



BMY16HH20LW Specifications and Certifications



Models

BMY18HH22C	18000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump Condenser
BMM16LW	16000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY16HH20LW	16000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump System
BMY16HH20LW KIT15	16000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY16HH20LW KIT25	16000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMY16HH20LW

18000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump Air Handler

Remote Controller



Mini-Split System with Installation Kit

**BMY16HH20LW
KIT15**

16000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump Condenser

16000 BTU 20.2 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

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

Remote Controller



**BMY16HH20LW
KIT25**

16000 BTU 20.2 SEER2 208/230V Minisplit Heat Pump Condenser

16000 BTU 20.2 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

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

Remote Controller



SUBMITTAL DATA SHEET



BMM16LW/BMY18HH22C

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

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

Set Model

15 ft Kit
 25 ft kit

BMY16HH20LW
 BMY16HH20LW KIT15
 BMY16HH20LW 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) 20.0
 Max.fuse(Outdoor) (A) 25.0
 Connection wiring

Cooling

Capacity (Btu/h) 16000(7800~16400)
 Power Input (W) 1456(340~1774)
 Current (A) 6.66(2.55~7.85)
 SEER2 (Btu/W) 20.2
 EER2 (Btu/W) 11.0

Heating

Capacity (Btu/h) 17000(8600~21800)
 Power Input (W) 1779(590~2063)
 Current (A) 8.0(3.95~9.05)
 HSPF2-4 (Btu/W) 8.9

COP W/W 2.80
 Heat at 17F(H32) (Btu/h) 14700
 Heat at 5F(H42) (Btu/h) 16700
 COP at 5F(H42) W/W 1.76

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	65.26
Refrigerant precharge	(ft)	
	(m)	
Additional charge for each ft	(oz/ft)	0.16
Additional charge for each m	(g/m)	15.0
Liquid side/ Gas side(Indoor)	(inch)	1/4"/1/2"
Liquid side/ Gas side(outdoor)	(inch)	1/4"/1/2"
Max. pipe length	(ft)	98.4
Max. difference in level	(ft)	65.6
Connection method		Flared
Indoor(cooling)	(Deg. °F)	60~90
Indoor(heating)	(Deg. °F)	32~86
Outdoor(cooling)	(Deg. °F)	-22~122
Outdoor(heating)	(Deg. °F)	-22~75

INDOOR UNIT DATA

Indoor fan motor

Model	ZKFP-13-8-136+ZKFP-13-8-104
Qty	1+1
Input (W)	/
Output (W)	13.0
RLA (A)	1.03
Speed(Hi/Mi/Lo) (r/min)	1100/1000/900

Air flow & Noise level

Indoor air flow (Hi/Med/Lo) (No duct) (CFM)	500.00/441.18/382.35/323.53
Indoor noise level (Hi/Med/Lo) [dB(A)]	45/40.5/30

Dehumidification

(L/H)	2.05
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Indoor unit

Dimension (WxDxH) (inch)	31.26x7.87x24.45
Packing(WxDxH) (inch) <td>34.06x11.02x28.31</td>	34.06x11.02x28.31
Net/Gross weight (lbs.) <td>32.85/41.45</td>	32.85/41.45

OUTDOOR UNIT DATA

Compressor

Type	Twin-ROTARY
Model <td>KTM240D43UKT</td>	KTM240D43UKT
Brand <td>GMCC</td>	GMCC
Capacity (Btu/h) <td>25931</td>	25931
Input (W) <td>2045</td>	2045
Rated current (RLA) (A) <td>14.3</td>	14.3
Refrigerant oil/oil charge (ml) <td>ESTER OIL VG74 620</td>	ESTER OIL VG74 620

Outdoor fan motor

Model	ZKFN-80-8-3
Qty	1
Input (W)	/
Output (W)	80.00
RLA (A)	0.76
Speed (r/min)	810/720

