2 / 30 1/2 / 29 3/4	30 1/2 / 30 1/2 / 29 3/4	30 1/2 / 30 1/2 / 29 3/4	30 1/2 / 30 1/2 / 34 7/8	30 1/2 / 30 1/2 / 39 5/8
Weight							
Net Weight (lb)	113.6	130.1	161	176.4	208.4	218.3	240.3
Gross Weight (lb)	121.3	138.9	172	187.4	218.3	229.3	271.2

Note

- ☑ Tested and rated in accordance with ARI Standard 210/240. Always check the S & R plate for electrical data on the unit being installed. Unit is charged with enough refrigerant for a 25' line set.
- ☑ RLA - Rated Load Amps
- ☑ LRA - Locked Rotor Amps
- ☑ FLA - Full Load Amps

Product Specifications

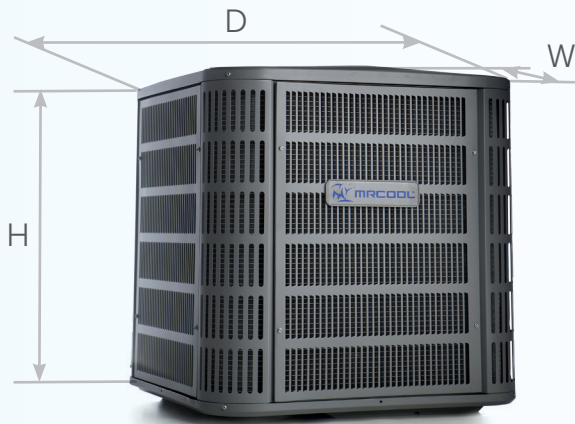
Mr Cool Air Handler

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MODEL	MAH13018	MAH13024	MAH13030	MAH13036	MAH13042	MAH13048	MAH13060
Nominal Ratings							
Nominal Cooling (Btu/h)	18000	24000	30000	36000	42000	48000	60000
CFM	640	825	980	1140	1300	1400	1650
Rated ESP (in-wc)	0.10	0.10	0.15	0.15	0.15	0.20	0.20
Blower							
Diameter (inch)	10	10	10	10	10	10	11
Width (inch)	8	8	8	10	10	10	11
Coil Drain Connection FPT (inch)	3/4"						
Service Valve							
Liquid pipe diameter (inch)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
Suction pipe diameter (inch)	5/8"	5/8"	3/4"	3/4"	7/8"	7/8"	1-1/8"
Electrical Data							
Power Supply (V-Hz-Ph)	208/230-60-1						
Min. Circuit Ampacity (A)	0.78	1.9	1.6	2.5	2.5	3.1	5.75
Max. Overcurrent Device (A)	15						
Minimum VAC (V)	187						
Maximum VAC (V)	254						
Blower Motor							
FLA	0.62	1.52	1.25	2.00	2.00	2.50	4.6
Power output (HP)	1/16	1/5	1/4	1/3	1/3	1/2	3/4
Dimension							
Outline Dimension (W/D/H) (inch)	18 1/8 / 21 1/4 / 43 1/2	18 1/8 / 21 1/4 / 43 1/2	18 1/8 / 21 1/4 / 43 1/2	21 1/4 / 21 1/4 / 48 1/4	21 1/4 / 21 1/4 / 48 1/4	24 7/8 / 21 1/4 / 48 1/4	24 7/8 / 21 1/4 / 48 1/4
Package Dimension (W/D/H) (inch)	20 3/8 / 24 3/8 / 46	20 3/8 / 24 3/8 / 46	20 3/8 / 24 3/8 / 46	23 1/2 / 24 3/8 / 50 3/4	23 1/2 / 24 3/8 / 50 3/4	27 / 24 3/8 / 51	27 / 24 3/8 / 51
Weight							
Net Weight (lb)	114.7	116.9	122.4	143.3	147.7	174.2	176.4
Gross Weight (lb)	124.6	125.7	130.1	154.4	158.8	185.2	189.6

Dimensional Data

Dimensional Data of Condensing Units



MODEL	DIMENSION		
	H"	D"	W"
MAC13018	24	21 1/2	21 1/2
MAC13024	24 1/2	24	24
MAC13030	29	24	24
MAC13036	29	28	28
MAC13042	29	28	28
MAC13048	29	28	28
MAC13060	33 1/2	29 1/2	29 1/2
MHP13018	24 1/2	24	24
MHP13024	24 1/2	24	24
MHP13030	29	28	28
MHP13036	29	28	28
MHP13042	29	28	28
MHP13048	33 1/2	28	28
MHP13060	33 1/2	29 1/2	29 1/2



Dimensional Data of Air Handlers

MODEL	DIMENSION				
	W"	D"	H"	B"	A"
MAH13018	18 1/8	21 1/4	43 1/2	16 3/4	11 5/8
MAH13024	18 1/8	21 1/4	43 1/2	16 3/4	11 5/8
MAH13030	18 1/8	21 1/4	43 1/2	16 3/4	11 5/8
MAH13036	21 1/4	21 1/4	48 1/4	20	11 5/8
MAH13042	21 1/4	21 1/4	48 1/4	20	11 5/8
MAH13048	24 7/8	21 1/4	48 1/4	20	11 5/8
MAH13060	24 7/8	21 1/4	48 1/4	20	11 5/8

