

### High Wall Heat Pump System

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

## 30,000 BTU R454B Single Zone Ductless Mini Split Air Conditioner and Heat Pump w/WIFI (Package)

**Package Model:** BFMS3021BA-02

**Indoor Model:** BFMS30BA-02I

**Outdoor Model:** BFMS30BA-02O



### INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	871.1 / 647.5 / 447.3 / 329.6 //	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	56.5/52/45/36/22	
Dimension (W×D×H)	inch	49.57 x 11.14 x 14.25
	mm	1259.0×283.0×362.0
Package (W×D×H)	inch	52.76 x 17.72 x 15.16
	mm	1340×450×385
Net/Gross Weight	lbs	43.43/56.88
	kg	19.7/25.8

### OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Compressor Model	KTF250D22UMT	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	670	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	2235.3	
Outdoor Noise Level (dBA)	61.5	
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946.0×410.0×810.0
Package (W×D×H)	inch	42.91 x 19.68 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	142.86/154.54
	kg	64.8/70.1

### EFFICIENCY

Cooling		Heating	
SEER2	22.3	HSPF2-4	9.0
EER2	12.0	COP	3.03

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	30000
Min/Max Capacity	6800~33900
Moisture Removal(L/h)	3.6
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	30000
1. @ 47°F Min/Max Capacity	12300~32100
2. @ 17°F Rated	20000
3. @ 5°F Rated: Capacity / COP	20000/1.94
3. @ 5°F Max: Capacity	20000
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

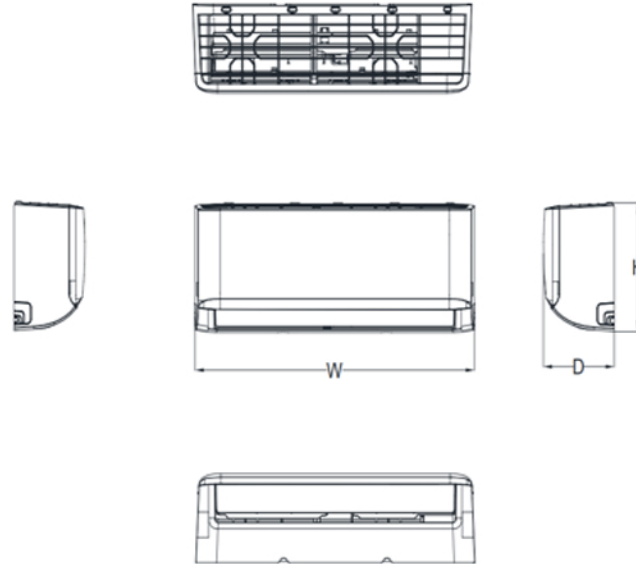
### ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	28.0
Connection Wiring	14#x4
System MOCP	30
Compressor RLA	17.5
Outdoor Fan Motor RLA	1.3
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	0.7
Indoor Fan Motor W	58
System Power Input @ Cooling (W)	2500(700 ~ 3220)
System Power Input @ Heating (W)	2900(755 ~2950)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### PIPING

