

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: Ceiling&Floor Energy Star Series  
Model Number: 202

### Ceiling&Floor 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)	736 / 706 / 606 / 453 / 377	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	51 / 49 / 45 / 34 / 29	
Dimension (W×D×H)	inch	42 x 26-5/8 x 9-1/4
	mm	1068 × 675 × 235
Package (W×D×H)	inch	45-1/8 x 29-3/4 x 12-1/2
	mm	1145 × 755 × 318
Net/Gross Weight	lbs	61 / 73
	kg	27.8 / 33.2

### OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Compressor Model	KTM240D46UKT2	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	620	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	2,237	
Outdoor Noise Level (dBA)	59	
Dimension (W×D×H)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 × 410 × 810
Package (W×D×H)	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1090 × 500 × 885
Net/Gross Weight	lbs	122 / 132
	kg	55.4 / 60.0

### EFFICIENCY

Cooling		Heating	
SEER2	21.1	HSPF2-4	11.1
EER2	12.2	COP	2.99

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	24,000
Min/Max Capacity	11,100~29,000
Moisture Removal(L/h)	3.07
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	24,400
1. @ 47°F Min/Max Capacity	11,800~32,600
2. @ 17°F Rated	20,000
3. @ 5°F Rated: Capacity / COP	18,600 / 2.27
3. @ 5°F Max: Capacity	18,600
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

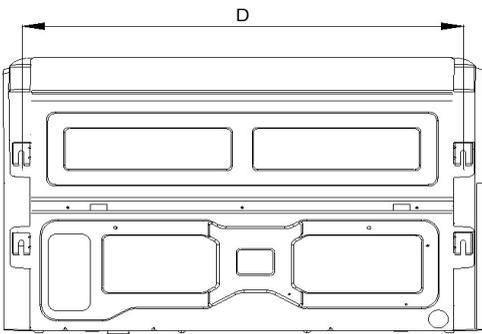
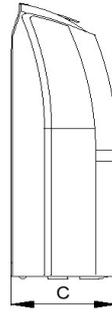
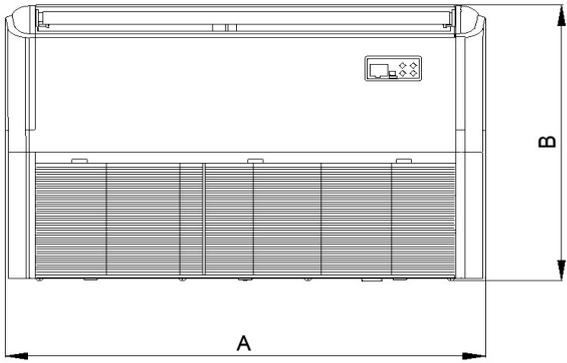
Power Supply	208 / 230 V,60 Hz,1 Ph	
System MCA	24.0	
Connection Wiring	AWG 14/4	
System MOCP	25.0	
Compressor RLA	15.4	
Outdoor Fan Motor RLA	1	
Outdoor Fan Motor W	120	
Indoor Fan Motor RLA	1	
Indoor Fan Motor W	96	
System Power Input @ Cooling (W)	1,967 (820~2,610)	
System Power Input @ Heating (W)	2,385 (675~2,990)	
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" (9.52 mm)
Gas Size	5/8" (15.9 mm)
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)	71 (2)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

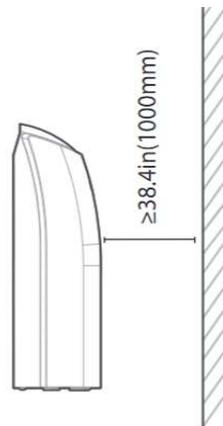
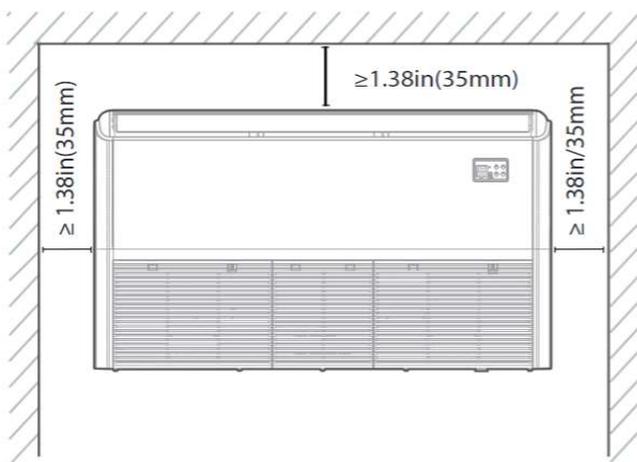
### Indoor Unit Dimension

Unit: inch (mm)

