



BMKH1231 Specifications and Certifications



Models

BMKH1231/O	12000 BTU 24 SEER2 208/230V Minisplit Heat Pump Condenser
BMKH1231/I	12000 BTU 24 SEER2 208/230V Minisplit Heat Pump Air Handler
BMKH1231	12000 BTU 24 SEER2 208/230V Minisplit Heat Pump System
BMKH1231 KIT15	12000 BTU 24 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMKH1231 KIT25	12000 BTU 24 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMKH1231

12000 BTU 24 SEER2 208/230V Minisplit Heat Pump Condenser

12000 BTU 24 SEER2 208/230V Minisplit Heat Pump Air Handler

Remote Controller



Mini-Split System with Installation Kit

**BMKH1231
KIT15**

12000 BTU 24 SEER2 208/230V Minisplit Heat Pump Condenser

12000 BTU 24 SEER2 208/230V Minisplit 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



**BMKH1231
KIT25**

12000 BTU 24 SEER2 208/230V Minisplit Heat Pump Condenser

12000 BTU 24 SEER2 208/230V Minisplit 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 BMKH1231
 15 Ft Kit Model BMKH1231 KIT15
 25 Ft Kit Model BMKH1231 KIT25

Certified



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)	9.0
Max.fuse(Outdoor)	(A)	15.0
Connection wiring		14AWG*4

Cooling

Capacity	(Btu/h)	12000(2900~15354)
Power Input	(W)	784(75~1500)
Current	(A)	3.90
SEER2	(Btu/W)	24.0
EER2	(Btu/W)	14.0

Heating

Capacity	(Btu/h)	12200(3071~18766)
Power Input	(W)	940(250~1600)
Current	(A)	5
HSPF2-4	(Btu/W)	8.5

COP	W/W	3.80
Heat at 17F(AHRI Rating)	(Btu/h)	8100
Heat at 5F(AHRI Rating)	(Btu/h)	12000
COP at 5F(AHRI Rating)	W/W	1.91

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV
Refrigerant Type		R410A
Refrigerant charge	oz	49.40
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.20
Liquid side/ Gas side(indoor)	(inch)	1/4"/1/2"
Liquid side/ Gas side(outdoor)	(inch)	1/4"/1/2"
Max. pipe length	(ft)	98.0
Max. difference in level	(ft)	49.0
Connection method		Flared
Remote Control Temp Range(cooling)	(Deg. °F)	61 ~ 86
Remote Control Temp Range(heating)	(Deg. °F)	61 ~ 86
Outdoor(cooling)	(Deg. °F)	0~129
Outdoor(heating)	(Deg. °F)	-22 ~ 75

INDOOR UNIT DATA

Indoor fan motor

Model		MP35CJ、MP24HF
Qty		1
Input	(W)	--
Output	(W)	60.00
RLA	(A)	0.09

Air flow & Noise level

Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	500/471/441/353/324/265/235
Indoor noise level (Hi/Med/Lo)	[dB(A)]	49/46/43/40/37/34/22

Dehumidification

	(L/H)	1.4
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Indoor unit

Dimension (WxDxH)	(inch)	39.213×11.85×8.858
Packing(WxDxH)	(inch)	41.732×14.961×12.677
Net/Gross weight	(lbs.)	29.8/36.4

OUTDOOR UNIT DATA

Compressor

Type		ROTARY
Model		QXAT-B121zE070
Brand		GREE
Input	(W)	1070
Rated current (RLA)	(A)	6.9
Refrigerant oil/oil charge		FV50S

