



# BMY24HH22 Specifications and Certifications



## Models



BMY24HH22C	24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser
BMY24HH22WM	24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY24HH22	24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump System
BMY24HH22 KIT15	24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY24HH22 KIT25	24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

# What's in the Box

## Mini-Split System

### BMY24HH22

24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser
24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Air Handler
Remote Controller



## Mini-Split System with Installation Kit

### BMY24HH22 KIT15

24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser
24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Air Handler
15 Foot 3/8 LL 5/8 SL Ductless Mini-Split Line Set
25 Foot Stranded Ductless Mini-Split Communication Wire
3.5" 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



### BMY24HH22 KIT25

24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Condenser
24000 BTU 21.5 SEER2 208/230V Minisplit Heat Pump Air Handler
25 Foot 3/8 LL 5/8 SL Ductless Mini-Split Line Set
35 Foot Stranded Ductless Mini-Split Communication Wire
3.5" 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                      BMY24HH22  
15 Ft Kit Model              BMY24HH22 KIT15  
25 Ft Kit Model              BMY24HH22 KIT25

#### Certified



### 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)	25.0
Max.fuse(Outdoor)	(A)	35.0
Connection wiring		14AWG*4
<b>Cooling</b>		
Capacity	(Btu/h)	24000(6850~27000)
Power Input	(W)	1845(310~2400)
Current	(A)	8.1(2.12~11)
SEER2	(Btu/W)	21.5
EER2	(Btu/W)	13.0
<b>Heating</b>		
Capacity	(Btu/h)	29000(11600~33000)
Power Input	(W)	2500(670~3000)
Current	(A)	10.9(4.32~13)
HSPF2-4	(Btu/W)	11.4
COP	W/W	3.40
Heat at 17F(AHRI Rating)	(Btu/h)	21200
Heat at 5F(AHRI Rating)	(Btu/h)	25000
COP at 5F(AHRI Rating)	W/W	2.21

### REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV+Throttle valve
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	91.71
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.32
Liquid side/ Gas side(indoor)	(inch)	3/8"/5/8"
Liquid side/ Gas side(outdoor)	(inch)	3/8"/5/8"
Max. pipe length	(ft)	164.0
Max. difference in level	(ft)	82.0
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

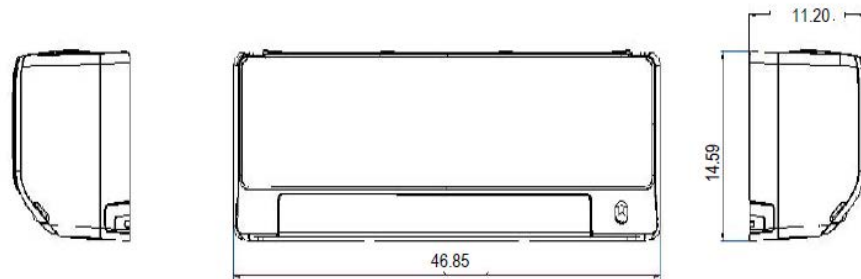
### INDOOR UNIT DATA

<b>Indoor fan motor</b>		
Model		ZKFP-58-8-1-6
Qty		1
Input	(W)	58.00
Output	(W)	58.0
RLA	(A)	0.5
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	718.82/611.18/414.12/318.82
Indoor noise level (Hi/Med/Lo)	[dB(A)]	46/39/34
<b>Dehumidification</b>		
	(L/H)	2.6
<b>Indoor unit</b>		
Dimension (WxDxH)	(inch)	46.85x11.20x14.59
Packing(WxDxH)	(inch)	50.39x14.17x17.91
Net/Gross weight	(lbs.)	43.65/54.89

