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SUBMITTAL

18 SERIES

**Single Zone Mini-Split
Inverter System**

M4MHW1818A1N0B

M4THS1818A11NB

Specifications - IP

MODEL - Heat Pump Only	M4MHW1818A1N0B / M4THS1818A11NB	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	18000	19800
Minimum Cooling Capacity (@95°F) (Btu/h): ②	6800	-
Maximum Cooling Capacity (@95°F) (Btu/h): ②	20000	-
Minimum Heating Capacity (@47°F) (Btu/h): ②	-	7300
Maximum Heating Capacity (@47°F) (Btu/h): ②	-	23500
Rated Heating Capacity (@17°F) (Btu/h): ②	-	12400
Total Capacity (W) (High/Standard/Low):	5860/5275/2000	6890/5800/2150
Nominal Power Input (W)	1435	1730
Nominal Input Current (A)	6.4	7.7
SEER / HSPF	18.0	10.7
EER / COP (Btu/h)/W	12.5	11.5
Air Flow Volume (CFM) (H/M/L/QUIET)	550/475/400/335	
Dehumidifying Volume (pt./h)	3.8	
Indoor Unit	M4MHW1818A1N0B	
Fan Motor Speed (r/min) (H/M/L/QUIET)	1400/1200/1050/800 1400/1200/1100/900	
Fan Motor RLA(A)	0.24	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	0.28	
Rows - Fin Gap (inch)	2 - 0.06	
Coil length (L) x depth (D) x coil width (W) (inch)	28.1 x 1 x 12	
Output of Swing Motor (W)	2.5	
Fuse (A)	3.15	
Sound PRESSURE Level dB (A)(H/M/L/QUIET) ①	47/43/40/39	
Uncrated Dimension (W/H/D) (inch)	38.2 x 11.8 x 8.8	
Crated Dimension of Package (L/W/H) (inch)	41 x 15.1 x 12.6	
Net Weight /Gross Weight (lbs)	27.6 / 34.2	
Outdoor Unit	M4THS1818A11NB	
Compressor Type	Rotary	
Compressor Oil Type	RB68EP (POE Oil)	
Compressor RLA(A)	12.1	
Compressor Power Input(W)	1440	
Throttling Method	EEV	
Working Temp Range (°F)	0 ~ 115 -4 ~ 75	
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	0.28	
Rows - Fin Gap (inch)	2 - 0.06	
Coil length (L) x depth (D) x coil width (W) (inch)	36.8 x 1.5 x 26	
Fan Motor Speed (rpm)	800	
Output of Fan Motor (W)	60	
Fan Motor RLA (A)	0.49	
Air Flow Volume of Outdoor Unit (CFM)	1108	
Fan Diameter (inch)	21.7	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A)①	55	
Uncrated Dimension (W/H/D) (inch)	37.6 x 27.6 x 15.6	
Crated Dimension of Package (L/W/H) (inch)	40.5 x 18.0 x 29.5	
Net Weight /Gross Weight (lbs)	105.8 / 115.8	
Refrigerant Charge (oz)	56	
MCA	16	
MOP	25	
Connection Pipe		
Gas additional charge(oz/ft)	0.2	
Outer Diameter Liquid Pipe (inch)	1/4	
Outer Diameter Gas Pipe (inch)	5/8	
Max Height Distance (ft)	55	
Max Length Distance (ft)	130	

① Sound PRESSURE Level @ 3.3 ft. dB(A)
 ② Capacities based on fixed compressor speed
 AHRI validation testing

Specifications - SI

MODEL - Heat Pump Only

M4MHW1818A1NOB / M4THS1818A11NB

	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	18000	19800
Minimum Cooling Capacity (@35°C) (Btu/h): ②	6800	-
Maximum Cooling Capacity (@35°C) (Btu/h): ②	20000	-
Minimum Heating Capacity (@8.3°C) (Btu/h): ②	-	7300
Maximum Heating Capacity (@8.3°C) (Btu/h): ②	-	23500
Rated Heating Capacity (@-8.3°C) (Btu/h): ②	-	12400
Total Capacity (W) (High/Standard/Low):	5860/5275/2000	6890/5800/2150
Nominal Power Input (W)	1435	1730
Nominal Input Current (A)	6.4	7.7
SEER / HSPF	18.0	10.7
EER / COP (Btu/h)/W	12.5	11.5
Air Flow Volume (m³/h) (H/M/L/QUIET)	950/830/700/570	
Dehumidifying Volume (L/h)	1.8	

