

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MAUSE-H24B-2A/MO1HE-H24B-2A

Air Handler Heat Pump System

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



INDOOR SPECIFICATION

ESP(inWG)	0~1.0
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	824 / 759 / 694 / 630 / 630
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	47.5 / 47.5 / 44 / 33 / 33
Dimension (WxDxH)	inch 14-1/2 x 21-1/2 x 53-7/8
	mm 368 x 546 x 1368
Package (WxDxH)	inch 17-1/2 x 31-1/8 x 58-1/4
	mm 445 x 790 x 1480
Net/Gross Weight	lbs 123 / 155
	kg 55.8 / 70.2

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTM240D46UKT2
Refrigerant	R454B
Refrigerant Oil Charge(mL)	620
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	1,766
Outdoor Noise Level (dBA)	59
Dimension (WxDxH)	inch 35 x 13-1/2 x 26-1/2
	mm 890 x 342 x 673
Package (WxDxH)	inch 39-1/8 x 15-5/8 x 29-1/8
	mm 995 x 398 x 740
Net/Gross Weight	lbs 102 / 109
	kg 46.4 / 49.5

EFFICIENCY

Cooling		Heating	
SEER2	18.6	HSPF2-4	10.0
EER2	12.0	COP	3.49

PERFORMANCE of Cooling

Cooling (Btu/hr)

Rated Capacity	24,000
Min/Max Capacity	6,400 ~ 2,8800
Moisture Removal(L/h)	2.23
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	24,000
2. @ 47°F Min/Max Capacity	6,600 ~ 29,200
3. @ 17°F Rated	19,000
4. @ 5°F Rated: Capacity / COP	20,600 / 2.14
5. @ 5°F Max: Capacity	20,600
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

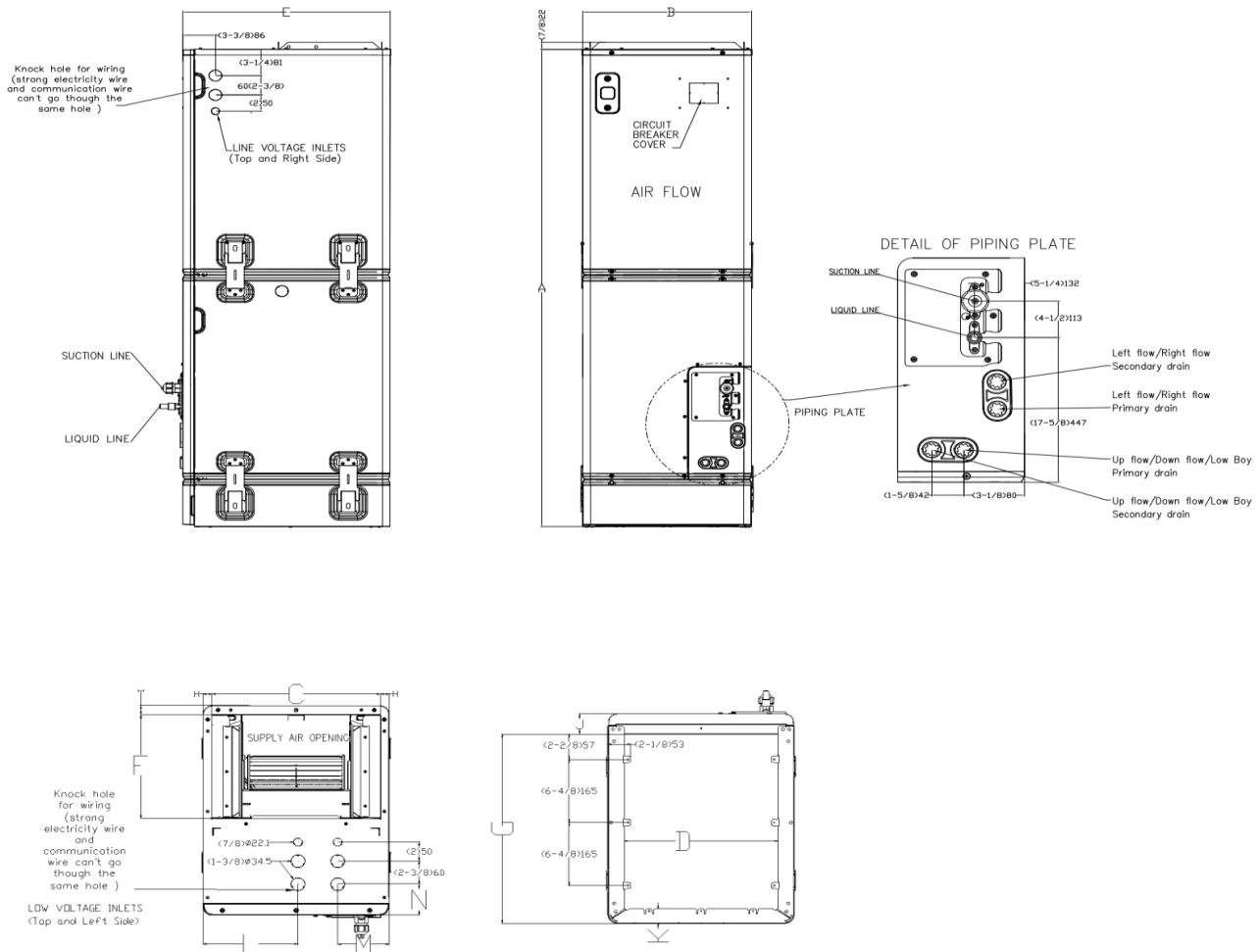
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	5.5/3.5
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	19.0
Outdoor MOP	20.0
Communication Wiring	AWG 20/2
Compressor RLA	14.0
Outdoor Fan Motor RLA	1.0
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	2.5
Indoor Fan Motor W	600
System Power Input @ Cooling (W)	2000 (830 ~ 2,850)
System Power Input @ Heating (W)	2010 (405 ~ 2,450)
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)	164 (50)
Max. Height Difference(ft/m)	82 (25)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	74 (2.1)
Additional Charge of Refrigerant(oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

