

**Submittal Data: SC-36CD-UM / SC-36Z-UM** 36000 BTUH Slim Duct Heat Pump System

|                  |  |      |
|------------------|--|------|
| Job Name         | Location   | Date |
| Purchaser        | Engineer   |      |
| Submitted To     | For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |      |
| Unit Designation | Schedule No.   |      |

- GENERAL FEATURES**
- Multi-Speed Fan
  - Medium Static Pressure Capability
  - Return Air From Rear Only
  - Internal Condensate Drain Pump
  - Sentry Condensate Overflow Protection
  - Wired Remote Controllers
  - Acrylic Resin/Anti-Corrosion Fin Coating


**System Ratings**

|                                |       |                   |
|--------------------------------|-------|-------------------|
| <b>Cooling</b>                 |       |                   |
| Rated Capacity                 |       | 34000 BTU/H       |
| Capacity Range                 |       | 10800-39000 BTU/H |
| Power Input (Max)              |       | 4500 W            |
| SEER                           |       | 16.0              |
| EER                            |       | 10.4              |
| <b>Heating at 47° F</b>        |       |                   |
| Rated Capacity                 |       | 41000 BTU/H       |
| Capacity Range                 |       | 9800-49500 BTU/H  |
| Power Input (Max)              |       | 4600 W            |
| HSPF                           |       | 9.0               |
| COP                            |       | 3.2               |
| <b>Heating at 17° F</b>        |       |                   |
| Rated Capacity                 |       | 24600 BTU/H       |
| <b>Operating Range</b>         |       |                   |
| Cooling                        | (Max) | 118°F (48°C)      |
|                                | (Min) | 0°F (-18°C)       |
| Heating                        | (Max) | 75°F (24°C)       |
|                                | (Min) | 0°F (-18°C)       |
| <b>Refrigerant Piping Data</b> |       |                   |
| Gas Pipe Size (OD)             |       | 5/8-in            |
| Liquid Pipe Size (OD)          |       | 3/8-in            |
| Connection Method              |       | Flared            |
| Factory Charge                 |       | 123.2 oz          |
| Additional Charge              |       | 0.6 oz/ft         |
| Pre-Charge Length              |       | 25-ft             |
| MAX Refrigerant Pipe Length    |       | 164-ft            |
| MIN Refrigerant Pipe Length    |       | 10-ft             |
| MAX Refrigerant Pipe Elevation |       | 49-ft             |

**Indoor Unit Data**

|  |                            |                           |
|--|----------------------------|---------------------------|
| <b>Fan Motor</b>   | Output Power               | 249 W                     |
|  | FLA                        | 2.1 A                     |
| <b>Airflow</b>   |                            |                           |
|  | Cooling Wet (Lo/Hi)        | 950/1175 CFM              |
|  | Heating Dry (Lo/Hi)        | 950/1175 CFM              |
| <b>Sound Power Level</b>                                     |                            |                           |
|  | Cooling (Min/Max)          | 44/52 dB(A)               |
|  | Heating (Min/Max)          | 44/52 dB(A)               |
| <b>Dehumidification</b>                                      |                            |                           |
|  |                            | 1.28 pt/hr                |
| <b>Condensate Drain Lift (Height)</b>                        |                            |                           |
|  |                            | 33-in                     |
| <b>Power Supply (Dedicated Circuit: Size Per Local Code)</b> |                            |                           |
|  | Normal Operational Voltage | 208/230 V, 1 Phase, 60 Hz |
|  | Voltage Range              | 187 - 253 V               |
|  | MCA                        | 3 A                       |
|  | MOCP/Breaker Size          | 15A                       |
| <b>Communication Wire Size</b>                               |                            |                           |
|  |                            | 18-2 AWG / 300V THHN      |

