



# BMY2419 Specifications and Certifications



## Models



BMY2419C	24000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump Condenser
BMY2419WM	24000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump Air Handler
BMY2419	24000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump System
BMY2419 KIT15	24000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit
BMY2419 KIT25	24000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

# What's in the Box

## Mini-Split System

### BMY2419

24000 BTU 18.5 SEER2 208/230V Mini-Split Heat Pump Condenser

24000 BTU 18.5 SEER2 208/230V Mini-Split Heat Pump Air Handler

Remote Controller



## Mini-Split System with Installation Kit

### BMY2419 KIT15

24000 BTU 18.5 SEER2 208/230V Mini-Split Heat Pump Condenser

24000 BTU 18.5 SEER2 208/230V Mini-Split 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" 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



### BMY2419 KIT25

24000 BTU 18.5 SEER2 208/230V Mini-Split Heat Pump Condenser

24000 BTU 18.5 SEER2 208/230V Mini-Split 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" 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      BMY2419  
25 Ft Kit Model      BMY2419 KIT15  
                              BMY2419 KIT25

#### Certified

AHRI



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### 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)	19.0	
Max.fuse(Outdoor)	(A)	30.0	
Connection wiring		14#x4	
<b>Cooling</b>			
Capacity	(Btu/h)	24000(6200~24600)	
Power Input	(W)	2520(292~2900)	
Current	(A)	11.2(1.95~12.7)	
SEER2	(Btu/W)	18.5	
EER2	(Btu/W)	9.5	
<b>Heating</b>			
Capacity	(Btu/h)	24000(6800~26800)	
Power Input	(W)	2350(437~2900)	
Current	(A)	10.25(2.88~12.7)	
HSPF2-4	(Btu/W)	8.6	
COP	W/W	2.99	
Heat at 17F(AHRI Rating)	(Btu/h)	14500	
Heat at 5F(AHRI Rating)	(Btu/h)	14800	
COP at 5F(AHRI Rating)	W/W	1.83	

### REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	Throttle valve
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	62.79
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)	5~122
Outdoor(heating)	(Deg. F)	5~75

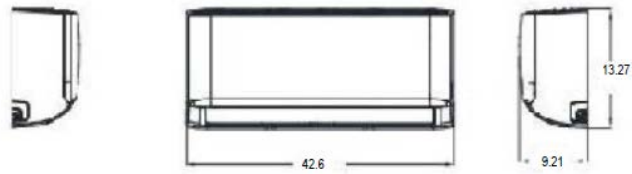
### INDOOR UNIT DATA

<b>Indoor fan motor</b>			
Model		ZKFP-58-8-1-5	
Qty		1	
Input	(W)	58.0	
Output	(W)	58.0	
RLA	(A)	0.5	
<b>Air flow &amp; Noise level</b>			
Indoor air flow (Turbo/Hi/Med/Lo)	(CFM)	727.65/546.47/402.35/330.59	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	45/39.5/36	
Dehumidification	(L/H)	2.7	
<b>Indoor unit</b>			
Dimension (WxDxH)	(inch)	42.60x9.21x13.27	
Packing(WxDxH)	(inch)	45.47x16.34x12.40	
Net/Gross weight	(lbs.)	29.98/38.14	

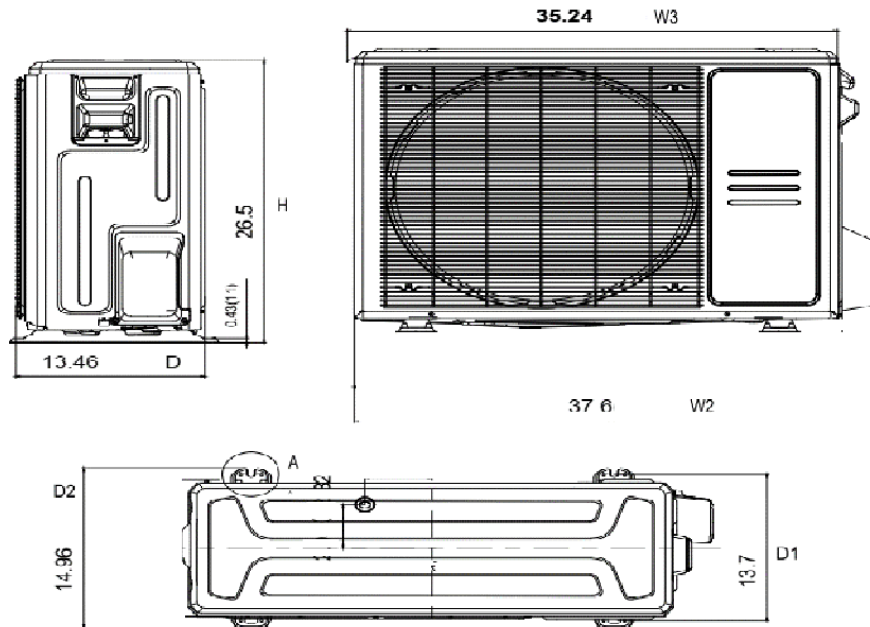
### OUTDOOR UNIT DATA

<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	
<b>Air flow &amp; Noise level</b>			
Outdoor air flow (Max.)	(CFM)	1765	
Outdoor noise level	[dB(A)]	60.0	
<b>Outdoor unit</b>			
Dimension (WxDxH)	(inch)	35.04x13.46x26.50	
Packing (WxDxH)	(inch)	39.17x15.67x29.13	
Net/ Gross weight	(lbs.)	97.88/104.50	