Indoor Unit Dimension

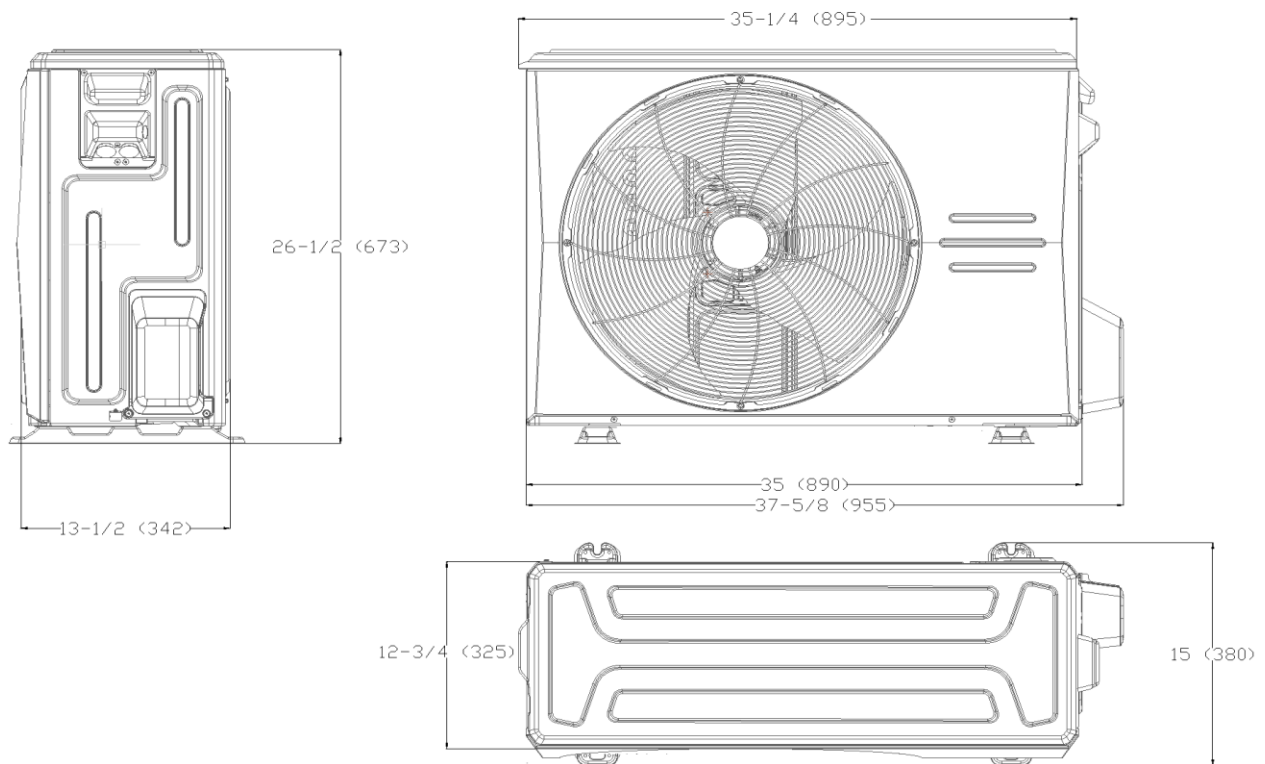
Unit: inch, mm



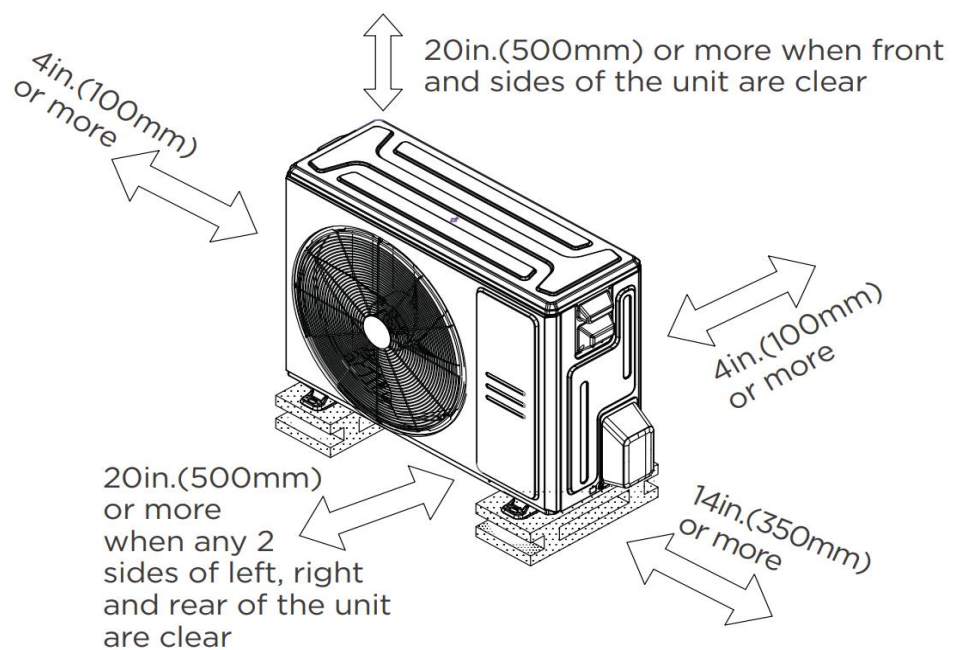
Dimensions		Model(Btu/h)		18K/24K		30K/36K		48K/54K	
				inch	mm	inch	mm	inch	mm
A	Model Height			53-7/8	1368	58-1/8	1476	60-1/8	1526
B	Model Width			14-4/8	368	17-4/8	445	21-4/8	546
C	Supply Air Opening Width			12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width			11-1/8	282	14-4/8	368	18-4/8	470
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