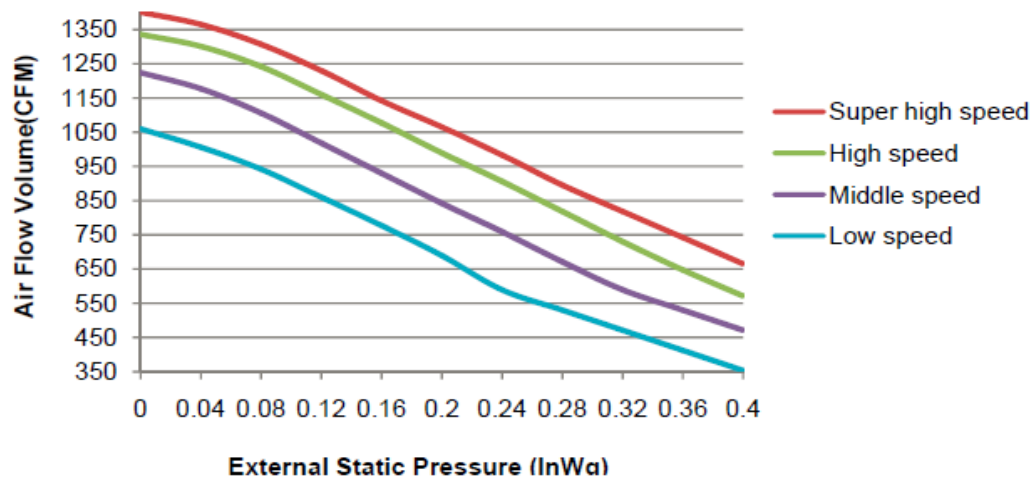
**Outdoor Unit Data**

|   |                            |                           |
|---|----------------------------|---------------------------|
| <b>Compressor</b>                       |                            | DC Inverter Driven Rotary |
|   | RLA                        | 21.2 A                    |
| <b>Refrigerant Type</b>                 |                            | R410A                     |
| <b>Fan Motor</b>                        | Output Power               | 2/9HP                     |
|   | FLA                        | 2.0 A                     |
| <b>Sound Power Level</b>                |                            |                           |
|   | Cooling/Heating            | 63/63 dB(A)               |
| <b>Power Supply (Dedicated Circuit)</b> |                            |                           |
|   | Normal Operational Voltage | 208/230 V, 1 Phase, 60 Hz |
|   | Voltage Range              | 187 - 253 V               |
|   | Main Supply Wire Size      | 8 AWG                     |
|   | MCA                        | 27.7 A                    |
|   | MOCP/Breaker Size          | 45 A                      |

| SYSTEM FEATURES                    |               |
|------------------------------------|---------------|
| Inverter Type                      | G10           |
| Ultra Low Frequency Torque Control | YES           |
| Power Factor Correction            | YES           |
| Compressor Type                    | Rotary        |
| Refrigerant Type                   | R410A         |
| Basepan With Electric Heater       | YES           |
| Compressor With Electric Heater    | NO            |
| Outdoor Fin Coating                | Acrylic Resin |
| Intelligent Defrosting             | YES           |
| Intelligent Preheating             | YES           |
| Low Voltage Startup                | YES           |
| Memory/Power Failure Recovery      | YES           |
| Self Diagnosis                     | YES           |
| Low Ambient Cooling                | YES           |
| Internal Condensate Pump           | YES           |
| XK60 Wired Controller Interface    | YES           |
| Wi-Fi Interface                    | NO            |
| Indoor Fan Type                    | Centrifugal   |
| Multi Fan Speeds                   | 3 Speeds      |
| LED Display Indoor Unit            | NO            |
| Advance Filter                     | NO            |
| Auxiliary Electrical Heater        | NO            |
| Ventilation (Outdoor Air)          | Optional      |

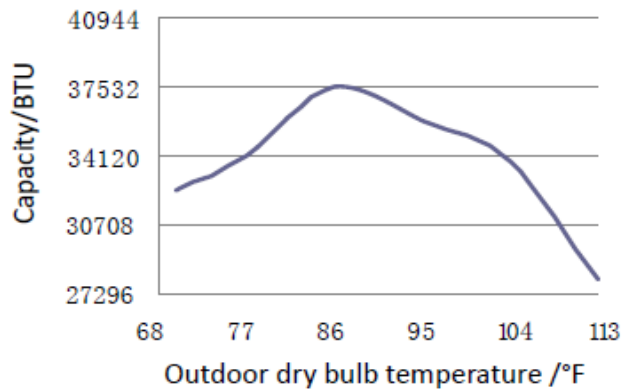
| WIRED CONTROLLER FUNCTIONS        |     |
|-----------------------------------|-----|
| Auto Mode                         | YES |
| Auto Fan                          | YES |
| Auto Swing (Continuous Sweep)     | NO  |
| Adjustable Swing Louvers (5 pos.) | NO  |
| Clock on Remote Controller        | YES |
| Dry Mode                          | YES |
| Dry Anti-Mildew (X-Fan) Mode      | YES |
| Energy Saving Mode                | NO  |
| Dirty Filter Alert                | NO  |
| I Feel Function                   | YES |
| Lock on Wired Controller          | YES |
| Quiet Mode                        | NO  |
| Room Temperature Display (5 sec.) | YES |
| Sleep Mode                        | YES |
| Timer Mode                        | YES |
| Turbo Mode                        | YES |
| Display On/Off Control            | NO  |
| Freeze Guard Mode                 | YES |

