



BMKH1824 Specifications and Certifications



Models

BMKH1824/O	18000 BTU 22 SEER2 208/230V Minisplit Heat Pump Condenser
BMKH1824/I	18000 BTU 22 SEER2 208/230V Minisplit Heat Pump Air Handler
BMKH1824	18000 BTU 22 SEER2 208/230V Minisplit Heat Pump System
BMKH1824 KIT15	18000 BTU 22 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMKH1824 KIT25	18000 BTU 22 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMKH1824

18000 BTU 22 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 22 SEER2 208/230V Minisplit Heat Pump Air Handler

Remote Controller



Mini-Split System with Installation Kit

**BMKH1824
KIT15**

18000 BTU 22 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 22 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



**BMKH1824
KIT25**

18000 BTU 22 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 22 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 BMKH1824
 15 Ft Kit Model BMKH1824 KIT15
 25 Ft Kit Model BMKH1824 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)	22.0
Max. fuse (Outdoor)	(A)	30.0
Connection wiring		14AWG*4
Cooling		
Capacity	(Btu/h)	18000(4094~21836)
Power Input	(W)	1330(350~2500)
Current	(A)	5.7
SEER2	(Btu/W)	22.0
EER2	(Btu/W)	13.5
Heating		
Capacity	(Btu/h)	18000(4094~24566)
Power Input	(W)	1500(350~2500)
Current	(A)	6.2
HSPF2-4	(Btu/W)	10.0
COP	W/W	3.52
Heat at 17F(AHRI Rating)	(Btu/h)	15000
Heat at 5F(AHRI Rating)	(Btu/h)	20000
COP at 5F(AHRI Rating)	W/W	1.80

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV
Refrigerant Type		R410A
Refrigerant charge	oz	70.60
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.50
Liquid side/ Gas side(indoor)	(inch)	1/4"/5/8"
Liquid side/ Gas side(outdoor)	(inch)	1/4"/5/8"
Max. pipe length	(ft)	131.0
Max. difference in level	(ft)	66.0
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

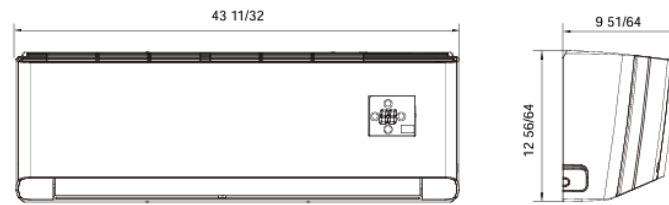
INDOOR UNIT DATA

Indoor fan motor		
Model		MP35CP、MP24HF
Qty		1
Input	(W)	--
Output	(W)	60.0
RLA	(A)	0.24
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	736/677/618/559/500/459/353
Indoor noise level (Hi/Med/Lo)	[dB(A)]	51/48/45/42/39/36/34
Dehumidification	(L/H)	1.8
Indoor unit		
Dimension (WxDxH)	(inch)	43.346×12.874×9.803
Packing(WxDxH)	(inch)	45.945×15.945×13.937
Net/Gross weight	(lbs.)	36.4/44.1

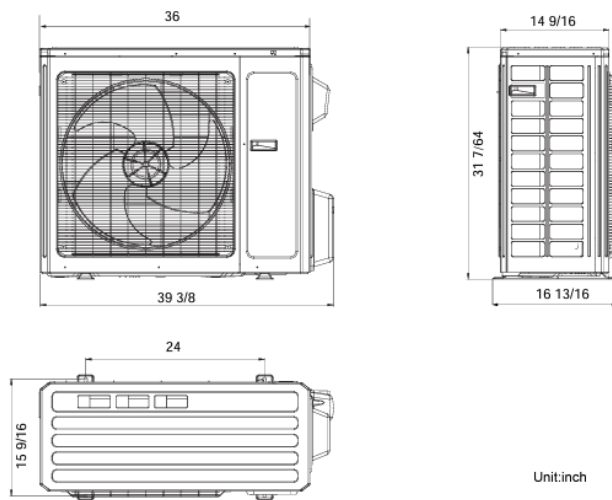
OUTDOOR UNIT DATA

Compressor		
Type		ROTARY
Model		QXAT-D20zF030
Brand		GREE
Input	(W)	2443
Rated current (RLA)	(A)	15.5
Refrigerant oil		RB68EP
Outdoor fan motor		
Model		ZKFN-80-8-3
Qty		1
Input	(W)	/
Output	(W)	90
RLA	(A)	0.65
Air flow & Noise level		
Outdoor noise level	[dB(A)]	59.0
Outdoor unit		
Dimension (W×D×H)	(inch)	38.583×31.102×16.811
Packing (W×D×H)	(inch)	42.638×19.213×33.661
Net/ Gross weight	(lbs.)	141.1/152.1