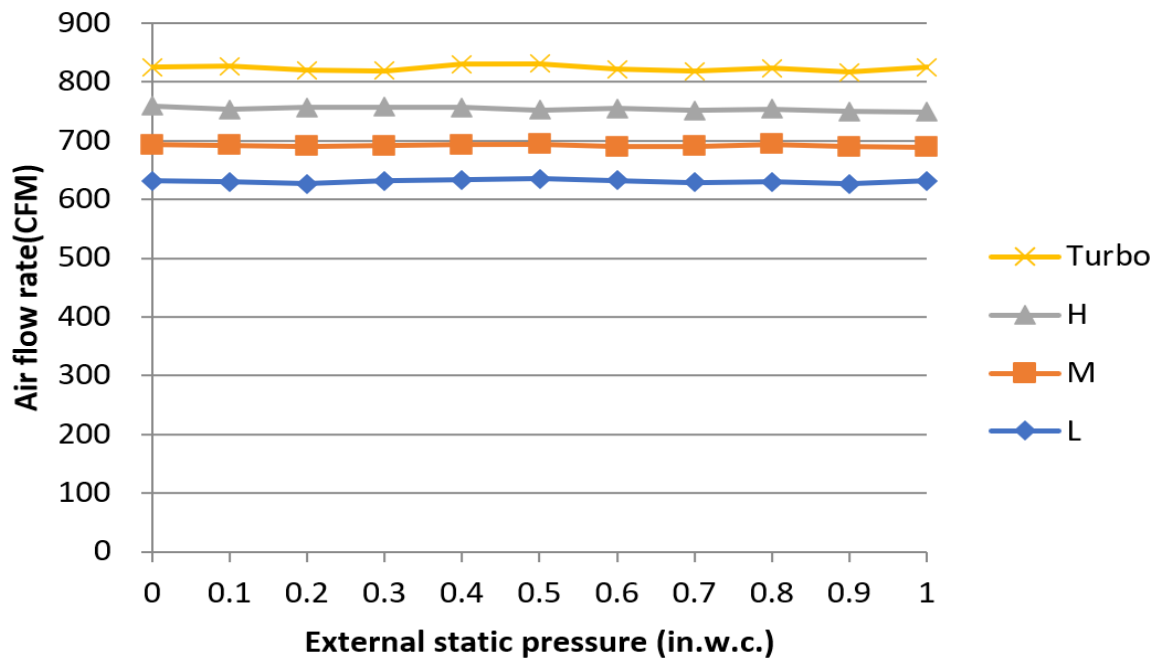
Unit: inch, mm



Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- 115/230V voltage compatible for IDU
- Aluminum Coil
- Constantly Air Flow system up to 1.0 In.W.G
- 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 19 SEER2, 12.5 EER2, 10.8 HSPF2
- 100% heat output at -13F*
- Chassis heater and crankcase heater equipped as standard

* For MVBDM-36HWFN10-WB3-D pairing with MOX630-36HFN10-M3X, rated cooling capacity/heating capacity at -13F=100%