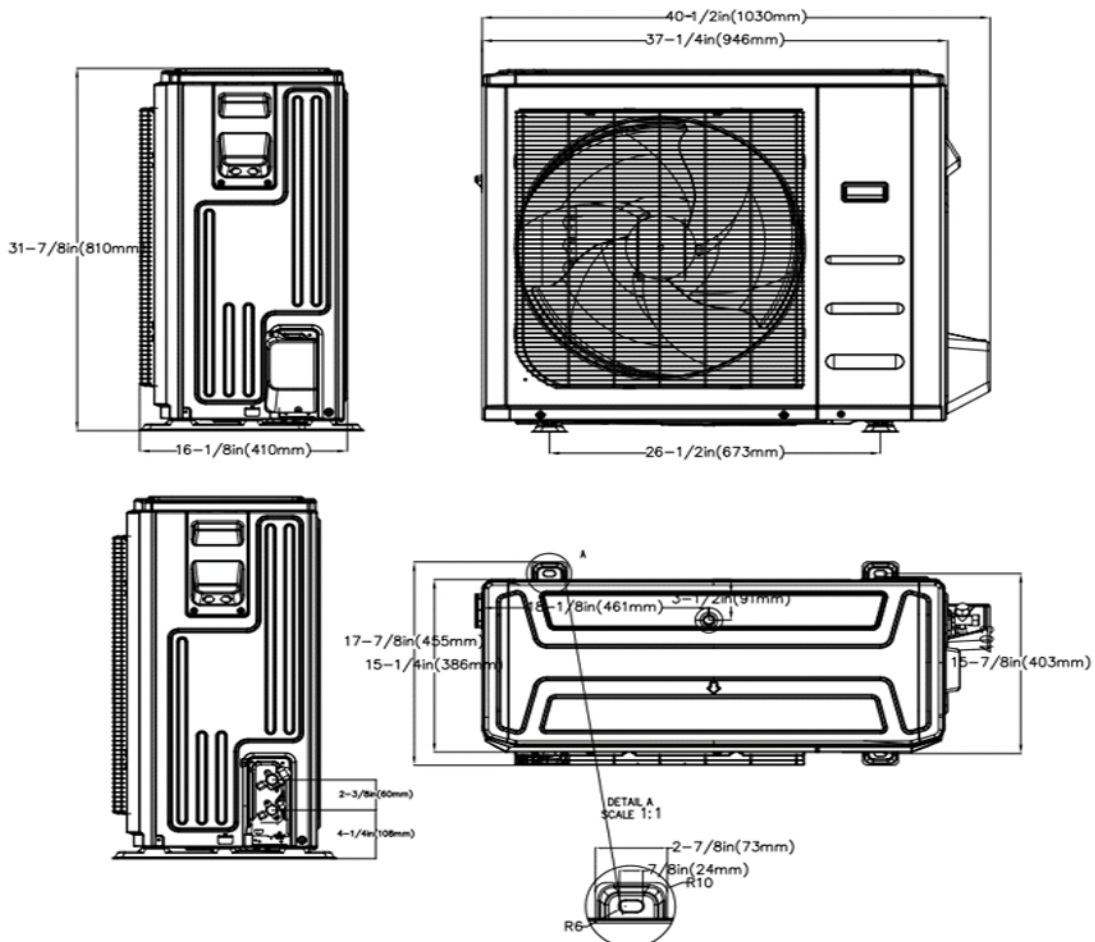
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Capillary
Liquid Size	9.52mm(3/8in)
Gas Size	15.9mm(5/8in)
Max. Piping Length(ft/m)	164.00(50)
Max. Height Difference(ft/m)	82.00(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	84.66(2.4)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32(30)
Connection Method	Flared

### Indoor Unit Dimension



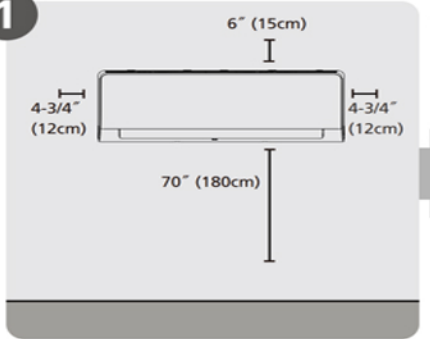
Capacity	Body Code	W(inch/mm)	D(mm/inch)	H(mm/inch)
6K~9K	A	28-3/4in /729mm	7-7/8in /200mm	11-1/2in /292mm
9K~12K	B	31-5/8in /802mm	7-7/8in /200mm	11-5/8in /295mm
18K	C	38-1/4in /971mm	9in/228mm	12-5/8in /321mm
18K~24K	D	42-5/8in /1082mm	9-1/4in/234mm	13-1/4in /337mm
30K~36K	F	49-5/8in /1259mm	11-1/8in/283mm	14-1/4in /362mm

