



BMY1221 Specifications and Certifications



Models



BMY1221C	12000 BTU 21.4 SEER2 208/230V Minisplit Heat Pump Condenser
BMY1221WM	12000 BTU 21.4 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY1221	12000 BTU 21.4 SEER2 208/230V Minisplit Heat Pump System
BMY1221 KIT15	12000 BTU 21.4 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY1221 KIT25	12000 BTU 21.4 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMY1221

12000 BTU 20.5 SEER2 208/230V Mini-Split Heat Pump Condenser

12000 BTU 20.5 SEER2 208/230V Mini-Split Heat Pump Air Handler

Remote Controller



Mini-Split System with Installation Kit

BMY1221 KIT15

12000 BTU 20.5 SEER2 208/230V Mini-Split Heat Pump Condenser

12000 BTU 20.5 SEER2 208/230V Mini-Split Heat Pump Air Handler

15 Foot 1/4 LL 1/2 SL Ductless Mini-Split Line Set

25 Foot Stranded Ductless Mini-Split Communication Wire

2.5" Wall Sleeve for SpeediChannel™ Line Set Covers

1/2 x 48 Inches, #10 Gauge Electrical Whip

Nylog Blue Gasket, Flare and Thread Sealant

Safety Non-Fused Electrical Disconnect

5/8in Inner Diameter Drain Hose, 20ft Length

Adapter 5/16" x 1/4" for Ductless Mini-Split Systems

Remote controller



BMY1221 KIT25

12000 BTU 20.5 SEER2 208/230V Mini-Split Heat Pump Condenser

12000 BTU 20.5 SEER2 208/230V Mini-Split Heat Pump Air Handler

25 Foot 1/4 LL 1/2 SL Ductless Mini-Split Line Set

35 Foot Stranded Ductless Mini-Split Communication Wire

2.5" Wall Sleeve for SpeediChannel™ Line Set Covers

1/2 x 48 Inches, #10 Gauge Electrical Whip

Nylog Blue Gasket, Flare and Thread Sealant

Safety Non-Fused Electrical Disconnect

5/8in Inner Diameter Drain Hose, 20ft Length

Adapter 5/16" x 1/4" for Ductless Mini-Split Systems

Remote controller





SUBMITTAL DATA SHEET

Wall Mounted Heat Pump System

Location: _____
Engineer: _____
Submitted to: _____
Submitted by: _____
Reference: _____

Approval: _____
Date: _____
Construction: _____
Unit #: _____
Drawing #: _____

Set Model
15 Ft Kit Model BMY1221
25 Ft Kit Model BMY1221 KIT15
 BMY1221 KIT25

Certified

AHRI



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SYSTEM PERFORMANCE DATA

Power supply

Normal Operational Voltage (V, Ph, Hz) 208/230V, 1Ph, 60Hz
Voltage Range (V) 187-253

Electrical

Minimum circuit ampacity(Outdoor) (A) 15.0
Max.fuse(Outdoor) (A) 15.0
Connection wiring 14#x4

Cooling

Capacity (Btu/h) 12000(3800~13350)
Power Input (W) 1111(239~1528)
Current (A) 4.9(1.05~6.78)
SEER2 (Btu/W) 21.4
EER2 (Btu/W) 10.8

Heating

Capacity (Btu/h) 12000(2730~13900)
Power Input (W) 1039(376~1390)
Current (A) 4.6(1.67~6.17)
HSPF2-4 (Btu/W) 9.2

COP W/W 3.38
Heat at 17F(AHRI Rating) (Btu/h) 7000
Heat at 5F(AHRI Rating) (Btu/h) 8000
COP at 5F(AHRI Rating) W/W 1.79

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	Capillary
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	28.57
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.16
Liquid side/ Gas side(indoor)	(inch)	1/4"/1/2"
Liquid side/ Gas side(outdoor)	(inch)	1/4"/1/2"
Max. pipe length	(ft)	82.0
Max. difference in level	(ft)	32.8
Connection method		Flared
Remote Control Temp Range(cooling)	(Deg. F)	62 ~ 86
Remote Control Temp Range(heating)	(Deg. F)	62 ~ 86
Outdoor(cooling)	(Deg. F)	5~122
Outdoor(heating)	(Deg. F)	5~75

