


| Submittal Data: SC-36Z-HH-M4   |                           | Heat Pump System   |                           |
|--|---------------------------|--|---------------------------|
| Job Name   |                           | Location   |                           |
| Purchaser  |                           | Date   |                           |
| Submitted To   |                           | Engineer   |                           |
| Submitted To   |                           | For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |                           |
| Unit Designation   |                           | Schedule No.   |                           |
| <b>GENERAL FEATURES</b><br>-Up to Four Indoor Units (4-Port)<br>-G10 DC Inverter Technology<br>-Quiet Operation - Both Indoor & Outdoor<br>-Blue Fin Coil Coating<br>-Auto Restart on Power Outages<br>-Intelligent Defrost<br>-Multit-point Diagnostics |                           |                              |                           |
| System Ratings   |                           | Outdoor Unit Data  |                           |
| Rated Cooling Capacity   | 36,000 BTUH               | <b>Compressor</b> Type   | DC Inverter Driven Rotary |
| Cooling Capacity (min-max)   | 8,871-42,514 BTUH         | RLA  | 27.0 A                    |
| Rated Heating Capacity   | 36,000 BTUH               | Starting Current   | 5.0 A                     |
| Heating Capacity (min-max)   | 8,871-42,514 BTUH         | <b>Fan Motor</b> Output Power  | 90 W                      |
| SEER/EER   | 23.0 / 9.0                | FLA  | 1.0 A                     |
| HSPF/COP   | 10.0 / 3.21               | Air Flow (Max)   | 3,060 CFM                 |
| <b>Operating Range</b>   |                           | <b>Sound Pressure Level</b>  |                           |
| Cooling (min-max)  | 0 - 115°F<br>-18 - 46°C   | Cooling  | 62 dB(A)                  |
| Heating (min-max)  | -31 - 75°F<br>-35 - 24°C  | Heating  | 62 dB(A)                  |
| <b>Power Supply</b>  |                           | <b>Dimensions &amp; Weights</b>  |                           |
| Normal Operational Voltage   | 208/230 V, 1 Phase, 60 Hz | Unit Dimensions Overall (WxDxH)*   | 42.8 x 17.3 x 43.4 -in    |
| Voltage Range  | 187 - 253 V               | * including Valve Covers and Grilles   |                           |
| Main Power Wire Size   | 8-2 AWG                   | Weight (Net/Shipping)  | 280/298 lbs               |
| Interconnecting Cable Wire Size  | 14-4 AWG                  | Min. Number of Indoor Units  | 2                         |
| MCA  | 36.0 A                    | Max. Number of Indoor Units  | 4                         |
| MOCP/Breaker Size  | 60 A                      | <b>Refrigerant Piping Data</b>   |                           |
|  |                           | Refrigerant Type   | R410A                     |
|  |                           | Refrigerant Charge   | 158.8-oz                  |
|  |                           | Additional Charge Per Line Length  | 0.2-oz/ft                 |
|  |                           | Refrigerant Tubing Size (Flared) - 4 Ports   | 1/4 x 3/8-in              |
|  |                           | Factory Charge for Total Line Length   | 131-ft                    |
|  |                           | Total Refrigerant Pipe Length  | 246-ft                    |
|  |                           | Max Refrigerant Piping Length to any Indoor Unit   | 82-ft                     |
|  |                           | Min Refrigerant Piping Length to any Indoor Unit   | 10-ft                     |
|  |                           | Max Elevation between Indoor Units   | 49-ft                     |
|  |                           | Max Lift from Outdoor to Indoor Unit   | 49-ft                     |
|  |                           | Max Drop from Outdoor to Indoor Unit   | 49-ft                     |



