

High Wall Heat Pump System

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

12,000 BTU R454B Basic Single Zone Ductless Mini Split Air Conditioner and Heat Pump w/WIFI (Package)

Package Model: BFMS1221BA-02

Indoor Model: BFMS12BA-02I

Outdoor Model: BFMS12BA-02O



INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	347.3 / 294.3 / 194.2 / 153.0 //	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	46/41/35/24/18.5	
Dimension (W×D×H)	inch	31.57 x 7.87 x 11.61
	mm	802.0×200.0×295.0
Package (W×D×H)	inch	34.45 x 11.22 x 14.96
	mm	875×285×380
Net/Gross Weight	lbs	18.96/25.13
	kg	8.6/11.4

OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Compressor Model	KSN98D64UFZ3	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	300	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	1235.3	
Outdoor Noise Level (dBA)	53.0	
Dimension (W×D×H)	inch	30.12 x 11.93 x 21.85
	mm	765.0×303.0×555.0
Package (W×D×H)	inch	34.92 x 13.27 x 24.02
	mm	887×337×610
Net/Gross Weight	lbs	59.08/64.37
	kg	26.8/29.2

EFFICIENCY

Cooling		Heating	
SEER2	21.3	HSPF2-4	9.2
EER2	10.8	COP	3.34

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	12000
Min/Max Capacity	2700~13800
Moisture Removal(L/h)	1.4
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	12000
1. @ 47°F Min/Max Capacity	4200~14100
2. @ 17°F Rated	8300
3. @ 5°F Rated: Capacity / COP	8000/1.80
3. @ 5°F Max: Capacity	8000
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

ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	13.0
Connection Wiring	14#x4
System MOCP	15
Compressor RLA	7.5
Outdoor Fan Motor RLA	0.4
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.4
Indoor Fan Motor W	30
System Power Input @ Cooling (W)	1111(220 ~ 1430)
System Power Input @ Heating (W)	1053(235 ~ 1310)
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)	Capillary
Liquid Size	6.35mm(1/4in)
Gas Size	9.52mm(3/8in)
Max. Piping Length(ft/m)	82.00(25)
Max. Height Difference(ft/m)	49.20(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	24.69(0.7)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.16(15)
Connection Method	Flared