

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MAAHE-H60B-CA/MO1HE-H60B-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	21-5/8 x 21-1/2 x 27-3/4
	mm	549 x 546 x 706
Package (W×D×H)	inch	31-1/8 x 25 x 25-5/8
	mm	790 x 635 x 650
Net/Gross Weight	lbs	97 / 115
	kg	43.9 / 52.2

OUTDOOR SPECIFICATION

Compressor Type		TWIN-ROTARY
Compressor Model		ETPQ480D66UMU1
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1300
Refrigerant Oil		VG75
Outdoor Air Flow (Max) (CFM)		2,649
Outdoor Noise Level (dBA)		64
Dimension (W×D×H)	inch	37-1/2 x 16-3/8 x 52-1/2
	mm	952 x 415 x 1333
Package (W×D×H)	inch	43-1/8 x 19-1/2 x 58-1/4
	mm	1095 x 495 x 1480
Net/Gross Weight	lbs	242 / 275
	kg	110.2 / 124.8

EFFICIENCY

Cooling		Heating	
SEER2	15.9	HSPF2-4	8.5
EER2	10.0	COP	2.80

PERFORMANCE of Cooling

Cooling (Btu/hr)

Rated Capacity	52000
Min/Max Capacity	23,400~55,500
Moisture Removal(L/h)	8.4
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	56000
2. @ 47°F Min/Max Capacity	11,700~31,300
3. @ 17°F Rated	37800
4. @ 5°F Rated: Capacity / COP	45000/1.8
5. @ 5°F Max: Capacity	45000
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

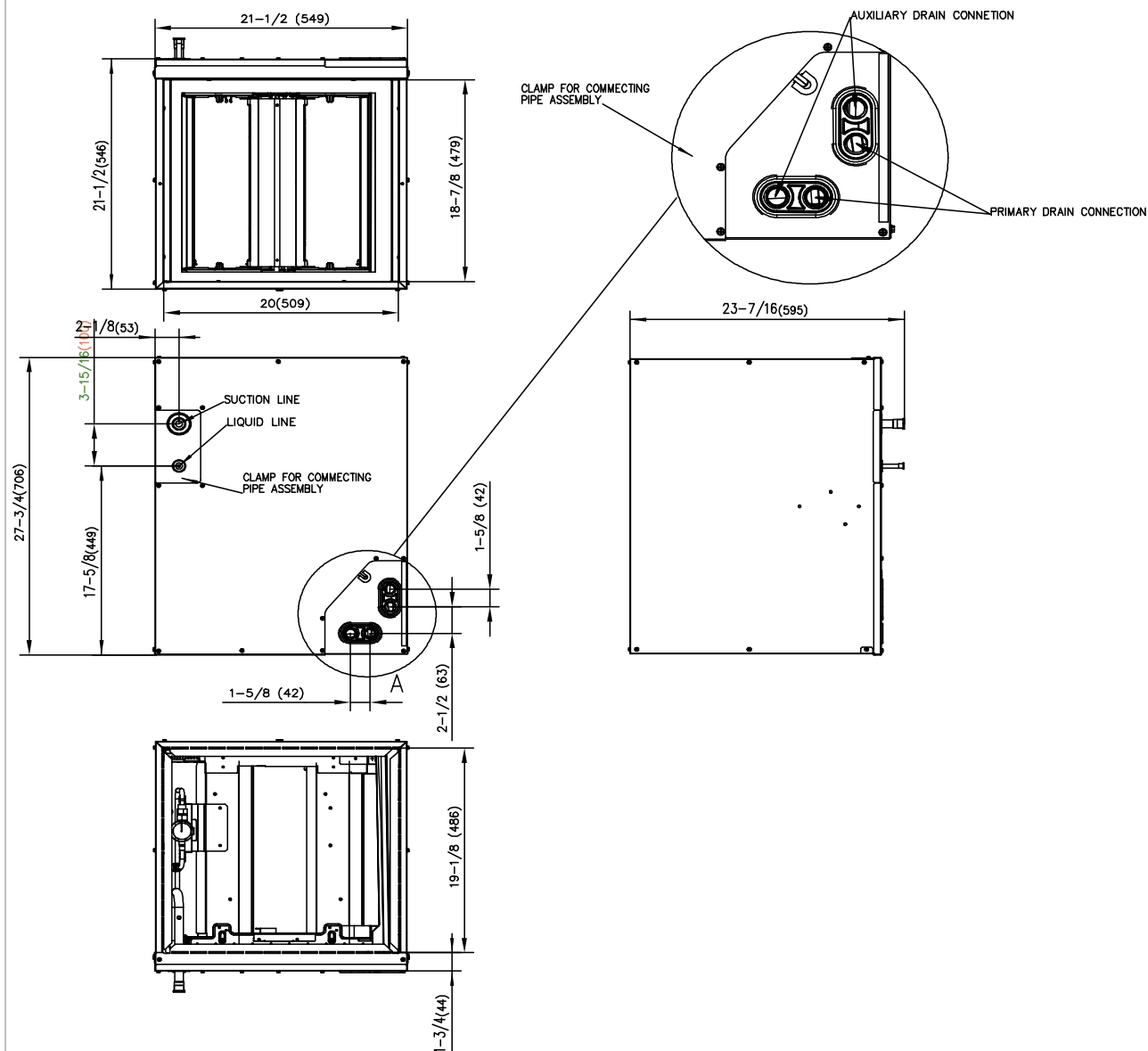
Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	40.0
Outdoor MOP	40.0
Communication Wiring	AWG 20-2
Compressor RLA	31
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	5200 (1,870 ~ 6,000)
System Power Input @ Heating (W)	5861 (1,090 ~6,270)
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)	EXV
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 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	183 (5.2)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

