

# Submittal Data

## VVCD030S6-5P VRF Vertical Air Handler

Job Name: \_\_\_\_\_  
 Purchaser: \_\_\_\_\_  
 Submitted to: \_\_\_\_\_  
 Unit designation: \_\_\_\_\_

Location: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Reference \_\_\_\_\_ Approval \_\_\_\_\_ Construction \_\_\_\_\_  
 Schedule #: \_\_\_\_\_

### General Information

- Compatible with R-32 VRF air, water, and mini-VRF systems.
- The system shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.

### Construction

- Insulated, galvanized steel.

### Refrigerant System

- The heat exchanger shall be mechanically bonded aluminum fin to copper tube.
- Refrigerant flow shall be controlled by electronic an expansion valve at the indoor unit.
- The indoor unit shall include an R32 alarm output plug for simple notification or interlock of third-party equipment upon R32 leak detection (VSTAT10P-1 accessory required).

### Indoor Fan

- Three fan speeds and auto setting.

### Controls

- Control wiring shall be 2 X 16 AWG wire.
- The unit shall be operated via a wired remote controller model VSTAT04P-1, purchased separately.
- Dual set temperature support when connected to supported controllers.
- Wired or wireless controllers must be purchased separately.

### External Heat Control

- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat (VSTAT10P-1 accessory required when controlling heating devices other than V1EHK0\*-1P electric heat kits).
- External heat control configuration settings include outside ambient external heat lockout, outside ambient compressor lockout, and time delay options (VSTAT10P-1 accessory required when controlling heating devices other than V1EHK0\*-1P electric heat kits).
- Emergency heat functionality allows the system to continue controlling the external heat source even when system errors prevent the heat pump from operating (VSTAT10P-1 accessory required when controlling heating devices other than V1EHK0\*-1P electric heat kits).
- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat.
- Emergency heat functionality allows the system to continue controlling the external heat source even when system errors prevent the heat pump from operating.

### Convenience

- Emergency Temperature Output (ETO) function: when indoor unit is in error status or when room temperature exceeds configurable temperature level, the system outputs a signal to an external source, e.g., backup system, building management system, alert device (ex: status light, warning lamp, buzzer).



# Specifications **VVCD030S6-5P**

|                      |                          |                   |   |
|----------------------|--------------------------|-------------------|---|
| Model                | Indoor Unit Model Number |                   | VVCD030S6-5P  |
| Performance          | Nominal Capacity         | Cooling (Btu/h)   | 30,000  |
|                      |                          | Heating (Btu/h)   | 34,000  |
| Power                | Voltage                  | ø / V / Hz        | 1 / 208-230 / 60  |
|                      | Operating Current (max.) | Cooling (A)       | 1.58  |
|                      |                          | Heating (A)       | 1.58  |
|                      | MCA                      | A                 | 2.4   |
|                      | MOP                      | A                 | 15  |
| Evaporator Fan       | Type                     |                   | Constant Torque With Double-inlet, Forward Curve, Centrifugal Fan |
|                      | Consumption              | Watts             | 410   |
|                      | External Static Pressure | Standard ("WC)    | 0.40  |
|                      |                          | Min. / Max. ("WC) | 0.1 / 1   |
| Airflow              | Air Volume (L/M/H/Turbo) | Cooling (CFM)     | 766 / 932 / 1,052   |
|                      |                          | Heating (CFM)     | 766 / 932 / 1,052   |
| Refrigerant          | Type                     |                   | R-32  |
|                      | A2L Leak Detection       |                   | Integral  |
| Pipe Connections     | Refrigerant              | High side         | 3/8   |
|                      |                          | Low side          | 5/8   |
|                      | Condensate               |                   | 3/4" FNPT   |
| Dimensions           | W X H X D                | In.               | 21 X 48 X 21  |
|                      | Weight                   | lbs.              | 124.00  |
|                      | Duct Connections (W X H) | Supply (in.)      | 12 1/2 X 18 3/4   |
|                      |                          | Return (ID, in.)  | 21 X 21   |
| Sound Pressure Level | Low / Med. / High        | dB(A)             | 38 / 40 / 42  |
| Safety               | Certifications           |                   | UL 60335-2-40   |