### Outdoor Unit Dimension

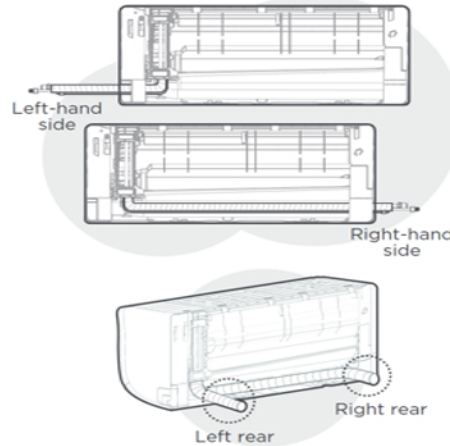


### Installation Instruction

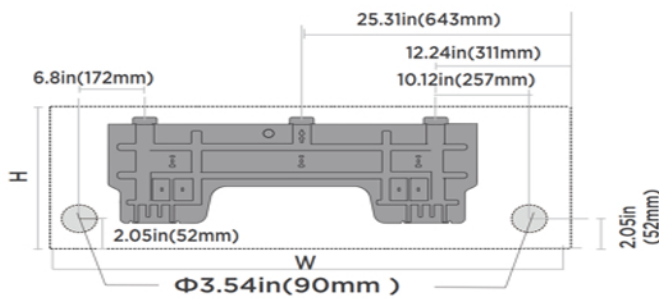
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Select Installation Location



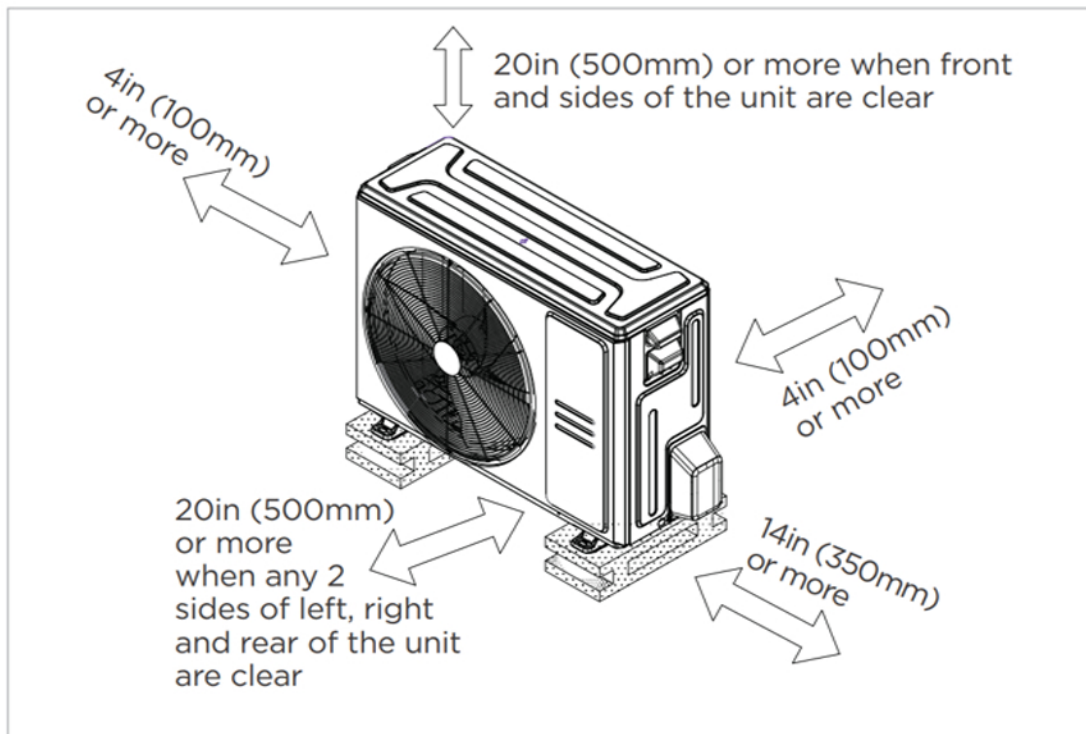
**NOTE:**  
Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of the



**Indoor unit dimensions(WxH):**  
49.57in(1259mm)x14.25in(362mm)

**NOTE:**  
When the gas side connective pipe is  $\Phi$  (5/8in)16mm or more, the wall hole should be (3-1/2in)90mm.

### Installation Instruction



Meets all spatial requirements shown in Installation Clearance Requirements above.