INDOOR UNIT DATA

Indoor fan motor

Model	ZKFP-13-8-4
Qty	1
Input	(W) /
Output	(W) 13.0
RLA	(A) 0.6

Air flow & Noise level

Indoor air flow (Turbo/Hi/Med/Lo)	(CFM)	347.06/291.18/197.06/155.88
Indoor noise level (Hi/Med/Lo)	[dB(A)]	41/35/24

Dehumidification

	(L/H)	1.21
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Indoor unit

Dimension (WxDxH)	(inch)	31.57x7.87x11.61
Packing(WxDxH)	(inch)	34.45x11.22x14.96
Net/Gross weight	(lbs.)	18.74/24.03

OUTDOOR UNIT DATA

Compressor

Type	ROTARY
Model	KSN98D64UFZ3
Brand	GMCC
Capacity	(Btu/h) 10577
Input	(W) 765
Rated current (RLA)	(A) 7.5
Refrigerant oil/oil charge	(ml) ESTER OIL VG74 300±10

Outdoor fan motor

Model	ZKFN-34-10-1-3
Qty	1
Input	(W) /
Output	(W) 34
RLA	(A) 0.7

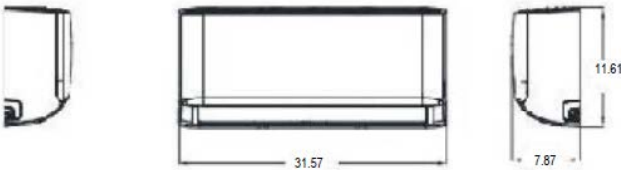
Air flow & Noise level

Outdoor air flow (Max.)	(CFM)	1235
Outdoor noise level	[dB(A)]	53.5

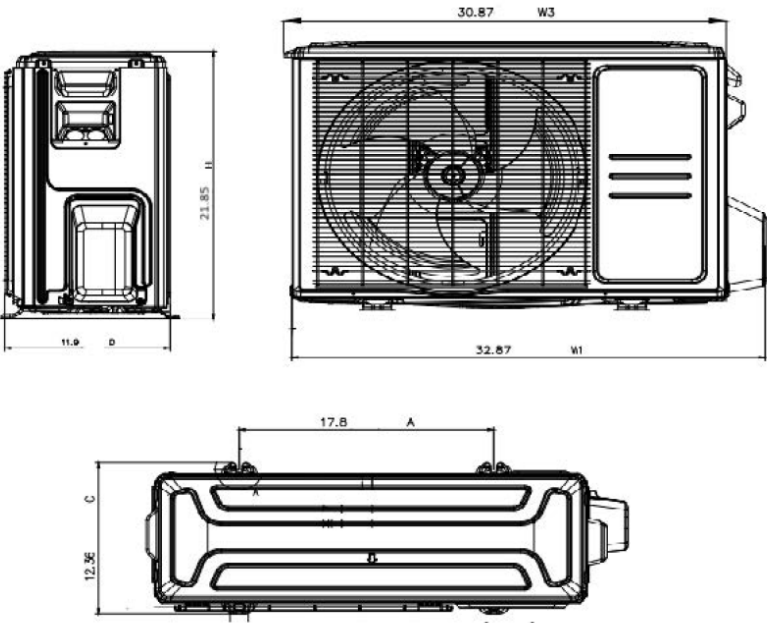
Outdoor unit

Dimension (WxDxH)	(inch)	30.12x11.93x21.85
Packing (WxDxH)	(inch)	34.92x13.27x24.02
Net/ Gross weight	(lbs.)	59.30/64.82

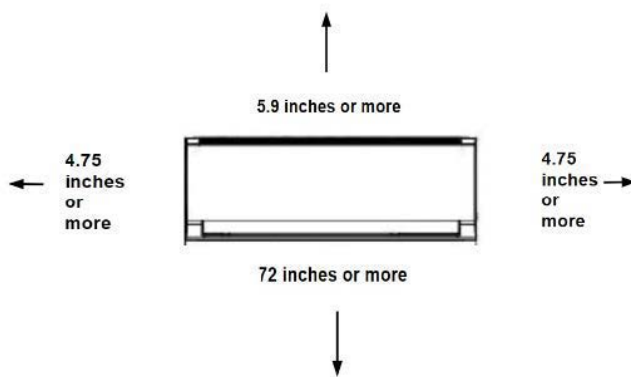
Indoor unit dimension (Inches)