**FAN PERFORMANCE CURVES**

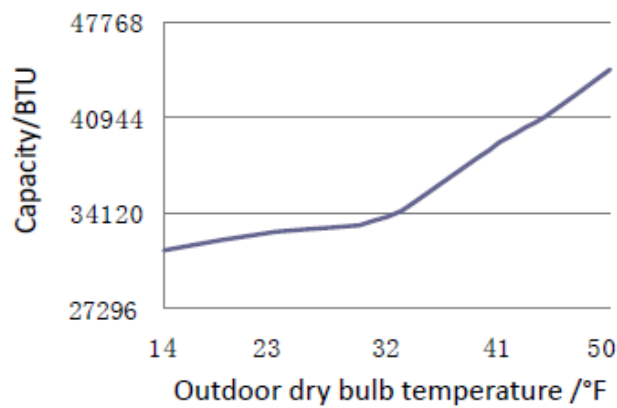


**EXTENDED RATINGS**

**COOLING PERFORMANCE**



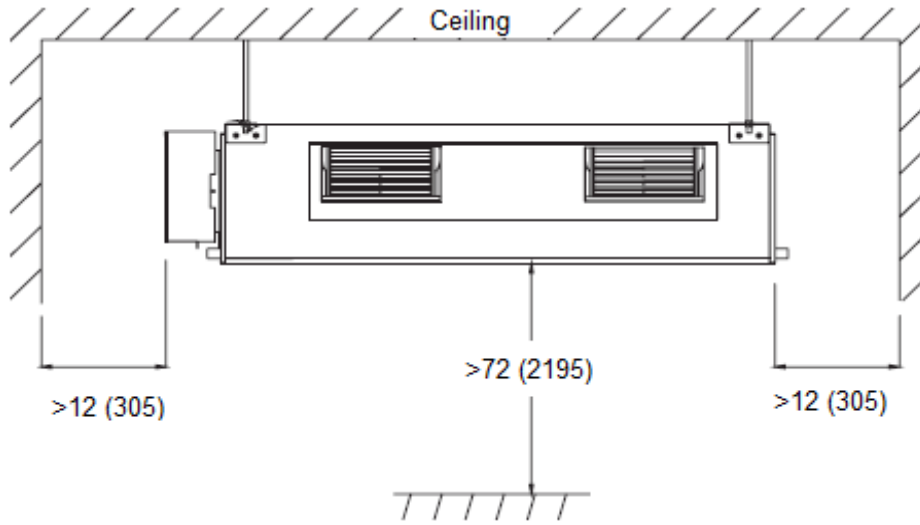
**HEATING PERFORMANCE**



**MINIMUM SPACING REQUIREMENTS**

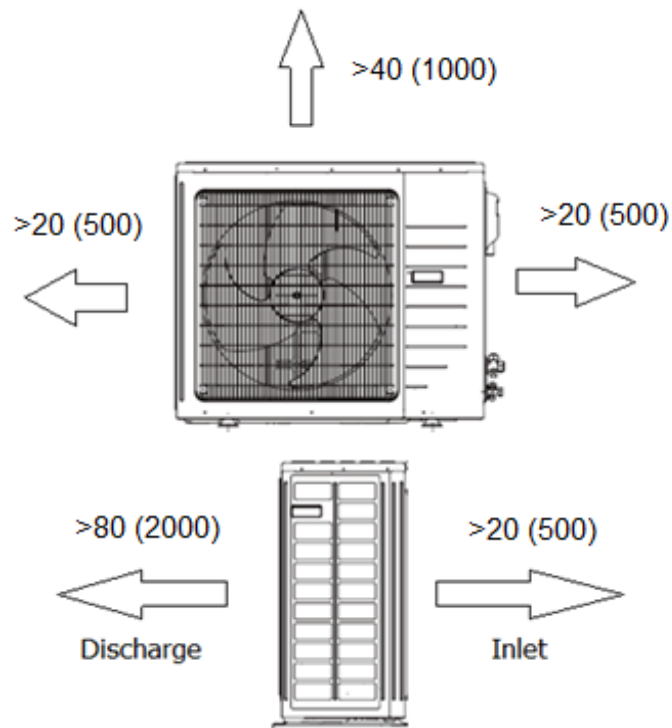
Units: inch (mm)

**INDOOR**



Units: inch (mm)