Outdoor fan motor

Model		QXAT-B121zE070
Qty		1
Input	(W)	/
Output	(W)	30
RLA	(A)	6.9

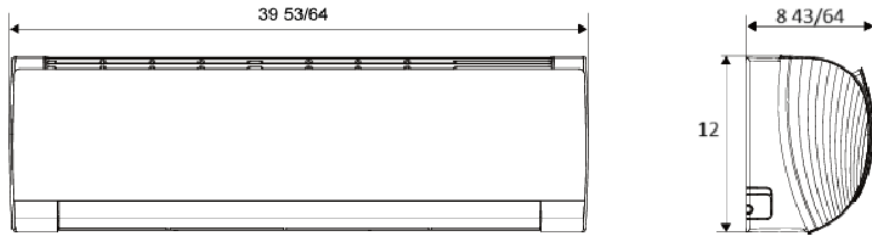
Air flow & Noise level

Outdoor noise level	[dB(A)]	53.0
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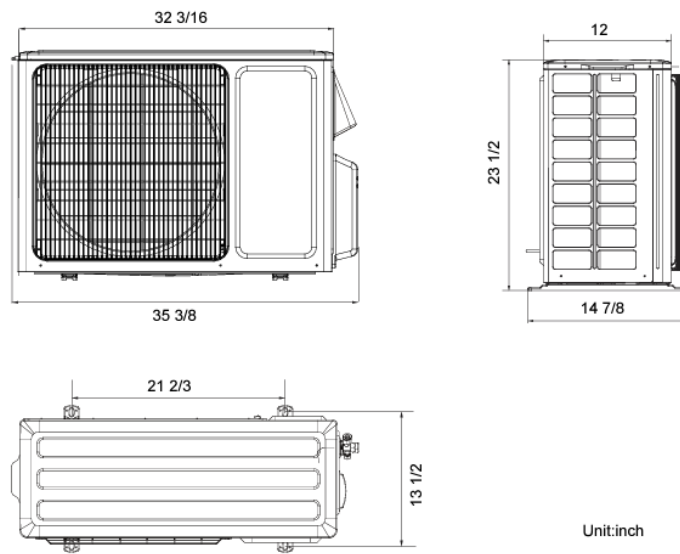
Outdoor unit

Dimension (W×D×H)	(inch)	35.394×23.465×14.882
Packing (W×D×H)	(inch)	37.323×16.535×25.394
Net/ Gross weight	(lbs.)	99.2/105.8