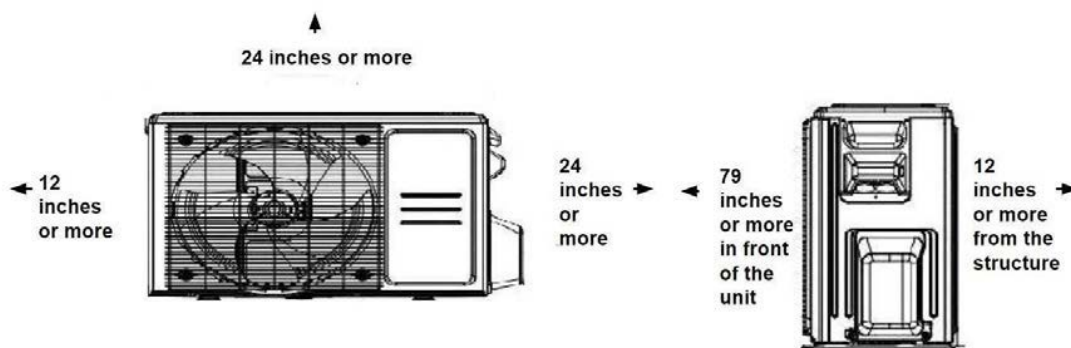
Outdoor unit dimension (Inches)



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



COOLING PERFORMANCE DATA

Model	Cooling																
	Indoor Conditions DB		5°F	17°F	25°F	35°F	47°F	55°F	65°F	75°F	80°F	85°F	95°F	105°F	110°F	115°F	122°F
BMY1221WM BMY1221C Wall Mounted (208-230V)	65°F	TC	10598	10944	10966	11253	11027	11341	11119	11323	11047	11356	11352	11099	10846	9984	9384
		Input	804	892	924	1009	1085	1174	1211	1326	1391	1479	1487	1548	1570	1686	1826
	70°F	TC	11121	11447	11506	11958	11719	11913	11717	11844	11580	11954	11962	11708	11298	10576	9805
		Input	795	887	925	1028	1084	1176	1222	1324	1381	1471	1487	1568	1564	1708	1807
	75°F	TC	11806	12139	12202	12522	12467	12448	12373	12507	12319	12491	12631	12337	11793	11086	10343
		Input	797	891	931	1020	1104	1162	1221	1335	1400	1468	1506	1568	1552	1702	1799
	80°F	TC	12375	12672	12899	13126	13221	13172	13121	13069	13023	13218	13395	12891	12323	11657	10910
		Input	799	877	941	1020	1123	1179	1241	1312	1411	1435	1505	1541	1556	1692	1641

HEATING PERFORMANCE DATA

Model	Heating			5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F
	Indoor Conditions DB													
BMY1221WM BMY1221C Wall Mounted (208-230V)	60°F	TC	8459	9101	9649	10102	10651	11166	11740	13355	14765	15460	16140	
		Input	1233	1252	1239	1223	1205	1185	1180	1272	1323	1357	1367	
	65°F	TC	8173	8827	9332	9827	10331	10830	11354	12953	14307	15054	15655	
		Input	1259	1281	1273	1249	1231	1219	1204	1302	1359	1389	1402	
	70°F	TC	7943	8545	9069	9559	10049	10525	10992	12527	13917	14587	15170	
		Input	1296	1313	1303	1281	1266	1251	1239	1335	1394	1417	1431	
	75°F	TC	7617	8212	8697	9138	9698	10052	10530	12089	13360	13945	14624	
		Input	1340	1350	1347	1320	1298	1289	1278	1373	1430	1463	1479	

LEGEND

DB --- Dry Bulb (Air Temperature without considering humidity)
 TC --- Total Net Capacity 1000 Btu/hour (Actual Capacity + Dehumidifying Capacity)
 Input --- Total Power (W)

Certificate of Product Ratings

AHRI Certified Reference Number : 207339174 Date : 02-28-2024 Model Status : Active

AHRI Type : HRCU-A-CB-O (Mini-Split Heat Pump, with Remote Outdoor Unit Air-Source, Free Delivery)

Outdoor Unit Brand Name : BLUERIDGE

Outdoor Unit Model Number : BMY1221C

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMY1221WM

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 12000

SEER : 20.50

EER (A2) - Single or High Stage (95F) : 10.80

Heating Capacity (H12) - Single or High Stage (47F) : 12000

HSPF (Region IV) : 10.70

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 12000

SEER2 : 21.40

EER2 (A_{Full}) – Single or High Stage (95F) : 10.80

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 12000

HSPF2 (Region IV) : 9.20

Sold in? : USA, Canada

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†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRI.net.org for more information about updated energy efficiency metrics.

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