

TAG: _____

SUBMITTAL

15 SERIES

Single Zone Mini-Split Inverter System

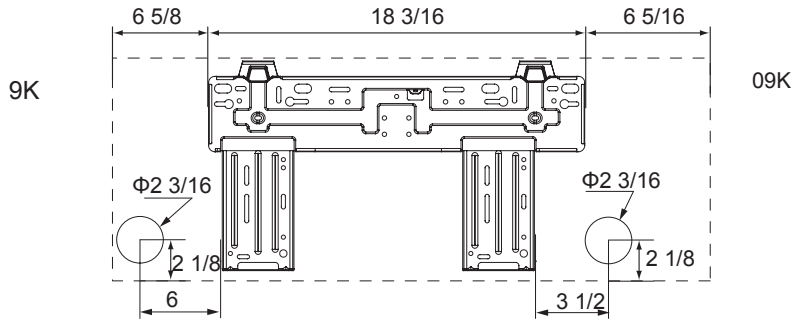
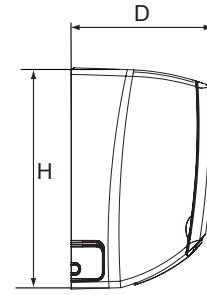
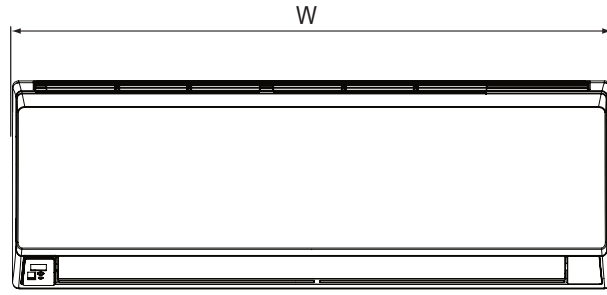
M4MHW1509A1N0A
M4THS1509A11NA

Specifications

MODEL - Heat Pump Only	M4MHW1509A1 / M4THS1509A1	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	9000	9500
Minimum Cooling Capacity (@95F) (Btu/h):	3100	-
Maximum Cooling Capacity (@95F) (Btu/h):	9600	-
Minimum Heating Capacity (@47F) (Btu/h):	-	3100
Maximum Heating Capacity (@47F) (Btu/h):	-	12000
Maximum Heating Capacity (@17F) (Btu/h):	-	5600
Total Capacity (W) (High/Standard/Low):	2800 / 2600 / 900	3500 / 2700 / 900
Rated Power Input (W)	900	800
Nominal Input Current (A)	4.0	3.6
SEER / HSPF	15.00	9.0
Air Flow Volume (CFM) (SH/H/M/L)	310 / 280 / 240 / 170	
Dehumidifying Volume (pt./h)	1.69	
EER (Btu/W hr)/COP	10.0	11.9
Indoor Unit		
	M4MHW1509A1N0	
Fan Motor Speed (r/min) (SH/H/M/L)	1350 / 1200 / 1050 / 750 1350 / 1200 / 1050 / 850	
Fan Motor RLA(A)	0.20	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	1/5	
Row Fin Gap (inch)	2 - 1/18	
Coil length (L) x depth (D) x coil width (W) (inch)	23 x 7/8 x 10 1/2	
Output of Swing Motor (W)	1.5	
Fuse (A)	3.15	
Sound Power Level dB (A)(SH/H/M/L)	53 / 49 / 45 / 39	
Sound PRESSURE Level dB (A)(SH/H/M/L) ①	43 / 38 / 34 / 28	
Uncrated Dimension (W/H/D) (inch)	31 1/9 x 10 5/6 x 7 7/8	
Crated Dimension of Package (L/W/H) (inch)	34 x 10 2/3 x 14 4/9	
Net Weight /Gross Weight (lbs)	19.8 / 24.2	
Outdoor Unit		
	M4THS1509A11N	
Compressor Type	Swing Rotary	
Compressor Oil	DAPHNE FVC50K (PVE Oil)	
L.R.A. (A)	16.50	
Compressor RLA(A)	6.60	
Compressor Power Input(W)	845	
Throttling Method	Capillary	
Working Temp Range (°F)	0 - 115	-4 - 75
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	2/7	
Row Fin Gap (inch)	1 - 1/18	
Coil length (L) x depth (D) x coil width (W) (inch)	28 x 3/4 x 20	
Fan Motor Speed (rpm)	820±20	
Output of Fan Motor (W)	30	
Fan Motor RLA (A)	0.37	
Air Flow Volume of Outdoor Unit (CFM)	942	
Fan Diameter (inch)	15 3/4	
Defrosting Method	Automatic Defrosting	
Sound Power Level dB (A)	62	
Sound PRESSURE Level dB (A) ①	52	
Uncrated Dimension (W/H/D) (inch)	30 5/9 x 21 1/4 x 12 3/5	
Crated Dimension of Package (W/L/H) (inch)	33 1/2 x 14 2/7 x 23 3/7	
Net Weight /Gross Weight (lbs)	65.0 / 70.6	
Refrigerant Charge (oz)	24.7	
MCA	9.0	
MOP	15.0	
Connection Pipe		
Gas additional charge(oz/ft)	0.2	
Outer Diameter Liquid Pipe (inch)	1/4	
Outer Diameter Gas Pipe (inch)	3/8	
Max Height Distance (ft)	65	
Max Length Distance (ft)	100	

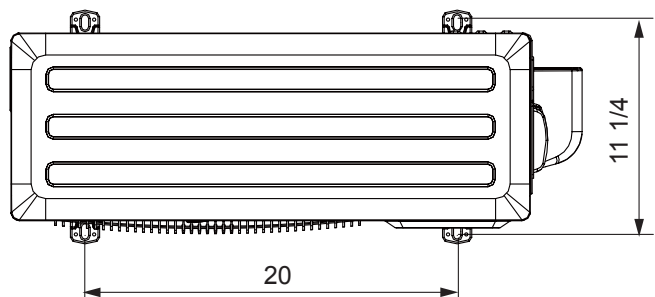
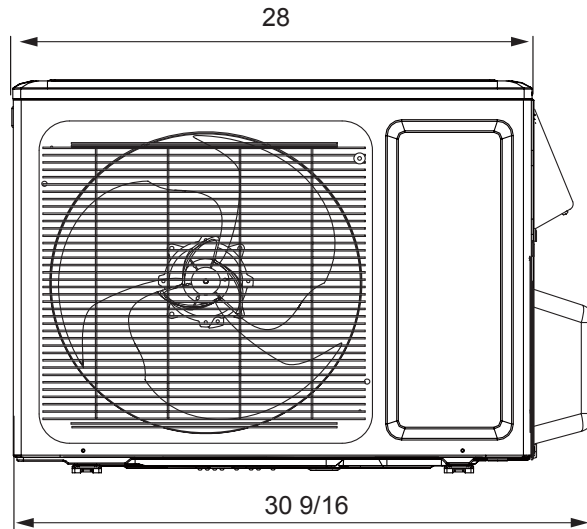
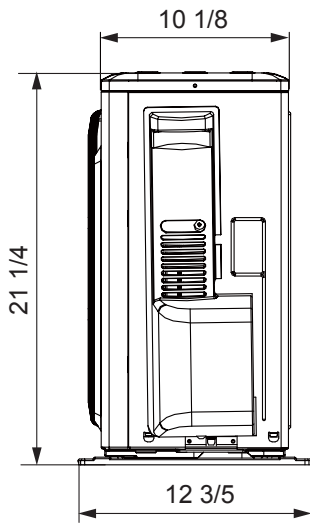
① Sound PRESSURE Level @ 3.3 ft. dB(A)

