

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Regular Heat AHU Series
Model Number: MACHU-H18B-2A/MO1ES-H18B-2A

Air Handler Heat Pump System

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



INDOOR SPEINDOOR SPECIFICATIONCIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	618 / 577 / 530 / 489 / 489
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	42 / 42 / 39.5 / 33 / 33
Dimension (W×D×H)	inch 17-1/2 x 21 x 45 mm 445 x 534 x 1143
Package (W×D×H)	inch 26-5/8 x 20-7/8 x 48-5/8 mm 675 x 530 x 1235
Net/Gross Weight	lbs 105 / 126 kg 47.5 / 57

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KSN140D58UFZ
Refrigerant	R454B
Refrigerant Oil Charge(mL)	440
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	1,766
Outdoor Noise Level (dBA)	56.5
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 93 / 100 kg 42 / 45.5

EFFICIENCY

Cooling	Heating
SEER2 18.5	HSPF2-4 9.8
EER2 12.1	COP 3.6

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18,000
Min/Max Capacity	5,600 ~ 20,400
Moisture Removal(L/h)	1.66
Standard Operating Range(*F/*C)	-13~122 (-25 ~ 50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating

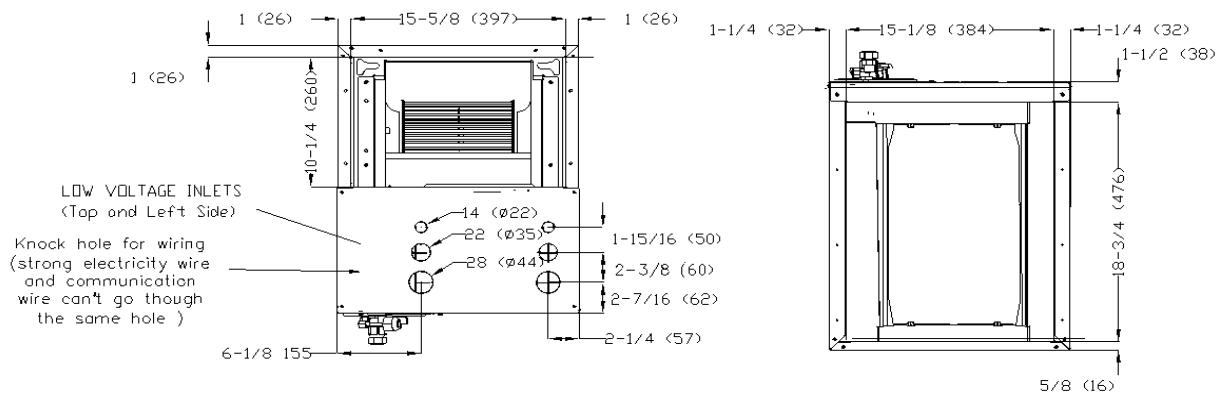
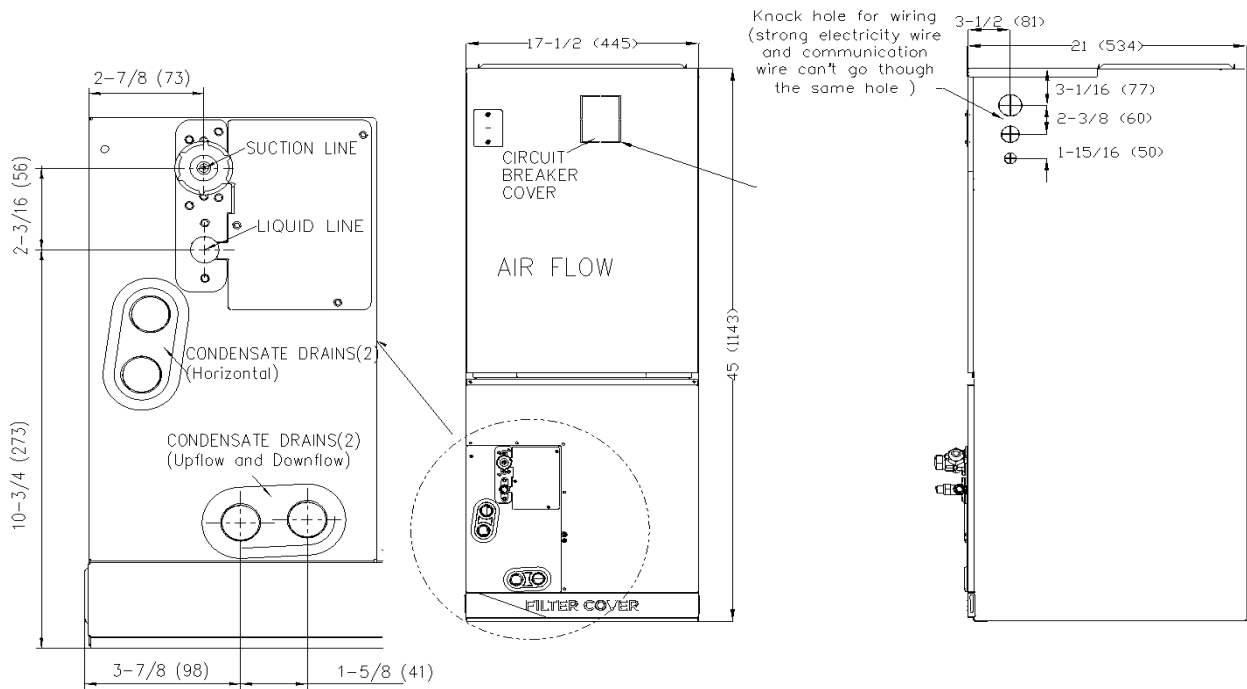
Heating (Btu/hr)	
1. @ 47°F Rated	18,000
1. @ 47°F Min/Max Capacity	5,500 ~ 21,800
2. @ 17°F Rated	13,200
3. @ 5°F Rated: Capacity / COP	13,000 / 2.3
3. @ 5°F Max: Capacity	13,000
Standard Operating Range(*F/*C)	-13~75 (-25 ~ 24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	18.0
Connection Wiring	AWG 14-4
System MOCP	20.0
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	2.3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1,475 (470 ~ 1,850)
System Power Input @ Heating (W)	1,465 (325 ~ 1,800)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