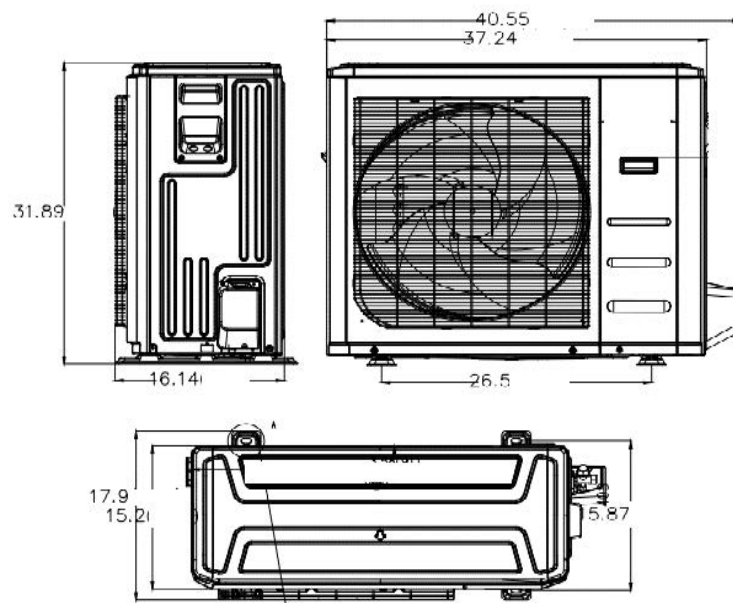
### OUTDOOR UNIT DATA

<b>Compressor</b>		
Type		Twin-ROTARY
Model		KTM240D43UKT
Brand		GMCC
Capacity	(Btu/h)	25931
Input	(W)	2045
Rated current (RLA)	(A)	17.1
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 620
<b>Outdoor fan motor</b>		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	150.0
Output	(W)	120
RLA	(A)	0.5
Speed	(r/min)	950/800/500
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	2235
Outdoor noise level	[dB(A)]	62.0
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	37.24x16.14x31.89
Packing (WxDxH)	(inch)	42.91x19.69x34.84
Net/ Gross weight	(lbs.)	134.48/144.40

