

### High Wall Heat Pump System

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

## 24,000 BTU R454B Single Zone Ductless Mini Split Air Conditioner and Heat Pump w/WIFI (Package)

**Package Model:** BFMS2418BA-02

**Indoor Model:** BFMS24BA-02I

**Outdoor Model:** BFMS24BA-02O



### EFFICIENCY

Cooling		Heating	
SEER2	18.5	HSPF2-4	9.0
EER2	9.6	COP	3.22

### PERFORMANCE of Cooling

#### Cooling (Btu/hr)

Rated Capacity	24000
Min/Max Capacity	6200~24700
Moisture Removal(L/h)	3.0
Standard Operating Range(*F/*C)	5~122(-15~50)
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	25000
1. @ 47°F Min/Max Capacity	11900~27200
2. @ 17°F Rated	17200
3. @ 5°F Rated: Capacity / COP	22000/1.97
3. @ 5°F Max: Capacity	22000
Standard Operating Range(*F/*C)	5~75(-15~24)
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

### INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	729.9 / 547.4 / 400.2 / 329.6 / /	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	54.0/46/41.0/28/22	
Dimension (W×D×H)	inch	42.60 x 9.21 x 13.27
	mm	1082.0×234.0×337.0
Package (W×D×H)	inch	45.47 x 16.34 x 12.40
	mm	1155×415×315
Net/Gross Weight	lbs	30.64/39.68
	kg	13.9/18.0

### OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Compressor Model	KTM240D46UKT2	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	620	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	1764.7	
Outdoor Noise Level (dBA)	62.0	
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50
	mm	890.0×342.0×673.0
Package (W×D×H)	inch	39.17 x 15.67 x 29.13
	mm	995×398×740
Net/Gross Weight	lbs	94.58/102.29
	kg	42.9/46.4

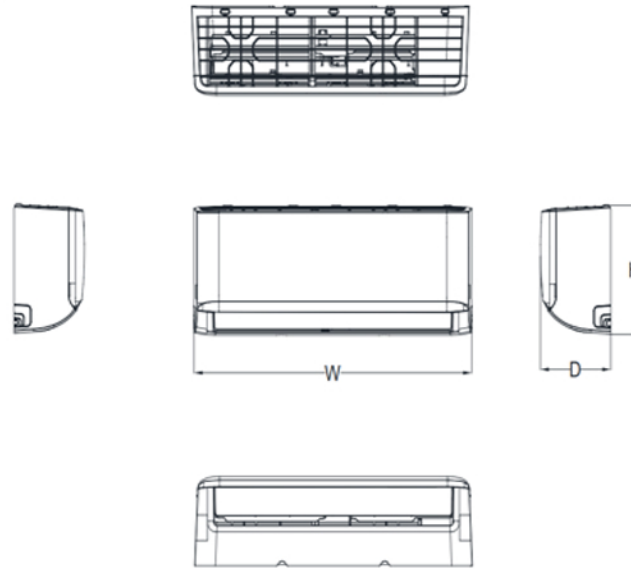
### ELECTRICAL

Power Supply	208/230V,60Hz,1Ph	
System MCA	19.0	
Connection Wiring	14#x4	
System MOCP	20	
Compressor RLA	13.8	
Outdoor Fan Motor RLA	0.8	
Outdoor Fan Motor W	80	
Indoor Fan Motor RLA	0.6	
Indoor Fan Motor W	58	
System Power Input @ Cooling (W)	2474(290 ~ 2630)	
System Power Input @ Heating (W)	2275(970 ~2770)	
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)	
RLA: Rated load amps (A)	W: Fan motor rated output (W)	