Unit Dimensions

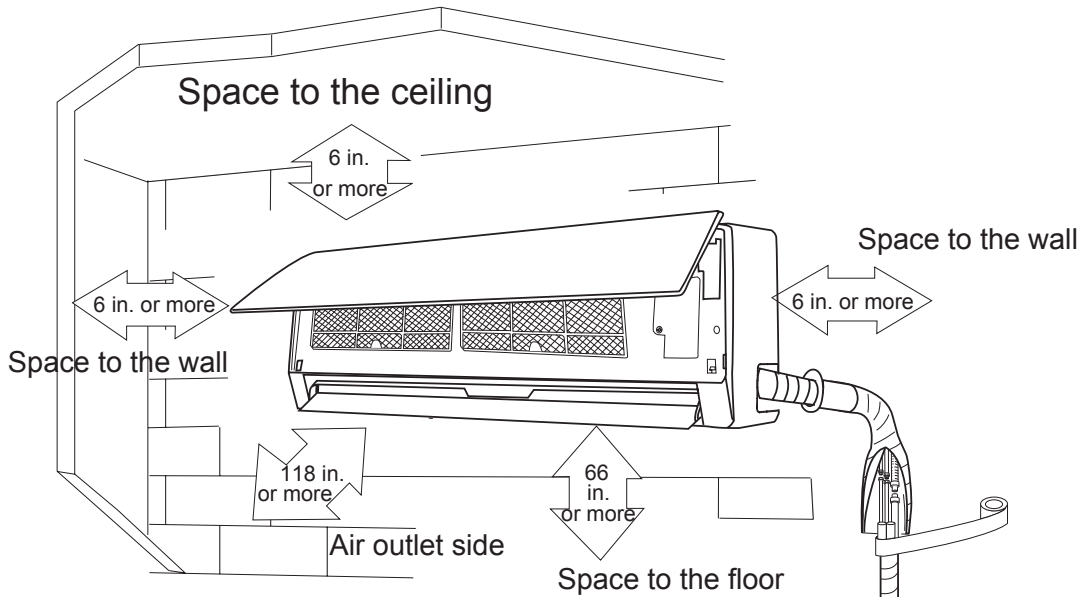


Unit: inch

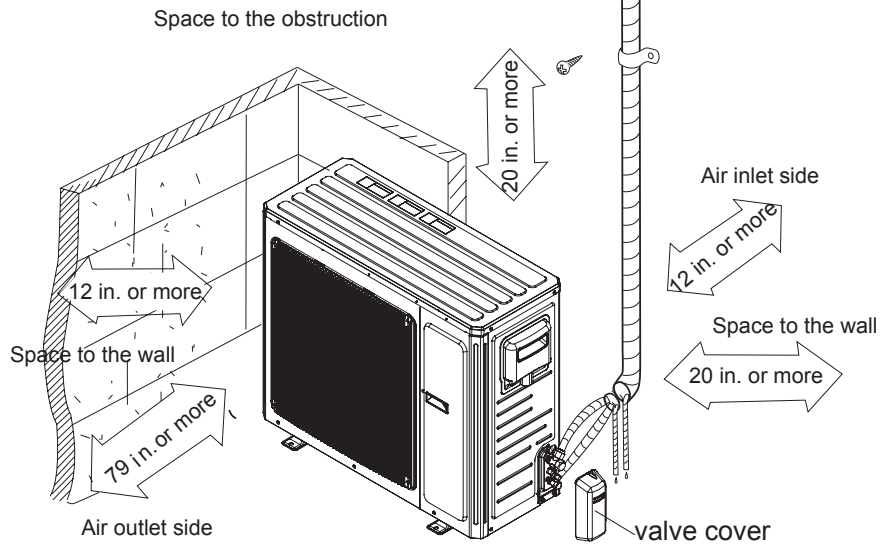
MODEL	W	H	D
09K	31 1/8	10 5/6	7 7/8
12K	33 1/4	11 3/8	8 1/4



Clearance Requirements



The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures



NOTE:

The maximum recommended height from the floor to the bottom of the indoor unit is 11.5 ft. (3.5 m).

Air Velocity Patterns for High Wall		
Max Horizontal Distance		
Unit: ft. (m)		
Model	Cooling Mode	Heating Mode
M4MHW1509A	13.1 (4)	13.1 (4)

Performance Data

COOLING PERFORMANCE

M4MHW1509A
M4THS1509A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature (Dry Bulb/Wet Bulb)							
	68/57°F		73/61°F		80/67°F		82/68°F	
	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
0	1300	1100	1400	1100	1600	1300	1700	1300
10	1600	1300	1700	1300	1900	1500	2000	1600
20	1800	1400	1900	1500	2200	1800	2300	1800
30	1900	1500	2000	1600	2300	1800	2400	1900
40	2000	1600	2100	1700	2400	1900	2400	2000
50	2100	1600	2200	1700	2500	2000	2600	2000
60	2300	1800	2400	2000	2600	2100	2900	2300
70	2500	2100	2700	2200	2900	2400	3100	2500
80	2500	2000	2600	2200	2800	2300	3000	2500
90	2300	1900	2500	2100	2700	2300	2900	2400
100	2200	1800	2300	2000	2600	2200	2800	2400
110	2100	1800	2200	1900	2500	2100	2700	2300
120	1900	1700	2100	1800	2400	2000	2600	2200

*Total Capacity **Sensible Heat Capacity

HEATING PERFORMANCE

M4MHW1509A
M4THS1509A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature			
	68°F	73°F	80°F	82°F
	TC*	TC	TC	TC
0	5300	5300	5200	5000
5	5600	5500	5400	5300
10	5900	5800	5700	5500
15	6000	5900	5800	5700
20	6300	6200	6100	6000
25	7000	6900	6700	6600
30	7500	7400	7300	7100
35	8100	8000	7800	7700
40	8700	8600	8500	8300
45	9600	9500	9300	9100
50	9800	9600	9400	9200
55	10000	9800	9600	9400
60	10200	10000	9800	9600
65	10300	10200	10000	9700
70	10500	10300	10100	9800
75	10600	10400	10200	9900

*Total Capacity

Capacities in these performance tables reflect normal operation at the temperatures indicated. See specification tables for certified values under prescribed test conditions.

Mechanical Specifications

Mini-Split Outdoor Unit

General

This unit is fully charged from the factory for up to 25 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities with the mini-split air handler shown in the catalog are AHRI certified. The unit is ETL listed for outdoor application.

Unit Casing

The unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor relay. High and low pressure controls are inherent to the compressor. A suction line multi function service valve is standard

Compressor

The compressor features internal over temperature and pressure protection; total dipped hermetic motor windings. Other features include: centrifugal oil pump and low vibration and noise.

Condenser Coil

The coil shall consist of aluminum finned coils brazed to copper tubing. The coil provides air flow resistance and efficient heat transfer. The coil is protected by the casing.

Low Ambient Cooling

Matched Ameristar ductless products, have cooling capabilities at outdoor ambient temperatures as low as 0° F.

Mini-Split Indoor High Wall

General

The High Wall mounted type air handler shall be completely factory assembled including coil, condensate drain pan, fan motor, washable filter, air purifying filter and electric controls to be used with a wireless remote controller. Unit shall be shipped with a unit mounting plate. Unit shall be matched with an Ameristar outdoor unit, rated and tested in accordance with AHRI standard. Unit shall be ETL listed.

Unit Casing

Casing shall be provided with knockouts on the right, and left of the unit to facilitate piping and electrical connection on either side of the unit. An electrical service cover shall be provided to permit easy access to the electrical terminal strip.