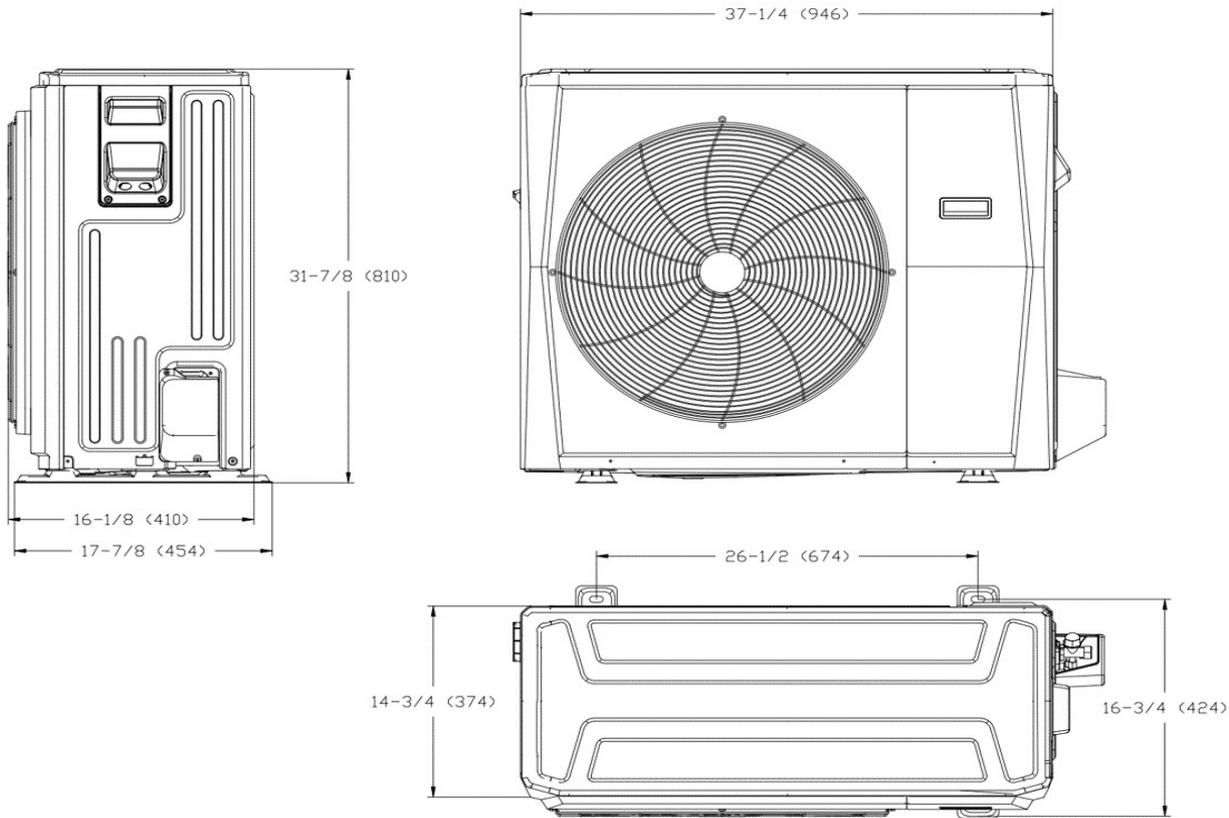


Model	A	B	C	D
18K~24K	42	26-5/8	9-1/4	38-3/4
36K~60K	65	26-5/8	9-1/4	61-5/8

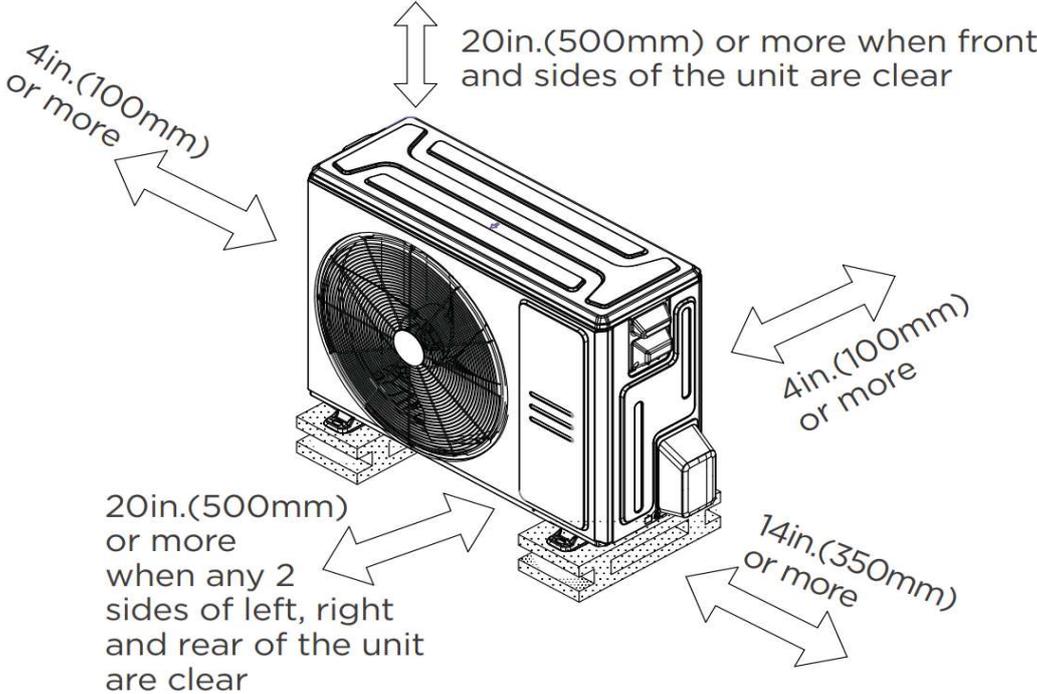
### Installation Instruction



Unit: inch (mm)



Installation Instruction



## FEATURES

- 2 Style Installation
- 3D Airflow
- Refrigerant leakage detection sensor
- Humidity sensor
- “88” display tube
- 1~100% fan speed setting
- WiFi capability: Wired controller with built-in Wi-Fi
- OTA(by using 120N(X6W))
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
  - Two-way communication wired controller with built-in Wi-Fi:120N(X6W)
  - Wireless remote controller
  - Third-Party 24V Thermostat\*

\*24V interface is required.