

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Regular Heat AHU Series
Model Number: MAUHE-H60B-2A/MO1BE-H60B-2A

Air Handler Heat Pump System

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



INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1807 / 1583 / 1360 / 1136 / 1136
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		56 /52 /49 /34.5 / 34.5
Dimension (W×D×H)	inch	21 x 24-1/2 × 53
	mm	534 × 622 × 1346
Package (W×D×H)	inch	27-15/16 x 26-3/4 x 56-1/2
	mm	710 × 680 × 1435
Net/Gross Weight	lbs	163 /191
	kg	73.9 / 86.6

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		MTH550UKPC8FU
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1,800
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 × 415 × 975
Package (W×D×H)	inch	45-1/16 x 19-11/16 x 42-1/2
	mm	1145 × 500 × 1080
Net/Gross Weight	lbs	193 /224
	kg	87.5 / 101.7

EFFICIENCY

Cooling		Heating	
SEER2	15.2	HSPF2-4	8.4
EER2	8.6	COP	3.37

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	54,000
Min/Max Capacity	21,000 ~ 55,000
Moisture Removal(L/h)	5.82
Standard Operating Range(°F/°C)	-13~122 (-25~50)
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	54,000
2. @ 47°F Min/Max Capacity	26,000 ~ 55,000

ELECTRICAL

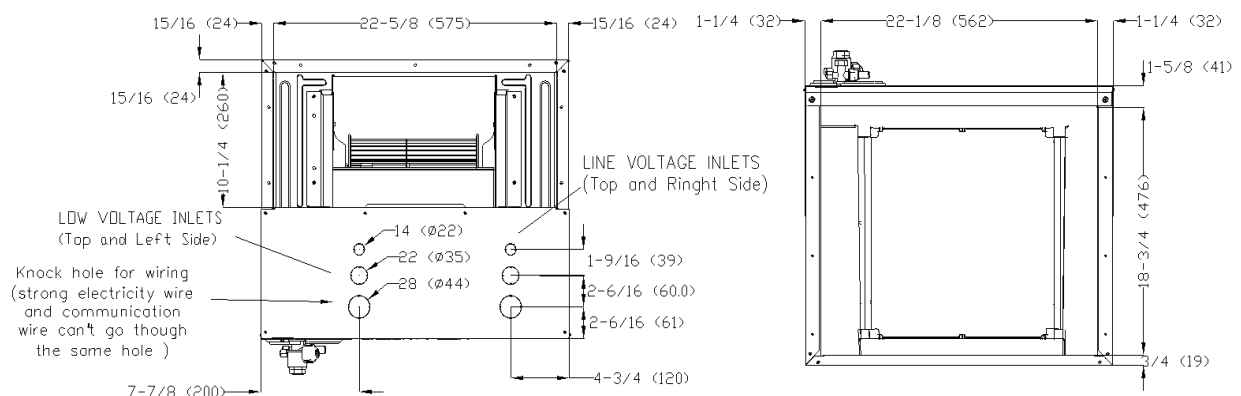
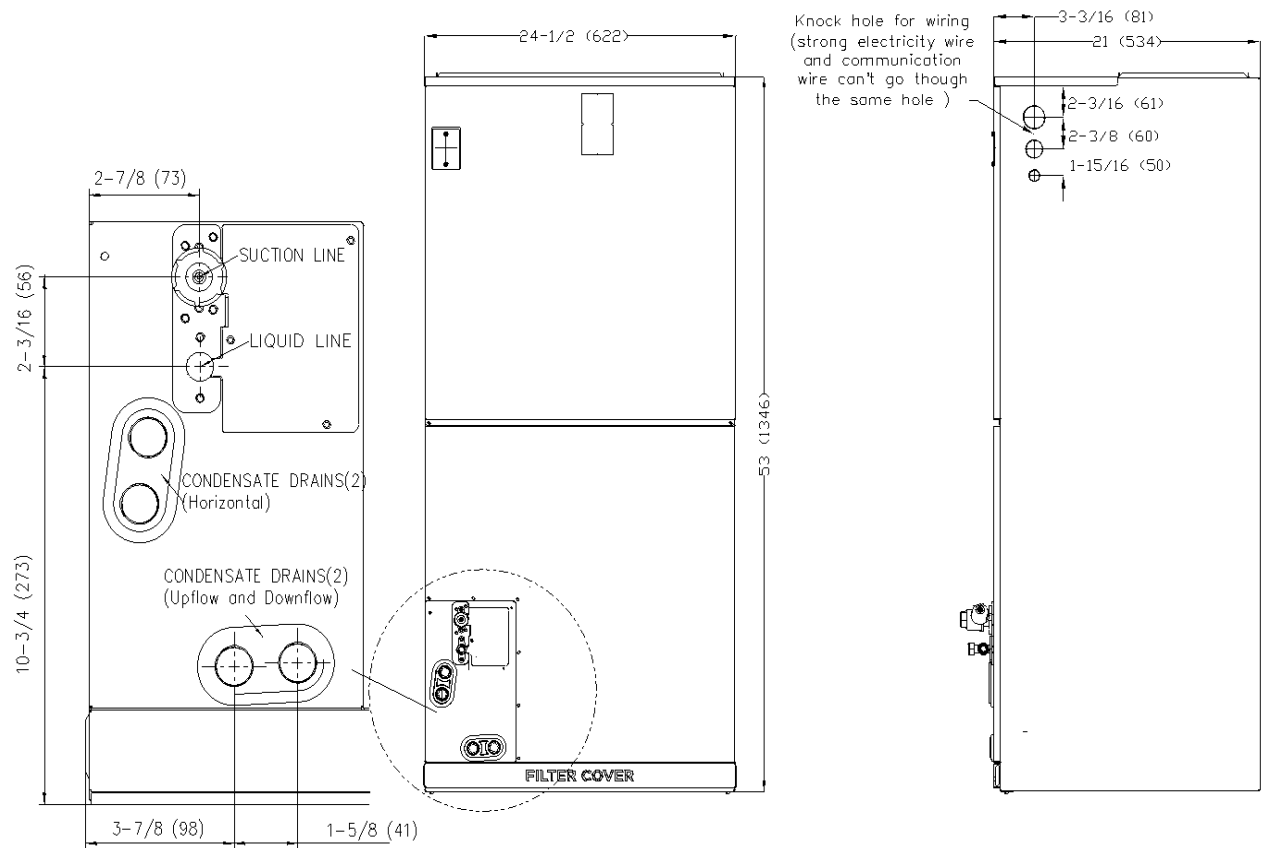
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	14.5/11.0
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	39.0
Outdoor MOP	40.0
Communication Wiring	AWG 20/2
Compressor RLA	30.0
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	250
Indoor Fan Motor RLA	8.3
Indoor Fan Motor W	750
System Power Input @ Cooling (W)	6,200 (1,800 ~ 6,410)
System Power Input @ Heating (W)	4,650 (975 ~ 4,810)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