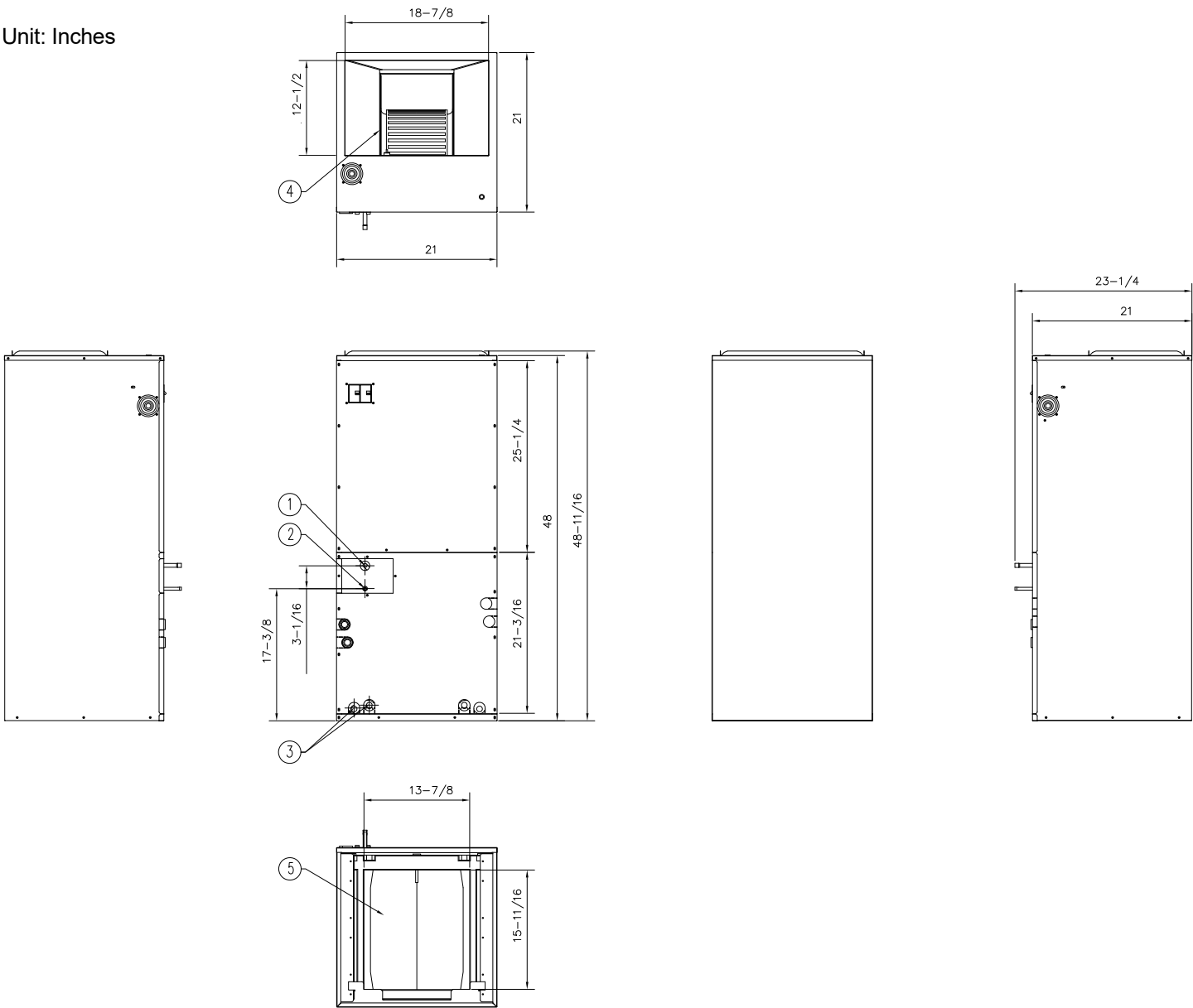
# Accessories **VVCD030S6-5P**

|   |                          |                             |
|---|--------------------------|-----------------------------|
| Filter box  |                          | V1FBS02-4P                  |
| Wired controller  | Advanced                 | VSTAT04P-1                  |
|   | Touchscreen              | VSTAT02P-1                  |
| Thermostat adapter (for connection to standard 24VAC thermostats) |                          | VSTAT09P-1                  |
| Wireless signal control   | Wireless signal receiver | VCTRL10P-1                  |
|   | Wireless controller      | VSTAT01P-1                  |
| External temperature sensor                                       |                          | VCTRL11P-1                  |
| External contact control interface module                         |                          | VSTAT10P-1                  |
| CN83 Pigtail (for 12VDC VENT output)                              |                          | JV DB39-01263A CN83 Pigtail |
| Supplemental electric heat kit                                    | 5kW                      | V1EHK03-1P                  |
|   | 10kW                     | V1EHK04-1P                  |

# Dimensional Drawing

## VVCD030S6-5P

Unit: Inches



| No. | Description                          |
|-----|--------------------------------------|
| 1   | Gas pipe connection (braze) (5/8)    |
| 2   | Liquid pipe connection (braze) (3/8) |
| 3   | Drain pipe connection                |
| 4   | Air outlet opening                   |
| 5   | Air inlet opening                    |