### PIPING

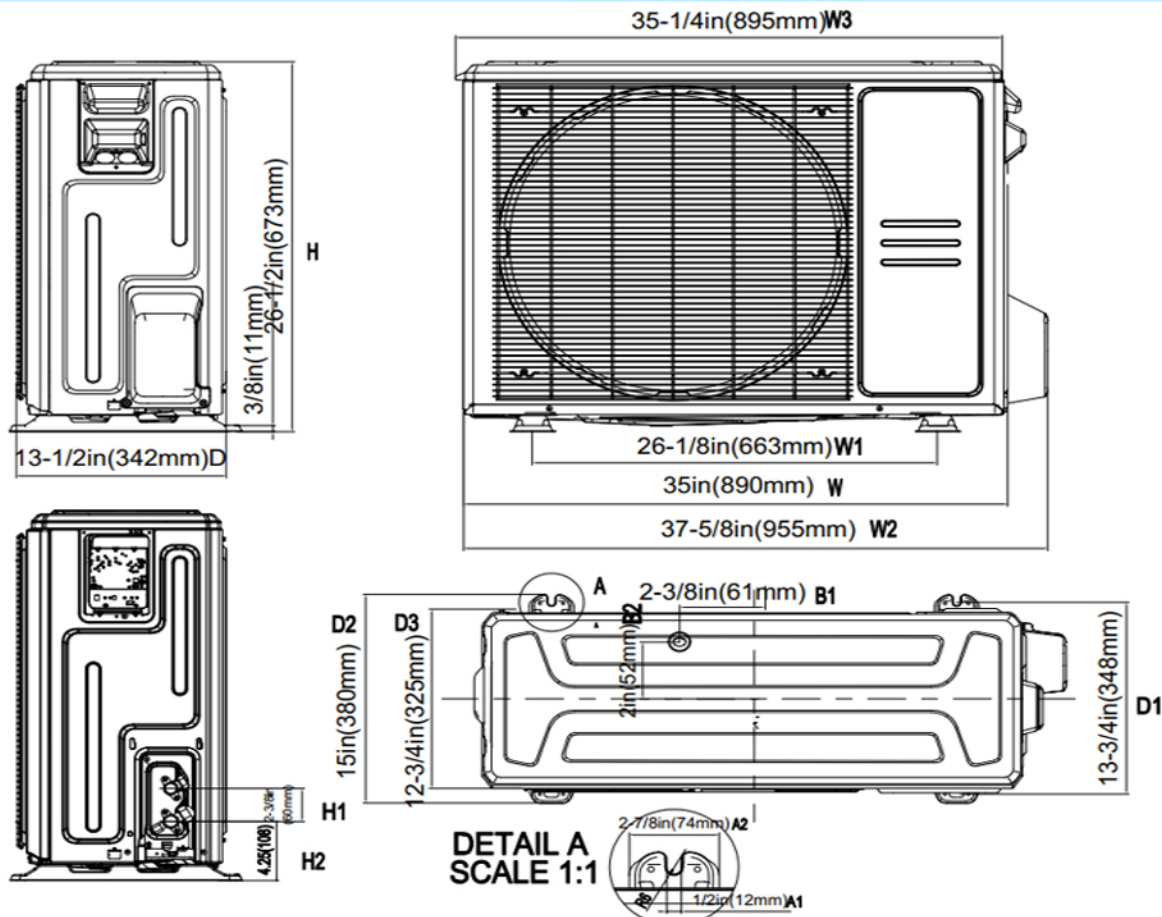
Throttle type(Indoor)	N/A	
Throttle type(Outdoor)	Throttle valve	
Liquid Size	9.52mm(3/8in)	
Gas Size	15.9mm(5/8in)	
Max. Piping Length(ft/m)	164.00(50)	
Max. Height Difference(ft/m)	82.00(25)	
Max. Pre-charged Length(ft/m)	24.6(7.5)	
Refrigerant Pre-charged Amount(oz/g)	53.62(1.52)	
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32(30)	
Connection Method	Flared	

### Indoor Unit Dimension

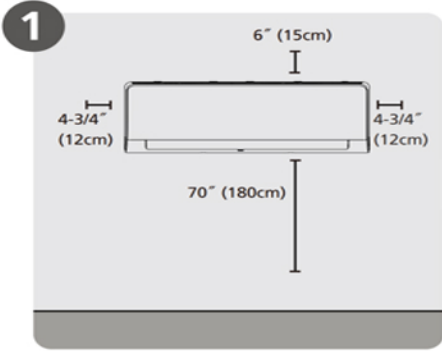


Capacity	Body Code	W(inch/mm)	D(mm/inch)	H(mm/inch)
6K~9K	A	28-3/4in /729mm	7-7/8in /200mm	11-1/2in /292mm
9K~12K	B	31-5/8in /802mm	7-7/8in /200mm	11-5/8in /295mm
18K	C	38-1/4in /971mm	9in/228mm	12-5/8in /321mm
18K~24K	D	42-5/8in /1082mm	9-1/4in/234mm	13-1/4in /337mm
30K~36K	F	49-5/8in /1259mm	11-1/8in/283mm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

