



BMX1220 Specifications and Certifications



Models



BMX1220C	12000 BTU 20.8 SEER2 115V Minisplit Heat Pump Condenser
BMX1220WM	12000 BTU 20.8 SEER2 115V Minisplit Heat Pump Air Handler
BMX1220	12000 BTU 20.8 SEER2 115V Minisplit Heat Pump System
BMX1220 KIT15	12000 BTU 20.8 SEER2 115V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMX1220 KIT25	12000 BTU 20.8 SEER2 115V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMX1220

12000 BTU 21.5 SEER2 115V Mini-Split Heat Pump Condenser

12000 BTU 21.5 SEER2 115V Mini-Split Heat Pump Air Handler

Remote Controller



Mini-Split System with Installation Kit

BMX1220 KIT15

12000 BTU 21.5 SEER2 115V Mini-Split Heat Pump Condenser

12000 BTU 21.5 SEER2 115V 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



BMX1220 KIT25

12000 BTU 21.5 SEER2 115V Mini-Split Heat Pump Condenser

12000 BTU 21.5 SEER2 115V 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 BMX1220
25 Ft Kit Model BMX1220 KIT15
BMX1220 KIT25

Certified

AHRI



UL



SYSTEM PERFORMANCE DATA

Power supply

Normal Operational Voltage (V, Ph, Hz) 115V, 1Ph, 60Hz
Voltage Range (V) 103.5-126.5

Electrical

Minimum circuit ampacity (Outdoor) (A) 18.5
Max. fuse (Outdoor) (A) 20.0
Connection wiring 14#x4

Cooling

Capacity (Btu/h) 12000(3800~12100)
Power Input (W) 1165(239~1890)
Current (A) 10.13(2.07~16.5)
SEER2 (Btu/W) 20.8
EER2 (Btu/W) 10.3

Heating

Capacity (Btu/h) 12000(2730~12500)
Power Input (W) 1154(376~1390)
Current (A) 10.05(3.26~16)
HSPF2-4 (Btu/W) 8.7

COP W/W 3.05
Heat at 17F(AHRI Rating) (Btu/h) 7800
Heat at 5F(AHRI Rating) (Btu/h) 6300
COP at 5F(AHRI Rating) W/W 1.78

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-20-8-113
Qty	1
Input (W)	35.0
Output (W)	20.0
RLA (A)	0.4

Air flow & Noise level

Indoor air flow (Turbo/Hi/Med/Lo) (CFM)	341.18/300.00/241.18/176.47
Indoor noise level (Hi/Med/Lo) [dB(A)]	41/35/26.5

Dehumidification

(L/H)	1.46
-------	------

Indoor unit

Dimension (WxDxH) (inch)	31.57x7.87x11.61
Packing (WxDxH) (inch)	34.45x11.22x14.96
Net/Gross weight (lbs.)	18.52/24.03

OUTDOOR UNIT DATA

Compressor

Type	ROTARY
Model	KSN98D64UFZ3
Brand	GMCC
Capacity (Btu/h)	10577
Input (W)	765
Rated current (RLA) (A)	12.98
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

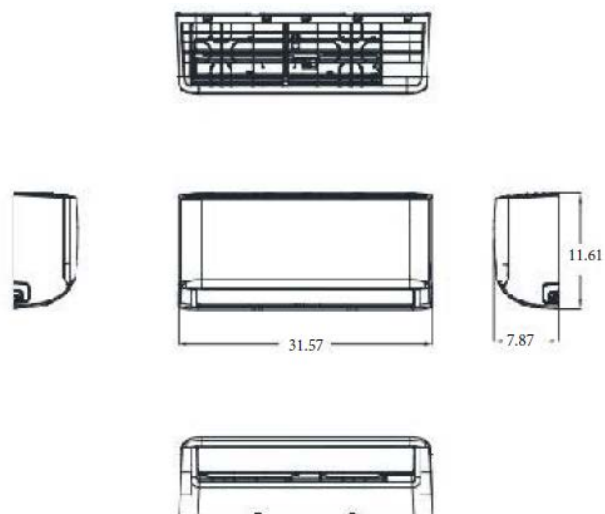
Air flow & Noise level

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

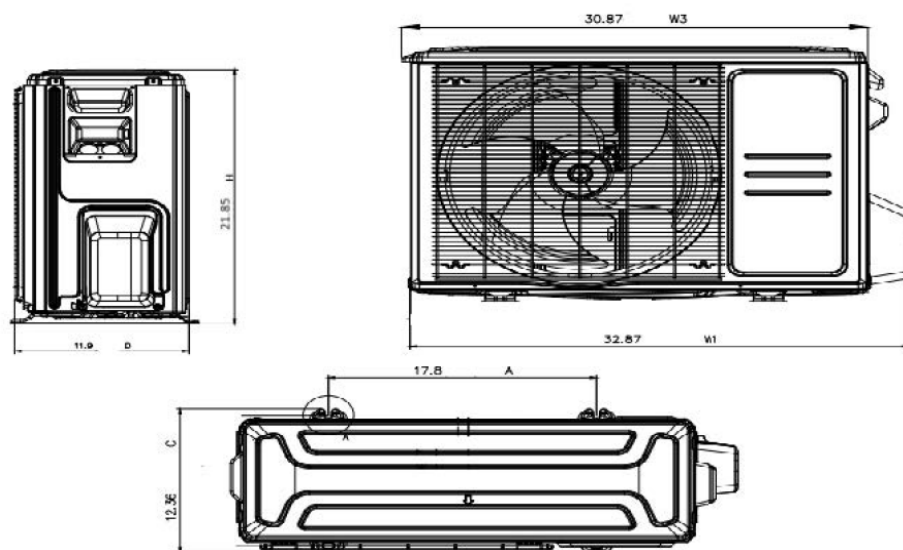
Outdoor unit

Dimension (WxDxH) (inch)	30.12x11.93x21.85
Packing (WxDxH) (inch)	34.92x13.27x24.02
Net/ Gross weight (lbs.)	62.17/67.68

