

BMY3020 Specifications and Certifications







Models

BMY3020C

BMY3020WM

BMY3020

BMY3020 KIT15

BMY3020 KIT25

30000 BTU 21 SEER2 208/230V Minisplit Heat Pump Condenser

30000 BTU 21 SEER2 208/230V Minisplit Heat Pump Air Handler

30000 BTU 21 SEER2 208/230V Minisplit Heat Pump System

30000 BTU 21 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit

30000 BTU 21 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit

What's in the Box

Mini-Split System

BMY3020

30000 BTU 21 SEER2 208/230V Mini-Split Heat Pump Condenser

30000 BTU 21 SEER2 208/230V Mini-Split Heat Pump Air Handler

Remote Controller



Mini-Split System with Installation Kit

BMY3020
KIT15

30000 BTU 21 SEER2 208/230V Mini-Split Heat Pump Condenser
30000 BTU 21 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



BMY3020 KIT25

30000 BTU 21 SEER2 208/230V Mini-Split Heat Pump Condenser
30000 BTU 21 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		
La salta a	Assessed	
Location:	Approval:	
Engineer:	Date:	
Engineer: Submitted to:	Construction:	
Submitted by:	Unit #:	
Reference:	Drawing #:	

 Set Model
 BMY3020

 15 Ft Kit Model
 BMY3020 KIT15

 25 Ft Kit Model
 BMY3020 KIT25

Ceritified AHRI

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SYSTEM PERFORMANCE DA	ATA	
Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230V,1Ph,60Hz
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity(Outdoor)	(A)	23.0
Max.fuse(Outdoor)	(A)	30.0
Connection wiring		14#x4
Cooling		
Capacity	(Btu/h)	30000(7200~31600)
Powrer Input	(W)	2460(290~3180)
Current	(A)	10.69(2.3~14.1)
SEER2	` '	21.0
EER2	(Btu/W) (Btu/W)	12.2
Heating	(Dlu/VV)	12.2
, ,	(D4/k)	20000(44700 22000)
Capacity Powrer Input	(Btu/h)	30000(11700~32000) 2750(690~3160)
Current	(W) (A)	12.46(4.8~14)
HSPF2-4	(Btu/W)	8.2
N3FF2-4	(Dlu/VV)	0.2
COP	W/W	3.20
Heat at 17F(AHRI Rating)	(Btu/h)	17100
Heat at 5F(AHRI Rating)	(Btu/h)	18400
COP at 5F(AHRI Rating)	W/W	1.86

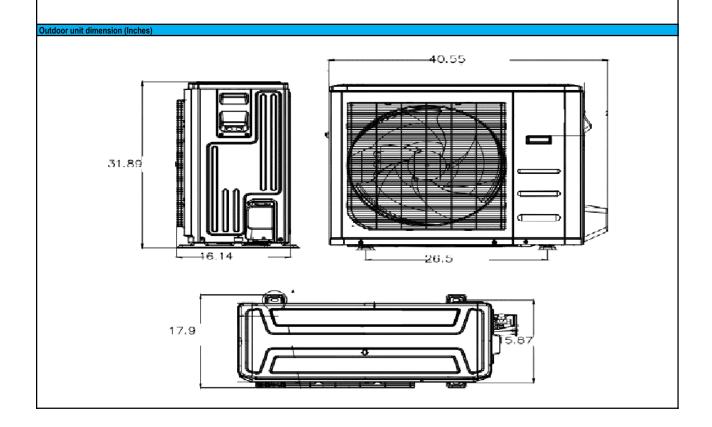
REFRIGERANT PIPE DATA		
Throttle type	Indoor unit Outdoor unit	N/A EXV+Capillary
Design pressure	(PSIG)	550/340 R410A
Refrigerant Type Refrigerant charge	OZ	97.00
Refrigerant precharge	(ft)	25.0
Additional charge for each ft	(oz/ft)	0.32
Liquid side/ Gas side(indoor)	(inch)	3/8"/5/8"
Liquid side/ Gas 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

