

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 (W×D×H)	inch 21-1/2 x 14-1/2 x 53-7/8
	mm 546 x 368 x 1368
Package (W×D×H)	inch 31-1/8 x 17-1/2 x 58-1/4
	mm 790 x 445 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 (W×D×H)	inch 35 x 13-1/2 x 26-1/2
	mm 890 x 342 x 673
Package (W×D×H)	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 ~ 2,8700
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

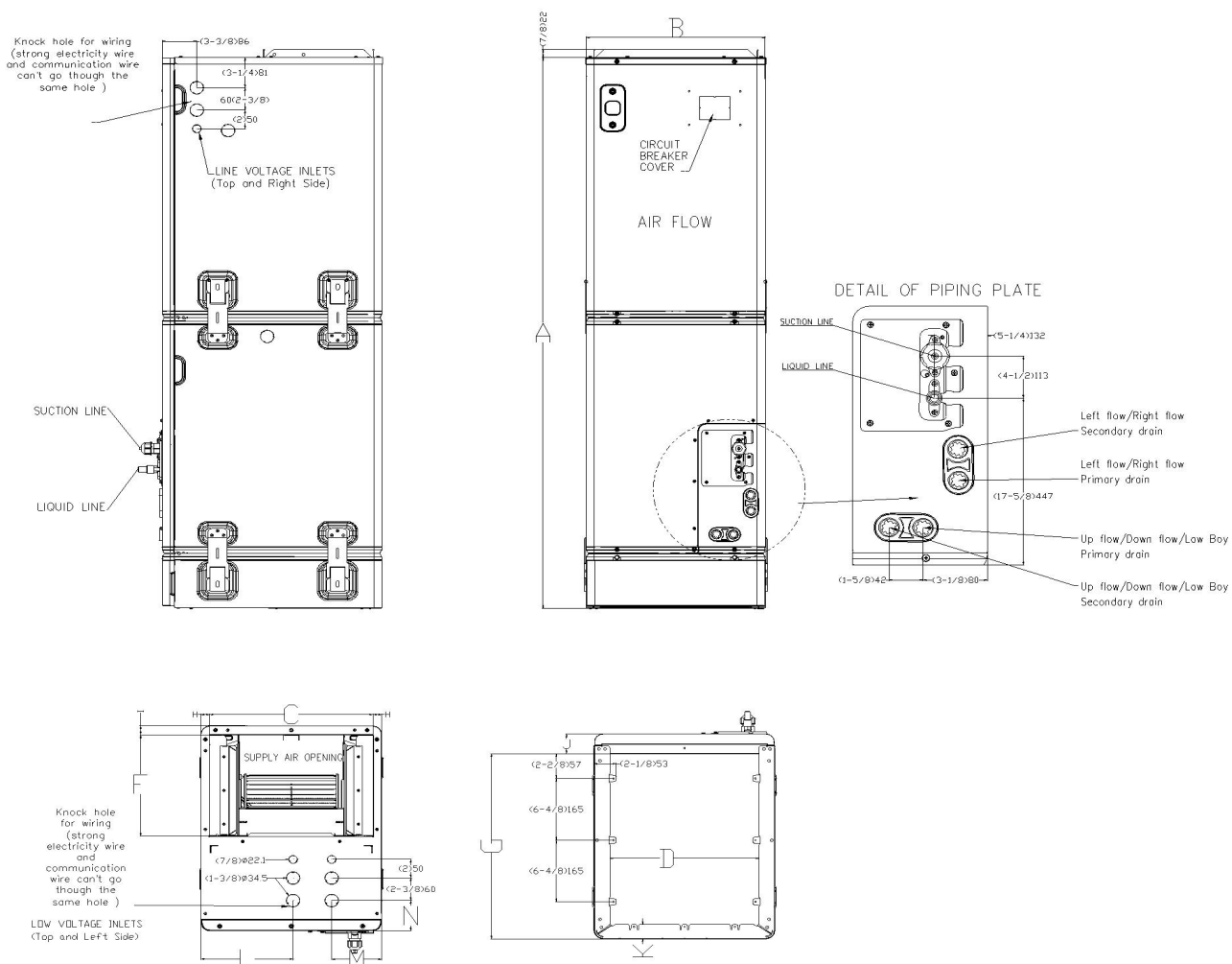
Heating (Btu/hr)	
1. @ 47°F Rated	24,000
2. @ 47°F Min/Max Capacity	6,700 ~ 29,100
3. @ 17°F Rated	19,000
4. @ 5°F Rated: Capacity / COP	20,600 / 2.14
5. @ 5°F Max: Capacity	20,600
Standard Operating Range(*F/*C)	-22~-75 (-30~24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F 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)	2,150 (830 ~ 2,850)
System Power Input @ Heating (W)	2,150 (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