Discharge Airflow and Distribution System

Unit shall have auto swing, dual horizontal blades to optimize the aperture outlet for vertical airflow and air distribution. Blade shall close automatically when the air conditioner is turned off to minimize dust entering the unit. Five-Step preset program on the remote controller shall be available to control the blade angle.

Manually adjusted wide-angle louvers shall be provided to adjust the coverage and direction of airflow.

Controls

Units shall have the capability to be controlled remotely through wall-mounted wired options (**sold separately**) as well as a wireless remote option.

Remote Controller

The unit shall have a wireless infrared remote controller with easy reading digital display panel to start, stop and regulate the air conditioner from a distance.

The wireless controller is included with all units.

Healthy Filters

The unit shall have an active carbon and catechin filter with the unit. The filters need to be cleaned at least once a year.



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SUBMITTAL

15 SERIES

Single Zone Mini-Split Inverter System

M4MHW1512A1N0A

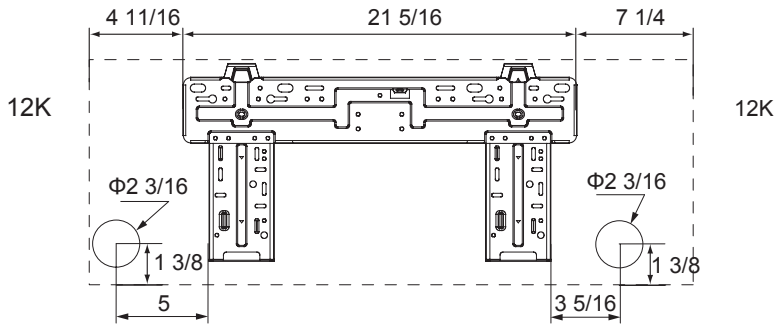
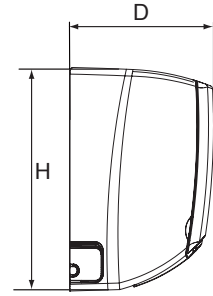
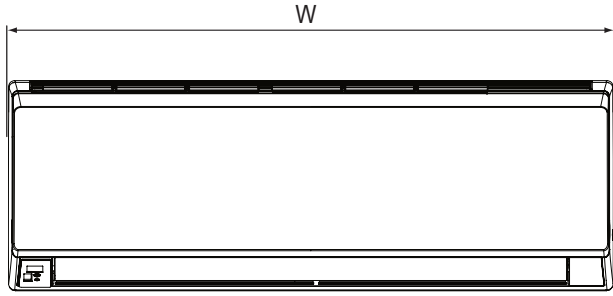
M4THS1512A11NA

Specifications

MODEL - Heat Pump Only	M4MHW1512A / M4THS1512A	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	12000	13000
Minimum Cooling Capacity (@95F) (Btu/h):	3700	-
Maximum Cooling Capacity (@95F) (Btu/h):	12500	-
Minimum Heating Capacity (@47F) (Btu/h):	-	3900
Maximum Heating Capacity (@47F) (Btu/h):	-	14000
Maximum Heating Capacity (@17F) (Btu/h):	-	8100
Total Capacity (W) (High/Standard/Low):	3600 / 3500 / 1100	4100 / 3800 / 1100
Rated Power Input (W)	1300	1250
Nominal Input Current (A)	5.8	5.6
SEER / HSPF	15.00	9.0
Air Flow Volume (CFM) (SH/H/M/L)	390 / 310 / 250 / 190	
Dehumidifying Volume (pt./h)	2.96	
EER (Btu/W hr) / COP	9.25	10.4
Indoor Unit		
M4MHW1512A1N0		
Fan Motor Speed (r/min) (SH/H/M/L)	1350 / 1200 / 1000 / 800 1350 / 1200 / 1000 / 900	
Fan Motor RLA(A)	0.31	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	1/5	
Row Fin Gap (inch)	2 - 1/18	
Coil length (L) x depth (D) x coil width (W) (inch)	25 x 7/8 x 12 1/16	
Output of Swing Motor (W)	1.5	
Fuse (A)	3.15	
Sound Power Level dB (A)(SH/H/M/L)	55 / 49 / 45 / 39	
Sound PRESSURE Level dB (A)(SH/H/M/L) ①	45 / 39 / 35 / 29	
Uncrated Dimension (W/H/D) (inch)	33 1/4 x 11 3/8 x 8 2/9	
Crated Dimension of Package (L/W/H) (inch)	36 1/4 x 11 x 15	
Net Weight /Gross Weight (lbs)	23.2 / 28.7	
Outdoor Unit		
M4THS1512A11N		
Compressor Type	Swing Rotary	
Compressor Oil	DAPHNE FVC50K (PVE Oil)	
L.R.A. (A)	16.50	
Compressor RLA(A)	6.60	
Compressor Power Input(W)	845	
Throttling Method	Capillary	
Working Temp Range (°F)	0 - 115 -4 - 75	
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	2/7	
Row Fin Gap (inch)	2 - 1/18	
Coil length (l) x depth (D) x coil width (W) (inch)	28 x 1 1/2 x 20	
Fan Motor Speed (rpm)	820±20	
Output of Fan Motor (W)	30	
Fan Motor RLA (A)	0.37	
Air Flow Volume of Outdoor Unit (CFM)	942	
Fan Diameter (inch)	15 3/4	
Defrosting Method	Automatic Defrosting	
Sound Power Level dB (A)	63	
Sound PRESSURE Level dB (A) ①	53	
Uncrated Dimension (W/H/D) (inch)	30 5/9 x 21 1/4 x 12 3/5	
Crated Dimension of Package (W/L/H) (inch)	33 1/2 x 14 2/7 x 23 3/7	
Net Weight /Gross Weight (lbs)	69.5 / 75.0	
Refrigerant Charge (oz)	30.0	
MCA	9.0	
MOP	15.0	
Connection Pipe		
Gas additional charge(oz/ft)	0.2	
Outer Diameter Liquid Pipe (inch)	1/4	
Outer Diameter Gas Pipe (inch)	3/8	
Max Height Distance (ft)	65	
Max Length Distance (ft)	100	

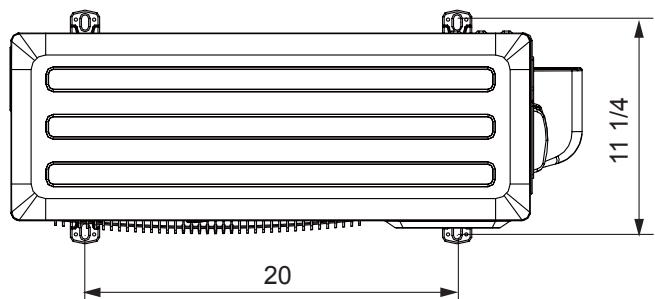
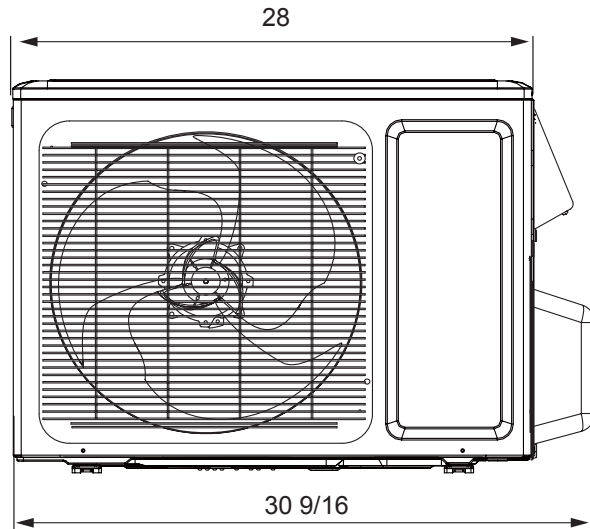
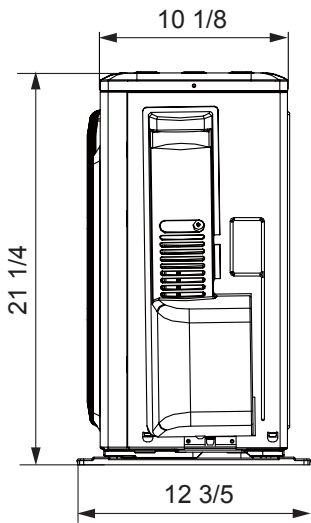
① Sound PRESSURE Level @ 3.3 ft. dB(A)

