



|                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Submittal Data: BMKH24-15YN4GA</b>                                                                                                                                                                                                                                                                  |  | 24,000 BTU/H Wall Mounted Heat- Pump System                                                                                                                                                                                                                                                                                                                                                                                                           |              |
| Job Name                                                                                                                                                                                                                                                                                               |  | Location                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date         |
| Purchaser                                                                                                                                                                                                                                                                                              |  | Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
| Submitted To                                                                                                                                                                                                                                                                                           |  | For                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reference    |
|                                                                                                                                                                                                                                                                                                        |  | Approval                                                                                                                                                                                                                                                                                                                                                                                                                                              | Construction |
| Unit Designation                                                                                                                                                                                                                                                                                       |  | Schedule No.                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |
| <b>GENERAL FEATURES</b><br>-Compact and Quiet Design<br>-High Efficiency - 15 SEER<br>-DC Inverter Technology<br>-Wireless Remote with LCD Display<br>-Low Ambient Cooling<br>-Comfortable Sleep Mode<br>-Intelligent Defrost<br>-1 year Limited Parts Warranty<br>-5 year Limited Compressor Warranty |  |  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 10px;">AHRI Certified</div>                                                                                                                                                                                                                                                     |              |
| <b>System Ratings</b>                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |
| <b>Cooling</b><br>Rated Capacity 22,000 BTU/H<br>Capacity Range 6,400-24,000 BTU/H<br>Power Input (Max) 2,550 W<br>SEER 16<br>EER 10                                                                                                                                                                   |  | <b>Indoor Unit Data</b><br><b>Temperature Setpoint Range</b> (heat or cool) 61 – 86 (F)<br><b>Fan Motor</b> Output Power 35 W<br>FLA 0.3 A<br><b>Airflow</b><br>Cooling Wet (Lo/Hi) 206/589 CFM<br>Heating Dry (Lo/Hi) 374/607 CFM<br><b>Sound Pressure Level</b><br>Cooling (Lo/Hi) 34/49 db(A)<br>Heating (Lo/Hi) 34/49 db(A)<br><b>Dimensions &amp; Weights</b><br>Unit Dimensions (LxHxD) 39.7 x 12.4 x 8.7-in<br>Weight (Net/Shipping) 33/44 LBS |              |
| <b>Heating at 47° F</b><br>Rated Capacity 26,600 BTU/H<br>Capacity Range 4,100-26,600 BTU/H<br>Power Input (Max) 2,800 W<br>HSPF 9.5<br>COP 3.0                                                                                                                                                        |  | <b>Outdoor Unit Data</b><br><b>Compressor</b> DC Inverter Driven Rotary<br><b>Refrigerant Type</b> R410A<br><b>Fan Motor</b> Output Power 60 W<br>FLA 0.6 A<br><b>Sound Pressure</b><br>Cooling 53 db(A)<br>Heating 53 db(A)<br><b>Dimensions &amp; Weights</b><br>Unit Dimensions (LxHxD) 37.6 x 27.6 x 15.6 -in Weight (Net/Shipping) 115/126 LBS                                                                                                   |              |
| <b>Heating at 17° F</b><br>Rated Capacity 19,913 BTU/H<br>Capacity (Max) 19,913 BTU/H<br>Power Input (Max) 2,096 W<br>COP 2.1                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |
| <b>Operating Range</b><br>Cooling (Max) 109°F<br>(Min) 64°F<br>Heating (Max) 75°F<br>(Min) 19°F                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |



|                                                                                   |                              |                                                                                     |                             |
|-----------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|-----------------------------|
| <b>Power Supply</b>                                                               |                              | <b>Refrigerant Piping Data</b>                                                      |                             |
| Normal Operational Voltage                                                        | 208/230 V, 1 Phase,<br>60 Hz | Gas Pipe Size (OD)                                                                  | 5/8in Liquid Pipe Size (OD) |
| Voltage Range                                                                     | 187 - 253                    |                                                                                     | 1/4-in                      |
| Main Power Wire Size                                                              | V 10-2                       | Connection Method                                                                   | Flared                      |
| Interconnecting Cable Wire Size                                                   | AWG                          | MAX Refrigerant Pipe Length                                                         | 82-ft MIN Refrigerant Pipe  |
| MCA                                                                               | 14-4 AWG                     | Length                                                                              | 10-ft                       |
| MOCP/Breaker Size                                                                 | 16.0<br>A<br>25<br>A         | MAX Refrigerant Pipe Height Difference                                              | 33-ft                       |
|  |                              |   |                             |
|  |                              |  |                             |