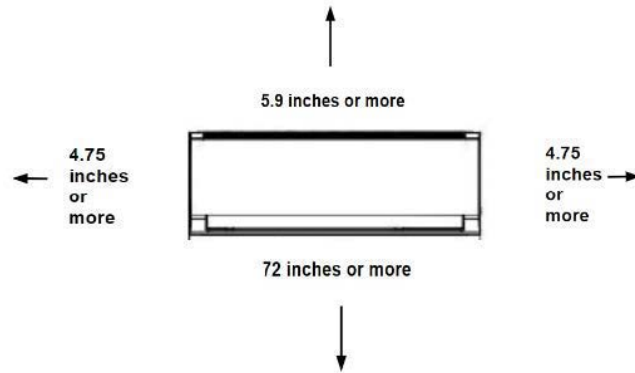
Indoor unit dimension



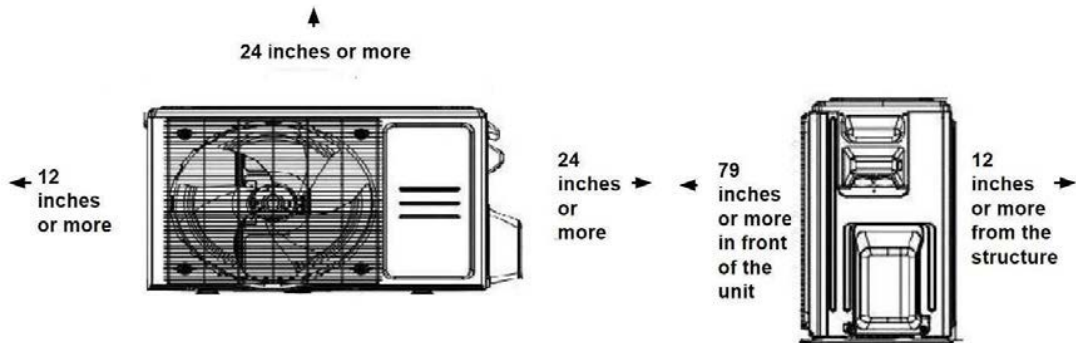
Outdoor unit dimension



Indoor unit clearance (Inches)



Outdoor unit clearance (Inches)



**COOLING PERFORMANCE DATA**

Model	Cooling			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
	Indoor Conditions DB																	
BMY2419WM BMY2419C Wall Mounted (208-230V)	65°F	TC	20552	21199	21471	22709	21854	22222	22097	22930	23526	21847	20882	20213	19379	18639	17332	
		Input	1146	1415	1554	1778	1880	1950	1982	2050	2195	2372	2793	2682	2541	2414	2293	
	70°F	TC	21748	22152	22842	23656	23126	23515	23507	24239	24975	23021	22051	21344	20485	19578	18283	
		Input	1152	1394	1571	1757	1893	1944	1982	2072	2207	2400	2819	2702	2565	2407	2278	
	75°F	TC	23038	23147	23893	24641	24369	24495	24902	25381	26261	24413	23334	22327	21609	20394	19125	
		Input	1165	1391	1545	1725	1876	1936	2003	2055	2186	2397	2810	2671	2559	2376	2243	
	80°F	TC	24277	24495	25071	25722	25571	26003	26463	26887	27356	25944	24614	23727	22891	21627	20216	
		Input	1165	1408	1535	1698	1876	1938	2005	2070	2141	2647	2802	2680	2568	2414	2269	

**HEATING PERFORMANCE DATA**

Model	Heating			5°F	10°F	17°F	20°F	25 F	32°F	35F	40°F	47°F	50°F	57F
	Indoor Conditions	DB												
BMY2419WM BMY2419C Wall Mounted (208-230V)	60°F	TC	16097	17623	19247	20202	21204	21988	22709	26023	28314	29028	29896	
		Input	2233	2350	2427	2527	2572	2648	2718	2764	2778	2809	2832	
	65°F	TC	15568	17109	18741	19575	20566	21244	22112	25167	27516	28265	29110	
		Input	2290	2410	2502	2591	2648	2724	2782	2847	2846	2869	2896	
	70°F	TC	15085	16660	18143	19024	19871	20726	21531	24316	26689	27441	28290	
		Input	2351	2482	2580	2655	2725	2794	2854	2926	2925	2952	2986	
	75 F	TC	14497	15927	17399	18339	18996	19877	20562	23246	25755	26344	27158	
		Input	2417	2567	2649	2724	2815	2864	2945	3019	3010	3040	3069	

**LEGEND**

DB --- Dry Bulb (Air Temperature without considering humidity)  
TC --- Total Net Capacity 1000 Btu/hour (Actual Capacity + Dehumidifying Capacity)  
Input --- Total Power (W)

# Certificate of Product Ratings

AHRI Certified Reference Number : 207339176    Date : 02-28-2024    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 : BMY2419C

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : BMY2419WM

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 : 18.50

EER (A2) - Single or High Stage (95F) : 9.50

Heating Capacity (H12) - Single or High Stage (47F) : 24000

HSPF (Region IV) : 10.20

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 : 18.50

EER2 (A<sub>Full</sub>) – Single or High Stage (95F) : 9.50

Heating Capacity (H1<sub>Full</sub>) – Single or High Stage (47F), btuh : 24000

HSPF2 (Region IV) : 8.60

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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