

BMY1820 Specifications and Certifications







Models

BMY1820C

BMY1820WM

BMY1820

BMY1820 KIT15

BMY1820 KIT25

18000 BTU 19.5 SEER2 208/230V Minisplit Heat Pump Condenser

18000 BTU 19.5 SEER2 208/230V Minisplit Heat Pump Air Handler

18000 BTU 19.5 SEER2 208/230V Minisplit Heat Pump System

18000 BTU 19.5 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit

18000 BTU 19.5 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMY1820

18000 BTU 19.5 SEER2 208/230V Mini-Split Heat Pump Condenser

18000 BTU 19.5 SEER2 208/230V Mini-Split Heat Pump Air Handler

Remote Controller



Mini-Split System with Installation Kit

BMY1820
KIT15

18000 BTU 19.5 SEER2 208/230V Mini-Split Heat Pump Condenser
18000 BTU 19.5 SEER2 208/230V Mini-Split 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



BMY1820 KIT25

18000 BTU 19.5 SEER2 208/230V Mini-Split Heat Pump Condenser
18000 BTU 19.5 SEER2 208/230V Mini-Split 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:	Approval:	
Engineer:	Date:	
Engineer: Submitted to:	Construction:	
Submitted by:	Unit #:	
Reference:	Drawing #:	

Set Model 15 Ft Kit Model 25 Ft Kit Model BMY1820 BMY1820 KIT15 BMY1820 KIT25

Ceritified AHRI

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SYSTEM PERFORMANCE DA	TA	
Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230V,1Ph,60Hz
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity(Outdoor)	(A)	15.0
Max.fuse(Outdoor)	(A)	20.0
Connection wiring		14#x4
Cooling		
Capacity	(Btu/h)	18000(3900~20000)
Powrer Input	`(W) [′]	1638(180~1480)
Current	(A)	7.5(0.78~6.43)
SEER2	(Btu/W)	19.5
EER2	(Btu/W)	11.0
Heating	, ,	
Capacity	(Btu/h)	18800(6300~19400)
Powrer Input	` (W) [*]	1806(375~1770)
Current	(A)	/(1.63~7.69)
HSPF2-4	(Btu/W)	8.7
COP	W/W	3.05
Heat at 17F(AHRI Rating)	(Btu/h)	11400
Heat at 5F(AHRI Rating)	(Btu/h)	11700
COP at 5F(AHRI Rating)	`W/W	2.06
l ' ',		

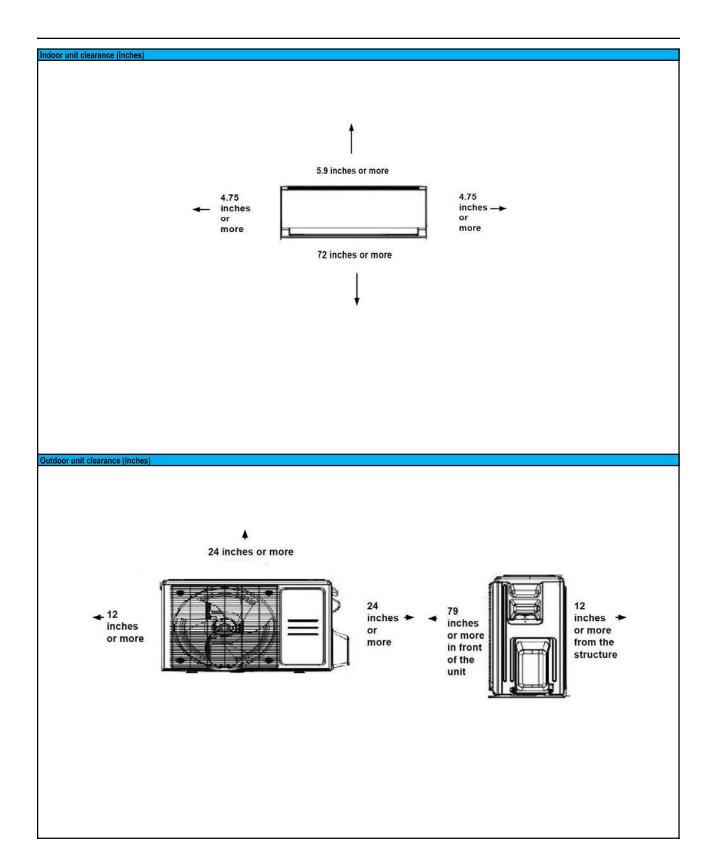
REFRIGERANT PIPE DATA		
Throttle type	Indoor unit	N/A
Design pressure	Outdoor unit (PSIG)	Capillary 550/340
Refrigerant Type	(1 010)	R410A
Refrigerant charge	OZ	47.62
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.16
l		
Liquid side/ Gas side(indoor)	(inch)	1/4"/1/2"
Liquid side/ Gas side(outdoor)	(inch)	1/4"/1/2"
Max. pipe length	(ft)	98.4
IMax. pipe length	(IL)	90.4
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
Tremote control temp (tange(neating)	(Deg. F)	02 ~ 00
Outdoor(cooling)	(Deg. °F)	5~122
Outdoor/hooting)	(D °F)	5 75
Outdoor(heating)	(Deg. °F)	5~75
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INDOOR UNIT DATA Indoor fan motor		
Model		ZKFP-30-8-3-10
Qty		1
Input	(W)	36.0
Output	(W)	30.0
RLA	(A)	0.4
Air flow & Noise level		
Indoor air flow (Turbo/Hi/Med/Lo)	(CFM)	//458.82/329.41/270.59
Indoor noise level (Hi/Med/Lo)	[dB(A)]	45/38/30.0
Dehumidification	(L/H)	2.49
Indoor unit		
Dimension (WxDxH)	(inch)	38.23x8.98x12.64
Packing(WxDxH)	(inch)	41.14x12.01x15.94
Net/Gross weight	(lbs.)	24.47/31.75
OUTDOOR UNIT DATA		
Compressor Type		ROTARY

