

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MAAHE-H60B-DA/MO1HE-H48B-2A

Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION

Dimension (W×D×H)	inch	24-1/2 x 21 x 28
	mm	622 x 533 x 711
Package (W×D×H)	inch	27-3/4 x 26-1/8 x 30-3/8
	mm	705 x 665 x 770
Net/Gross Weight	lbs	81 / 92
	kg	36.8 / 41.9

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		MTH550UKPC8FU
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1800
Refrigerant Oil		HAF68D1C
Outdoor Air Flow (Max) (CFM)		3,037
Outdoor Noise Level (dBA)		65
Dimension (W×D×H)	inch	38-9/16 x 16-3/8 x 38-3/8
	mm	980 x 415 x 975
Package (W×D×H)	inch	45-1/16 x 19-11/16 x 42-1/2
	mm	1145 x 500 x 1080
Net/Gross Weight	lbs	201 / 232
	kg	91.2 / 105.4

EFFICIENCY

Cooling		Heating	
SEER2	14.5	HSPF2-4	8.4
EER2	9.8	COP	3.20

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	45000
Min/Max Capacity	15,100-47,000
Moisture Removal(L/h)	6.7
Standard Operating Range(*F/*C)	-22~122 (-30 ~ 50)
Rated Cooling Conditions:	
Indoor: 80°F DB/67°F WB	
Outdoor: 95°F DB/75°F WB	

PERFORMANCE of Heating

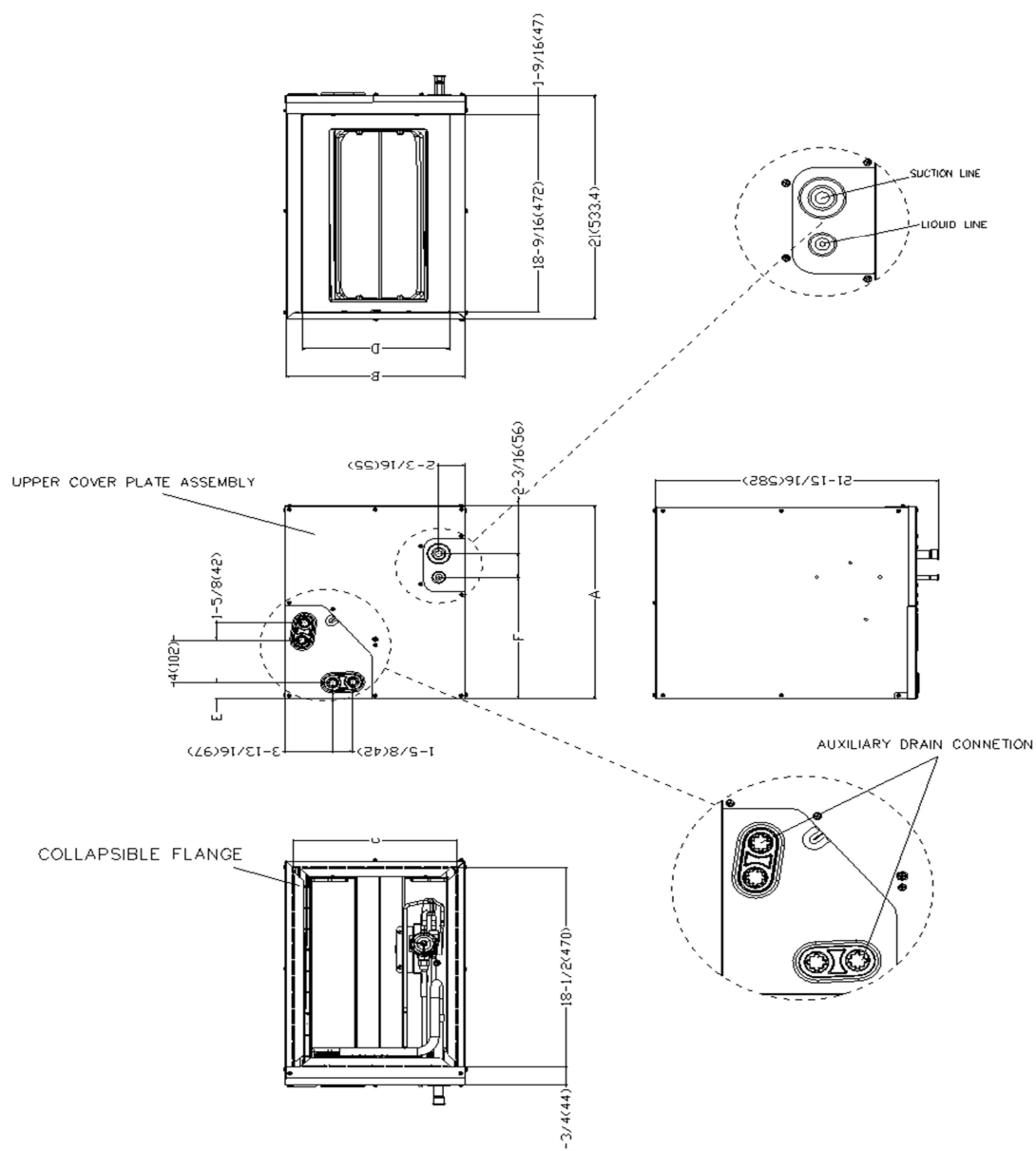
Heating (Btu/hr)	
1. @ 47°F Rated	47000
2. @ 47°F Min/Max Capacity	12,500-53,000
3. @ 17°F Rated	34000
4. @ 5°F Rated: Capacity / COP	40000/1.8
5. @ 5°F Max: Capacity	40000
Standard Operating Range(*F/*C)	-22~75 (-30 ~ 24)
1. Rated Heating Conditions:	
Indoor: 70°F DB/60°F WB	
Outdoor: 47°F DB/43°F WB	
2. Rated Heating Conditions:	
Indoor: 70°F DB/60°F WB	
Outdoor: 17°F DB/15°F WB	
3. Heating Conditions, Compressor	
Operating at Max. Frequency	
Indoor: 70°F DB/60°F WB	
Outdoor: 5°F DB/5°F WB	

