

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Regular Heat AHU Series
Model Number: 202

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)	1807.0 / 1583.3 / 1360 / 1136 / 1136
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	51 / 51 / 48 / 42.5 / 42.5
Dimension (W×D×H)	inch 24-1/2 x 21 x 53 mm 622 x 534 x 1346
Package (W×D×H)	inch 27-3/8 x 27-3/4 x 56-1/2 mm 695 x 705 x 1435
Net/Gross Weight	lbs 164 / 190 kg 74.4 / 86.1

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTQ420D1UMU
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1,000
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	4,238
Outdoor Noise Level (dBA)	62.5
Dimension (W×D×H)	inch 37-1/2 x 16-3/8 x 52-1/2 mm 952 x 416 x 1333
Package (W×D×H)	inch 43-1/8 x 19-1/2 x 58-1/4 mm 1095 x 495 x 1480
Net/Gross Weight	lbs 209 / 240 kg 95 / 108.9

EFFICIENCY

Cooling	Heating
SEER2	HSPF2-4
EER2	COP
16	9.1
9.5	3.44

PERFORMANCE of Cooling

Cooling (Btu/hr)
Rated Capacity
Min/Max Capacity
Moisture Removal(L/h)
Standard Operating Range(*F/*C)
Conditions:
Indoor: 80°F DB/67°F WB
Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating

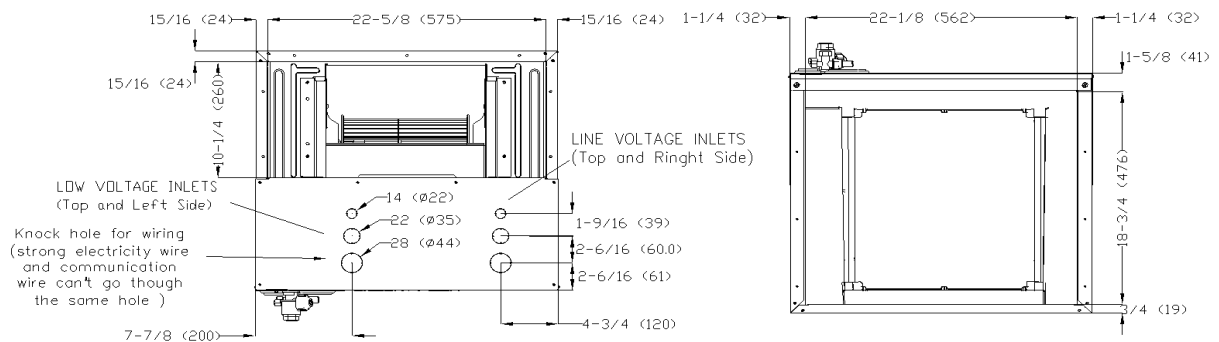
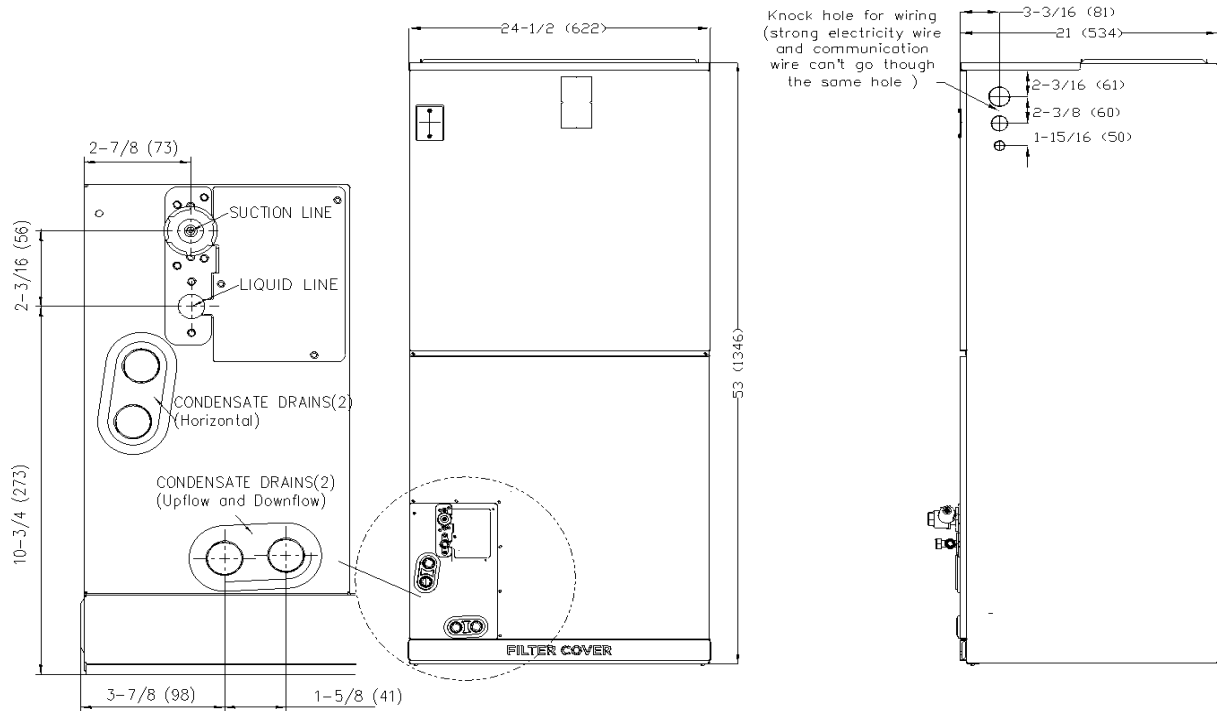
Heating (Btu/hr)
1. @ 47°F Rated
1. @ 47°F Min/Max Capacity
2. @ 17°F Rated
3. @ 5°F Rated: Capacity / COP
3. @ 5°F Max: Capacity
Standard Operating Range(*F/*C)
1. Conditions:
Indoor: 70°F DB/60°F WB
Outdoor: 47°F DB/43°F WB
2. Conditions:
Indoor: 70°F DB/60°F WB
Outdoor: 17°F DB/15°F WB
3. Conditions:
Indoor: 70°F DB/60°F WB
Outdoor: 5°F DB/5°F WB