Unit Dimensions

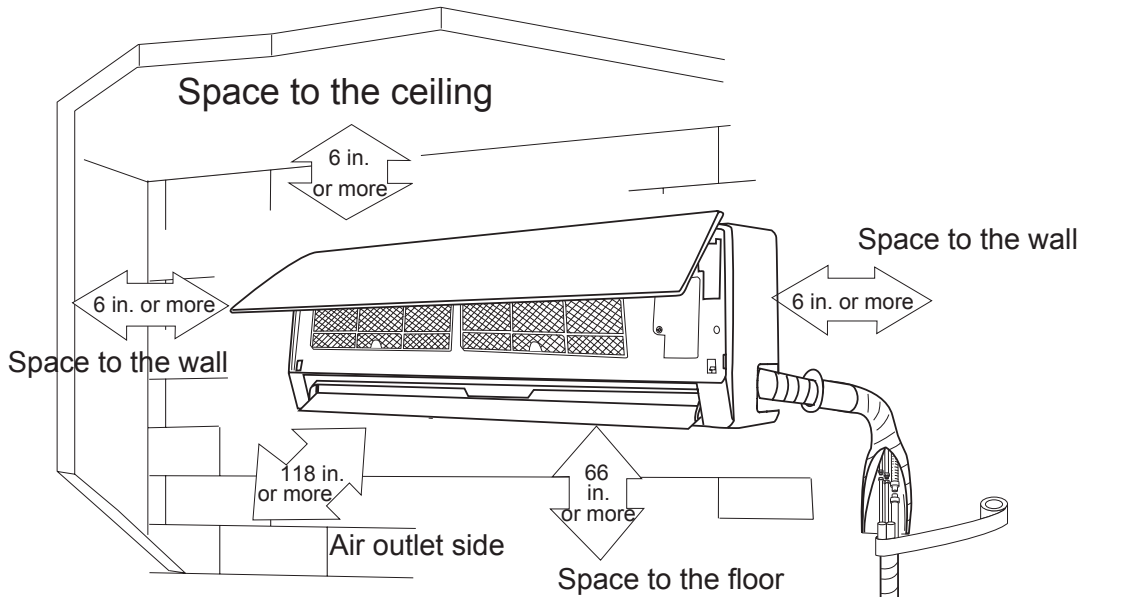


Unit: inch

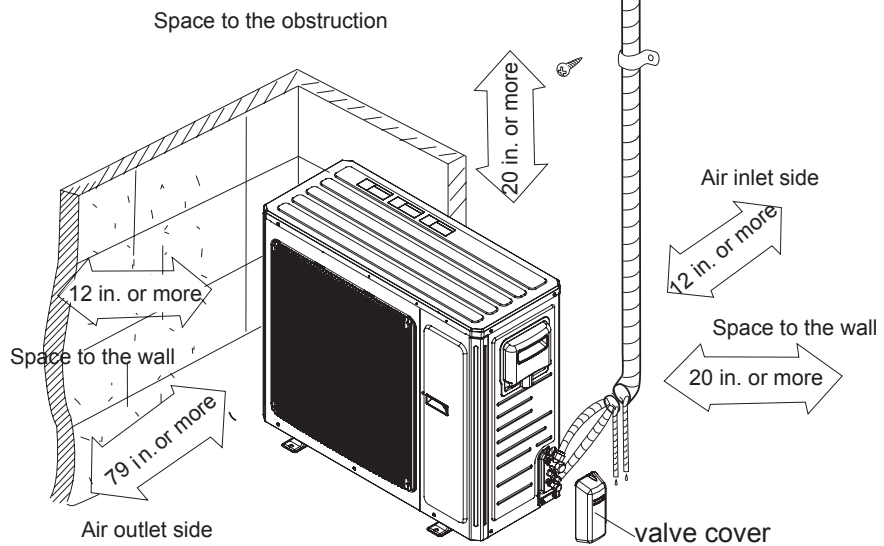
MODEL	W	H	D
09K	31 1/8	10 5/6	7 7/8
12K	33 1/4	11 3/8	8 1/4



Clearance Requirements



The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures



NOTE:

The maximum recommended height from the floor to the bottom of the indoor unit is 11.5 ft. (3.5 m).

Air Velocity Patterns for High Wall		
Max Horizontal Distance		
Unit: ft. (m)		
Model	Cooling Mode	Heating Mode
M4MHW1512A	29.5 (9)	19.7 (6)

Performance Data

COOLING PERFORMANCE

M4MHW1512A
M4THS1512A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature (Dry Bulb/Wet Bulb)							
	68/57°F		73/61°F		80/67°F		82/68°F	
	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
0	5100	4000	5400	4200	6700	5200	6600	5100
10	7000	5500	7400	5800	8500	6700	8800	6900
20	7800	6100	8300	6500	9400	7400	9800	7700
30	8300	6500	8900	6900	10100	8000	10600	8300
40	10000	7900	10700	8400	11800	9200	12800	10000
50	11600	9100	12300	9600	13100	10300	14100	11100
60	11400	8900	12100	9500	13000	10200	13900	10900
70	11100	8700	11800	9300	12800	10100	13700	10700
80	10800	8500	11500	9000	12600	9900	13500	10600
90	10500	8200	11200	8800	12300	9600	13300	10400
100	10000	7900	10700	8400	11900	9300	12900	10100
110	9500	7400	10200	8000	11400	8900	12300	9700
120	8900	7000	9600	7500	10900	8500	11800	9200

*Total Capacity **Sensible Heat Capacity

HEATING PERFORMANCE

M4MHW1512A
M4THS1512A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature			
	68°F	73°F	80°F	82°F
	TC*	TC	TC	TC
0	7400	7300	7100	7000
5	7700	7600	7400	7300
10	8100	8000	7800	7600
15	8300	8200	8000	7800
20	8700	8600	8400	8200
25	9600	9500	9300	9100
30	10300	10200	10000	9800
35	11000	10900	10700	10500
40	11700	11600	11400	11200
45	12700	12500	12300	12100
50	13300	13100	12800	12500
55	13500	13200	13000	12600
60	13700	13500	13200	12900
65	14000	13800	13500	13200
70	14200	14000	13700	13400
75	14400	14200	13900	13500

*Total Capacity

Capacities in these performance tables reflect normal operation at the temperatures indicated. See specification tables for certified values under prescribed test conditions.

Mechanical Specifications

Mini-Split Outdoor Unit

General

This unit is fully charged from the factory for up to 25 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities with the mini-split air handler shown in the catalog are AHRI certified. The unit is ETL listed for outdoor application.