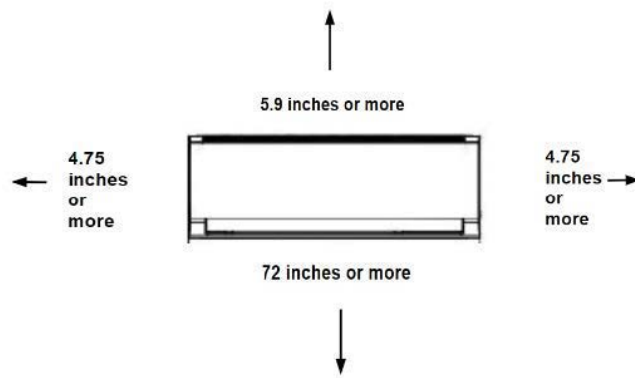
Indoor unit dimension



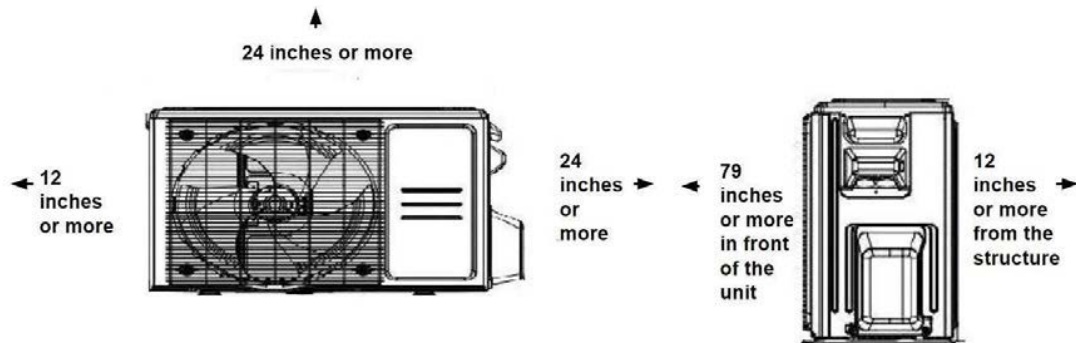
Outdoor unit dimension



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



COOLING PERFORMANCE DATA

Model	Cooling																	
	Indoor Conditions DB		5F	17F	25F	35F	47F	55F	65F	75F	80F	85F	95F	105F	110F	115F	122F	
BMX1220WM BMX1220C Wall Mounted (115V)	65F	TC	11060	11126	11346	11434	11144	11016	11040	11016	11110	11007	11008	10473	9792	9539	8766	
		Input	809	813	828	857	892	910	964	977	1039	1131	1345	1347	1381	1699	1875	
	70F	TC	11521	11674	11918	12023	11620	11633	11645	11645	11744	11489	11491	11036	10395	10105	9277	
		Input	802	809	832	850	891	905	955	988	1046	1125	1320	1353	1400	1696	1877	
	75F	TC	12001	12406	12585	12710	12168	12310	12336	12194	12310	12056	12057	11532	11046	10537	9693	
		Input	791	816	831	858	880	919	959	978	1031	1119	1313	1351	1419	1667	1879	
	80F	TC	12767	13156	13318	13450	12904	12917	12931	12944	12958	12785	12573	12050	11567	10988	10108	
		Input	802	821	839	856	891	920	953	990	1026	1256	1311	1354	1421	1648	1490	

HEATING PERFORMANCE DATA

Model	Heating													
	Indoor Conditions DB		5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F	
BMX1220WM BMX1220C Wall Mounted (115V)	60°F	TC	7494	7939	8533	9305	10119	10850	11672	12658	13607	14255	14905	
		Input	1117	1120	1124	1114	1106	1091	1093	1156	1217	1246	1298	
	65°F	TC	7248	7738	8276	9069	9824	10523	11343	12314	13198	13827	14484	
		Input	1140	1145	1156	1142	1131	1124	1122	1188	1246	1283	1325	
	70°F	TC	7010	7534	8059	8763	9510	10207	10992	11943	12876	13450	14035	
		Input	1172	1172	1185	1168	1163	1153	1152	1216	1272	1314	1358	
	75°F	TC	6708	7270	7704	8456	9092	9758	10552	11406	12297	12925	13502	
		Input	1201	1211	1221	1198	1193	1182	1191	1249	1306	1354	1393	

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 : 207826691 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 : BMX1220C

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMX1220WM

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 : 20.00

EER (A2) - Single or High Stage (95F) : 10.30

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

HSPF (Region IV) : 10.80

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 : 20.80

EER2 (A_{Full}) – Single or High Stage (95F) : 10.30

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

HSPF2 (Region IV) : 8.70

Sold in? : USA, Canada

AHRI CERTIFIED®
www.ahridirectory.org

†"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.

DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at www.ahridirectory.org.

TERMS AND CONDITIONS

This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

©2024 Air-Conditioning, Heating, and Refrigeration Institute



we make life better™

CERTIFICATE NO.:

133536257118139979