ELECTRICAL

Power Supply	208/230V, 60Hz, 1Ph
System MCA	42.0
Communication Wiring	AWG 20/2
System MOCP	45.0
Compressor RLA	25.0
Outdoor Fan Motor RLA	2.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	8.3
Indoor Fan Motor W	750
System Power Input @ Cooling (W)	5,798 (1,660 ~ 6,280)
System Power Input @ Heating (W)	5,450 (770 ~ 5,300)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

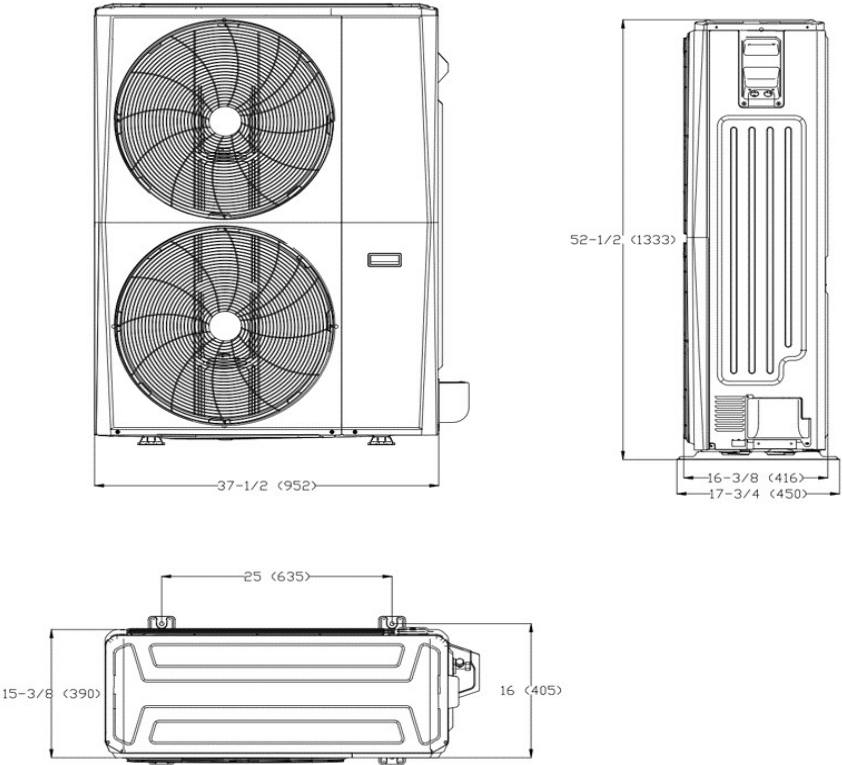
PIPING

Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	213 (65)
Max. Height Difference(ft/m)	98 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	145 (4.1)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