| SYSTEM FEATURES                                     |                          |
|---|--------------------------|
| Compressor Type                                     | Inverter Rotary          |
| Core Technology Three Cylinder Two Stage Compressor | G10                      |
| Ultra Low Frequency Torque Control                  | YES                      |
| Power Factor Correction                             | YES                      |
| Refrigerant Type                                    | R410A                    |
| Electronic Expansion Valve (EEV)                    | 4                        |
| Basepan With Electric Heater                        | YES                      |
| Compressor Preheat                                  | YES                      |
| Compressor With Electric Heater (-40°F)             | YES                      |
| -40°F Wiring UL Approved                            | YES                      |
| Multi "Independent" Port Design                     | YES                      |
| Condenser Fan                                       | Axial                    |
| Condenser Motor Type                                | DC                       |
| Condenser Motor Drive                               | Direct                   |
| Condenser Coil                                      | Aluminum Fin/Copper Tube |
| Outdoor Fin Coating (Blue)                          | Acrylic Resin            |
| Intelligent Defrosting                              | YES                      |
| Low Voltage Startup                                 | YES                      |
| Memory/Power Failure Recovery                       | YES                      |
| Self Diagnosis                                      | YES                      |
| Ultra Heating (-31°F - 75°F)                        | YES                      |
| Ultra Cooling (0°F - 118°F)                         | YES                      |
| Wired Controller Interface                          | YES                      |

|  |  |
|--|--|
| REMOTE CONTROLLER FUNCTIONS <sup>1</sup> | See individual Indoor Unit Controllers Functions |
|--|--|

<sup>1</sup> Not all Remote Controller functions are supported.

| WIRED CONTROLLER FUNCTIONS <sup>2</sup> |     |
|---|-----|
| On/Off                                  | YES |
| Operating Mode                          | YES |
| Fan Speed                               | YES |
| Room Setpoint                           | YES |
| Model Numbers                           | YES |
| Timer Mode                              | YES |
| Sleep Mode                              | YES |
| Turbo Mode                              | YES |
| X-Fan Mode                              | YES |
| Privacy Lock                            | YES |

<sup>2</sup> Note: Some indoor models may not support specific system features or functions.

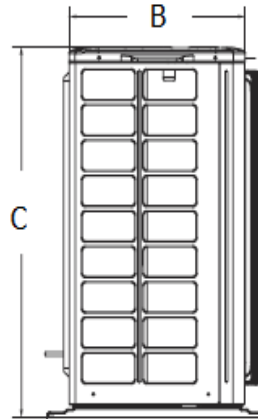
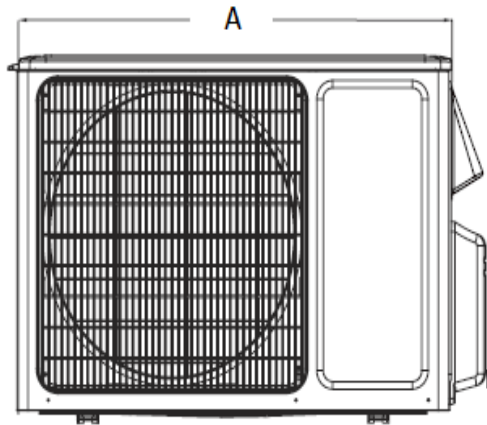
# OUTDOOR UNIT DIMENSIONAL SPECIFICATIONS

**SC-36Z-HH-M4**

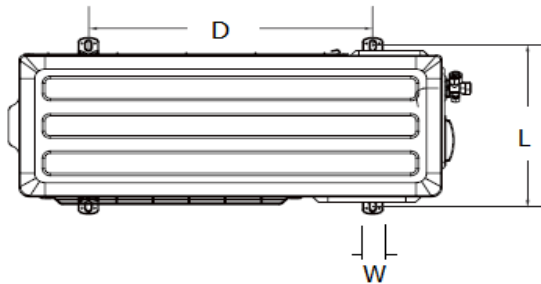
Units: inch

## 36,000 BTUH MODEL

Model # MULTIU36HP230V1DO 36,000 BTUH 230V



|        |      |
|--------|------|
| A (in) | 40   |
| B (in) | 17.3 |
| C (in) | 43.5 |



|        |      |
|--------|------|
| D (in) | 24.8 |
| L (in) | 16.2 |
| W (in) | 3.1  |