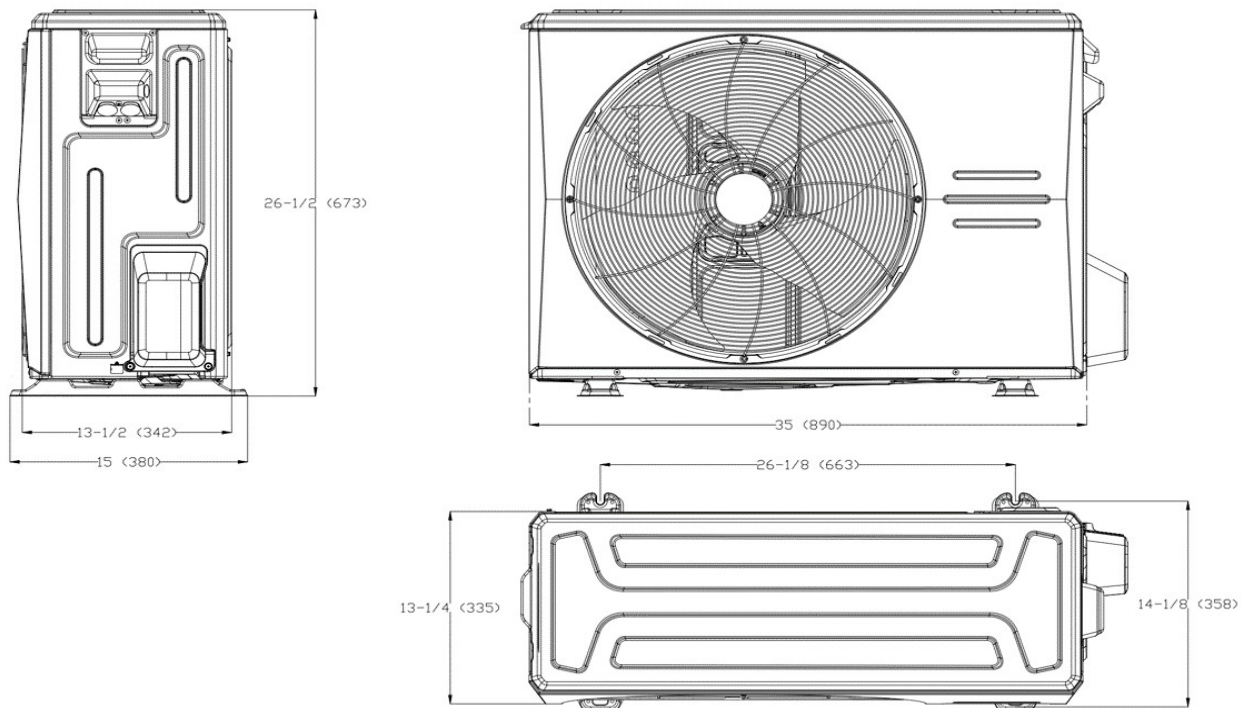
PIPING

Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	1/4" (6.35mm)
Gas Size	1/2" (12.7mm)
Max. Piping Length(ft/m)	98 (30)
Max. Height Difference(ft/m)	65 (20)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	48 (1.36)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.16 (15)
Connection Method	Flared