Unit Casing

The unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor relay. High and low pressure controls are inherent to the compressor. A suction line multi function service valve is standard

Compressor

The compressor features internal over temperature and pressure protection; total dipped hermetic motor windings. Other features include: centrifugal oil pump and low vibration and noise.

Condenser Coil

The coil shall consist of aluminum finned coils brazed to copper tubing. The coil provides air flow resistance and efficient heat transfer. The coil is protected by the casing.

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Matched Ameristar ductless products, have cooling capabilities at outdoor ambient temperatures as low as 0° F.

Mini-Split Indoor High Wall

General

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Single Zone Mini-Split Inverter System

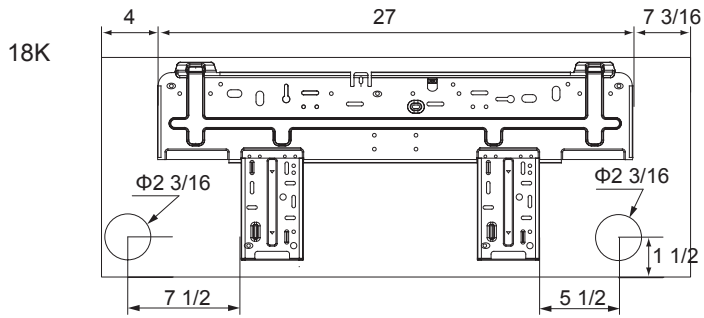
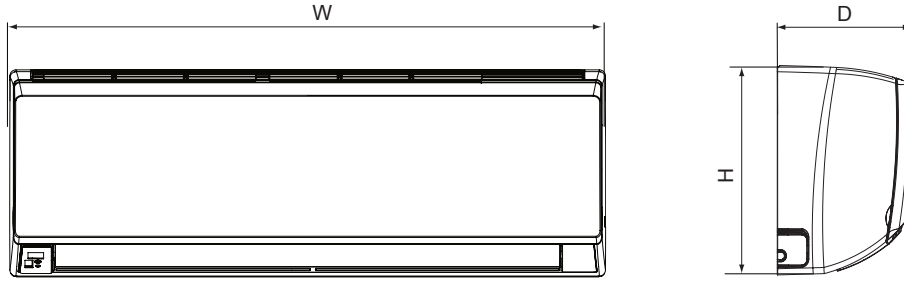
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M4THS1518A11NA

Specifications

MODEL - Heat Pump Only	M4MHW1518A / M4THS1518A	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	18000	19000
Minimum Cooling Capacity (@95F) (Btu/h):	7100	-
Maximum Cooling Capacity (@95F) (Btu/h):	20000	-
Minimum Heating Capacity (@47F) (Btu/h):	-	7300
Maximum Heating Capacity (@47F) (Btu/h):	-	23400
Maximum Heating Capacity (@17F) (Btu/h):	-	12000
Total Capacity (W) (High/Standard/Low):	5800 / 5200 / 2100	6800 / 5500 / 2100
Rated Power Input (W)	1920	2000
Nominal Input Current (A)	8.5	8.9
SEER / HSPF	15.0	9.0
Air Flow Volume (CFM) (SH/H/M/L)	470 / 400 / 340 / 280	
Dehumidifying Volume (pt./h)	3.8	
EER (Btu/W hr)/COP	9.0	9.5
Indoor Unit	M4MHW1518A1N0	
Fan Motor Speed (r/min) (SH/H/M/L)	1350 / 1200 / 1050 / 900	1300 / 1200 / 1100 / 900
Fan Motor RLA(A)	0.30	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	2/7	
Row Fin Gap (inch)	2 - 1/18	
Coil length (L) x depth (D) x coil width (W) (inch)	28 1/7 x 1 x 12	
Output of Swing Motor (W)	2.5	
Fuse (A)	3.15	
Sound Power Level dB (A)(SH/H/M/L)	56 / 52 / 49 / 45	
Sound PRESSURE Level dB (A)(SH/H/M/L) ①	46 / 42 / 39 / 35	
Uncrated Dimension (W/H/D) (inch)	38 1/5 x 11 4/5 x 8 5/6	
Crated Dimension of Package (L/W/H) (inch)	41 x 15 x 12 3/5	
Net Weight /Gross Weight (lbs)	29.8 / 36.4	
Outdoor Unit	M4THS1518A11N	
Compressor Type	Rotary	
Compressor Oil	RB68EB (POE Oil)	
L.R.A. (A)	16.5	
Compressor RLA(A)	12.08	
Compressor Power Input(W)	1440	
Throttling Method	Capillary	
Working Temp Range (°F)	0 - 115	-4 - 75
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	3/8	
Row Fin Gap (inch)	1 - 1/18	
Coil length (l) x depth (D) x coil width (W) (inch)	33 5/8 x 6/7 x 26	
Fan Motor Speed (rpm)	800	
Output of Fan Motor (W)	60	
Fan Motor RLA (A)	0.52	
Air Flow Volume of Outdoor Unit (CFM)	1883	
Fan Diameter (inch)	20.5	
Defrosting Method	Automatic Defrosting	
Sound Power Level dB (A)	66	
Sound PRESSURE Level dB (A) ①	56	
Uncrated Dimension (W/H/D) (inch)	37 3/5 x 27 5/9 x 15 3/5	
Crated Dimension of Package (W/L/H) (inch)	40 1/2 x 18 x 29 1/2	
Net Weight /Gross Weight (lbs)	95.9 / 105.8	
Refrigerant Charge (oz)	49.4	
MCA	16.0	
MOP	25.0	
Connection Pipe		
Gas additional charge(oz/ft)	0.2	
Outer Diameter Liquid Pipe (inch)	1/4	
Outer Diameter Gas Pipe (inch)	1/2	
Max Height Distance (ft)	65	
Max Length Distance (ft)	130	

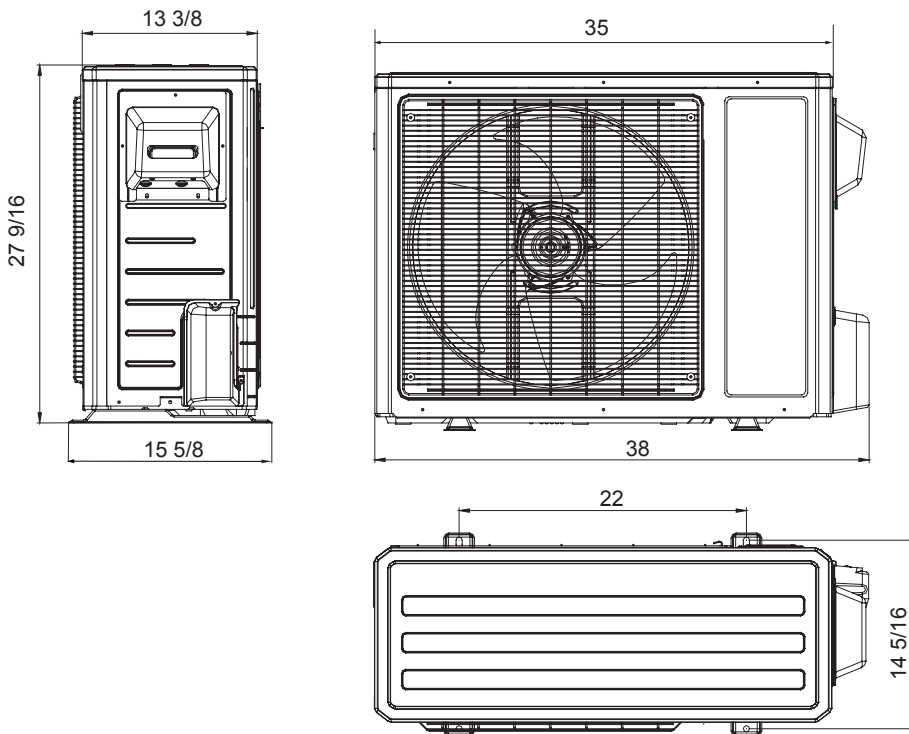
① Sound PRESSURE Level @ 3.3 ft. dB(A)