ELECTRICAL

Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	38.0
Outdoor MOP	40.0
Communication Wiring	AWG 20-2
Compressor RLA	28
Outdoor Fan Motor RLA	2
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	4590 (1,560-5,110)
System Power Input @ Heating (W)	4300 (780-5,170)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

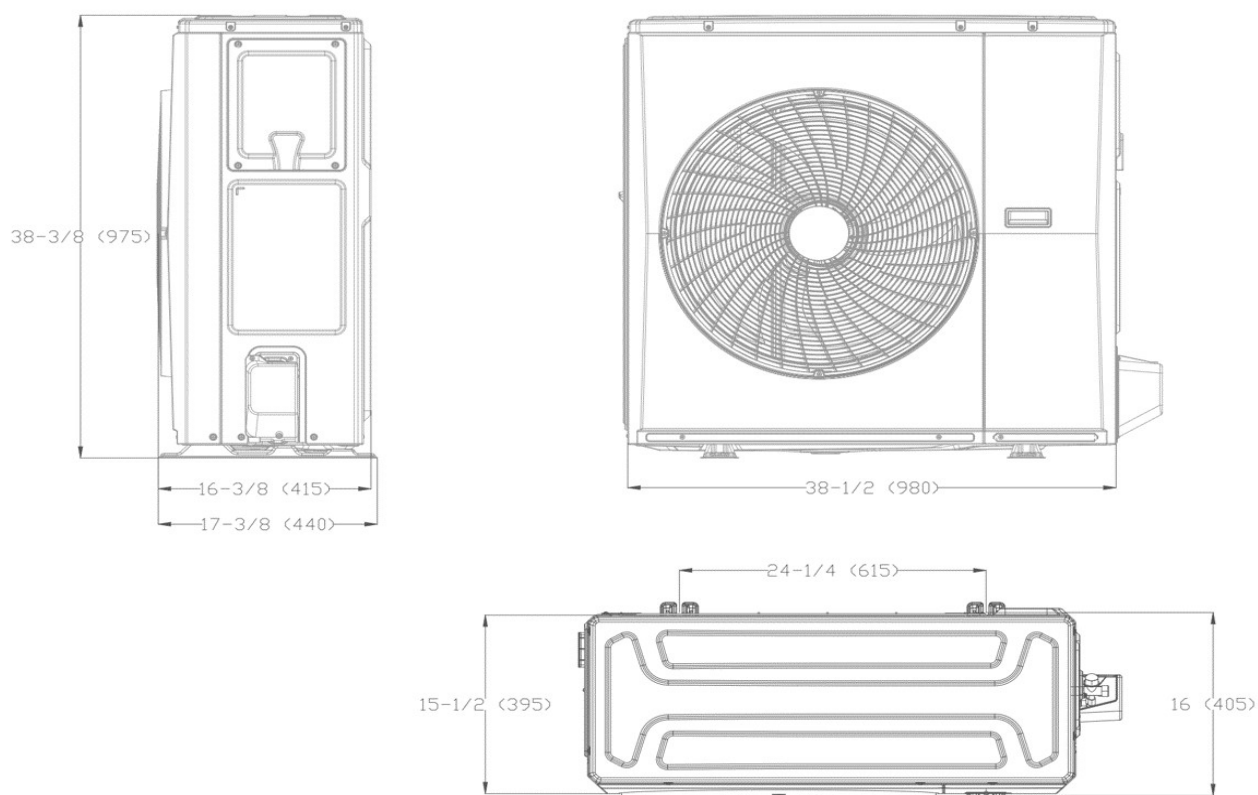
Throttle type(Indoor)	TXV
Throttle type(Outdoor)	EXV
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98.4 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	134 (3.8)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared



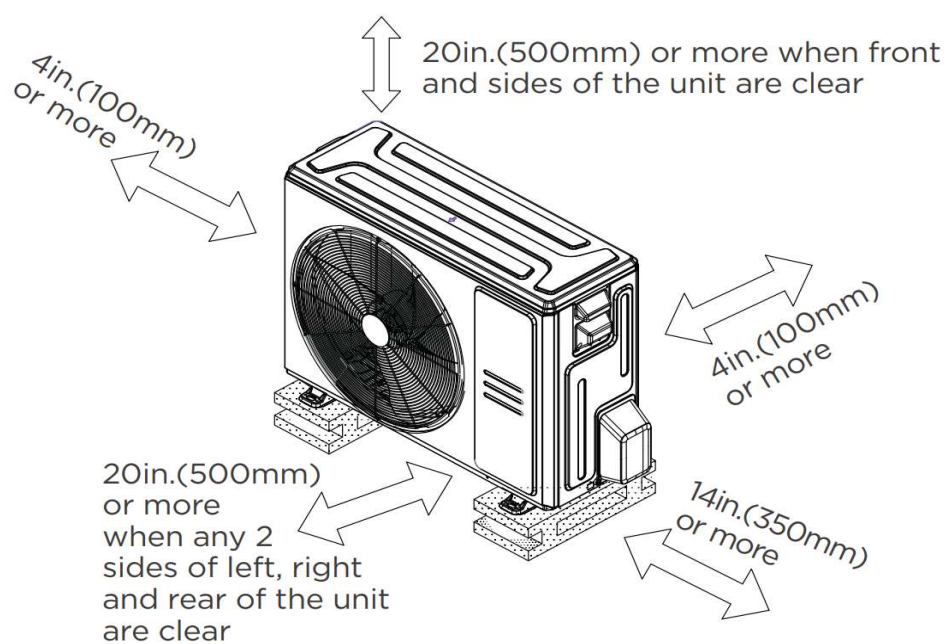
Model		60-D	
Dimensions		inch	mm
A	Model Height	28	711
B	Model Width	24-1/2	622
C	Supply Air Opening Width	23-1/4	591
D	Return Air Opening Width	23-1/8	587
E	Condensate Drains Height	2-3/16	55
F	Liquid Line Height	21-7/16	545

Outdoor Unit Dimension

Unit:inch(mm)



Installation Instruction For Outdoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Third-Party 24V Thermostat