### Suction/Gas Line Port Size

|        |                  |
|--------|------------------|
| Port A | 3/8-in OD Flared |
| Port B | 3/8-in OD Flared |
| Port C | 3/8-in OD Flared |
| Port D | 3/8-in OD Flared |

Weight (Net/Shipping) 280/298 lbs

### Factory Supplied Piping Adapters

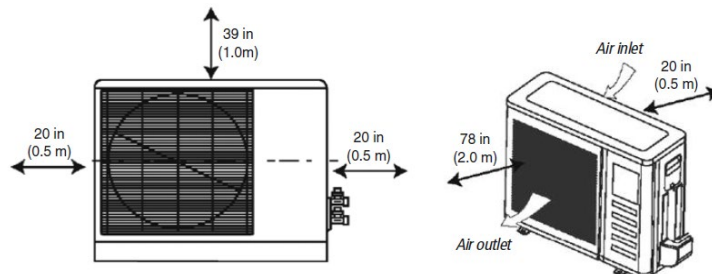
| Adapter            | P/N        | Qty |
|--------------------|------------|-----|
| 3/8 (F) to 5/8 (M) | 6654100009 | 3   |
| 3/8 (F) to 1/2 (M) | 6654100013 | 4   |
| 1/4 (F) to 3/8 (M) | 6654104    | 2   |

### Liquid Line Port Size

|        |                  |
|--------|------------------|
| Port A | 1/4-in OD Flared |
| Port B | 1/4-in OD Flared |
| Port C | 1/4-in OD Flared |
| Port D | 1/4-in OD Flared |

## MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



### Notes:

1. Recommended Interconnecting Cable Type Stranded Copper Conductors THHN 600V Unshielded 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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**COOLING PERFORMANCE (BtuH)\***

| Outdoor Ambient Temperature (DB) °F | Indoor Entering Air Temperatures |       |         |       |         |        |
|-------------------------------------|----------------------------------|-------|---------|-------|---------|--------|
|                                     | 68F DB                           |       | 73°F DB |       | 80°F DB |        |
|                                     | 57F WB                           |       | 61°FWB  |       | 67°FWB  |        |
|                                     | TC                               | SHC   | TC      | SHC   | TC      | SHC    |
| 0°F                                 | 21827                            | 16500 | 22800   | 18000 | 24000   | 19500  |
| 5°F                                 | 21927                            | 17196 | 23181   | 18162 | 25527   | 20029  |
| 14°F                                | 22968                            | 18014 | 24264   | 19023 | 27384   | 21478  |
| 23°F                                | 25164                            | 19740 | 26916   | 21113 | 30840   | 24188  |
| 32°F                                | 25758                            | 45964 | 27663   | 49363 | 31994   | 57088  |
| 41°F                                | 23613                            | 65750 | 25520   | 71058 | 29746   | 82822  |
| 50°F                                | 21549                            | 81552 | 23437   | 88695 | 27533   | 104195 |
| 59°F                                | 30516                            | 23933 | 32640   | 25598 | 35748   | 28029  |
| 68°F                                | 34560                            | 27106 | 36720   | 28795 | 39240   | 30776  |
| 77°F                                | 34152                            | 26790 | 36324   | 28491 | 38880   | 30497  |
| 86°F                                | 32472                            | 25465 | 34632   | 27166 | 37800   | 29646  |
| 95°F                                | 30732                            | 24103 | 32880   | 25781 | 36000   | 28236  |
| 104°F                               | 29244                            | 22936 | 31380   | 24614 | 35064   | 27507  |
| 113°F                               | 27744                            | 21757 | 29880   | 23435 | 33576   | 26328  |