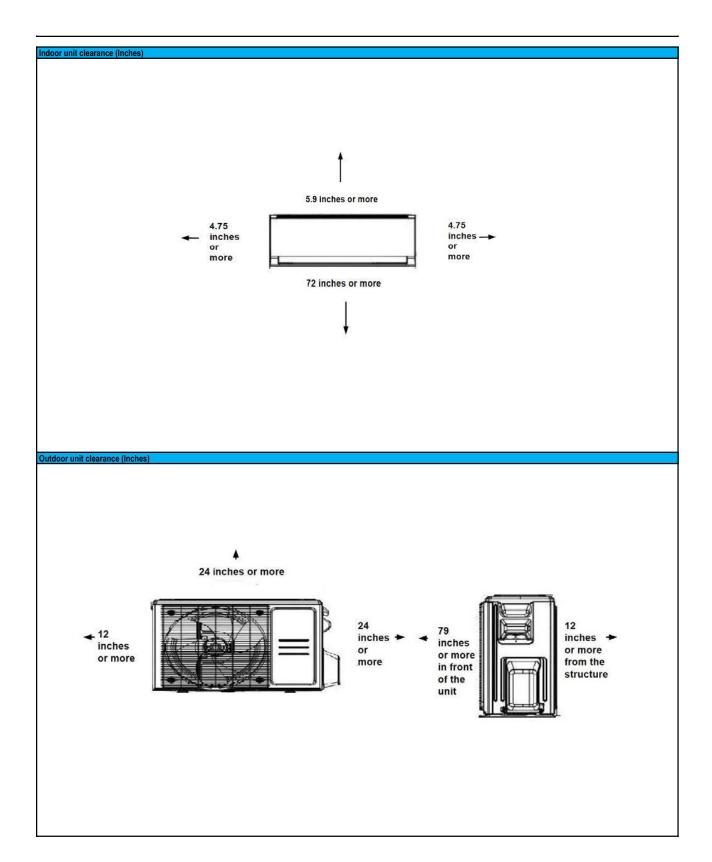


INDOOR UNIT DATA		
Indoor fan motor		
Model		ZKFP-58-8-1-5
Qty		1
Input	(W)	58.0
Output	(W)	58.0
RLA	(A)	0.5
Air flow & Noise level		
Indoor air flow (Turbo/Hi/Med/Lo)	(CFM)	740.59/701.76/535.88/380.00
Indoor noise level (Hi/Med/Lo)	[dB(A)]	49.5/43.5/39.5
Dehumidification	(L/H)	3.64
Indoor unit		
Dimension (WxDxH)	(inch)	49.57x11.14x14.25
Packing(WxDxH)	(inch)	52.76x17.72x15.16
Net/Gross weight	(lbs.)	42.99/55.56

ROTARY
KTF250D22UMT
GMCC
27620
2200 15
VG74/670
VG74/070
ZKFN-120-8-2
1
150.0
120
0.6
2235
60.0
37.24x16.14x31.89
42.91x19.69x34.84
141.76/151.90

14.25





COOLING PERFORMANCE DATA

	Cooling																
Model	Indoor Conditions DB		5°F	17°F	25°F	35°F	47°F	55°F	65°F	75°F	80°F	85°F	95℉	105°F	110°F	115°F	122°F
	DB																
	65°F	TC	25014	25471	25754	26236	26866	27252	26863	27157	27034	27656	27292	26164	25678	24135	22289
	031	Input	1567	1597	1620	1672	1782	1981	2099	2290	2512	2875	3166	3149	3291	3457	3627
BMY3020WM	70°F	TC	26442	26868	27082	27501	28191	28506	28070	28617	28308	29204	29034	27775	27230	25379	23267
BMY3020C	701	Input	1568	1597	1623	1672	1782	1977	2091	2309	2523	2882	3169	3189	3305	3443	3563
Wall Mounted	75°F	TC	27863	28432	28658	29071	29458	29756	29548	30155	30115	30548	30724	29516	28423	26970	24363
(208-230V)	751	Input	1562	1610	1626	1695	1784	1965	2082	2324	2577	2851	3219	3193	3308	3505	3578
	80°F	TC	29176	29772	30103	30441	31009	31223	31434	31642	31868	32021	32205	31168	29951	28182	25672
	50 F	Input	1567	1587	1640	1703	1792	1944	2126	2334	2569	2999	3176	3227	3298	3464	3604

HEATING PERFORMANCE DATA

	Heating	g											
Model	Indoor Conditions		5 °F	10 °F	17 °F	20 °F	25°F	32 °F	35℉	40 °F	47 °F	50 °F	57°F
	DB												
	60°F	TC	16864	18489	20935	22377	23593	25240	26691	30157	33953	34608	35685
		Input	2615	2534	2585	2602	2628	2628	2631	2844	3006	3066	3155
BMY3020WM	65°F	TC	16310	18003	20325	21641	22928	24387	25788	29336	33060	33764	34680
BMY3020C	100	Input	2683	2599	2646	2675	2689	2687	2712	2911	3099	3144	3219
Wall Mounted	70°⊏	TC	15804	17563	19714	21072	22325	23630	24989	28426	32004	32812	33604
(208-230V)	70°F	Input	2749	2676	2723	2746	2761	2770	2791	2986	3163	3241	3319
	75°F	TC	15188	16791	18827	20166	21544	22638	24014	27232	30628	31368	32395
	/31	Input	2836	2743	2810	2837	2836	2842	2888	3088	3264	3345	3421

LEGEND

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 SCS207-01



Certificate of Product Ratings

AHRI Certified Reference Number: 207339177 Date: 02-29-2024 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 : BMY3020C
Indoor Type : Mini-Splits (Non-Ducted)
Indoor Model Number(s) : BMY3020WM

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: 30000

SEER: 20.00

EER (A2) - Single or High Stage (95F): 12.20

Heating Capacity (H12) - Single or High Stage (47F): 30000

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: 30000

SEER2: 21.00

EER2 (A Full) - Single or High Stage (95F): 12.20

Heating Capacity (H1Full) - Single or High Stage (47F), btuh: 30000

HSPF2 (Region IV): 8.20

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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