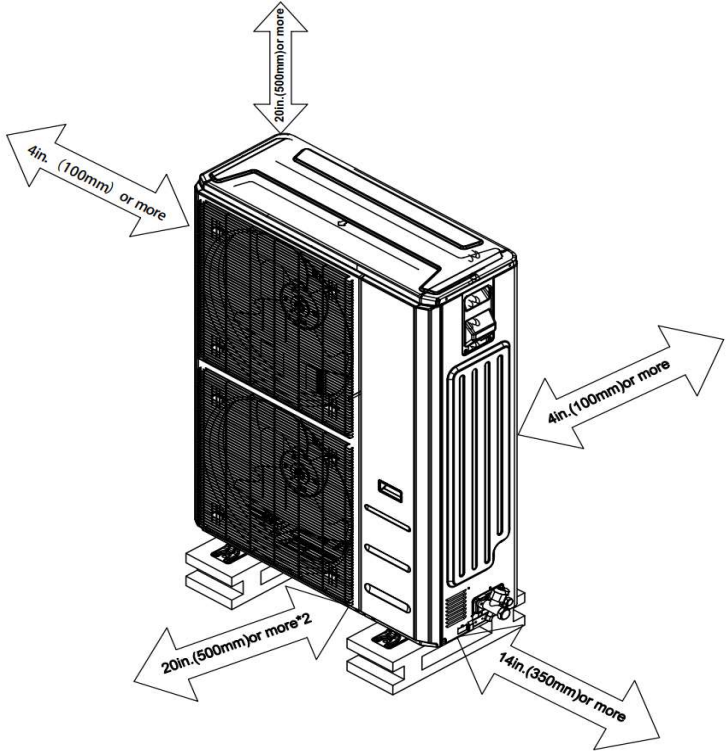


Outdoor Unit Dimension

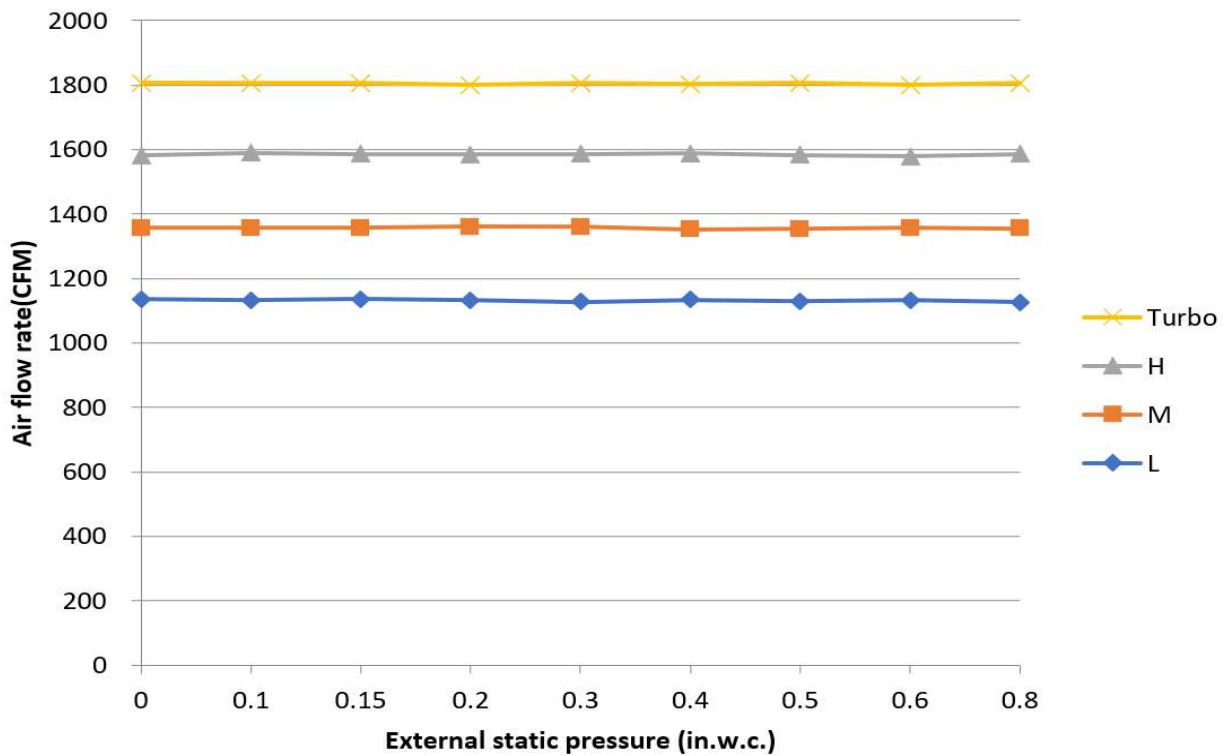
Unit:inch(mm)



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
- Chassis heater and crankcase heater equipped as standard