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SUBMITTAL

23 SERIES

Specifications – IP

Single Zone Mini-Split Inverter System

M4MHW2318A1N0A

M4THS2318A11NA

MODEL - Heat Pump Only	M4MHW2318A1N0A / M4THS2318A11NA	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	18000	18200
Minimum Cooling Capacity (@95°F) (Btu/h): ②	5118	-
Maximum Cooling Capacity (@95°F) (Btu/h): ②	23202	-
Minimum Heating Capacity (@47°F) (Btu/h): ②	-	5800
Maximum Heating Capacity (@47°F) (Btu/h): ②	-	23543
Rated Heating Capacity (@17°F) (Btu/h): ②	-	-
Total Capacity (W) (High/Standard/Low):	6800/5275/1500	6900/5335/1700
Nominal Power Input (W)	1435	1460
Nominal Input Current (A)	11	12
SEER / HSPF	23	11
EER (Btu/h)/W / COP	13	3.66
Air Flow Volume (CFM) ③	618/530/471/441/412/383/353	
Dehumidifying Volume (pt./h)	3.8	

Indoor Unit	M4MHW2318A1N0A	
	Fan Motor Speed (r/min)	1400/1200/1120/1050 980/860/750
Fan Motor RLA(A)	0.25	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	2/7	
Rows - Fin Gap (inch)	2-1/18	
Coil length (L) x depth (D) x coil width (W) (inch)	29.33 x 0.9 x 13.5	
Output of Swing Motor (W)	1.5	
Fuse (A)	3.15	
Sound PRESSURE Level dB (A) ① ③	46/42/40/38/36/34/31	
Uncrated Dimension (W/H/D) (inch)	38 42/64 x 12 16/64 x 8 45/64	
Crated Dimension of Package (L/W/H) (inch)	41 7/64 x 15 10/64 x 11 44/64	
Net Weight /Gross Weight (lbs)	29.8 / 35.3	

Outdoor Unit	M4THS2318A11NA	
	Compressor Type	Rotary
Compressor Oil Type	RB68EP (POE Oil)	
Compressor RLA(A)	10.4	
Compressor Power Input(W)	1440	
Throttling Method	EEV	
Working Temp Range (°F)	-20 ~ 122	-22 ~ 86
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	φ 18/64	
Rows - Fin Gap (inch)	2-4/64	
Coil length (L) x depth (D) x coil width (W) (inch)	36.81 x 1.5 x 25.98	
Fan Motor Speed (rpm)	820	
Output of Fan Motor (W)	60	
Fan Motor RLA (A)	0.45	
Air Flow Volume of Outdoor Unit (CFM)	1882	
Fan Diameter (inch)	20.5	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A)①	57	
Uncrated Dimension (W/H/D) (inch)	37 63/64 x 27 36/64 x 15 38/64	
Crated Dimension of Package (L/W/H) (inch)	40 33/64 x 18 2/64 x 29 34/64	
Net Weight /Gross Weight (lbs)	103.6 / 113.6	
Refrigerant Charge (oz)	56.4	
MCA	15	
MOP	20	

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)	65.6
Max Length Distance (ft)	98.4

- ① Sound PRESSURE Level @ 3.3 ft. dB(A)
- ② Capacities based on fixed compressor speed AHRI validation testing
- ③ At noted fan motor speeds