Indoor Unit

M4MHW1818A1NOB

Fan Motor Speed (r/min) (H/M/L/QUIET)	1400/1200/1050/800	1400/1200/1100/900
Fan Motor RLA(A)	0.24	
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)	715×25.4×304.8	
Output of Swing Motor (W)	2.5	
Fuse (A)	3.15	
Sound PRESSURE Level dB (A)(H/M/L/QUIET) ①	47/43/40/39	
Uncrated Dimension (W/H/D) (mm)	970×300×224	
Crated Dimension of Package (L/W/H) (mm)	1041×383×320	
Net Weight /Gross Weight (kg)	12.5 / 15.5	

Outdoor Unit

M4THS1818A11NB

Compressor Type	Rotary	
Compressor Oil Type	RB68EP (POE Oil)	
Compressor RLA(A)	12.1	
Compressor Power Input(W)	1440	
Throttling Method	EEV	
Working Temp Range (°C)	-18 ~ 46	-20 ~ 24
Condenser	Aluminum Fin-copper Tube	
Pipe Diameter (mm)	φ 7	
Rows - Fin Gap (mm)	3 - 1.4	
Coil length (L) x depth (D) x coil width (W) (mm)	935×38.1×660	
Fan Motor Speed (rpm)	800	
Output of Fan Motor (W)	60	
Fan Motor RLA (A)	0.49	
Air Flow Volume of Outdoor Unit (m³h)	1883	
Fan Diameter (mm)	550	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A)①	55	
Uncrated Dimension (W/H/D) (mm)	955×700×396	
Crated Dimension of Package (L/W/H) (mm)	1029×458×750	
Net Weight /Gross Weight (kg)	48 / 52.5	
Refrigerant Charge (kg)	1.6	
MCA	16	
MOP	25	

Connection Pipe

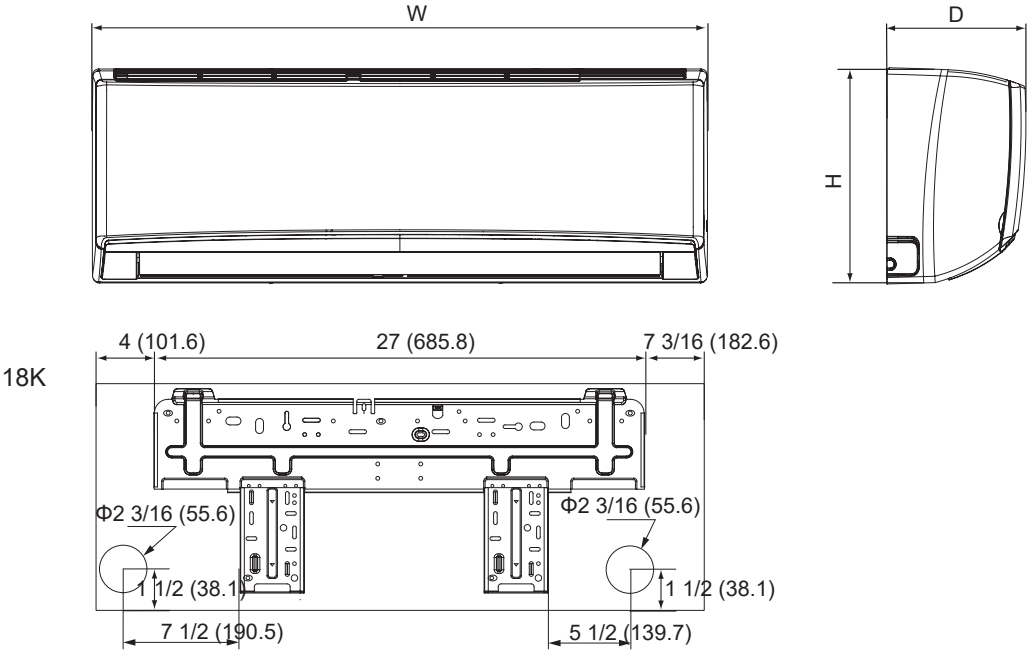
Gas additional charge(g/m)	15
Outer Diameter Liquid Pipe (mm)	φ 6
Outer Diameter Gas Pipe (mm)	φ 16
Max Height Distance (m)	17
Max Length Distance (m)	40

① Sound PRESSURE Level @ 1m dB(A)