**HEATING PERFORMANCE (BtuH)\***

| Outdoor Ambient Temperature (DB) | Indoor Entering Air Temperatures |                  |      |         |                  |      |         |                  |      |
|----------------------------------|----------------------------------|------------------|------|---------|------------------|------|---------|------------------|------|
|                                  | 68°F DB                          |                  |      | 73°F DB |                  |      | 80°F DB |                  |      |
|                                  | 57°FWB                           |                  |      | 61°FWB  |                  |      | 67°FWB  |                  |      |
|                                  | TC                               | Power Input (KW) | COP  | TC      | Power Input (KW) | COP  | TC      | Power Input (KW) | COP  |
| -31°F                            | 23000                            | 5.50             | 1.23 | 24000   | 5.72             | 1.23 | 24500   | 5.85             | 1.23 |
| -22°F                            | 25563                            | 5.57             | 1.34 | 25910   | 5.73             | 1.33 | 24899   | 5.91             | 1.24 |
| -13°F                            | 28859                            | 5.65             | 1.50 | 28373   | 5.81             | 1.43 | 27293   | 5.99             | 1.33 |
| -5°F                             | 33638                            | 5.64             | 1.75 | 33072   | 5.79             | 1.67 | 31837   | 5.98             | 1.56 |
| 0°F                              | 36089                            | 5.73             | 1.85 | 35488   | 5.89             | 1.77 | 34105   | 6.08             | 1.64 |
| 5°F                              | 36259                            | 5.70             | 1.86 | 35648   | 5.86             | 1.78 | 34291   | 6.05             | 1.66 |
| 10°F                             | 39753                            | 5.76             | 2.02 | 39091   | 5.92             | 1.94 | 37581   | 6.11             | 1.80 |
| 17°F                             | 41794                            | 5.72             | 2.14 | 41097   | 5.88             | 2.05 | 39475   | 6.06             | 1.91 |
| 19°F                             | 41758                            | 5.50             | 2.23 | 41075   | 5.65             | 2.13 | 39443   | 5.83             | 1.98 |
| 24°F                             | 40398                            | 5.42             | 2.18 | 39787   | 5.58             | 2.09 | 38397   | 5.75             | 1.96 |
| 32°F                             | 39260                            | 5.19             | 2.22 | 38728   | 5.33             | 2.13 | 37514   | 5.50             | 2.00 |
| 41°F                             | 40725                            | 5.11             | 2.33 | 40247   | 5.26             | 2.24 | 39090   | 5.42             | 2.11 |
| 43°F                             | 41822                            | 5.10             | 2.40 | 41330   | 5.24             | 2.31 | 40199   | 5.41             | 2.18 |
| 47°F                             | 45450                            | 5.22             | 2.55 | 44663   | 5.36             | 2.44 | 42837   | 5.53             | 2.27 |
| 53°F                             | 45900                            | 4.74             | 2.84 | 45098   | 4.87             | 2.71 | 43272   | 5.03             | 2.52 |
| 59°F                             | 42259                            | 4.78             | 2.59 | 41513   | 4.92             | 2.47 | 39818   | 5.07             | 2.30 |
| 64°F                             | 43158                            | 4.39             | 2.88 | 42398   | 4.51             | 2.75 | 40678   | 4.65             | 2.56 |
| 70°F                             | 43968                            | 4.46             | 2.89 | 43208   | 4.58             | 2.76 | 41437   | 4.73             | 2.57 |
| 75°F                             | 44588                            | 4.07             | 3.21 | 43803   | 4.19             | 3.07 | 42031   | 4.32             | 2.85 |
| 78°F                             | 44993                            | 4.11             | 3.21 | 44208   | 4.22             | 3.07 | 42411   | 4.36             | 2.85 |

\* Maximum system capacity  
 TC- Total Capacity ( BtuH)  
 COP- Coefficient of Performance

\* Maximum system capacity  
 TC- Total Capacity ( BtuH)  
 COP- Coefficient of Performance