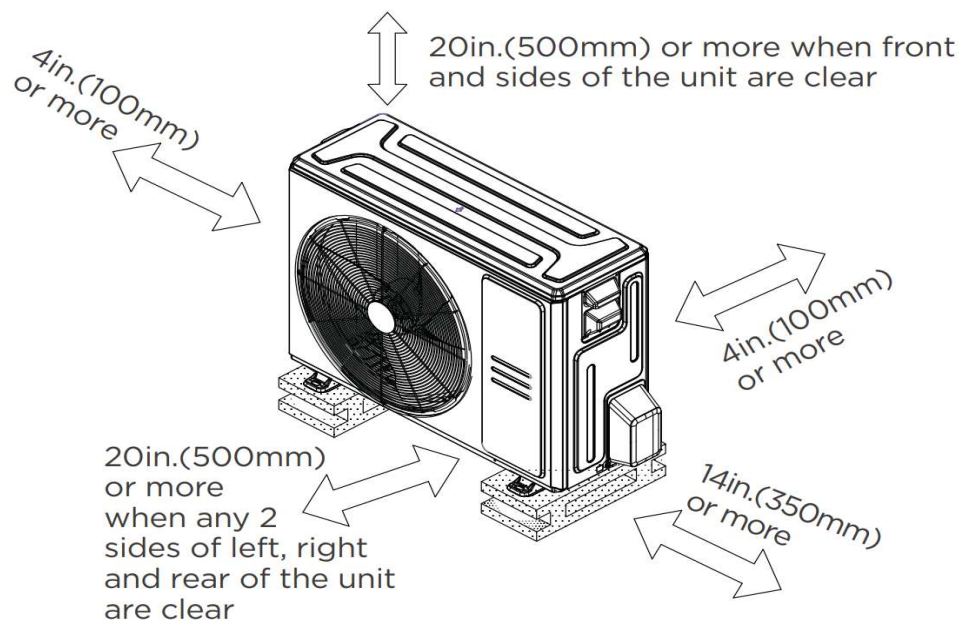


Outdoor Unit Dimension

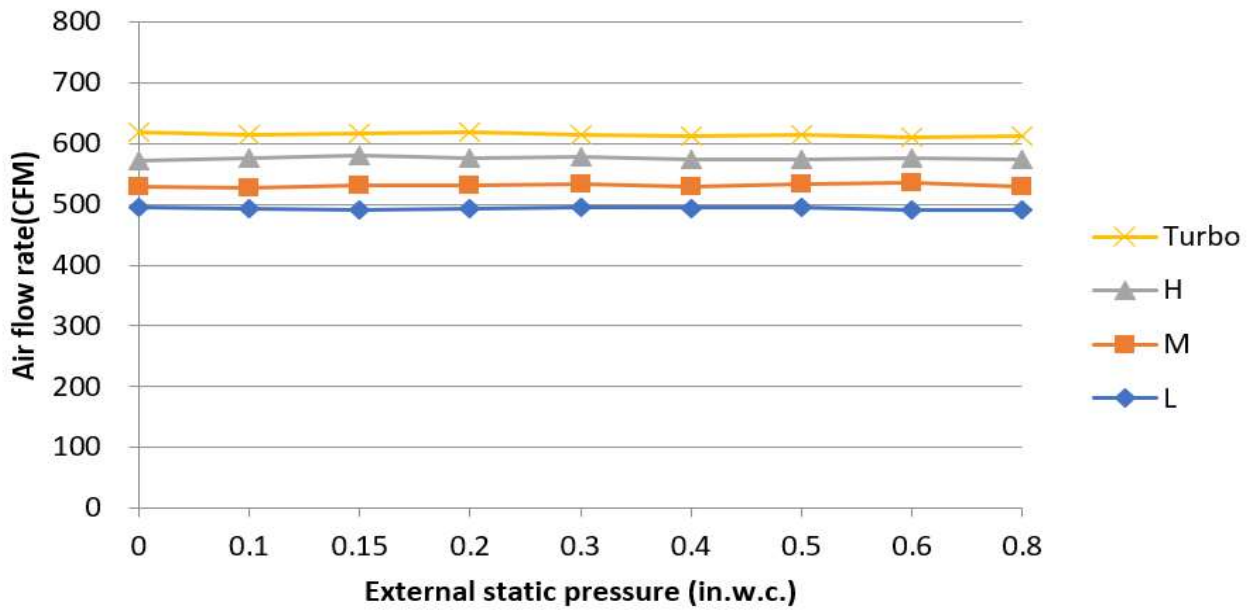
Unit:inch(mm)



Installation Instruction



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
- High efficiency up to 19.7 SEER2, 12.1 EER2, 9.8 HSPF2
- Chassis heater and crankcase heater equipped as standard