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24,000 BTU/H Wall Mounted Heat- Pump System

**EXTENDED RATINGS****COOLING PERFORMANCE**

| Outdoor Ambient<br>Temperature(DB) | Indoor Entering Air Temperatures(DB) 50%RH |        |        |        |        |        |
|------------------------------------|--------------------------------------------|--------|--------|--------|--------|--------|
|                                    | 62 F                                       |        | 67 F   |        | 72 F   |        |
|                                    | TC                                         | SHC    | TC     | SHC    | TC     | SHC    |
| 25 F                               | 27,066                                     | 20,097 | 29,255 | 21,181 | 31,273 | 22,516 |
| 35 F                               | 26,450                                     | 20,073 | 28,169 | 20,564 | 29,537 | 21,356 |
| 45 F                               | 25,144                                     | 19,310 | 26,889 | 19,951 | 28,809 | 20,886 |
| 55 F                               | 24,206                                     | 18,736 | 25,812 | 19,359 | 27,671 | 20,201 |
| 65 F                               | 23,381                                     | 18,167 | 25,727 | 19,527 | 27,280 | 19,942 |
| 75 F                               | 22,462                                     | 17,565 | 24,200 | 18,610 | 26,028 | 19,209 |
| 85 F                               | 21,560                                     | 17,119 | 23,100 | 17,833 | 25,080 | 18,735 |
| 95 F                               | 20,460                                     | 16,347 | 22,000 | 17,578 | 24,068 | 18,075 |
| 105 F                              | 19,360                                     | 15,720 | 20,851 | 16,640 | 22,660 | 17,403 |
| 115 F                              | 18,259                                     | 15,045 | 19,359 | 15,680 | 20,678 | 16,191 |

**HEATING PERFORMANCE**

| Outdoor Ambient<br>Temperature(DB)<br>(80%RH) | Indoor Entering Air Temperatures(DB) |        |        |        |        |        |
|-----------------------------------------------|--------------------------------------|--------|--------|--------|--------|--------|
|                                               | 65 F                                 |        | 70 F   |        | 75 F   |        |
|                                               | TC                                   | SHC    | TC     | SHC    | TC     | SHC    |
| 5 F                                           | 20,004                               | 20,004 | 18,880 | 18,880 | 18,417 | 18,417 |
| 15 F                                          | 21,383                               | 21,383 | 19,508 | 19,508 | 19,390 | 19,390 |
| 25 F                                          | 22,688                               | 22,688 | 21,534 | 21,534 | 20,309 | 20,309 |
| 35 F                                          | 23,954                               | 23,954 | 22,172 | 22,172 | 21,242 | 21,242 |
| 45 F                                          | 25,206                               | 25,206 | 24,351 | 24,351 | 22,876 | 22,876 |
| 55 F                                          | 25,240                               | 25,240 | 24,510 | 24,510 | 23,437 | 23,437 |
| 65 F                                          | 25,120                               | 25,120 | 24,753 | 24,753 | 23,990 | 23,990 |

TC- Total Capacity ( btuh)

SHC- Sensible Capacity (btuh)