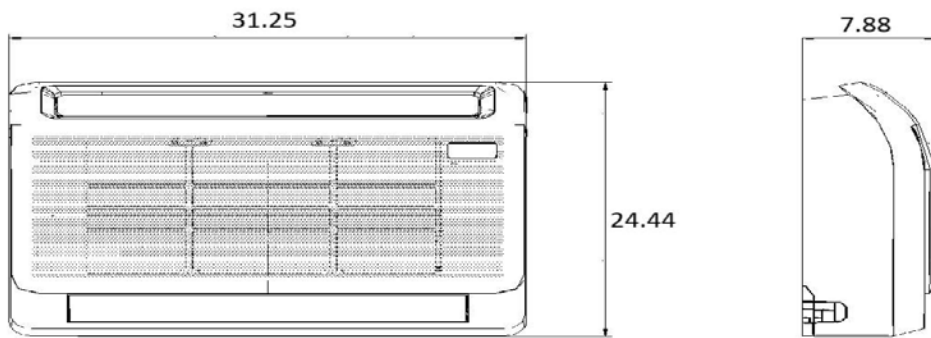
Air flow & Noise level

Outdoor air flow (Max.) (CFM)	1764.7
Outdoor noise level [dB(A)]	58.0

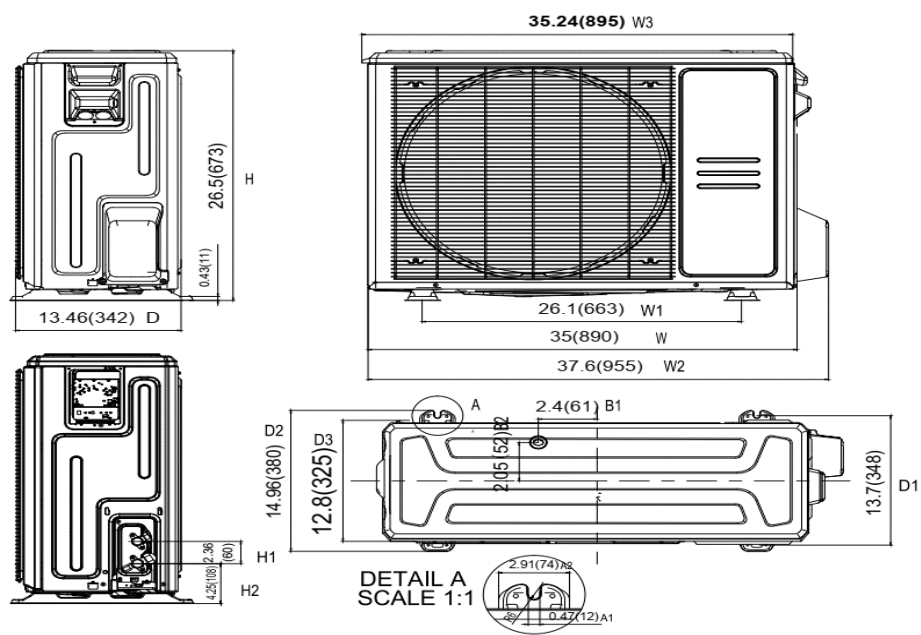
Outdoor unit

Dimension (W×D×H) (inch)	35.04x13.46x26.50
Packing (W×D×H) (inch) <th>39.17x15.67x29.13</th>	39.17x15.67x29.13
Net/ Gross weight (lbs.) <th>100.97/108.03</th>	100.97/108.03

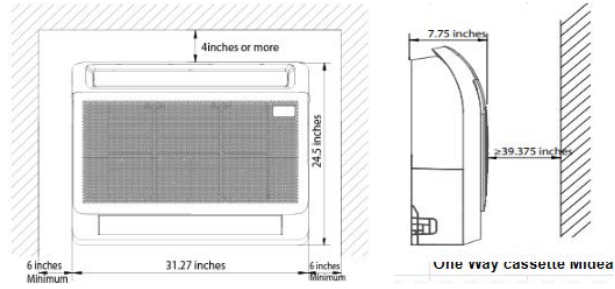
Indoor Unit Dimensions (Inches)



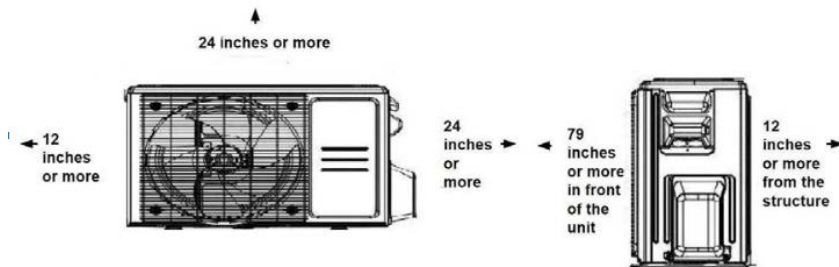
Outdoor Unit Dimensions (Inches)