Specifications – SI

MODEL - Heat Pump Only	M4MHW2318A1N0A / M4THS2318A11NA	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	18000	18200
Minimum Cooling Capacity (@35°C) (Btu/h): ②	5118	-
Maximum Cooling Capacity (@35°C) (Btu/h): ②	23202	-
Minimum Heating Capacity (@8.3°C) (Btu/h): ②	-	5800
Maximum Heating Capacity (@8.3°C) (Btu/h): ②	-	23543
Rated Heating Capacity (@-8.3°C) (Btu/h): ②	-	-
Total Capacity (W) (High/Standard/Low):	6800/5275/1500	6900/5335/1700
Nominal Power Input (W)	1384	1460
Nominal Input Current (A)	11	12
SEER / HSPF	23	11
EER (Btu/h)/W / COP	13	3.66
Air Flow Volume (m³/h) ③	1050/900/800/750/700/650/600	
Dehumidifying Volume (L/h)	1.8	
Indoor Unit		
	M4MHW2318A1N0A	
Fan Motor Speed (r/min)	1400/1200/1120/1050/ 980/860/750	1400/1200/1120/1050/ 950/850/750
Fan Motor RLA(A)	0.25	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (mm)	φ 7	
Rows - Fin Gap (mm)	2 - 1.4	
Coil length (L) x depth (D) x coil width (W) (mm)	745×22.8×342.9	
Output of Swing Motor (W)	1.5	
Fuse (A)	3.15	
Sound PRESSURE Level dB (A) ① ③	46/42/40/38/36/34/31	
Uncrated Dimension (W/H/D) (mm)	982×311×221	
Crated Dimension of Package (L/W/H) (mm)	1044×385×297	
Net Weight /Gross Weight (kg)	13.5/16	
Outdoor Unit		
	M4THS2318A11NA	
Compressor Type	Rotary	
Compressor Oil Type	RB68EP (POE Oil)	
Compressor RLA(A)	10.40	
Compressor Power Input(W)	1440	
Throttling Method	EEV	
Working Temp Range (°C)	-29 ~ 50	-30 ~ 30
Condenser	Aluminum Fin-copper Tube	
Pipe Diameter (mm)	φ 7	
Rows - Fin Gap (mm)	2-1.4	
Coil length (L) x depth (D) x coil width (W) (mm)	935×38.1×660	
Fan Motor Speed (rpm)	820	
Output of Fan Motor (W)	60	
Fan Motor RLA (A)	0.45	
Air Flow Volume of Outdoor Unit (m³/h)	3200	
Fan Diameter (mm)	520	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A)①	57	
Uncrated Dimension (W/H/D) (mm)	965×700×396	
Crated Dimension of Package (L/W/H) (mm)	1029×458×750	
Net Weight /Gross Weight (kg)	47/51.5	
Refrigerant Charge (kg)	1.6	
MCA	15	
MOP	20	
Connection Pipe		
Gas additional charge(g/m)	50	
Outer Diameter Liquid Pipe (mm)	φ 6	
Outer Diameter Gas Pipe (mm)	φ 16	
Max Height Distance (m)	20	
Max Length Distance (m)	30	

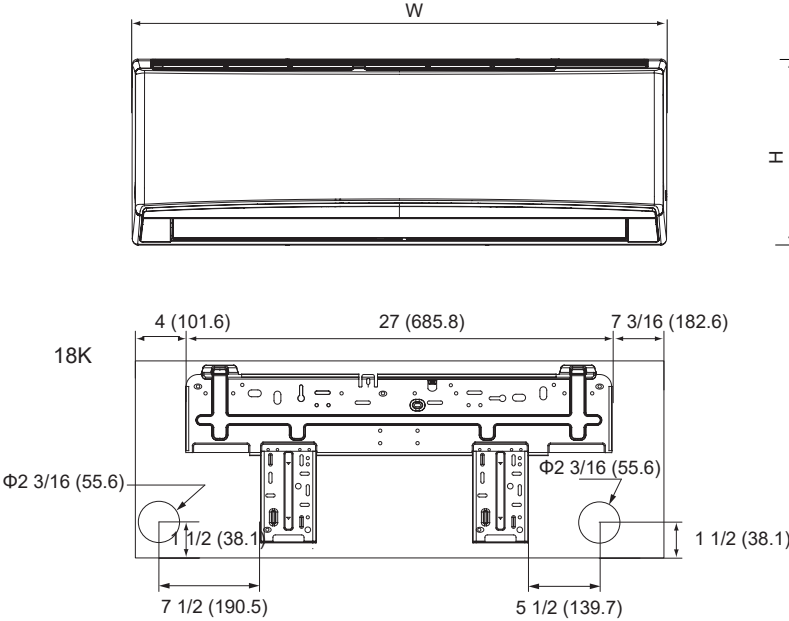
① Sound PRESSURE Level @ 1m dB(A)

