



# BMY3020 Submittal Sheet



## Models

|               |   |
|---------------|---|
| BMY3020C      | 30000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump Condenser                 |
| BMY3020WM     | 30000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump Air Handler               |
| BMY3020       | 30000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump System                    |
| BMY3020 KIT15 | 30000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump W/ 15 Ft Installation Kit |
| BMY3020 KIT25 | 30000 BTU 18.5 SEER2 208/230V Minisplit Heat Pump W/ 25 Ft Installation Kit |



## 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      BMY3020  
25 Ft Kit Model      BMY3020 KIT15  
                             BMY3020 KIT25

#### Certified

AHRI

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### SYSTEM PERFORMANCE DATA

#### 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)  
Power Input      (W)      2460(290~3180)  
Current      (A)      10.69(2.3~14.1)  
SEER2      (Btu/W)      21.0  
EER2      (Btu/W)      12.2

#### Heating

Capacity      (Btu/h)      30000(11700~32000)  
Power Input      (W)      2750(690~3160)  
Current      (A)      12.46(4.8~14)  
HSPF2-4      (Btu/W)      8.2

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  | N/A           |
|                                | Outdoor unit | EXV+Capillary |
| Design pressure                | (PSIG)       | 550/340       |
| Refrigerant Type               |              | R410A         |
| 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        |
| Indoor(cooling)                | (Deg. F)     | 60~90         |
| Indoor(heating)                | (Deg. F)     | 32~86         |
| 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       |

### OUTDOOR UNIT DATA

#### Compressor

|                            |         |              |
|----------------------------|---------|--------------|
| Type                       |         | ROTARY       |
| Model                      |         | KTF250D22UMT |
| Brand                      |         | GMCC         |
| Capacity                   | (Btu/h) | 27620        |
| Input                      | (W)     | 2200         |
| Rated current (RLA)        | (A)     | 15           |
| Refrigerant oil/oil charge | (ml)    | VG74/670     |

#### Outdoor fan motor

|        |     |              |
|--------|-----|--------------|
| Model  |     | ZKFN-120-8-2 |
| Qty    |     | 1            |
| Input  | (W) | 150.0        |
| Output | (W) | 120          |
| RLA    | (A) | 0.6          |

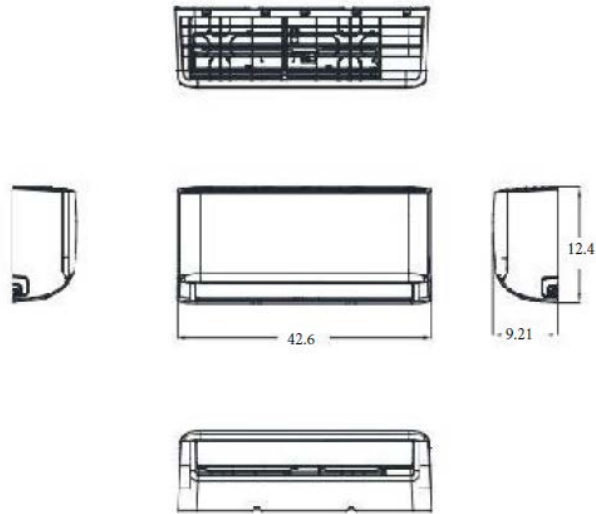
#### Air flow & Noise level

|                         |         |      |
|-------------------------|---------|------|
| Outdoor air flow (Max.) | (CFM)   | 2235 |
| Outdoor noise level     | [dB(A)] | 60.0 |