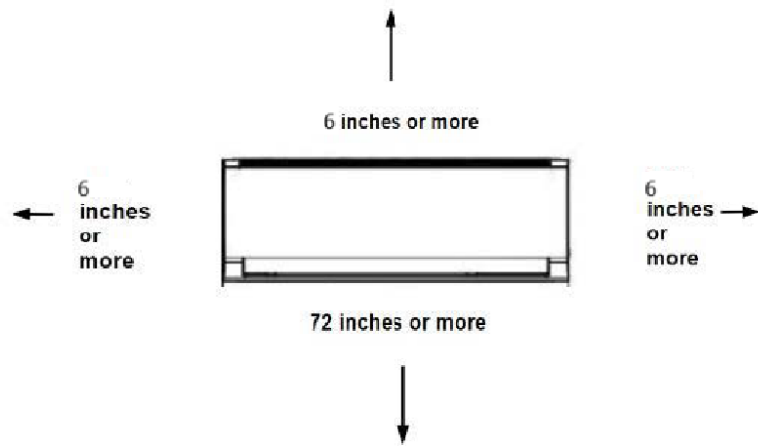
Indoor unit dimension



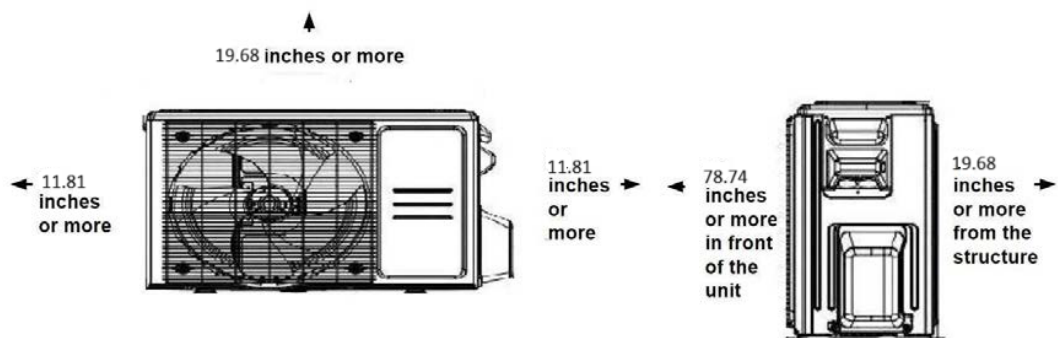
Outdoor unit dimension



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



COOLING PERFORMANCE DATA

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
BMKH1824/I BMKH1824/O Wall mounted (208-230V)	70°F	TC	12091	12465	12850	13248	13657	14080	14515	14964	15427	15904	16396	16903	17426	18941	19328	19722	21913	21484	21062	20650	20133	19831	19634	18063	17341	14046	13484	11461
		Input	1198	1222	1247	1273	1299	1325	1352	1380	1408	1437	1466	1496	1527	1641	1658	1675	1840	1859	1878	1897	1925	1983	2046	2148	2180	1853	1890	1739
	75°F	TC	12465	12850	13248	13657	14080	14515	14964	15427	15904	16396	16903	17426	17965	19527	19925	20332	22591	22148	21714	21288	20756	20445	20241	18622	17877	14480	13901	11816
		Input	1222	1247	1273	1299	1325	1352	1380	1408	1437	1466	1496	1527	1558	1675	1692	1709	1878	1897	1916	1936	1965	2023	2087	2192	2225	1891	1929	1774
	80°F	TC	12784	13180	13587	14008	14441	14887	15348	15822	16312	16816	17336	17873	18425	20028	20436	20853	23170	22716	22271	21834	21288	20969	20760	19099	18335	14852	14257	12119
		Input	1247	1273	1299	1325	1352	1380	1408	1437	1466	1496	1527	1558	1590	1709	1726	1744	1916	1936	1955	1975	2005	2065	2130	2237	2270	1930	1968	1811

HEATING PERFORMANCE DATA

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
BMKH1824/I BMKH1824/O Wall mounted (208-230V)	70°F	TC	13346	14506	15768	17139	18429	19605	20637	20900	21345	21790	22234	22347	22459	23114	23829	24566	24934	19948
		Input	2206	2346	2496	2656	2795	2942	3065	3018	2988	2959	2915	2851	2795	2739	2066	2087	2108	1644
	75°F	TC	13012	14144	15374	16710	17968	19115	20121	20378	20811	21245	21679	21788	21898	22536	23233	23952	24311	19449
		Input	2250	2393	2546	2709	2851	3001	3126	3079	3048	3018	2973	2908	2851	2794	2107	2129	2150	1677
	80°F	TC	12622	13719	14912	16209	17429	18542	19517	19767	20187	20608	21028	21134	21241	21860	22536	23233	23582	18865
		Input	2295	2441	2597	2763	2908	3061	3189	3140	3109	3078	3033	2966	2908	2850	2150	2171	2193	1711

LEGEND
DB --- Dry Bulb
TC --- Total Net Capacity
Input --- Total Power



Certificate of Product Ratings

AHRI Certified Reference Number : 205968029 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 : BMKH1824/O

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMKH1824/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 : 18000

SEER : 24.50

EER (A2) - Single or High Stage (95F) : 13.50

Heating Capacity (H12) - Single or High Stage (47F) : 18000

HSPF (Region IV) : 12.00

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 : 18000

SEER2 : 22.00

EER2 (A_{Full}) – Single or High Stage (95F) : 13.50

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 18000

HSPF2 (Region IV) : 10.00

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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CERTIFICATE NO.:

133102526792332176



ENERGY STAR CERTIFIED

Heat Pumps (Mini-Split)

: BMKH1824/O

Specifications

ENERGY STAR Unique ID:	2415098
Outdoor Unit Brand Name:	BLUERIDGE
Series Name:	Saphire
Outdoor Unit Model Number:	BMKH1824/O
Indoor Unit Model Number:	BMKH1824/I
Indoor Unit Brand Name:	BLUERIDGE
SEER2 (Btu/Wh):	22.0
Product Type:	HP - Mini or Multi Split
EER2 (Btu/Wh):	13.5
HSPF2 (Btu/Wh):	10.0
COP at 5°F:	1.8
Cooling Capacity (Btu/h):	18000
Heating Capacity at 47°F (Btu/h):	18000
Heating Capacity at 5°F (Btu/h):	20000
Cold Climate:	Yes
Connected Capable:	No
Meets Peak Cooling Requirements:	No
Tax Credit Eligible:	Yes
Refrigerant with GWP:	R-410A (GWP:2088)
ENERGY STAR Most Efficient:	Yes

Captured On:
04/01/2024