Unit Dimensions



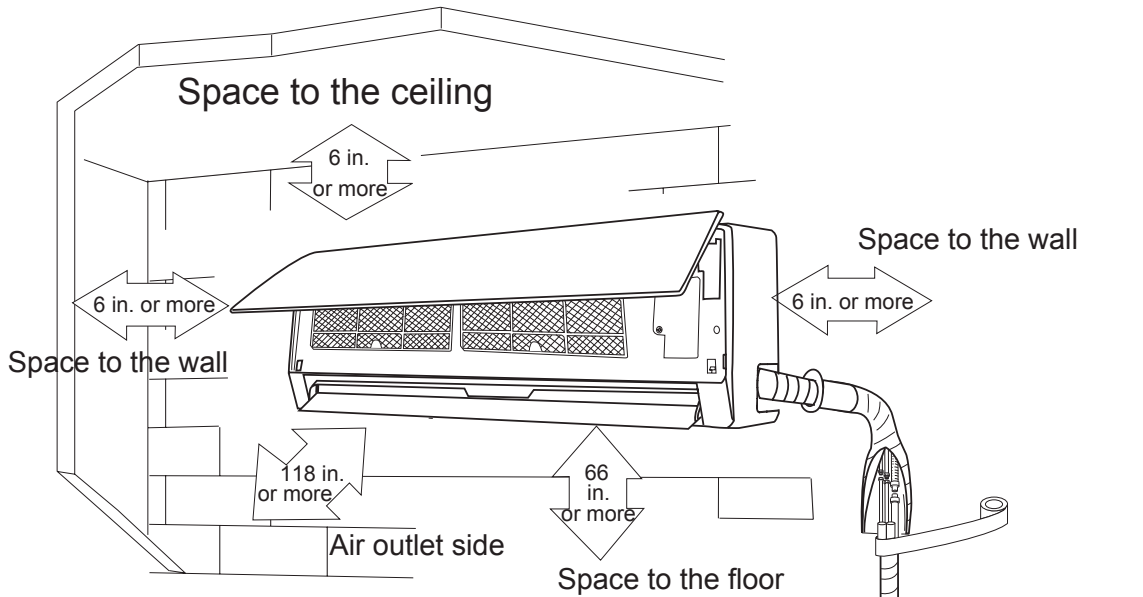
Unit: inch

Models	W	H	D
18K	38 1/4	11 13/16	8 7/8
24K	42 1/2	12 13/16	9 11/16

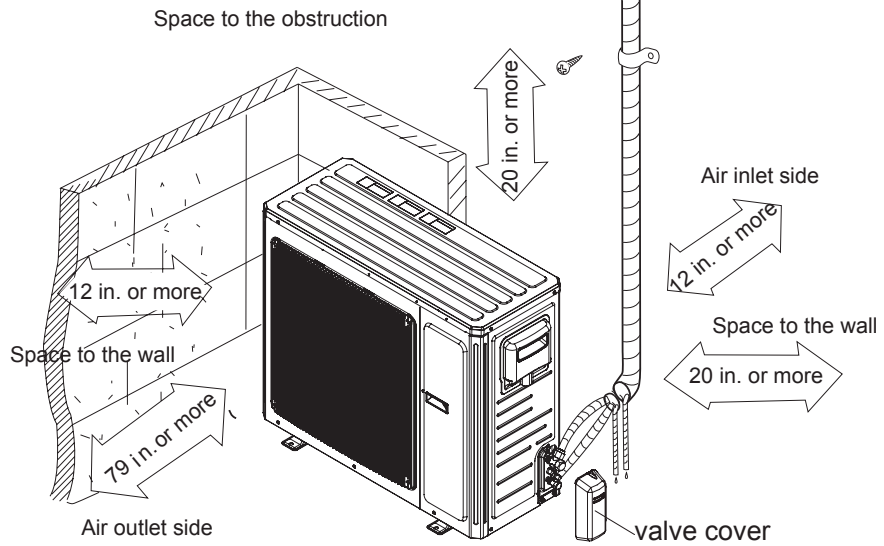


Unit: inch

Clearance Requirements



The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures



NOTE:

The maximum recommended height from the floor to the bottom of the indoor unit is 11.5 ft. (3.5 m).

Air Velocity Patterns for High Wall		
Max Horizontal Distance		
Unit: ft. (m)		
Model	Cooling Mode	Heating Mode
M4MHW1518A	30.2 (9.2)	21.3 (6.5)

Performance Data

COOLING PERFORMANCE

M4MHW1518A
M4THS1518A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature (Dry Bulb/Wet Bulb)							
	68/57°F		73/61°F		80/67°F		82/68°F	
	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
0	9500	7400	9900	7700	11200	8800	11900	9300
10	11200	8800	11900	9300	13400	10500	13800	10800
20	12700	10000	13600	10600	15500	12100	15900	12500
30	13500	10600	14400	11300	16500	13000	17000	13400
40	14100	11000	15000	11800	17200	13500	17700	13900
50	14600	11500	15700	12300	17900	14100	18500	14500
60	16100	12600	17200	13500	18800	14800	19400	15200
70	18000	14100	19100	15000	20400	16000	21000	16500
80	17500	13700	18600	14600	20100	15700	20700	16200
90	16500	12900	17300	13600	19300	15100	19900	15600
100	15600	12200	15900	12500	18000	14100	18500	14500
110	14700	11500	15200	11900	16600	13000	17100	13400
120	13800	10900	14600	11400	15200	11900	15600	12300

*Total Capacity **Sensible Heat Capacity

HEATING PERFORMANCE

M4MHW1518A
M4THS1518A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature			
	68°F	73°F	80°F	82°F
	TC*	TC	TC	TC
0	11600	11400	11200	11100
5	12500	12300	12100	12000
10	13200	13000	12800	12600
15	14300	14100	13900	13800
20	15700	15500	15200	15100
25	16400	16100	15800	15700
30	16900	16600	16200	16100
35	17700	17400	17000	16900
40	18700	18400	18100	17900
45	19600	19300	19000	18800
50	20000	19700	19300	19100
55	20300	19900	19500	19300
60	20700	20300	19900	19700
65	21100	20700	20300	20100
70	21400	21000	20600	20400
75	21700	21300	20900	20700

*Total Capacity

Capacities in these performance tables reflect normal operation at the temperatures indicated. See specification tables for certified values under prescribed test conditions.

Mechanical Specifications

Mini-Split Outdoor Unit

General

This unit is fully charged from the factory for up to 25 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities with the mini-split air handler shown in the catalog are AHRI certified. The unit is ETL listed for outdoor application.

Unit Casing

The unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor relay. High and low pressure controls are inherent to the compressor. A suction line multi function service valve is standard

Compressor

The compressor features internal over temperature and pressure protection; total dipped hermetic motor windings. Other features include: centrifugal oil pump and low vibration and noise.

Condenser Coil

The coil shall consist of aluminum finned coils brazed to copper tubing. The coil provides air flow resistance and efficient heat transfer. The coil is protected by the casing.

Low Ambient Cooling

Matched Ameristar ductless products, have cooling capabilities at outdoor ambient temperatures as low as 0° F.