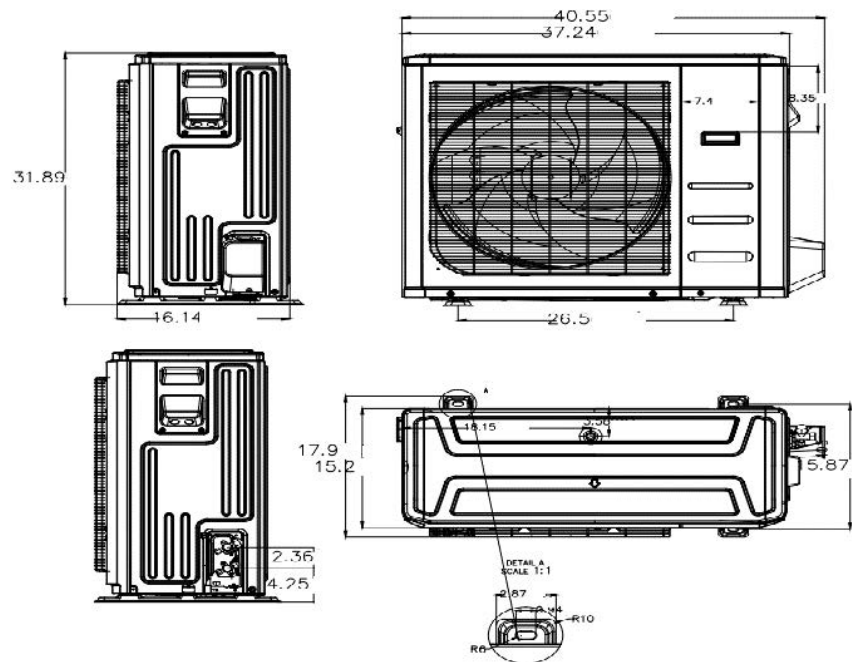
#### Outdoor unit

|                   |        |                   |
|-------------------|--------|-------------------|
| Dimension (WxDxH) | (inch) | 37.24x16.14x31.89 |
| Packing (WxDxH)   | (inch) | 42.91x19.69x34.84 |
| Net/ Gross weight | (lbs.) | 141.76/151.90     |

Indoor unit dimension (Inches)



Outdoor unit dimension (Inches)



COOLING PERFORMANCE DATA

| Model   | Cooling              |     |       | 5F    | 17F   | 25F   | 35F   | 47F   | 55F   | 65F   | 75F   | 80F   | 85F   | 95F   | 105F  | 110F  | 115F  | 122F  |
|---|----------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|   | Indoor Conditions DB |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|   | DB                   | WB  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BMY3020WM<br>BMY3020C<br>Wall Mounted<br>(208-230V) | 65F                  | 54F | TC    | 25014 | 25471 | 25754 | 26236 | 26866 | 27252 | 26863 | 27157 | 27034 | 27656 | 27292 | 26164 | 25678 | 24135 | 22289 |
|   |                      |     | SC    | 17231 | 18046 | 18688 | 19416 | 20292 | 20299 | 20607 | 21326 | 21485 | 21959 | 22159 | 21873 | 23519 | 22249 | 22122 |
|   |                      |     | Input | 1567  | 1597  | 1620  | 1672  | 1782  | 1981  | 2099  | 2290  | 2512  | 2875  | 3166  | 3149  | 3291  | 3457  | 3627  |
|   | 70F                  | 59F | TC    | 26442 | 26868 | 27082 | 27501 | 28191 | 28506 | 28070 | 28617 | 28308 | 29204 | 29034 | 27775 | 27230 | 25379 | 23267 |
|   |                      |     | SC    | 18118 | 18951 | 19553 | 20255 | 21174 | 21113 | 21398 | 22338 | 22357 | 23082 | 23456 | 23092 | 24787 | 23272 | 22993 |
|   |                      |     | Input | 1568  | 1597  | 1623  | 1672  | 1782  | 1977  | 2091  | 2309  | 2523  | 2882  | 3169  | 3189  | 3305  | 3443  | 3563  |
|   | 75F                  | 63F | TC    | 27863 | 28432 | 28658 | 29071 | 29458 | 29756 | 29548 | 30155 | 30115 | 30548 | 30724 | 29516 | 28423 | 26970 | 24363 |
|   |                      |     | SC    | 18973 | 19942 | 20566 | 21286 | 22000 | 21910 | 22381 | 23426 | 23665 | 24029 | 24686 | 24413 | 25709 | 24577 | 23974 |
|   |                      |     | Input | 1562  | 1610  | 1626  | 1695  | 1784  | 1965  | 2082  | 2324  | 2577  | 2851  | 3219  | 3193  | 3308  | 3505  | 3578  |
|   | 80F                  | 67F | TC    | 29176 | 29772 | 30103 | 30441 | 31009 | 31223 | 31434 | 31642 | 31868 | 32021 | 32205 | 31168 | 29951 | 28182 | 25672 |
|   |                      |     | SC    | 19752 | 20780 | 21463 | 22161 | 23008 | 22855 | 23701 | 24459 | 24888 | 25073 | 25732 | 25651 | 26956 | 25533 | 25159 |
|   |                      |     | Input | 1567  | 1587  | 1640  | 1703  | 1792  | 1944  | 2126  | 2334  | 2569  | 2999  | 3176  | 3227  | 3298  | 3464  | 3604  |