**OUTDOOR**

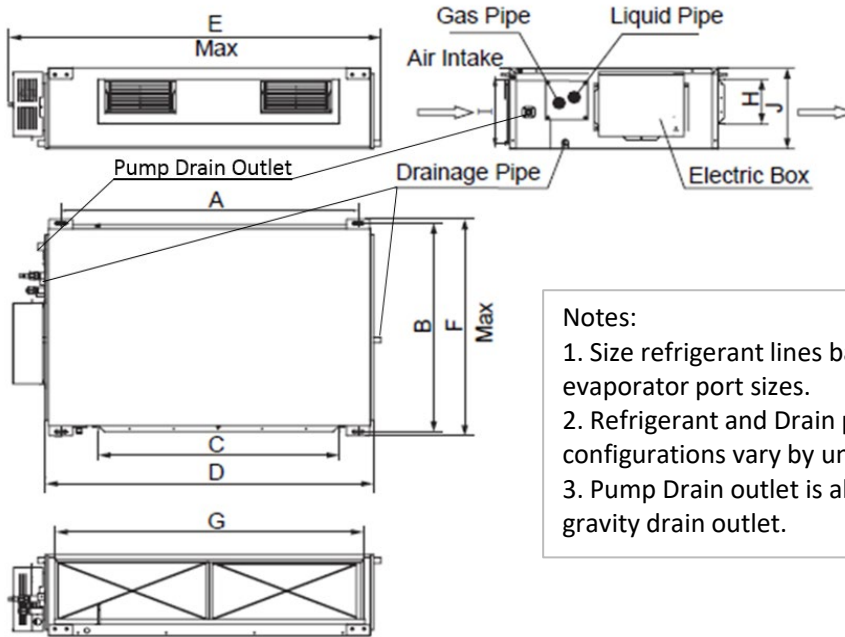


## DIMENSIONAL SPECIFICATIONS

**SC-36CD-UM**

### INDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



**Notes:**

1. Size refrigerant lines based on evaporator port sizes.
2. Refrigerant and Drain pipe configurations vary by unit size.
3. Pump Drain outlet is above gravity drain outlet.

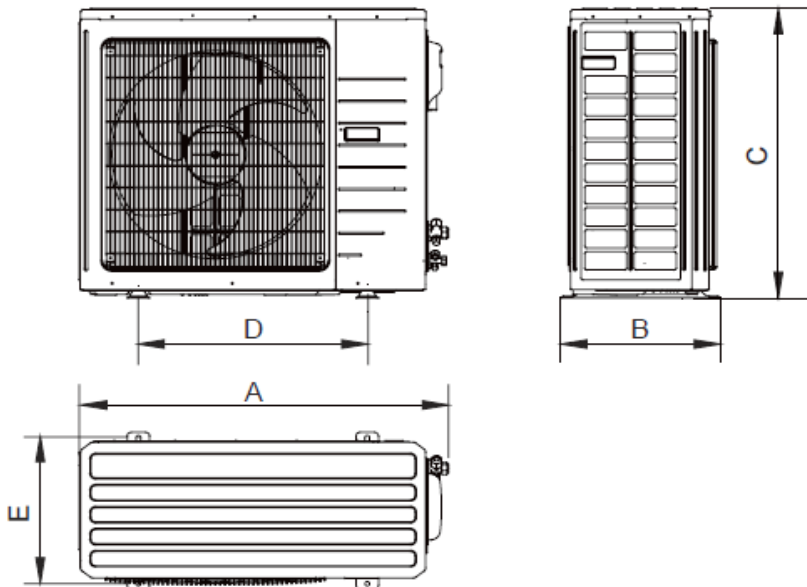
|   |        |        |
|---|--------|--------|
| A | 39.75  | (1011) |
| B | 29.5   | (748)  |
| C | 32.25  | (820)  |
| D | 43.875 | (1115) |
| E | 48.25  | (1226) |
| F | 30.5   | (775)  |
| G | 38.5   | (979)  |
| H | 6.25   | (160)  |
| I | 9.125  | (231)  |
| J | 11.375 | (290)  |

|                 |            |
|-----------------|------------|
| Net Weight      | 101.2` lbs |
| Shipping Weight | 116.6 lbs  |

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 3/8-in OD Flared |
| Gas Line Valve    | 5/8-in OD Flared |
| Drain Connector   | 13/16 in OD      |

### OUTDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



|   |        |        |
|---|--------|--------|
| A | 43.625 | (1107) |
| B | 17.375 | (440)  |
| C | 43.25  | (1100) |
| D | 24.875 | (631)  |
| E | 15.75  | (400)  |

|                 |           |
|-----------------|-----------|
| Net Weight      | 204.6 lbs |
| Shipping Weight | 222.2 lbs |

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 3/8-in OD Flared |
| Gas Line Valve    | 5/8-in OD Flared |

**Notes:**

1. Recommended Communication Wire Type 18-2 AWG Stranded Copper THHN 300V Wire
2. Power wiring size must comply with applicable national and local codes for both ID and OD dedicated circuits.
3. Test conditions are based on AHRI 210/240.

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