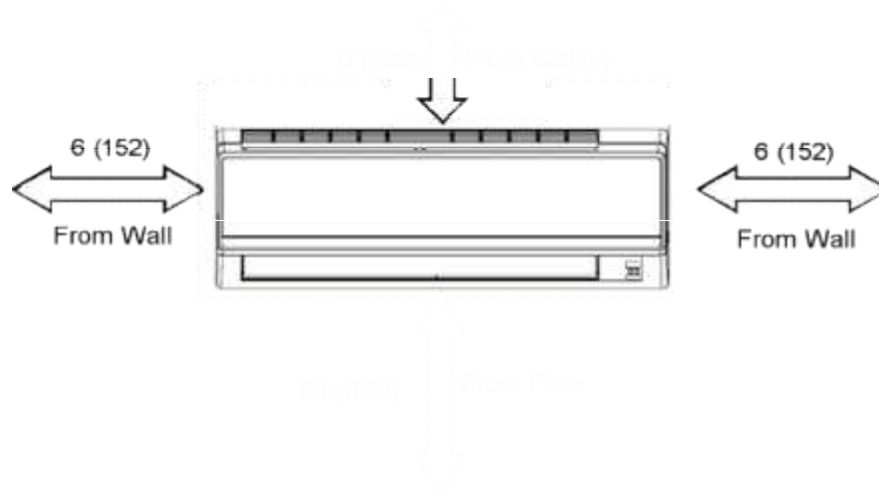


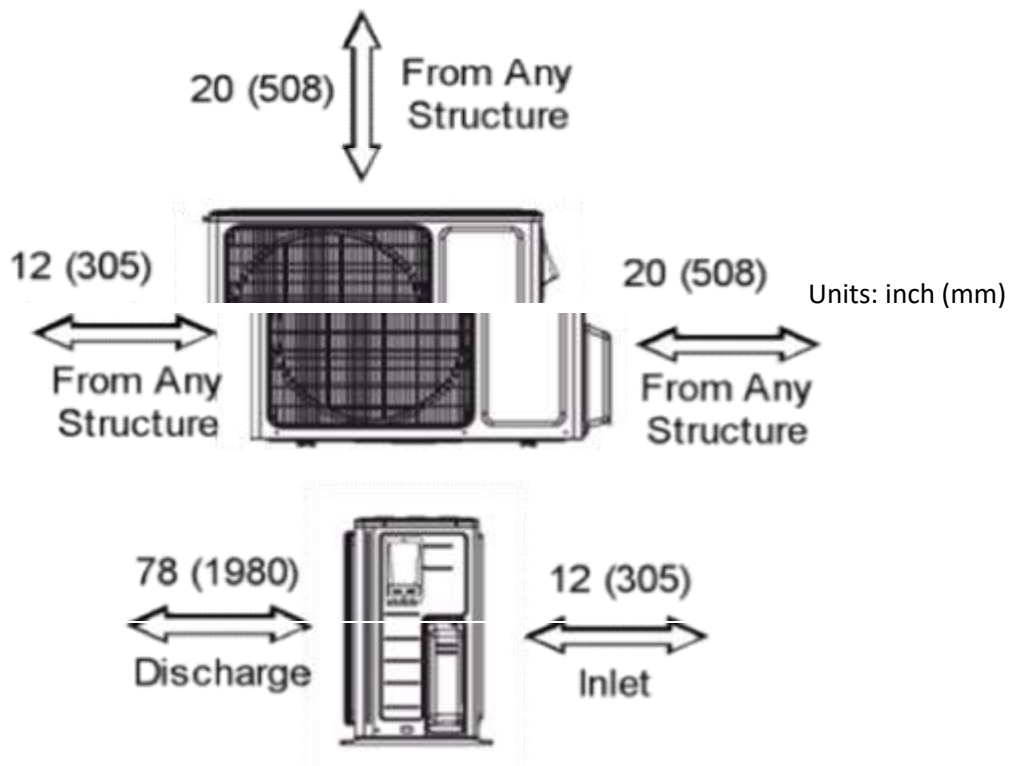
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## MINIMUM SPACING REQUIREMENTS

