



# BMY18HH22 Specifications and Certifications



## Models



BMY18HH22C	18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser
BMY18HH22WM	18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY18HH22	18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump System
BMY18HH22 KIT15	18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY18HH22 KIT25	18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

# What's in the Box

## Mini-Split System

### BMY18HH22

18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Air Handler

Remote Controller



## Mini-Split System with Installation Kit

### BMY18HH22 KIT15

18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 21.5 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



### BMY18HH22 KIT25

18000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 21.5 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 15 Ft Kit Model 25 Ft Kit Model	BMY18HH22 BMY18HH22 KIT15 BMY18HH22 KIT25
<b>Certified</b>	  



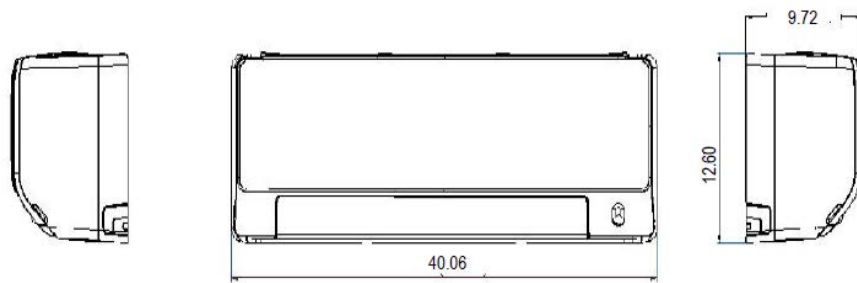
SYSTEM PERFORMANCE DATA			
<b>Power supply</b>			
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz	
Voltage Range	(V)	187-253	
<b>Electrical</b>			
Minimum circuit ampacity(Outdoor)	(A)	20.0	
Max.fuse(Outdoor)	(A)	25.0	
Connection wiring		14AWG*4	
<b>Cooling</b>			
Capacity	(Btu/h)	18000(8870~19400)	
Power Input	(W)	1440(230~1260)	
Current	(A)	6.3(2.5~5.5)	
SEER2	(Btu/W)	21.5	
EER2	(Btu/W)	12.5	
<b>Heating</b>			
Capacity	(Btu/h)	18000(15100~19500)	
Power Input	(W)	1700(1390~2050)	
Current	(A)	7.3(5.3~9.0)	
HSPF2-4	(Btu/W)	11.3	
COP	W/W	3.10	
Heat at 17F(AHRI Rating)	(Btu/h)	15000	
Heat at 5F(AHRI Rating)	(Btu/h)		
COP at 5F(AHRI Rating)	W/W		

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)	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)	98.4	
Max. difference in level	(ft)	65.6	
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)	-22~122	
Outdoor(heating)	(Deg. °F)	-22~75	

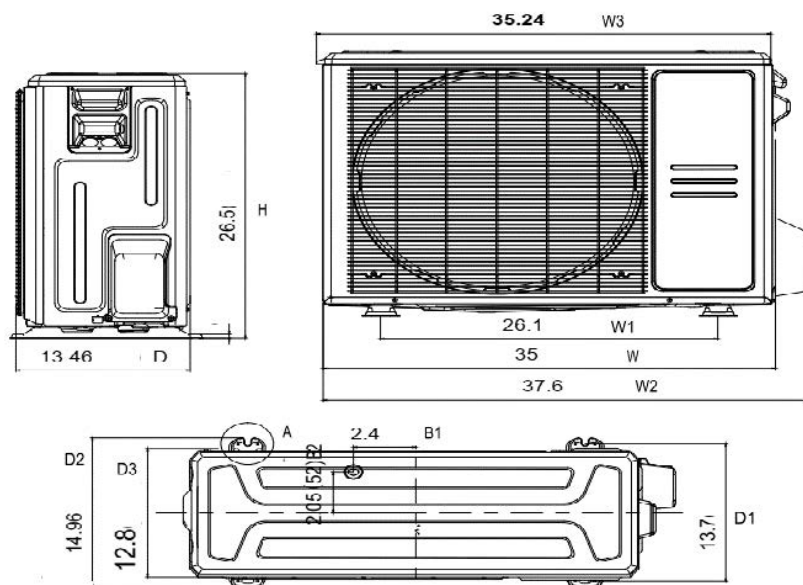
INDOOR UNIT DATA			
<b>Indoor fan motor</b>			
Model		ZKFP-30-8-3-10	
Qty		1	
Input	(W)	36.00	
Output	(W)	30.0	
RLA	(A)	0.4	
<b>Air flow &amp; Noise level</b>			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	635.29/523.53/376.47/305.88	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	46/42/24	
Dehumidification	(L/H)	2.16	
<b>Indoor unit</b>			
Dimension (WxDxH)	(inch)	40.06x9.72x12.60	
Packing(WxDxH)	(inch)	43.11x12.80x15.75	
Net/Gross weight	(lbs.)	27.12/35.71	

OUTDOOR UNIT DATA			
<b>Compressor</b>			
Type		Twin-ROTARY	
Model		KTM240D43UKT	
Brand		GMCC	
Capacity	(Btu/h)	25931	
Input	(W)	2045	
Rated current (RLA)	(A)	14.25	
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 620	
<b>Outdoor fan motor</b>			
Model		ZKFN-80-8-3	
Qty		1	
Input	(W)	/	
Output	(W)	80	
RLA	(A)	0.8	
Speed	(r/min)	810/720	
<b>Air flow &amp; Noise level</b>			
Outdoor air flow (Max.)	(CFM)	1765	
Outdoor noise level	[dB(A)]	59.0	
<b>Outdoor unit</b>			
Dimension (WxDxH)	(inch)	35.04x13.46x26.50	
Packing (WxDxH)	(inch)	39.17x15.67x29.13	
Net/ Gross weight	(lbs.)	100.97/108.03	