Mini-Split Indoor High Wall

General

The High Wall mounted type air handler shall be completely factory assembled including coil, condensate drain pan, fan motor, washable filter, air purifying filter and electric controls to be used with a wireless remote controller. Unit shall be shipped with a unit mounting plate. Unit shall be matched with an Ameristar outdoor unit, rated and tested in accordance with AHRI standard. Unit shall be ETL listed.

Unit Casing

Casing shall be provided with knockouts on the right, and left of the unit to facilitate piping and electrical connection on either side of the unit. An electrical service cover shall be provided to permit easy access to the electrical terminal strip.

Discharge Airflow and Distribution System

Unit shall have auto swing, dual horizontal blades to optimize the aperture outlet for vertical airflow and air distribution. Blade shall close automatically when the air conditioner is turned off to minimize dust entering the unit. Five-Step preset program on the remote controller shall be available to control the blade angle.

Manually adjusted wide-angle louvers shall be provided to adjust the coverage and direction of airflow.

Controls

Units shall have the capability to be controlled remotely through wall-mounted wired options (**sold separately**) as well as a wireless remote option.

Remote Controller

The unit shall have a wireless infrared remote controller with easy reading digital display panel to start, stop and regulate the air conditioner from a distance.

The wireless controller is included with all units.

Healthy Filters

The unit shall have an active carbon and catechin filter with the unit. The filters need to be cleaned at least once a year.



TAG: _____

SUBMITTAL

15 SERIES

Single Zone Mini-Split Inverter System

M4MHW1524A1N0A

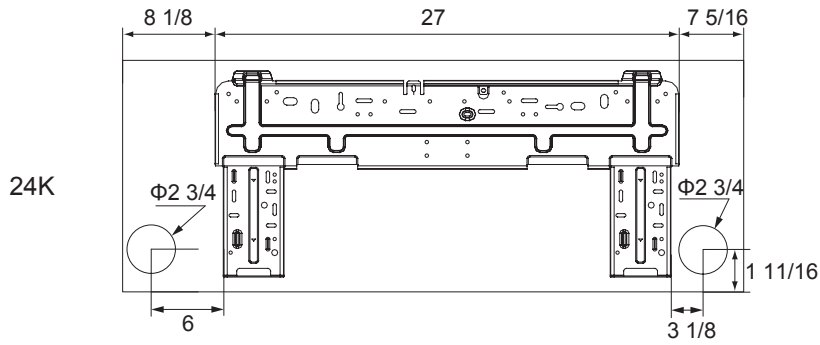
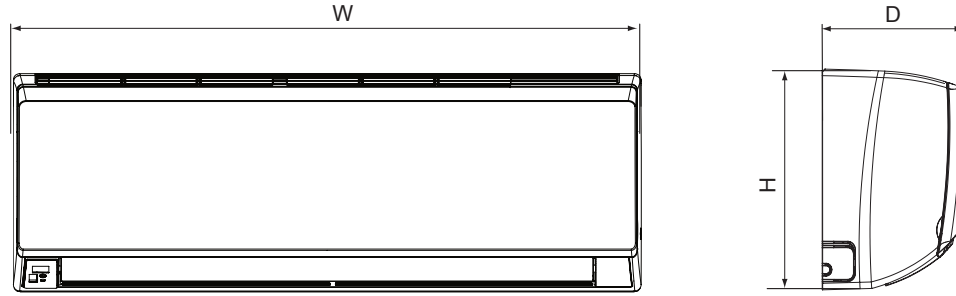
M4THS1524A11NA

Specifications

MODEL - Heat Pump Only	M4MHW1524A / M4THS1524A	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	22000	23000
Minimum Cooling Capacity (@95F) (Btu/h):	8600	-
Maximum Cooling Capacity (@95F) (Btu/h):	23200	-
Minimum Heating Capacity (@47F) (Btu/h):	-	8600
Maximum Heating Capacity (@47F) (Btu/h):	-	26000
Maximum Heating Capacity (@17F) (Btu/h):	-	13500
Total Capacity (W) (High/Standard/Low):	6800 / 6400 / 2500	7600 / 6600 / 2500
Rated Power Input (W)	2260	2300
Nominal Input Current (A)	10.0	10.2
SEER / HSPF	15.0	9.0
Air Flow Volume (CFM) (SH/H/M/L)	700 / 640 / 580 / 520	
Dehumidifying Volume (pt./h)	5.3	
EER (Btu/W hr) / COP	9.8	10.0
Indoor Unit		
	M4MHW1524A1N0	
Fan Motor Speed (r/min) (SH/H/M/L)	1250 / 1100 / 900 / 800 1150 / 1000 / 900 / 850	
Fan Motor RLA(A)	0.32	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	2/7	
Row Fin Gap (inch)	2 - 1/17	
Coil length (L) x depth (D) x coil width (W) (inch)	33 1/4 x 1 x 13 1/2	
Output of Swing Motor (W)	2.5	
Fuse (A)	3.15	
Sound Power Level dB (A)(SH/H/M/L)	58 / 54 / 50 / 46	
Sound PRESSURE Level dB (A)(SH/H/M/L) ①	48 / 44 / 40 / 36	
Uncrated Dimension (W/H/D) (inch)	42 4/9 x 12 4/5 x 9 2/3	
Crated Dimension of Package (L/W/H) (inch)	45 1/5 x 16 1/4 x 13 7/9	
Net Weight /Gross Weight (lbs)	37.5 / 45.2	
Outdoor Unit		
	M4THS1524A11N	
Compressor Type	Rotary	
Compressor Oil	RB68EB (POE Oil)	
L.R.A. (A)	25.0	
Compressor RLA(A)	12.18	
Compressor Power Input(W)	1440	
Throttling Method	Capillary	
Working Temp Range (°F)	0 - 115 -4 - 75	
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	3/8	
Row Fin Gap (inch)	2 - 1/18	
Coil length (l) x depth (D) x coil width (W) (inch)	33 1/3 x 1 3/4 x 26	
Fan Motor Speed (rpm)	800	
Output of Fan Motor (W)	60	
Fan Motor RLA (A)	0.40	
Air Flow Volume of Outdoor Unit (CFM)	1883	
Fan Diameter (inch)	20.5	
Defrosting Method	Automatic Defrosting	
Sound Power Level dB (A)	69	
Sound PRESSURE Level dB (A) ①	59	
Uncrated Dimension (W/H/D) (inch)	37 3/5 x 27 5/9 x 15 3/5	
Crated Dimension of Package (W/L/H) (inch)	40 1/2 x 18 x 29 1/2	
Net Weight /Gross Weight (lbs)	110.3 / 120.2	
Refrigerant Charge (oz)	65.3	
MCA	16.0	
MOP	25.0	
Connection Pipe		
Gas additional charge(oz/ft)	0.5	
Outer Diameter Liquid Pipe (inch)	1/4	
Outer Diameter Gas Pipe (inch)	5/8	
Max Height Distance (ft)	65	
Max Length Distance (ft)	130	