3. @ 17°F Rated	33,000
4. @ 5°F Rated: Capacity / COP	38,000/1.8
5. @ 5°F Max: Capacity	38,000
Standard Operating Range(°F/°C)	-13~75 (-25~24)
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	Indoor: 70°F DB/60°F WB
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB

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)	134 (3.8)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

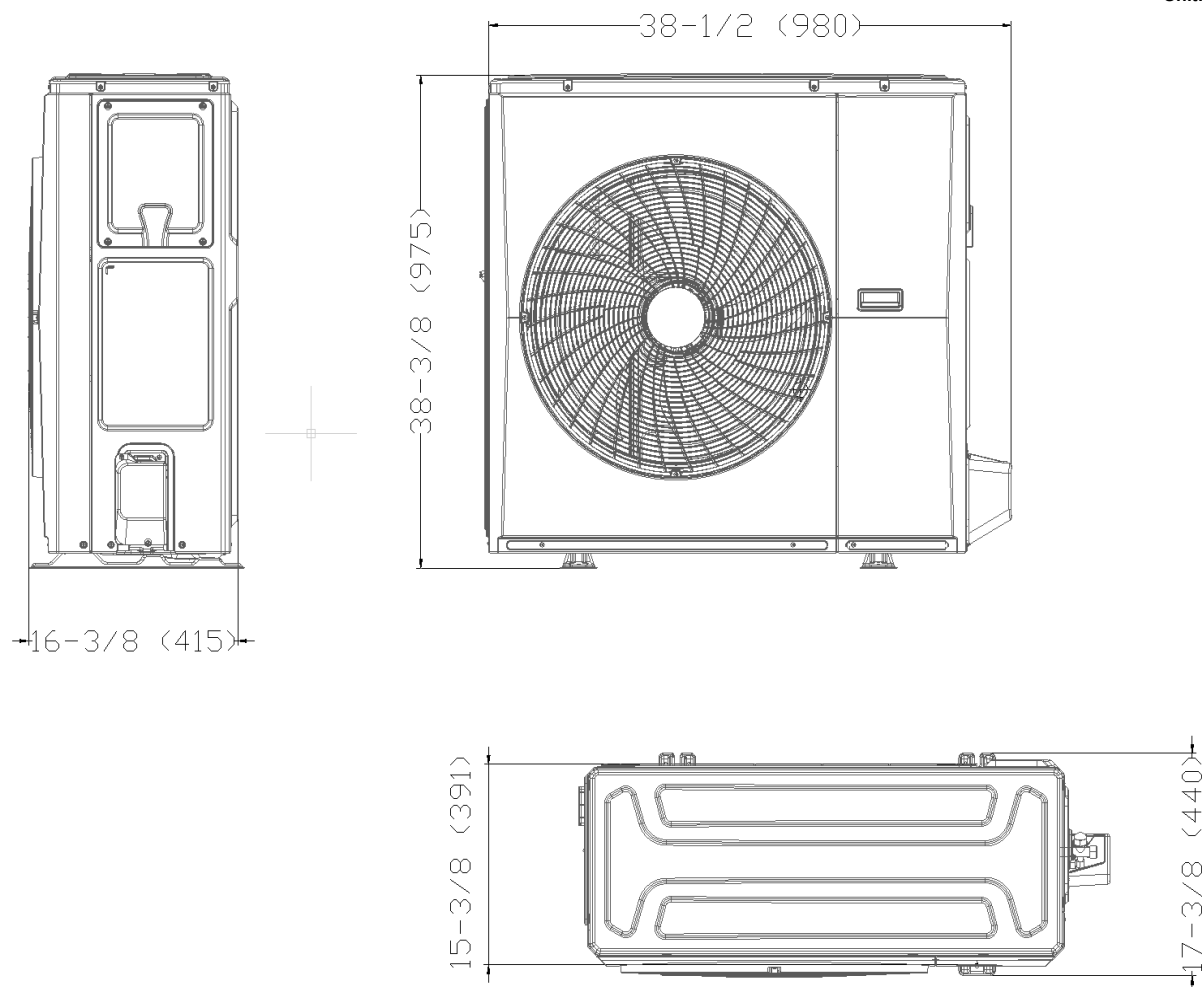
Indoor Unit Dimension

Unit:inch(mm)

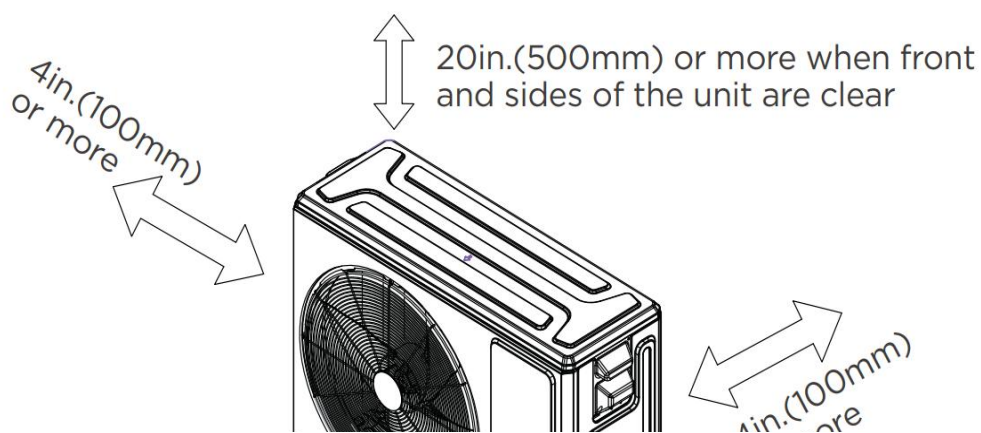


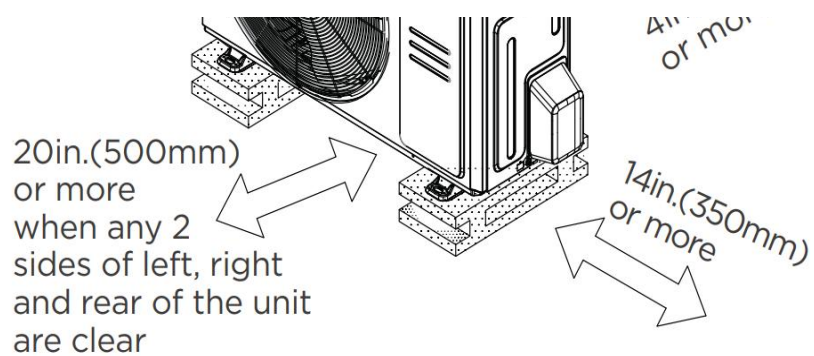
Outdoor Unit Dimension

Unit:inch(mm)