OUTDOOR UNIT DATA		
Compressor		
Туре		ROTARY
Model		KSN140D21UFZ
Brand		GMCC
Capacity	(Btu/h)	14962
Input	(W)	1140
Rated current (RLA)	(A)	10
Refrigerant oil/oil charge	(ml)	VG74 440
Outdoor fan motor		
Model		ZKFN-34-10-1-3
Qty		1
Input	(W)	/
Output	(W)	34
RLA	(A)	0.7
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1235
Outdoor noise level	[dB(A)]	57.0
Outdoor unit		
Dimension (W×D×H)	(inch)	31.69x12.99x21.81
Packing (W×D×H)	(inch)	36.02x14.57x24.21
Net/ Gross weight	(lbs.)	73.85/79.81

Indoor unit dimension (Inches)	38.23	12.64
Outdoor unit dimension (Inches)		



COOLING PERFORMANCE DATA

	Cooling	g															
Model	Indoor Conditions DB		5℉	17°F	25°F	35°F	47°F	55°F	65℉	75°F	80°F	85°F	95℉	105°F	110°F	115°F	122°F
	65°F	TC	14730	14894	14968	15897	16093	16368	16434	16971	17111	16822	16475	16017	15189	14418	13105
	051	Input	894	920	946	1029	1088	1156	1205	1345	1392	1583	1778	1704	1708	1603	1521
BMY1820WM	70°F	TC	15392	15596	15756	16611	16904	17050	17409	17770	17937	17877	17453	16772	16159	15225	13867
BMY1820C	701	Input	887	909	944	1017	1092	1140	1223	1326	1377	1588	1787	1711	1713	1604	1527
Wall Mounted	75°F	TC	16202	16556	16673	17340	17627	17966	18481	18825	19021	18897	18469	17599	16920	15925	14690
(208-230V)	/51	Input	882	916	955	1012	1089	1142	1236	1322	1382	1580	1789	1724	1686	1594	1538
	80°F	TC	17199	17355	17719	18138	18752	19092	19454	19795	20171	19726	19299	18604	17755	16589	15334
	50 F	Input	887	921	961	1011	1095	1163	1236	1312	1404	1697	1795	1744	1678	1593	1511

HEATING PERFORMANCE DATA

	Heatin												
Model	Indoor Conditions DB		5 °F	10 °F	17 °F	20 °F	25°F	32 °F	35℉	40 °F	47 °F	50 °F	57℉
	COSE	TC	11387	12298	13380	14417	15566	16537	17662	18885	19685	20442	20826
	60°F	Input	1470	1584	1664	1682	1710	1724	1749	1773	1802	1787	1813
BMY1820WM	65°F	TC	11034	11998	13016	14038	15040	16102	17081	18282	19112	19789	20259
BMY1820C	051	Input	1514	1623	1705	1731	1752	1761	1786	1826	1845	1838	1854
Wall Mounted	70°F	TC	10755	11705	12600	13616	14602	15587	16665	17715	18591	19138	19707
(208-230V)	701	Input	1560	1661	1749	1772	1793	1808	1838	1873	1883	1888	1896
	75°F	TC	10367	11237	12121	13044	14076	14948	15965	16918	17811	18411	18860
	,31	Input	1602	1709	1803	1834	1847	1868	1889	1931	1933	1954	1943

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

Updated 6/11/2024 SCS205-01



Certificate of Product Ratings

AHRI Certified Reference Number: 207339175 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 : BMY1820C
Indoor Type : Mini-Splits (Non-Ducted)
Indoor Model Number(s) : BMY1820WM

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: 19.50

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

Heating Capacity (H12) - Single or High Stage (47F): 18800

HSPF (Region IV): 10.00

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 (AFull) - Single or High Stage (95F), btuh: 18000

SEER2: 19.50

EER2 (A Full) - Single or High Stage (95F): 11.00

Heating Capacity (H1Full) - Single or High Stage (47F), btuh: 18800

HSPF2 (Region IV): 8.70

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.AHRInet.org for more information about updated energy efficiency metrics.

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