COOLING CAPACITY (BTUH)

| Indoor Units Combinations | Rated System (BtuH) | Indoor Unit A (BtuH) | Indoor Unit B (BtuH) | Indoor Unit C (BtuH) | Indoor Unit D (BtuH) |
|---------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| 9+9                       | 18,000              | 9,000                | 9,000                | NA                   | NA                   |
| 9+12                      | 21,000              | 9,000                | 12,000               | NA                   | NA                   |
| 9+18                      | 26,000              | 8,000                | 18,000               | NA                   | NA                   |
| 9+24                      | 29,000              | 9,000                | 20,000               | NA                   | NA                   |
| 12+12                     | 24,000              | 12,000               | 12,000               | NA                   | NA                   |
| 12+18                     | 27,000              | 10,000               | 17,000               | NA                   | NA                   |
| 12+24                     | 31,000              | 11,000               | 20,000               | NA                   | NA                   |
| 18+18                     | 31,000              | 15,500               | 15,500               | NA                   | NA                   |
| 18+24                     | 35,000              | 15,000               | 20,000               | NA                   | NA                   |
| 24+24                     | 38,000              | 19,000               | 19,000               | NA                   | NA                   |
| 9+9+9                     | 27,000              | 9,000                | 9,000                | 9,000                | NA                   |
| 9+9+12                    | 29,000              | 9,000                | 9,000                | 11,000               | NA                   |
| 9+9+18                    | 33,000              | 8,500                | 8,500                | 16,000               | NA                   |
| 9+9+24                    | 37,000              | 8,500                | 8,500                | 20,000               | NA                   |
| 9+12+12                   | 32,000              | 8,000                | 12,000               | 12,000               | NA                   |
| 9+12+18                   | 36,000              | 9,000                | 12,000               | 15,000               | NA                   |
| 9+12+24                   | 37,500              | 7,500                | 10,000               | 20,000               | NA                   |
| 9+18+18                   | 37,500              | 7,500                | 15,000               | 15,000               | NA                   |
| 9K+18K+24K                | 39,500              | 9,000                | 13,500               | 17,000               | NA                   |
| 12+12+12                  | 33,000              | 11,000               | 11,000               | 11,000               | NA                   |
| 12+12+18                  | 37,000              | 10,500               | 10,500               | 16,000               | NA                   |
| 12+12+24                  | 38,000              | 9,500                | 9,500                | 19,000               | NA                   |
| 12+18+18                  | 38,000              | 9,000                | 14,500               | 14,500               | NA                   |
| 12K+18K+24K               | 39,500              | 10,000               | 13,000               | 16,500               | NA                   |
| 18K+18K+18K               | 39,600              | 13,200               | 13,200               | 13,200               | NA                   |
| 9+9+9+9                   | 36,000              | 9,000                | 9,000                | 9,000                | 9,000                |
| 9+9+9+12                  | 36,500              | 8,500                | 8,500                | 8,500                | 11,000               |
| 9+9+9+18                  | 37,500              | 7,500                | 7,500                | 7,500                | 15,000               |
| 9+9+9+24                  | 39,500              | 8,000                | 8,000                | 8,000                | 15,500               |
| 9+9+12+12                 | 37,000              | 8,500                | 8,500                | 10,000               | 10,000               |
| 9+9+12+18                 | 38,000              | 7,500                | 7,500                | 9,000                | 14,000               |
| 9K+9K+12K+24K             | 40,000              | 7,000                | 7,000                | 9,000                | 17,000               |
| 9+9+18+18                 | 40,000              | 7,000                | 7,000                | 13,000               | 13,000               |
| 9+12+12+12                | 37,500              | 7,500                | 10,000               | 10,000               | 10,000               |
| 9K+12K+12K+18K            | 39,500              | 8,000                | 9,000                | 9,000                | 13,500               |
| 12+12+12+12               | 38,000              | 9,500                | 9,500                | 9,500                | 9,500                |
| 12+12+12+18               | 40,000              | 9,000                | 9,000                | 9,000                | 13,000               |