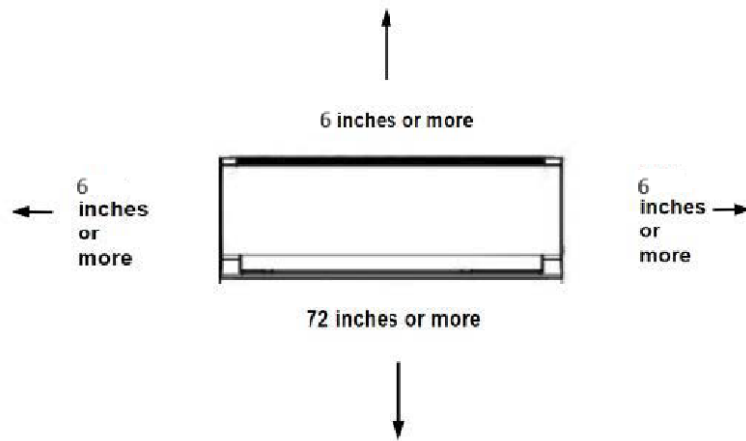
Indoor unit dimension



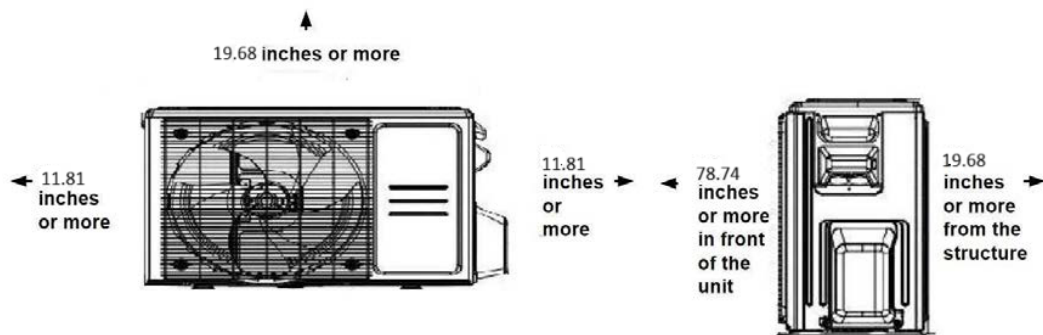
Outdoor unit dimension



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



YS Model	Cooling		Outdoor conditions (DB)																											
	Indoor Conditions DB		0°F	5°F	10°F	15°F	20°F	25°F	30°F	35°F	40°F	45°F	50°F	55°F	60°F	65°F	70°F	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°F	120°F	122°F	125°F	129°F
BMKH1231// BMKH1231/O Wall mounted (208-230V)	70F	TC	9980	10134	10364	10594	10748	10901	11285	11669	11899	12130	12514	12897	13281	13665	14279	14893	15124	15354	14893	14433	14049	13665	13435	13204	12667	12130	11746	11362
		Input	981	1002	1022	1042	1063	1083	1103	1124	1144	1164	1185	1205	1225	1245	1266	1286	1306	1327	1340	1354	1388	1421	1455	1489	1495	1500	1508	1515
	75F	TC	10594	10748	10978	11208	11362	11516	11899	12283	12514	12744	13128	13512	13895	14279	14893	15508	15738	15968	15508	15047	14663	14279	14049	13819	13281	12744	12360	11976
		Input	1033	1055	1076	1097	1119	1140	1161	1183	1204	1226	1247	1268	1290	1311	1332	1354	1375	1397	1411	1425	1461	1496	1532	1568	1603	1639	1644	1650
	80F	TC	10901	11055	11285	11516	11669	11823	12206	12590	12821	13051	13435	13819	14290	14586	15200	15815	16045	16275	15815	15354	14970	14586	14356	14126	13588	13051	12667	12283
		Input	1088	1110	1133	1155	1178	1200	1223	1245	1268	1290	1313	1335	1358	1380	1403	1425	1448	1470	1485	1500	1538	1575	1613	1650	1688	1725	1763	1780

YS Model	Heating		Outdoor conditions (DB)																						
	Indoor Conditions DB		-22°F	-20°F	-15°F	-10°F	-5°F	0°F	5°F	10°F	15°F	17°F	20°F	25°F	30°F	35°F	40°F	45°F	47°F	50°F	55°F	60°F	65°F	70°F	75°F
BMKH1231/I BMKH1231/O Wall mounted (208-230V)	70°F	TC	10321	10603	10884	11541	12198	12761	13324	14075	14356	14638	15388	15951	16233	16514	17828	18391	18766	18578	18391	18203	17828	17640	17452
		Input	1216	1229	1241	1254	1266	1292	1319	1346	1359	1373	1401	1430	1444	1459	1489	1519	1550	1558	1566	1581	1519	1511	1504
	75°F	TC	9946	10228	10509	11166	11823	12386	12949	13699	14356	15013	15576	15857	16139	17452	18015	18391	18203	18015	17828	17452	17265	17077	
		Input	1241	1253	1266	1279	1292	1318	1345	1373	1387	1401	1429	1458	1473	1488	1518	1549	1581	1589	1597	1613	1549	1541	1534
	80°F	TC	9571	9852	10134	10790	11447	12010	12573	13324	13981	14638	14638	15201	15482	15763	17077	17640	18015	17828	17640	17452	17077	16889	16702
		Input	1265	1278	1291	1304	1318	1345	1372	1400	1414	1429	1458	1487	1503	1518	1549	1580	1613	1621	1629	1645	1580	1572	1564

Updated 10/29/2024



Certificate of Product Ratings

AHRI Certified Reference Number : 205968028 Date : 10-14-2022 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 : BMKH1231/O

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMKH1231/I

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 : 30.50

EER (A2) - Single or High Stage (95F) : 15.30

Heating Capacity (H12) - Single or High Stage (47F) : 12200

HSPF (Region IV) : 14.00

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 : 24.00

EER2 (A_{Full}) – Single or High Stage (95F) : 14.00

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 12200

HSPF2 (Region IV) : 8.50

Sold in? : USA, Canada



†"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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CERTIFICATE NO.:

133102525579144936



ENERGY STAR CERTIFIED

Heat Pumps (Mini-Split)

: BMKH1231/O

Specifications

ENERGY STAR Unique ID:	2415101
Outdoor Unit Brand Name:	BLUERIDGE
Series Name:	Saphire
Outdoor Unit Model Number:	BMKH1231/O
Indoor Unit Model Number:	BMKH1231/I
Indoor Unit Brand Name:	BLUERIDGE
SEER2 (Btu/Wh):	24.0
Product Type:	HP - Mini or Multi Split
EER2 (Btu/Wh):	14.0
HSPF2 (Btu/Wh):	8.5
COP at 5°F:	1.91
Cooling Capacity (Btu/h):	12000
Heating Capacity at 47°F (Btu/h):	12200
Heating Capacity at 5°F (Btu/h):	12000
Cold Climate:	Yes
Connected Capable:	No
Meets Peak Cooling Requirements:	No
Tax Credit Eligible:	No
Refrigerant with GWP:	R-410A (GWP:2088)
ENERGY STAR Most Efficient:	No

Captured On:
04/01/2024