HEATING PERFORMANCE DATA

| Model   | Heating                    |       |       | 5°F   | 10°F  | 17°F  | 20°F  | 25°F  | 32°F  | 35°F  | 40°F  | 47°F  | 50°F  | 57°F |
|---|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|   | Indoor<br>Conditions<br>DB |       |       |       |       |       |       |       |       |       |       |       |       |      |
|   |                            |       |       |       |       |       |       |       |       |       |       |       |       |      |
| BMY3020WM<br>BMY3020C<br>Wall Mounted<br>(208-230V) | 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  |      |
|   | 65°F                       | TC    | 16310 | 18003 | 20325 | 21641 | 22928 | 24387 | 25788 | 29336 | 33060 | 33764 | 34680 |      |
|   |                            | Input | 2683  | 2599  | 2646  | 2675  | 2689  | 2687  | 2712  | 2911  | 3099  | 3144  | 3219  |      |
|   | 70°F                       | TC    | 15804 | 17563 | 19714 | 21072 | 22325 | 23630 | 24989 | 28426 | 32004 | 32812 | 33604 |      |
|   |                            | 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 |      |
|   |                            | Input | 2836  | 2743  | 2810  | 2837  | 2836  | 2842  | 2888  | 3088  | 3264  | 3345  | 3421  |      |

LEGEND

DB --- Dry Bulb (Air Temperature without considering humidity)

WB --- Wet Bulb (Air Temperature accounting for humidity)

TC --- Total Net Capacity 1000 Btu/hour (Actual Capacity + Dehumidifying Capacity)

SC --- Sensible Capacity 1000 Btu/hour (Actual Capacity of System)

Input --- Total Power (W)

# Certificate of Product Ratings

AHRI Certified Reference Number : 207339177    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 : 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 (A<sub>Full</sub>) – Single or High Stage (95F), btuh : 30000

SEER2 : 21.00

EER2 (A<sub>Full</sub>) – Single or High Stage (95F) : 12.20

Heating Capacity (H1<sub>Full</sub>) – 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.AHRI.net.org](http://www.AHRI.net.org) for more information about updated energy efficiency metrics.

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**CERTIFICATE NO.:**

133062576954915826



ENERGY STAR CERTIFIED

## Heat Pumps (Mini-Split)

: BMY3020C

### Specifications

|                                   |                          |
|-----------------------------------|--------------------------|
| ENERGY STAR Unique ID:            | 2449002                  |
| Outdoor Unit Brand Name:          | BLUERIDGE                |
| Series Name:                      | BM series                |
| Outdoor Unit Model Number:        | BMY3020C                 |
| Indoor Unit Model Number:         | BMY3020WM                |
| Indoor Unit Brand Name:           | BLUERIDGE                |
| SEER2 (Btu/Wh):                   | 21.0                     |
| Product Type:                     | HP - Mini or Multi Split |
| EER2 (Btu/Wh):                    | 12.2                     |
| HSPF2 (Btu/Wh):                   | 8.2                      |
| Cooling Capacity (Btu/h):         | 30000                    |
| Heating Capacity at 47°F (Btu/h): | 30000                    |
| Cold Climate:                     | No                       |
| Connected Capable:                | No                       |
| Meets Peak Cooling Requirements:  | Yes                      |
| Tax Credit Eligible:              | No                       |
| Refrigerant with GWP:             | R-410A (GWP:2088)        |
| ENERGY STAR Most Efficient:       | No                       |

Captured On:  
04/10/2023