

## Samsung DVM S Series Multiposition Air Handler Unit

Job Name \_\_\_\_\_  
 Purchaser \_\_\_\_\_  
 Submitted to \_\_\_\_\_  
 Unit Designation \_\_\_\_\_

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

### Specifications

|                          |                                  |                 |                                          |
|--------------------------|----------------------------------|-----------------|------------------------------------------|
| Performance              | Nominal Capacity (Btu/h)         | Cooling         | 18,000                                   |
|                          |                                  | Heating         | 22,000                                   |
| Power                    | Voltage                          | ø / V / Hz      | 1 / 208-230 / 60                         |
|                          | Nominal Input Current*           | Cooling (A)     | 0.74                                     |
|                          | MCA*                             | Amps            | 0.90                                     |
|                          | MOCP*                            | Amps            | 10                                       |
| Fan                      | Type                             |                 | Double-inlet, forward curve, centrifugal |
|                          | Motor                            | Type            | Constant-torque (ECM)                    |
|                          |                                  | HP              | 1/3                                      |
|                          |                                  | Output (W)      | 290                                      |
| Airflow                  | CFM @ 0.4" ESP (UL)              | Standard (high) | 531                                      |
|                          |                                  | Thermal-OFF     | 467                                      |
| External Static Pressure | Standard                         | "WC             | 0.4                                      |
|                          | Min. / Max.                      | "WC             | 0.1 / 0.7                                |
| Refrigerant              | Type                             |                 | R410A                                    |
|                          | Control Method                   |                 | Electronic Expansion Valve               |
| Piping Connections       | Liquid                           | Inches          | 1/4                                      |
|                          | Suction                          | Inches          | 1/2                                      |
|                          | Drain                            | Inches          | 3/4" FNPT                                |
| Unit Dimensions          | W X H X D                        | Inches          | 17 1/2 X 43 X 21                         |
|                          | Weight                           | lbs.            | 101                                      |
| Sound Level              | High                             | dB              | 39                                       |
| Accessories              | Filter Base W/1" Filter          |                 | <input type="checkbox"/> VFB-1           |
|                          | External Temperature Sensor      |                 | <input type="checkbox"/> MRW-TA          |
|                          | Supplemental Electric Heater Kit | 3Kw             | <input type="checkbox"/> VHK-103A        |
|                          |                                  | 5Kw             | <input type="checkbox"/> VHK-105A        |
|                          | Downflow Conversion Kit          |                 | <input type="checkbox"/> VDK-1           |
|                          | Plug for 12VDC Output            |                 | <input type="checkbox"/> DB93-16402A     |
|                          | EEV Extension Wire Harness**     |                 | <input type="checkbox"/> DB82-05832A     |
| Safety Certifications    |                                  |                 | ETL (UL 1995)                            |



- Compatible with Samsung DVM S, DVM S Water, and DVM Eco systems (AM\*\*\*\*\*/AA).
- High-voltage terminal block temperature sensor to disable unit in the event overheating of controls power connection.
- Multiposition - vertical, horizontal left, and horizontal right.
- Capable of being field convertible to downflow configuration with optional downflow conversion kit.
- Air handler has an air leakage of no more than 2 percent of the design air flow rate when tested in accordance with ASHRAE 193.

### Construction

The unit shall be constructed of insulated, powder coated, galvanized steel

### Heat Exchanger

The heat exchanger shall be mechanically bonded fin to copper tube

### Indoor Fan

Indoor fan is a double-inlet, forward curve, centrifugal type with a single constant-torque (ECM) fan motor

Two operating fan speeds (standard/reduced)

Five fan speed taps for optional air flow setting during installation

The indoor unit shall have the capability to turn the fan off in heating or cooling modes while in thermal-OFF status (external sensor required).

### Controls

Simple external contact control contacts included as standard for 0 volt ON/OFF control (ex: auxiliary drain switch).

The indoor unit shall integrate with the Samsung NASA Controls Network Solution

The indoor unit PCB shall have an integral infrared receiver to allow simple programming with a wireless controller.

The indoor unit shall have an error output signal relay (ERROR = open, NO ERROR = closed).

Controls shall integrate with a BMS system

Control wiring shall be 2 X 16 AWG shielded wire

### Air Filtration

The unit does not include an air filter as standard

\*Power data is without optional electric heat kits installed.

\*\*Required for applicable models when using Downflow Conversion Kit

<sup>1</sup> Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.

Nominal heating capacities are based on: Indoor temperature: 70 °F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.

<sup>2</sup> Refer to technical data book for fan performance details and settings

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

Samsung DVM S Series Multiposition Air Handler Unit  
Dimensional Data

| No. | Description      |
|-----|------------------|
| ①   | Gas Pipe         |
| ②   | Liquid Pipe      |
| ③   | Drain Connection |
| ④   | Air Outlet       |
| ⑤   | Air Inlet        |