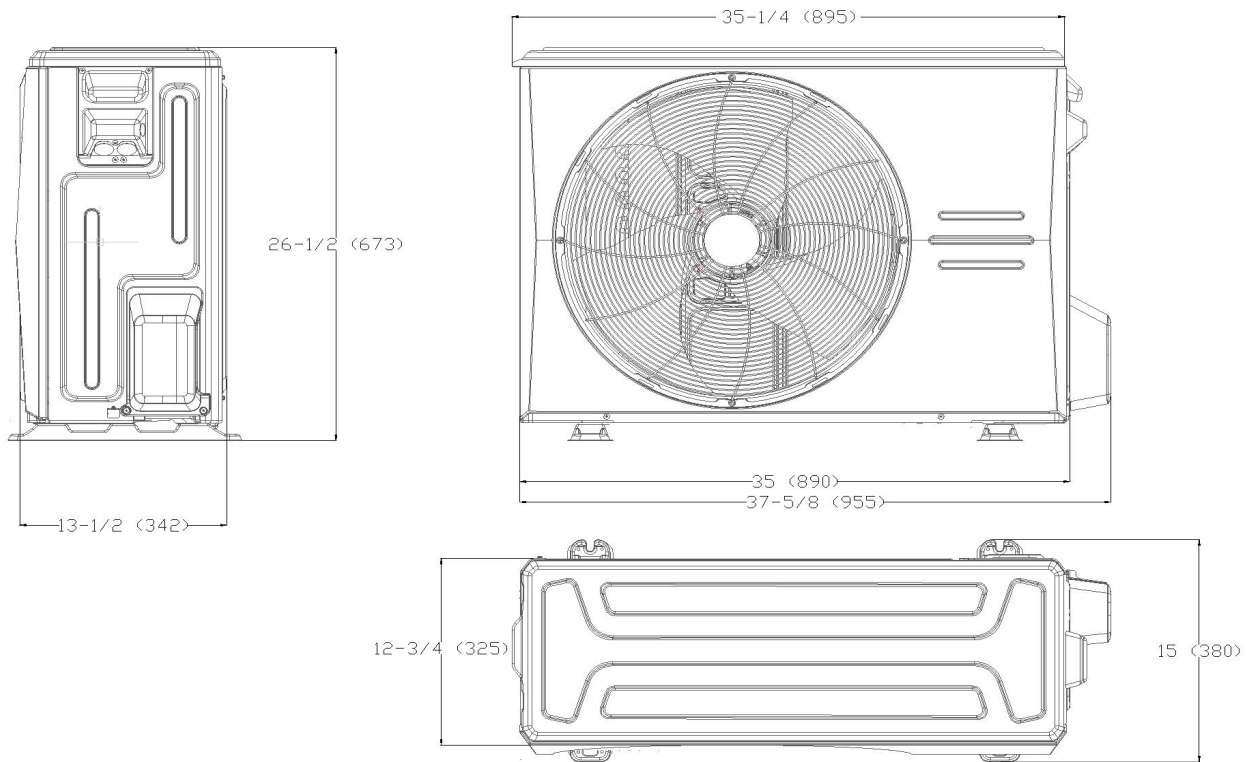
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	164 (50)
Max. Height Difference(ft/m)	82 (25)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	74 (2.1)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared



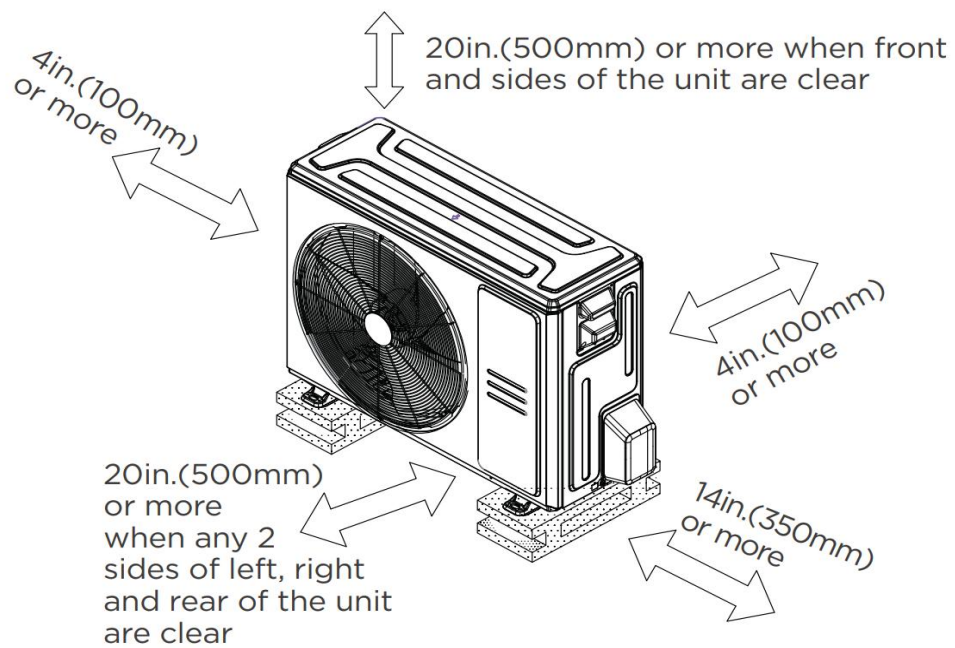
Dimensions	Model(Btu/h)	18K/24K		30K/36K		48K/54K	
		inch	mm	inch	mm	inch	mm
A	Model Height	53-7/8	1368	58-1/8	1476	60-1/8	1526
B	Model Width	14-4/8	368	17-4/8	445	21-4/8	546
C	Supply Air Opening Width	12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width	11-1/8	282	14-4/8	368	18-4/8	470
E	Model Depth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

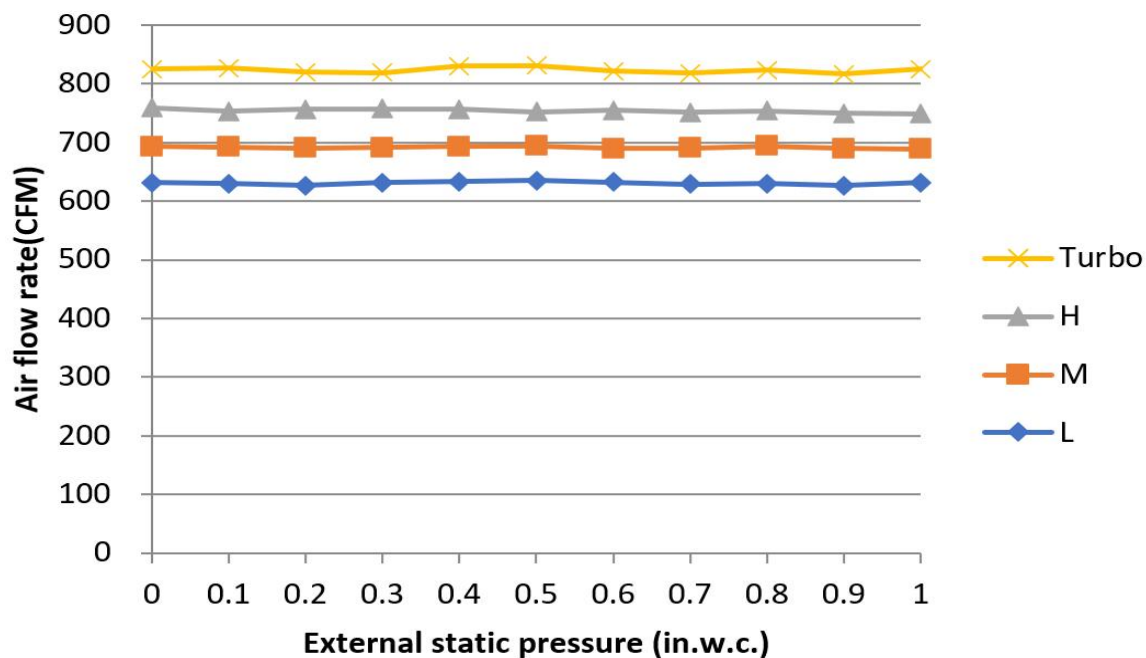
Outdoor Unit Dimension

Unit: inch, mm



Installation Instruction For Outdoor Unit





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%