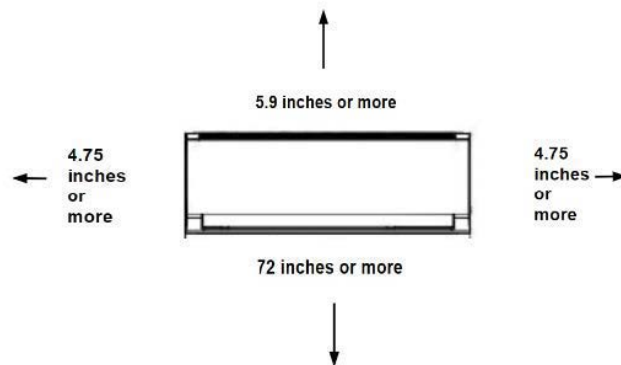
# Indoor unit dimension



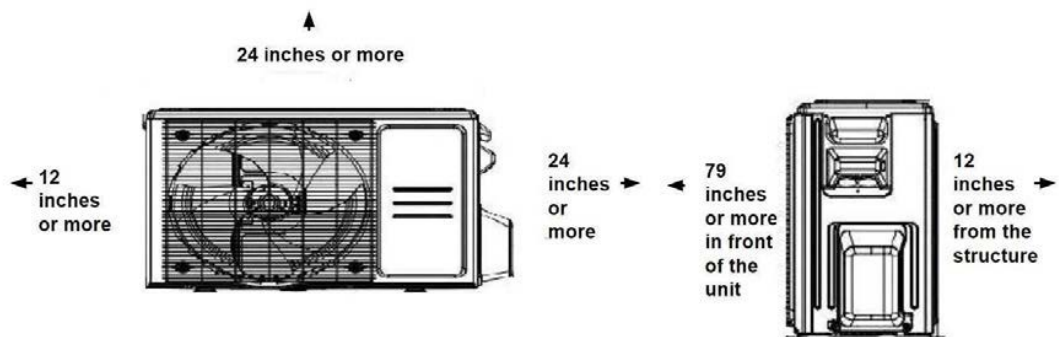
# Outdoor unit dimension



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



**COOLING PERFORMANCE DATA**

YS Model	Cooling		Outdoor conditions (DB)																		
	Indoor	DB	-22°F	-13°F	-4°F	0°F	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
BMY18HH22WM BMY18HH22C Wall mounted (208-230V)	65°F	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
	70°F	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
	75°F	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
	80°F	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	F	32°F	5°F	40°F	47°F	50°F	57°F
BMY18HH22WM BMY18HH22C Wall mounted (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 : 207339185    Date : 03-13-2024    Model Status : Active  
 AHRI Type : HRCU-A-CB-O (Mini-Split Heat Pump, with Remote Outdoor Unit Air-Source, Free Delivery)  
 Series Name : BM series  
 Outdoor Unit Brand Name : BLUERIDGE  
 Outdoor Unit Model Number : BMY18HH22C  
 Indoor Type : Mini-Splits (Non-Ducted)  
 Indoor Model Number(s) : BMY18HH22WM

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 : 21.50  
 EER (A2) - Single or High Stage (95F) : 12.50  
 Heating Capacity (H12) - Single or High Stage (47F) : 18000  
 HSPF (Region IV) : 13.00

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<sub>Full</sub>) – Single or High Stage (95F), btuh : 18000  
 SEER2 : 21.50  
 EER2 (A<sub>Full</sub>) – Single or High Stage (95F) : 12.50  
 Heating Capacity (H1<sub>Full</sub>) – Single or High Stage (47F), btuh : 18000  
 HSPF2 (Region IV) : 11.30

Sold in? : USA, Canada

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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.AHRInet.org](http://www.AHRInet.org) for more information about updated energy efficiency metrics.

\*This refers to the federal tax credit that may be known to consumers as "Inflation Reduction Act (IRA) of 2022 Tax Credit," "25C Tax Credit," or "Energy Efficient Home Improvement Credit." This is not intended to constitute tax or legal advice. Instead, it is for general informational purposes only. AHRI makes no representation or warranty, express or implied or assumes any legal liability or responsibility for the accuracy, completeness, any third party's use of, or the results of the use of potential eligibility for tax credit disclosed on the AHRI Directory of Certified Product Performance and AHRI Certificate of Product Ratings. Potential eligibility for tax credit may not constitute the most up to date information. AHRI is unable to advise or confirm tax credit eligibility. Individuals considering eligibility for the tax credit are advised to confirm eligibility with their equipment installers, tax attorneys or preparers.

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**CERTIFICATE NO.:**

133548359781799418



ENERGY STAR CERTIFIED

## Heat Pumps (Mini-Split)

: BMY18HH22C

### Specifications

ENERGY STAR Unique ID:	2449020
Outdoor Unit Brand Name:	BLUERIDGE
Series Name:	BM series
Outdoor Unit Model Number:	BMY18HH22C
Indoor Unit Model Number:	BMY18HH22WM
Indoor Unit Brand Name:	BLUERIDGE
SEER2 (Btu/Wh):	21.5
Product Type:	HP - Mini or Multi Split
EER2 (Btu/Wh):	12.5
HSPF2 (Btu/Wh):	11.3
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):	18000
Cold Climate:	Yes
Connected Capable:	No
Meets Peak Cooling Requirements:	Yes
Tax Credit Eligible:	Yes
Refrigerant with GWP:	R-410A (GWP:2088)
ENERGY STAR Most Efficient:	No

Captured On:  
04/10/2023