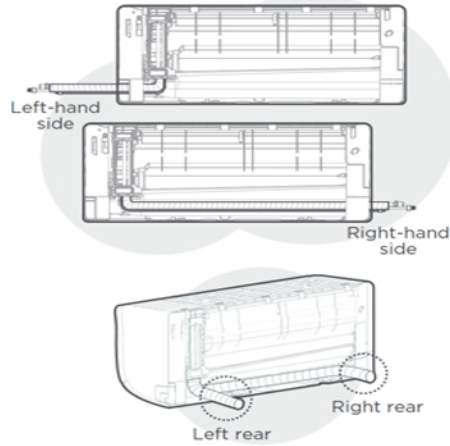
### Outdoor Unit Dimension



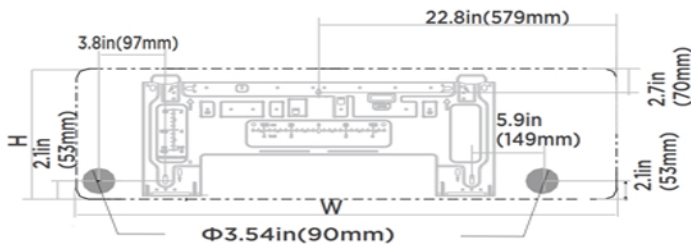
### Installation Instruction



**Select Installation Location**



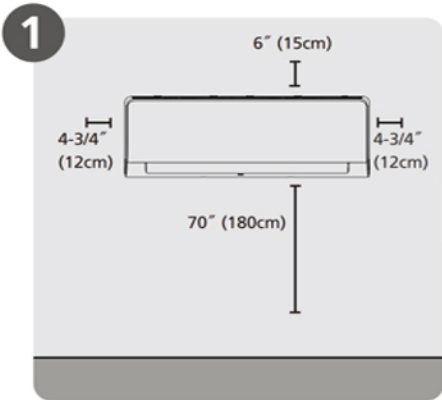
**NOTE:**  
Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of the



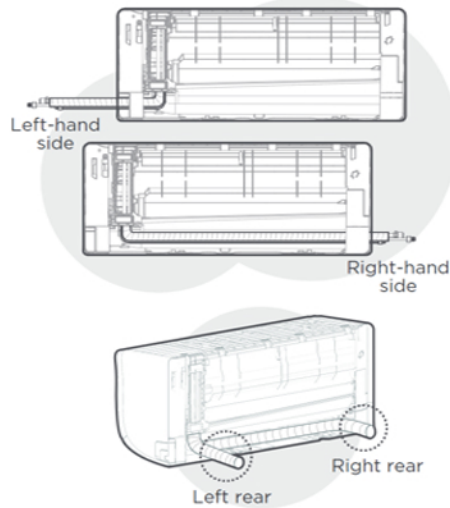
**Indoor unit dimensions(WxH):**  
42.6in(1082mm)x13.3(338mm)

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

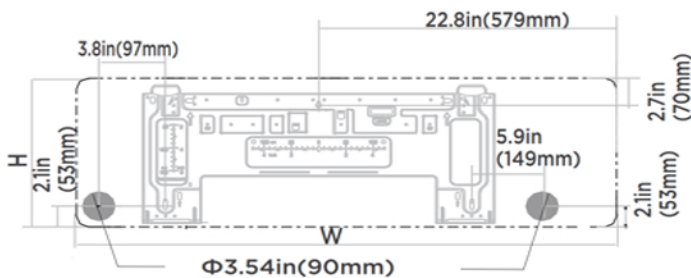
### Installation Instruction



**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):**  
42.6in(1082mm)x13.3(338mm)

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