Indoor Unit Clearance (Inches)



Outdoor Unit Clearance (Inches)



COOLING PERFORMANCE DATA

YS Model	Cooling		Outdoor conditions (DB)																		
	Indoor		-22F	-13F	-4F	0F	5F	17F	25F	35F	47F	55F	65F	75F	80F	85F	95F	105F	110F	115F	122F
	DB																				
BMM16LW BMY18HH22C (208-230V)	65F	TC	14481	15310	16568	16874	17112	17692	17062	16663	16192	15925	16015	15836	15778	15978	16181	14745	14358	13360	12252
		Input	539	591	661	671	709	742	780	857	876	946	1043	1092	1224	1449	1808	1751	1810	1856	1971
	70F	TC	15147	16167	17404	17894	18108	18545	17960	17614	17080	16798	16983	16723	16608	16926	16873	15653	15226	14198	12966
		Input	531	593	655	681	719	743	786	858	878	945	1046	1104	1229	1469	1774	1764	1821	1878	1967
	75F	TC	15828	17145	18339	18659	19203	19645	18787	18386	17979	17795	17953	17734	17446	17668	17594	16652	15877	15024	13677
		Input	531	601	662	678	717	747	774	849	869	941	1039	1119	1215	1443	1773	1794	1820	1902	1983
	80F	TC	16643	17896	19243	19724	20256	20549	19944	19314	18926	18830	18740	18647	18560	18482	18404	17658	16747	15716	14276
		Input	533	598	658	686	715	738	783	844	878	944	1023	1118	1235	1659	1775	1800	1810	1904	1961

HEATING PERFORMANCE DATA

YS Model	Heating		Outdoor conditions (DB)														
	Indoor Conditions DB		-22°F	-13°F	-4°F	0°F	5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F
BMM16LW BMY18HH22C (208-230V)	60°F	TC	14615	16270	18113	18906	19784	20400	21218	21266	21171	21137	21435	21434	21497	21923	22268
		Input	3235	3143	3006	2937	2877	2949	3034	2940	2876	2791	2695	2313	2018	1964	1917
	65°F	TC	14258	15781	17654	18320	19115	19902	20580	20586	20635	20521	20711	20709	20770	21181	21683
		Input	3318	3231	3089	3006	2939	3019	3122	3025	2949	2848	2767	2360	2069	2012	1976
	70°F	TC	13843	15381	17090	17855	18576	19229	19922	19948	19976	20001	20030	20047	20068	20525	21071
		Input	3407	3320	3162	3096	3012	3109	3212	3112	3022	2930	2850	2411	2122	2073	2016
	75°F	TC	13261	14797	16389	17123	17908	18498	19205	19110	19197	19201	19188	19145	19346	19786	20334
		Input	3523	3403	3260	3180	3114	3208	3321	3215	3119	3021	2944	2486	2190	2126	2083

LEGEND
DB --- Dry Bulb
TC --- Total Net Capacity (1000 Btu/hour)
Input --- Total Power (kW)

Certificate of Product Ratings

AHRI Certified Reference Number : 209550312 Date : 10-03-2022 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 : BMY18HH22C

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMM16LW

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 : 16000

SEER : 20.00

EER (A2) - Single or High Stage (95F) : 11.00

Heating Capacity (H12) - Single or High Stage (47F) : 17000

HSPF (Region IV) : 9.70

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 : 16000

SEER2 : 20.20

EER2 (A_{Full}) – Single or High Stage (95F) : 11.00

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 17000

HSPF2 (Region IV) : 8.90

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.:

133092737894308938



ENERGY STAR CERTIFIED

Heat Pumps (Mini-Split)

: BMY18HH22C

Specifications

ENERGY STAR Unique ID:	2448787
Outdoor Unit Brand Name:	BLUERIDGE
Series Name:	BM series
Outdoor Unit Model Number:	BMY18HH22C
Indoor Unit Model Number:	BMM16LW
Indoor Unit Brand Name:	BLUERIDGE
SEER2 (Btu/Wh):	20.2
Product Type:	HP - Mini or Multi Split
EER2 (Btu/Wh):	11.0
HSPF2 (Btu/Wh):	8.9
COP at 5°F:	1.76
Cooling Capacity (Btu/h):	16000
Heating Capacity at 47°F (Btu/h):	17000
Heating Capacity at 5°F (Btu/h):	16700
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