

R454b
Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MAUSE-H48B-2A/MO1HE-H48B-2A

Air Handler Heat Pump System					
Location:		Approval:			
Engineer:		Date:			
Submitted to:		Construction:			
Submitted by:		Unit #:			
Reference:		Drawing #:			



EFFICIENCY			
Cooling		Heating	
SEER2	17.5	HSPF2-4	9.5
EER2	12.0	COP	3.28

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	48,000
Min/Max Capacity	18,000 ~ 52,000
Moisture Removal(L/h)	4.94
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	48,000
2. @ 47°F Min/Max Capacity	13,500 ~ 52,000
3. @ 17°F Rated	34,000
4. @ 5°F Rated: Capacity / COP	48,000 / 2
5. @ 5°F Max: Capacity	48,000
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

* When MO1HE-H48B-2A is paired with MAUSE-H48B-2A, an additional 0.65kg/22.93oz of refrigerant is required.

INDOOR SPECIFICATION	
ESP(inWG)	0~0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	1601 / 1442 / 1265 / 1089 / 1089
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	53 / 53 / 49.5 / 33.5 / 33.5
Dimension (WxDxH)	inch 21-1/2 x 21-1/2 x 60-1/8 mm 546 x 546 x 1526
Package (WxDxH)	inch 25 x 31-1/8 x 70-3/4 mm 635 x 790 x 1800
Net/Gross Weight	lbs 187 / 232 kg 84.6 / 105.3

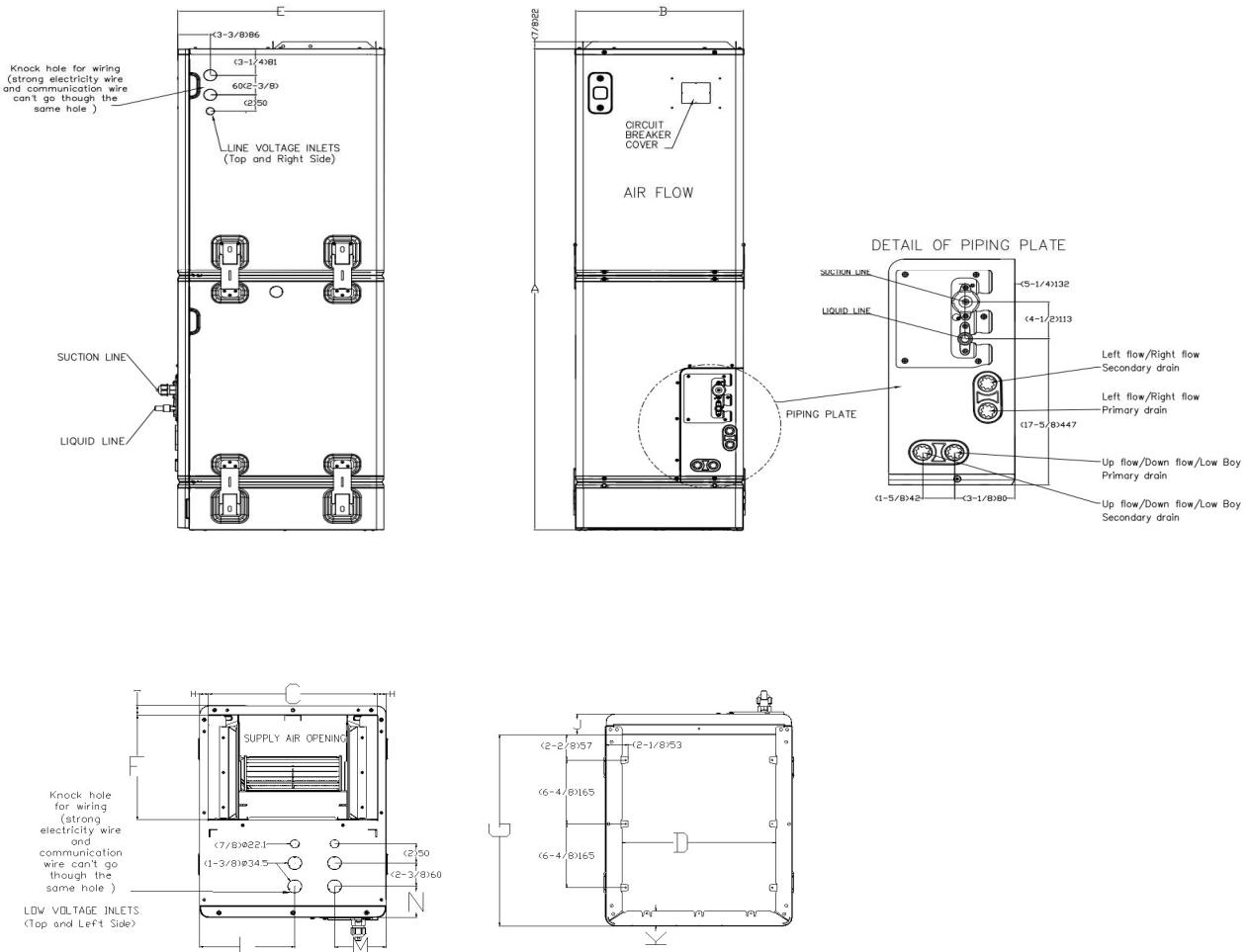
OUTDOOR SPECIFICATION	
Compressor Type	ROTARY
Compressor Model	MTH550UKPC8FU
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1,800
Refrigerant Oil	HAF68D1C
Outdoor Air Flow (Max) (CFM)	3,037
Outdoor Noise Level (dBA)	65
Dimension (WxDxH)	inch 38-9/16 x 16-3/8 x 38-3/8 mm 980 x 415 x 975
Package (WxDxH)	inch 45-1/16 x 19-11/16 x 42-1/2 mm 1145 x 500 x 1080
Net/Gross Weight	lbs 233 / 202 kg 105.5 / 91.4

ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	14.5/10
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	38.0
Outdoor MOP	40.0
Communication Wiring	AWG 20/2
Compressor RLA	28.0
Outdoor Fan Motor RLA	2.0
Outdoor Fan Motor W	250
Indoor Fan Motor RLA	8.0
Indoor Fan Motor W	1000
System Power Input @ Cooling (W)	4,000 (1,300 ~ 4,870)
System Power Input @ Heating (W)	4,290 (925 ~ 3,880)
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)*	134 (3.8)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7 (65)
Connection Method	Flared

Indoor Unit Dimension

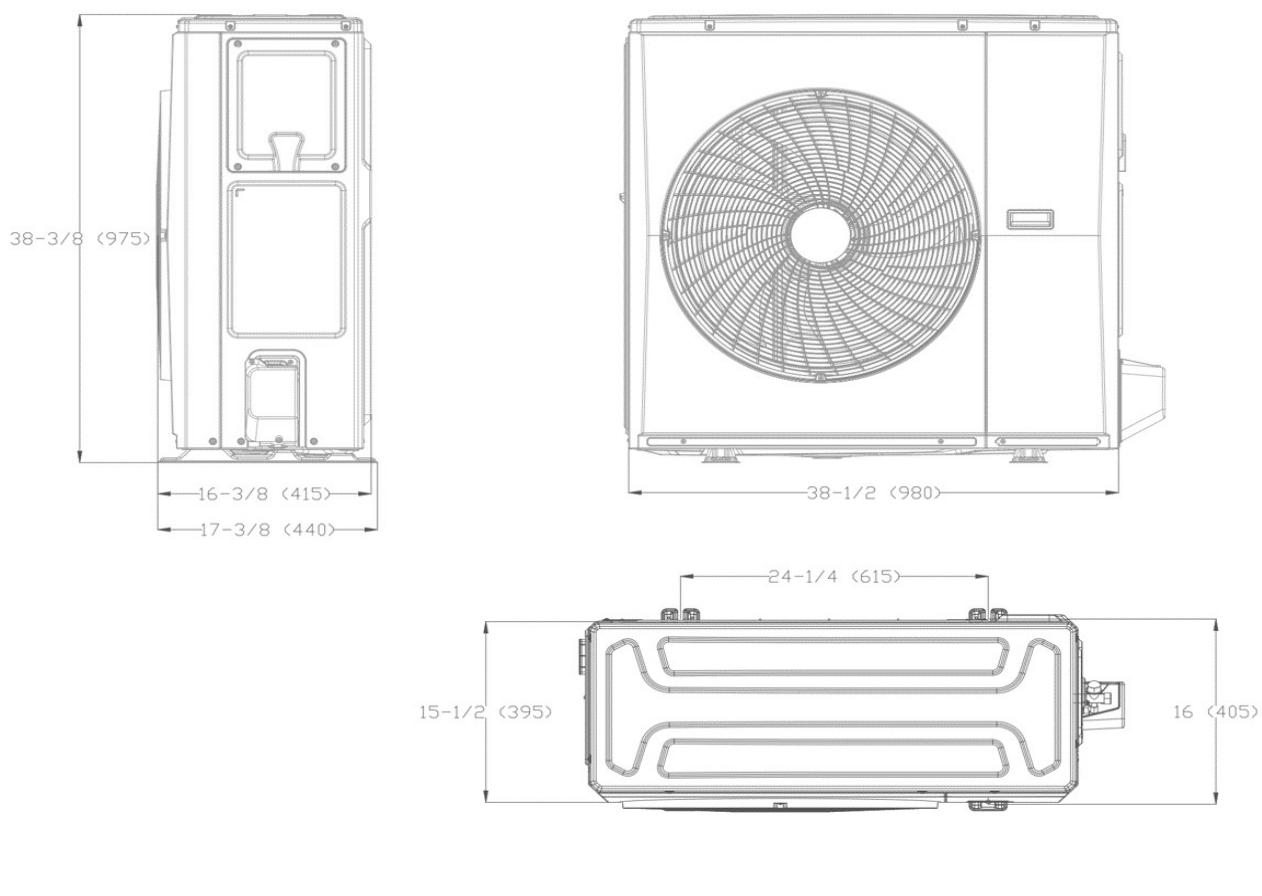
Unit: inch, mm



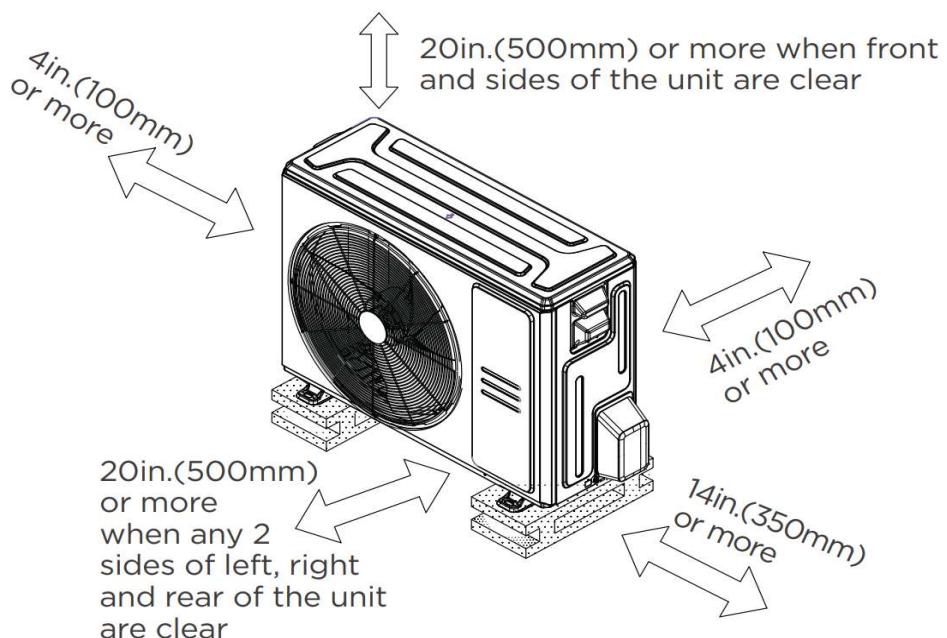
Dimensions	Model(Btu/h)	18K/24K		30K/36K		48K/54K	
		inch	mm	inch	mm	inch	mm
A	Model Height	53-7/8	1368	58-1/8	1476	60-1/8	1526
B	Model Width	14-4/8	368	17-4/8	445	21-4/8	546
C	Supply Air Opening Width	12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width	11-1/8	282	14-4/8	368	18-4/8	470
E	Model Depth	21-1/2	546	21-1/2	546	21-1/2	546
F	Supply Air Opening Depth	10-5/8	271	10-5/8	271	10-5/8	271
G	Return Air Opening Depth	19	484	19	484	19	484
H	Supply Air Opening Clearance	7/8	22	7/8	22	7/8	22
I	Supply Air Opening Clearance	1	24	1	24	1	24
J	Return Air Opening Front Clearance	2-4/8	62	2-4/8	62	2-4/8	62
K	Return Air Opening Back Clearance	1-4/8	37	1-4/8	37	1-4/8	37
L	Top cover knock hole	/	/	9	229	10-7/8	275
M	Top cover knock hole	4-1/2	113	4-7/8	124	5-1/8	131
N	Top cover knock hole	2	51	2	51	1-5/8	41