② Capacities based on fixed compressor speed AHRI validation testing

Unit Dimensions

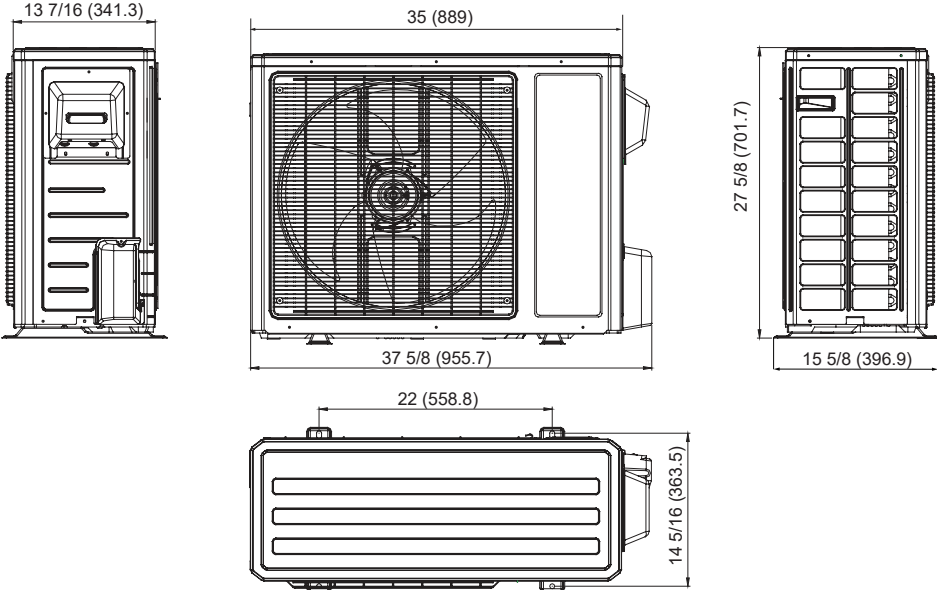
18K Indoor Units



Unit: inch (mm)

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

18K Outdoor Units



Unit: inch (mm)

Performance Data

M4THS1818A11NB/M4MHW1818A1N0B - Cooling Mode Performance Data

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
5	11500	9000	12100	9500	13700	10700	14100	11000
15	11900	9300	12600	9800	14300	11300	14700	11600
25	13200	10300	14100	11100	16000	12500	16400	12900
35	15900	12500	17000	13300	18500	14500	19000	14900
45	17200	13500	18300	14300	19500	15300	20100	15800
55	16800	13200	17900	14100	19300	15200	19900	15600
65	16400	12800	17500	13700	19000	14900	19500	15300
75	15900	12500	17000	13300	18600	14600	19100	15000
85	15400	12100	16500	12900	18100	14200	18600	14600
95	15000	11800	16100	12600	17800	13900	18300	14300
105	14500	11400	15600	12200	17400	13700	17900	14100
115	13800	10800	14800	11600	16700	13100	17100	13400
125	13400	10500	14200	11200	16000	12600	16400	12900

*Total Capacity **Sensible Heat Capacity

M4THS1818A11NB/M4MHW1818A1N0B - Heating Mode Performance Data

Outdoor Ambient Air Temperature (°F)	Indoor Entering Air Temperature			
	68°F	73°F	80°F	82°F
	TC*	TC	TC	TC
-5	10200	10100	9900	9700
0	11300	11100	11000	10800
5	11800	11700	11500	11200
10	12400	12300	12000	11800
15	12700	12600	12400	12100
20	13300	13200	12900	12700
25	14600	14500	14300	14100
30	15700	15600	15400	15100
35	16800	16600	16400	16200
40	17800	17700	17500	17200
45	19400	19200	18900	18600
50	20300	20100	19700	19400
55	20600	20400	20000	19600
60	21000	20700	20400	20000
65	21400	21200	20800	20400
70	21700	21500	21100	20700
75	22000	21800	21400	21000
80	22400	22100	21700	21300

*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.

Application Area/Air Throw for High Wall			
Model	Application Area	Cooling Mode	Heating Mode
M4MHW1818	248-366 sf. (23-34 m ²)	31.2 (9.5)	21.6 (6.5)

Unit: ft. (m)

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 18 Series Energy Star® ductless products, have a cooling capability to 0°F (-18°C) and heating capability to -4°F (-20°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

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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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