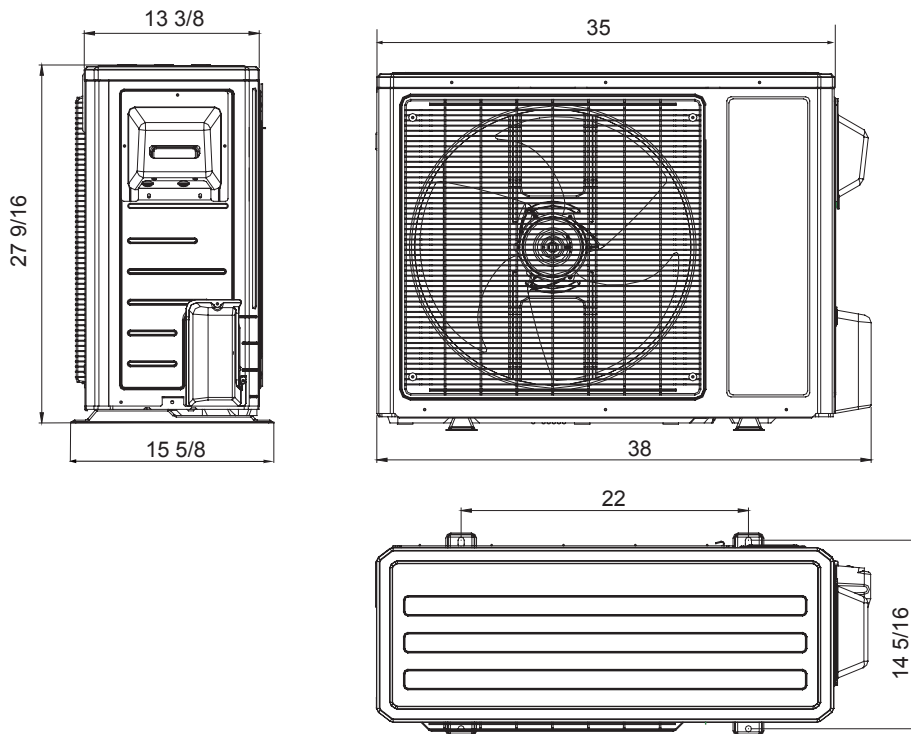
① Sound PRESSURE Level @ 3.3 ft. dB(A)

Unit Dimensions



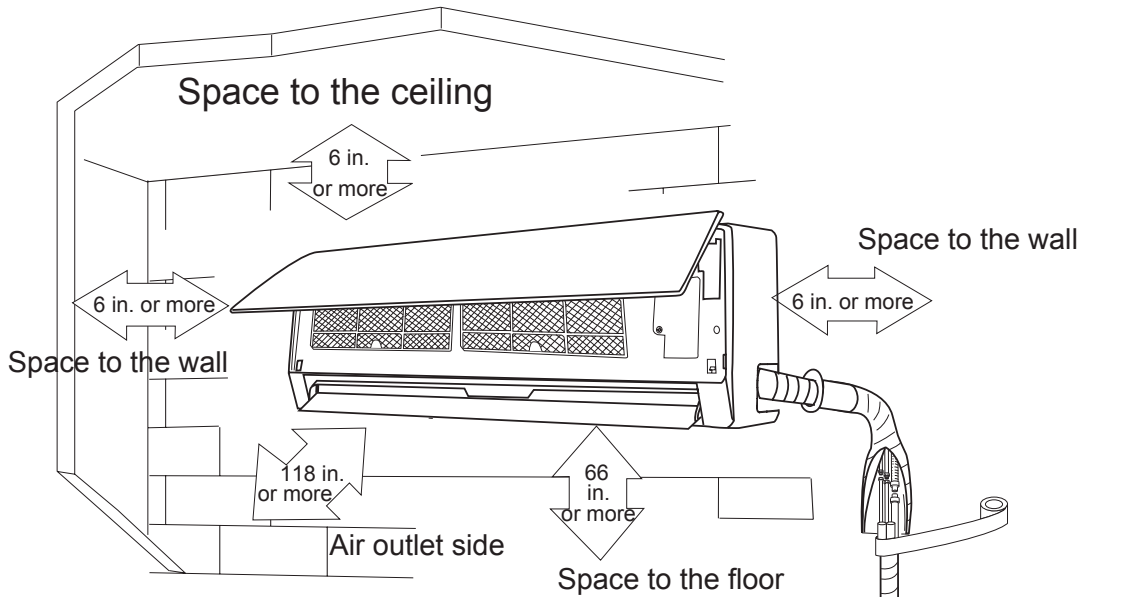
Unit: inch

Models	W	H	D
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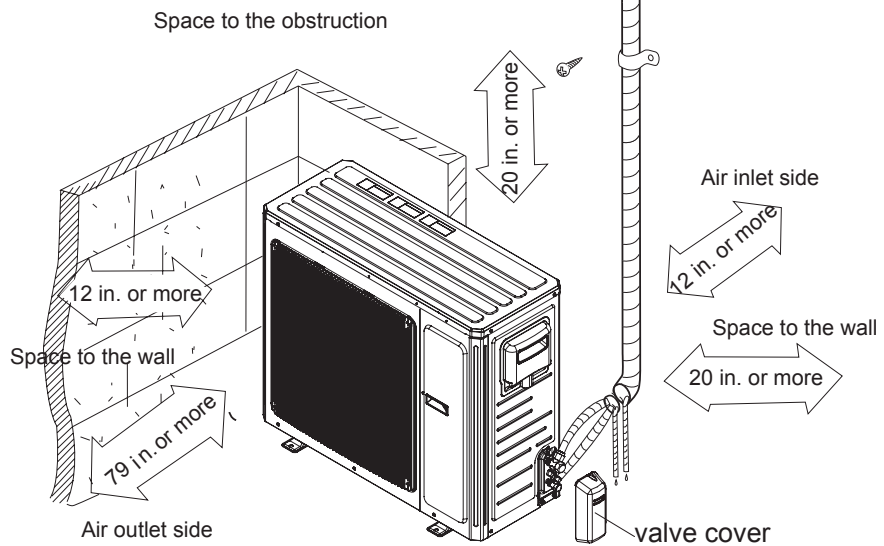


Unit: inch

Clearance Requirements



The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures



NOTE:

The maximum recommended height from the floor to the bottom of the indoor unit is 11.5 ft. (3.5 m).

Air Velocity Patterns for High Wall		
Max Horizontal Distance		
Unit: ft. (m)		
Model	Cooling Mode	Heating Mode
M4MHW1524A	31.2 (9.5)	23 (7)

Performance Data

COOLING PERFORMANCE

M4MHW1524A
M4THS1524A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature (Dry Bulb/Wet Bulb)							
	68/57°F		73/61°F		80/67°F		82/68°F	
	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
0	10900	8500	11400	8900	12900	10100	13100	10300
10	13200	10400	14000	10900	15700	12300	16200	12700
20	15000	11700	15900	12500	18200	14300	18700	14700
30	15900	12400	17000	13300	19400	15200	20000	15700
40	16500	13000	17700	13900	20300	15900	20900	16400
50	17200	13500	18400	14400	21100	16500	21700	17000
60	19000	14900	20300	15900	22100	17400	22800	17900
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100	18300	14400	18700	14700	21200	16600	21800	17100
110	17300	13600	17900	14000	19500	15300	20100	15700
120	16300	12800	17100	13400	17900	14000	18400	14400

*Total Capacity **Sensible Heat Capacity

HEATING PERFORMANCE

M4MHW1524A
M4THS1524A

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature			
	68°F	73°F	80°F	82°F
	TC*	TC	TC	TC
0	12800	12500	12300	12200
5	13300	13100	12900	12700
10	15000	14800	14500	14400
15	16200	16000	15700	15500
20	17600	17400	16900	16700
25	18500	18200	17900	17800
30	19100	18800	18500	18300
35	20000	19800	19400	19200
40	21300	21000	20600	20400
45	22500	22200	21700	21500
50	23000	22600	22100	21900
55	23300	22900	22400	22200
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65	24200	23800	23300	23100
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Compressor

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Condenser Coil

The coil shall consist of aluminum finned coils brazed to copper tubing. The coil provides air flow resistance and efficient heat transfer. The coil is protected by the casing.

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Mini-Split Indoor High Wall

General

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