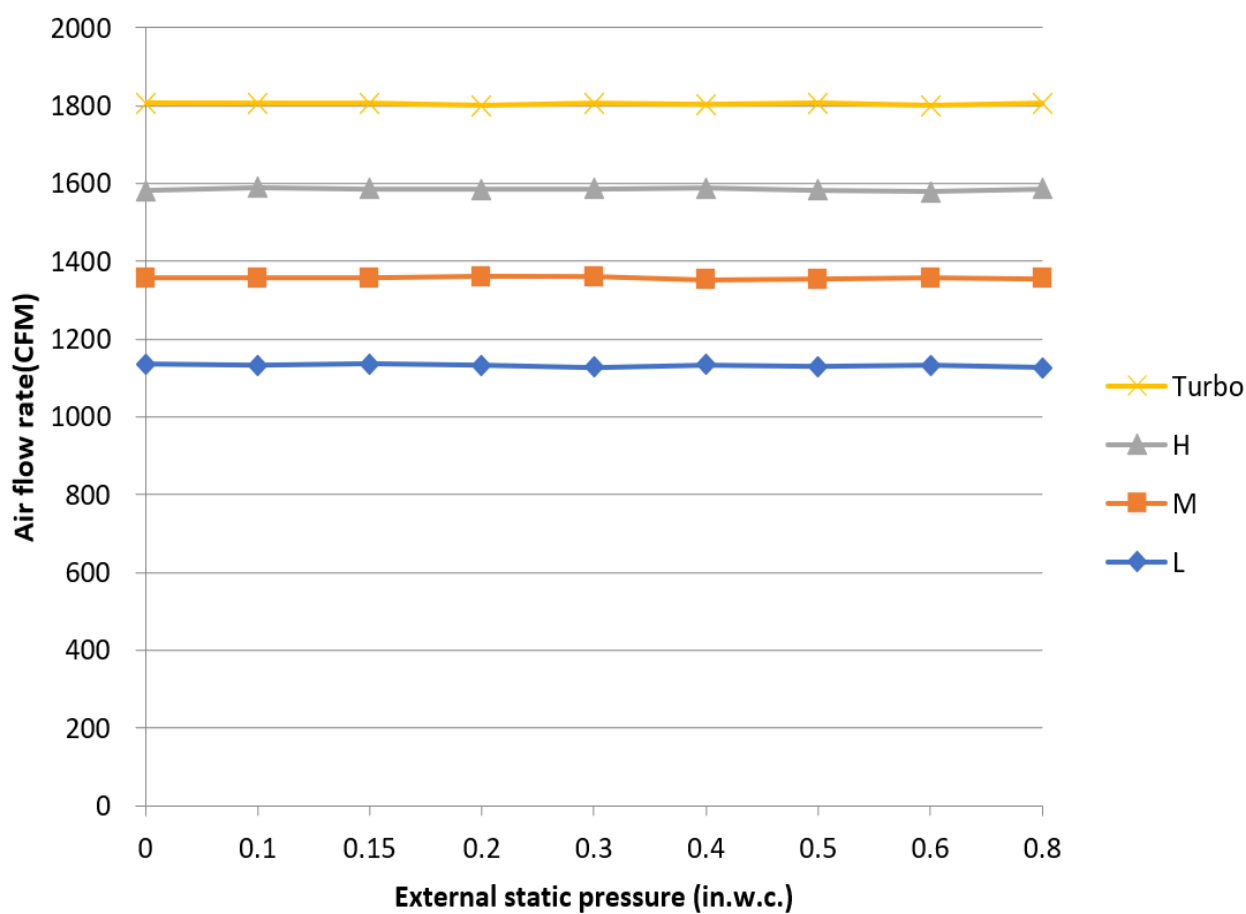


Installation Instruction For Outdoor Unit





Fan Performance For Indoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G

- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Adaptive Control System
- High efficiency up to 18.8 SEER2, 11 EER2, 9.7 HSPF2
- Chassis heater and crankcase heater equipped as standard