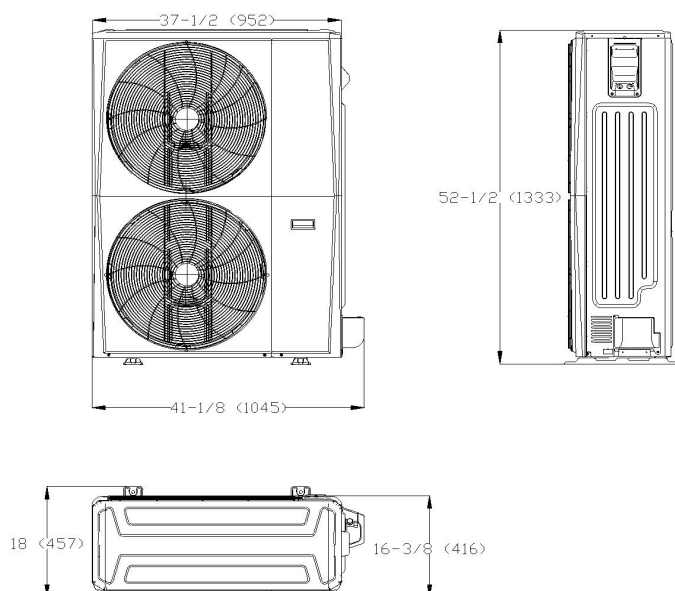
Indoor Unit Dimension

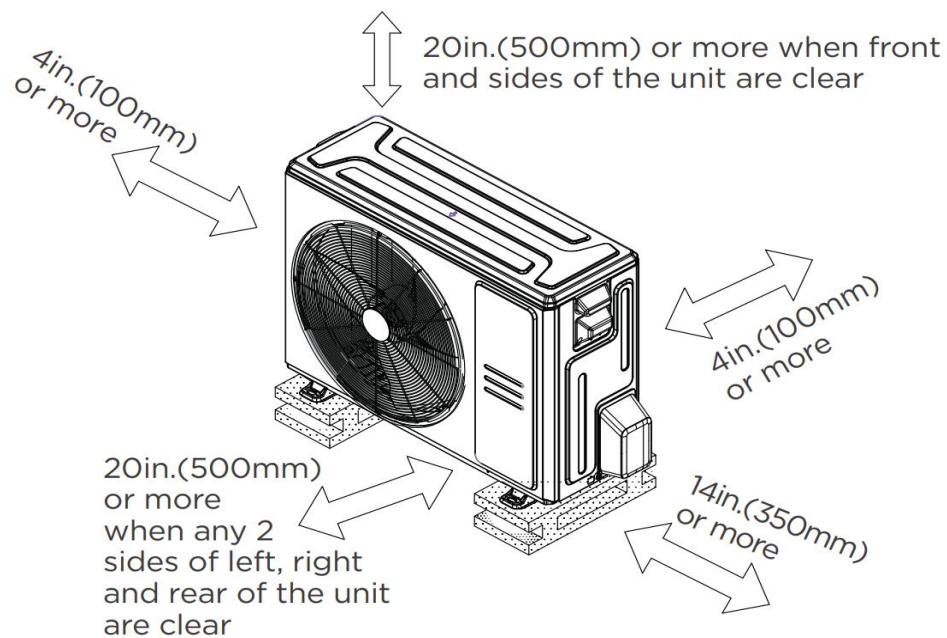
Unit:inch(mm)



Outdoor Unit Dimension

Unit:inch(mm)





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