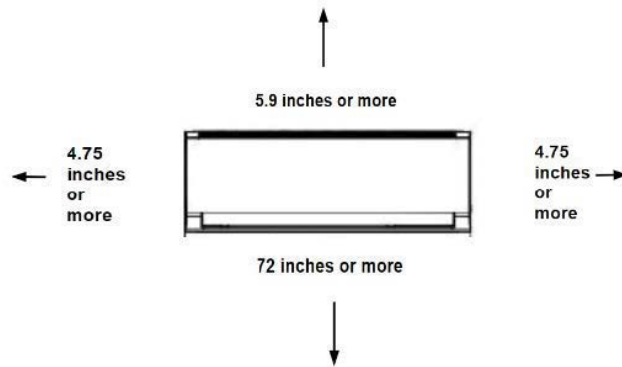
#### Indoor unit dimension



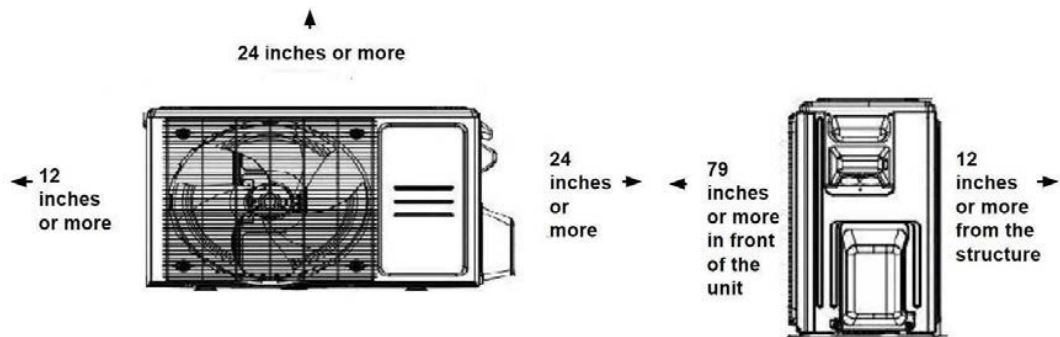
#### Outdoor unit dimension



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																				
BMY24HH22WM BMY24HH22C Wall mounted (208-230V)	65F	TC	18575	19906	20910	21240	21554	22448	23447	24174	25826	25703	25961	25644	25307	24517	23116	22530	21334	20458	19352
		Input	932	1032	1131	1226	1304	1375	1468	1549	1798	1867	1943	1996	2069	2194	2418	2505	2608	3008	3426
	70F	TC	19349	20736	21781	22241	22906	23655	24551	25608	27301	27228	27501	26796	26668	25672	24154	23567	22504	21694	20522
		Input	912	1018	1114	1218	1306	1375	1465	1542	1798	1869	1943	1969	2067	2194	2410	2508	2635	2998	3463
	75F	TC	20454	21667	22784	23289	23985	24821	26091	26787	28889	28541	28887	28356	28370	26910	25696	24808	23789	22788	21534
		Input	921	1007	1118	1213	1291	1381	1468	1521	1823	1861	1933	1981	2067	2164	2431	2497	2641	2983	3437
	80F	TC	21621	23002	24212	24696	25221	26350	27235	28020	30283	30202	30122	30038	29958	28537	26935	25868	24780	23738	22502
		Input	917	1026	1135	1217	1298	1386	1456	1520	1809	1861	1921	1985	2054	2287	2400	2492	2589	2976	3387

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
BMY24HH22WM BMY24HH22C Wall mounted (208-230V)	60°F	TC	17367	21046	23986	25228	26970	27359	27273	27384	27466	27736	28008	28904	29907	30186	30984
		Input	3307	3557	3551	3695	3937	3666	3457	3461	3487	3505	3491	3075	2760	2734	2706
	65°F	TC	16894	20334	23197	24588	26261	26433	26479	26638	26770	27007	27113	28117	29092	29449	30023
		Input	3409	3634	3638	3794	4033	3749	3549	3561	3561	3587	3596	3137	2825	2807	2761
	70°F	TC	16418	19780	22478	23803	25422	25539	25683	25862	26041	26221	26375	27351	28327	28731	29177
		Input	3486	3712	3728	3907	4124	3829	3622	3638	3653	3668	3680	3215	2906	2864	2835
	75°F	TC	15810	18989	21691	22970	24533	24416	24552	24699	24947	25119	25320	26284	27223	27438	28069
		Input	3587	3823	3836	4036	4252	3948	3712	3732	3748	3796	3783	3317	2982	2939	2911

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



# Certificate of Product Ratings

AHRI Certified Reference Number : 207339186    Date : 08-29-2022    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 : BMY24HH22C

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMY24HH22WM

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 : 24000

SEER : 21.50

EER (A2) - Single or High Stage (95F) : 13.00

Heating Capacity (H12) - Single or High Stage (47F) : 29000

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<sub>Full</sub>) – Single or High Stage (95F), btuh : 24000

SEER2 : 21.50

EER2 (A<sub>Full</sub>) – Single or High Stage (95F) : 13.00

Heating Capacity (H1<sub>Full</sub>) – Single or High Stage (47F), btuh : 29000

HSPF2 (Region IV) : 11.40

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

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**CERTIFICATE NO.:**

133062584681432311



ENERGY STAR CERTIFIED

## Heat Pumps (Mini-Split)

: BMY24HH22C

### Specifications

ENERGY STAR Unique ID:	2449013
Outdoor Unit Brand Name:	BLUERIDGE
Series Name:	BM series
Outdoor Unit Model Number:	BMY24HH22C
Indoor Unit Model Number:	BMY24HH22WM
Indoor Unit Brand Name:	BLUERIDGE
SEER2 (Btu/Wh):	21.5
Product Type:	HP - Mini or Multi Split
EER2 (Btu/Wh):	13.0
HSPF2 (Btu/Wh):	11.4
COP at 5°F:	2.21
Cooling Capacity (Btu/h):	24000
Heating Capacity at 47°F (Btu/h):	29000
Heating Capacity at 5°F (Btu/h):	25000
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