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HEATING CAPACITY (BTUH)

| Indoor Units Combinations | Rated System Capacity (BtuH) | Indoor Unit A (BtuH) | Indoor Unit B (BtuH) | Indoor Unit C (BtuH) | Indoor Unit D (BtuH) |
|---------------------------|------------------------------|----------------------|----------------------|----------------------|----------------------|
| 9+9                       | 18,000                       | 9,000                | 9,000                | NA                   | NA                   |
| 9+12                      | 21,000                       | 9,000                | 12,000               | NA                   | NA                   |
| 9+18                      | 26,000                       | 8,000                | 18,000               | NA                   | NA                   |
| 9+24                      | 30,000                       | 9,000                | 21,000               | NA                   | NA                   |
| 12+12                     | 24,000                       | 12,000               | 12,000               | NA                   | NA                   |
| 12+18                     | 30,000                       | 12,000               | 18,000               | NA                   | NA                   |
| 12+24                     | 31,000                       | 11,000               | 20,000               | NA                   | NA                   |
| 18+18                     | 31,000                       | 15,500               | 15,500               | NA                   | NA                   |
| 18+24                     | 37,000                       | 17,000               | 20,000               | NA                   | NA                   |
| 24+24                     | 40,000                       | 20,000               | 20,000               | NA                   | NA                   |
| 9+9+9                     | 27,000                       | 9,000                | 9,000                | 9,000                | NA                   |
| 9+9+12                    | 29,000                       | 9,000                | 9,000                | 11,000               | NA                   |
| 9+9+18                    | 34,500                       | 9,000                | 9,000                | 16,500               | NA                   |
| 9+9+24                    | 37,000                       | 8,500                | 8,500                | 20,000               | NA                   |
| 9+12+12                   | 31,000                       | 9,000                | 11,000               | 11,000               | NA                   |
| 9+12+18                   | 36,000                       | 8,500                | 11,500               | 16,000               | NA                   |
| 9+12+24                   | 39,000                       | 8,000                | 11,000               | 20,000               | NA                   |
| 9+18+18                   | 39,000                       | 8,000                | 15,500               | 15,500               | NA                   |
| 9K+18K+24K                | 41,000                       | 8,000                | 15,000               | 18,000               | NA                   |
| 12+12+12                  | 34,500                       | 11,500               | 11,500               | 11,500               | NA                   |
| 12+12+18                  | 37,000                       | 11,000               | 11,000               | 15,000               | NA                   |
| 12+12+24                  | 40,000                       | 10,000               | 10,000               | 20,000               | NA                   |
| 12+18+18                  | 40,000                       | 10,000               | 15,000               | 15,000               | NA                   |
| 12K+18K+24K               | 42,500                       | 10,000               | 14,500               | 18,000               | NA                   |
| 18K+18K+18K               | 42,000                       | 14,000               | 14,000               | 14,000               | NA                   |
| 9+9+9+9                   | 36,000                       | 9,000                | 9,000                | 9,000                | 9,000                |
| 9+9+9+12                  | 36,500                       | 8,500                | 8,500                | 8,500                | 11,000               |
| 9+9+9+18                  | 39,000                       | 8,000                | 8,000                | 8,000                | 15,000               |
| 9+9+9+24                  | 41,500                       | 8,000                | 8,000                | 8,000                | 17,500               |
| 9+9+12+12                 | 38,000                       | 8,000                | 8,000                | 11,000               | 11,000               |
| 9+9+12+18                 | 40,000                       | 7,500                | 7,500                | 10,000               | 15,000               |
| 9K+9K+12K+24K             | 42,500                       | 8,000                | 8,000                | 9,500                | 17,000               |
| 9+9+18+18                 | 42,000                       | 8,000                | 8,000                | 13,000               | 13,000               |
| 9+12+12+12                | 38,900                       | 8,000                | 10,300               | 10,300               | 10,300               |
| 9K+12K+12K+18K            | 41,500                       | 7,500                | 10,000               | 10,000               | 14,000               |
| 12+12+12+12               | 40,000                       | 10,000               | 10,000               | 10,000               | 10,000               |
| 12+12+12+18               | 42,500                       | 9,500                | 9,500                | 9,500                | 14,000               |

Note:

- 1) It is critical to size the outdoor unit for the entire building load and each indoor unit for its individual zone load.