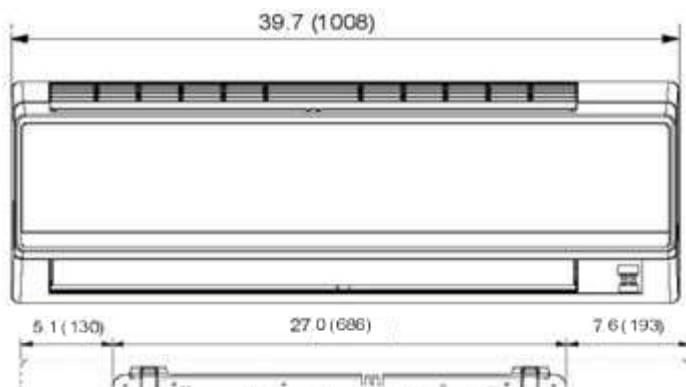
Units: inch (mm)





## DIMENSIONAL SPECIFICATIONS

BMKH24-15YN4GA



## INDOOR UNIT DIMENSIONS

Units: inch (mm)



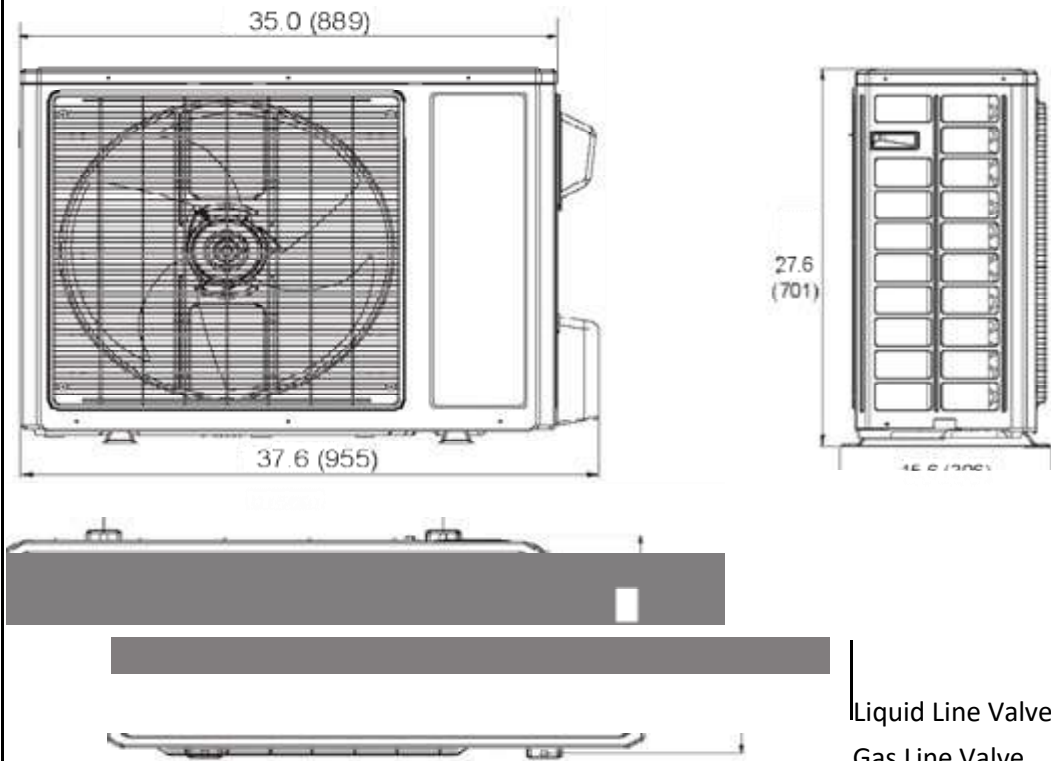
Liquid Line Valve

1/4-in OD Flared



|                 |                  |
|-----------------|------------------|
| Gas Line Valve  | 1/2-in OD Flared |
| Drain Connector | 5/8-in OD        |

## OUTDOOR UNIT DIMENSIONS



Units: inch (mm)

1/4-in OD Flared

Liquid Line Valve

Gas Line Valve

1/2-in OD Flared

### Notes:

1. Recommended Interconnecting Cable Type Stranded Bare Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.



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