② Capacities based on fixed compressor speed AHRI validation testing

③ At noted fan motor speeds

Unit Dimensions

18K Indoor Units

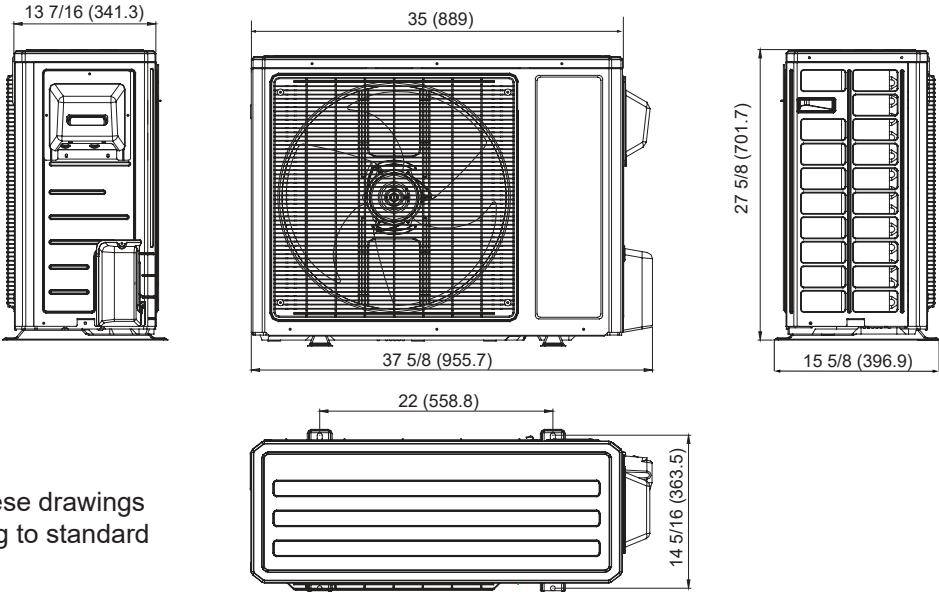


The dimensions in these drawings are rounded according to standard measurement.

Unit: inch (mm)

Model	W	H	D
18K	38 3/16 (970)	11 13/16 (300)	8 13/16 (224)

18K Outdoor Units



The dimensions in these drawings are rounded according to standard measurement.

Unit: inch (mm)

Performance Data

M4MHW2318A1N0A / M4THS2318A11NA - Cooling Mode Performance Data

Outdoor Ambient Air Temperature		Indoor Entering Air Temperature (Dry Bulb/Wet Bulb)							
		68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)	
Coil air		57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)	
DB F	DB C	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
-20	-29	7611	5632	7915	5936	8311	6150	8477	6612
-13	-25	8096	5991	8420	6315	8841	6543	9018	7034
-4	-20	8347	6177	8681	6511	9115	6745	9297	7252
0	-18	8695	6521	9042	6782	9359	6985	10763	8610
5	-15	10229	7672	10638	8511	11010	9685	13090	9782
14	-10	12786	9685	13319	10089	14020	10620	14160	10726
23	-5	13147	9872	13695	10284	14416	10825	14560	10933
32	0	13379	10100	13937	10521	14670	11075	14817	11186
41	5	14191	10742	14782	11190	15560	11779	15716	11897
50	10	14610	11081	15219	11543	16020	12150	16180	12272
59	15	15431	11541	16074	12022	16920	12655	17089	12782
68	20	15887	11927	16549	12424	17420	13078	17594	13209
77	25	16901	12651	17605	13178	18532	13872	18717	14011
86	30	19517	13071	20330	13615	21400	14332	21614	14475
95	35	21160	13955	22042	14537	23202	15302	23434	15455
104	40	19099	13675	19895	14244	20942	14994	21151	15144
113	45	15607	12192	16257	12700	17113	13368	17284	13502
122	50	12023	9320	12524	9708	13183	10219	13315	10321
129	54	8416	6564	8767	6837	9228	7197	9320	7269

*Total Capacity **Sensible Heat Capacity

M4MHW2318A1N0A / M4THS2318A11NA - Heating Mode Performance Data

Outdoor Ambient Air Temperature		Indoor Entering Air Temperature (Dry Bulb/Wet Bulb)							
		68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)	
Coil air		57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)	
DB F	DB C	TC*	TC	TC	TC	TC	TC	TC	TC
-22	-30	7842	7607	7302	7229				
-13	-25	8911	8644	8298	8215				
-4	-20	11139	10805	10373	10269				
0	-18	13105	12712	12203	12081				
6	-14	14661	14224	13559	13424				
10	-12	15964	15485	14866	14717				
16	-9	16804	16300	15648	15492				
19	-7	17324	16804	16132	15971				
24	-4	17841	17306	16614	16448				
32	0	18205	17659	16953	16783				
41	5	19536	18950	18192	18010				
43	6	21706	21055	20213	20011				
47	8	23340	22640	21734	21517				
53	12	24040	23319	22386	22162				
59	15	19232	18655	17909	17730				
64	18	19617	19028	18267	18084				
70	21	14713	14271	13700	13563				
75	24	10593	10275	9864	9766				
78	26	9004	8734	8385	8301				

*Total Capacity

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

Mechanical Specifications

Single Zone Outdoor Unit

General

This unit shall be fully charged from the factory for 25 feet (7.6m) of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F (46°C). 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 shall be constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Single Zone 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 a 18 Series Energy Star® 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.

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 airflow resistance and efficient heat transfer. The coil is protected by the casing.

Low Ambient Cooling

Matched 23 Series Energy Star® ductless products, have a cooling capability to -20°F (-29°C) and heating capability to -22° F (-30°C).

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.

Remote Controller

The unit shall have an optional wireless infrared remote controller with an easily readable 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 one combined active carbon and catechin filter with the unit. The filter needs to be cleaned at least once a year.

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com



The AHRI Certified mark indicates company participation in the AHRI Certification program. For verification of individual certified products, go to ahridirectory.org.

The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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