Outdoor Unit Dimension

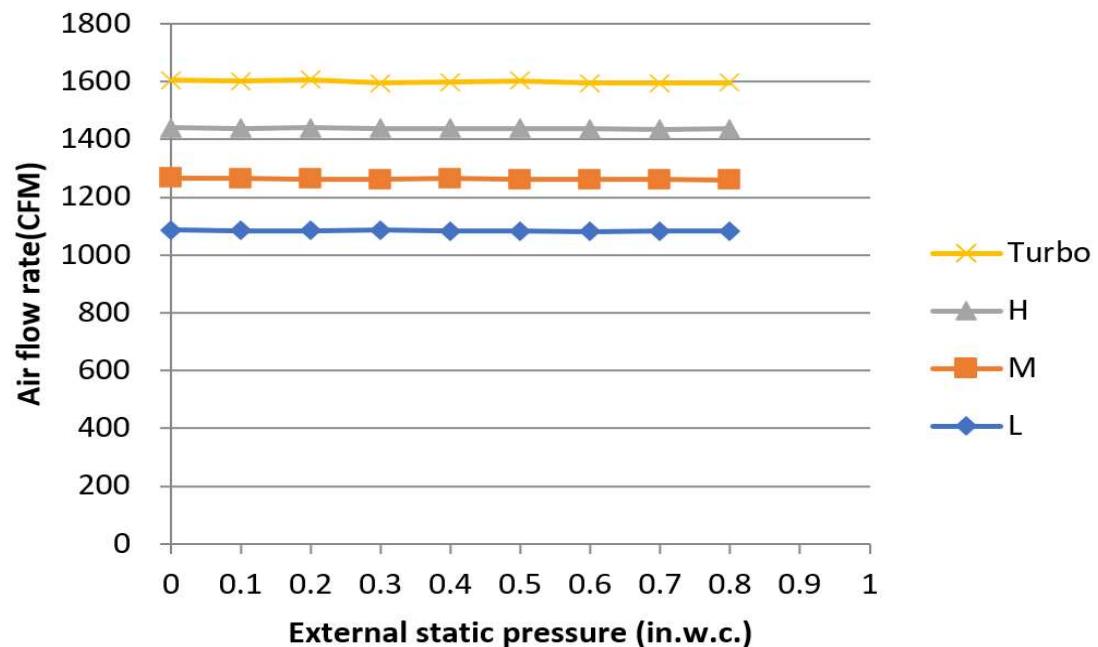
Unit: inch (mm)



Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- The IDU supports 115/230V voltage compatibility
- Aluminum Coil
- Constant Air Flow system: Up to 1.0 In.W.C.
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two-way communication wired controller with built-in Wi-Fi: 120N (X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Adaptive Control System
- High efficiency up to 19 SEER2, 12.5 EER2, 10.8 HSPF2
- 100% heating output down to -13°F*
- Base pan heater and crankcase heater are equipped as standard

* When MAUSE-H36B-2A is paired with MO1SE-H36B-2A, its rated heating capacity at -13°F is 100%