

# Submittal Data

## MDDD012M6-1P (JNG12HDD)

### High Static Ducted Unit

Job Name: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Submitted to: \_\_\_\_\_

Unit designation: \_\_\_\_\_

Location: \_\_\_\_\_

Engineer: \_\_\_\_\_

| Reference         | Approval | Construction |
|-------------------|----------|--------------|
| Schedule #: _____ |          |              |

#### General Information

- The indoor unit shall have an integral condensate pump with maximum 29" lift from bottom of the unit with check valve and float switch that disables indoor in the event of condensate overflow.
- The system shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire.

#### 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 outdoor unit.
- The system shall include an R32 alarm output plug on the indoor unit and outdoor unit for notification of R32 leak detection when the optional refrigerant leak detector is installed and configured (leak detector and VSTAT10P-1 accessories are required).

#### Indoor Fan

- Smart pressure control feature that adjusts fan speed based on ESP delivering consistent heating and cooling power
- The indoor unit shall have a smart-tuning function that can provide optimized comfort by allowing the occupant to offset the fan CFM curve to increase or decrease airflow.
- The indoor unit shall have automatic air volume scanning for simple setup and optimized comfort settings for the occupant

#### Controls

- Control wiring shall be 2 X 16 AWG wire.
- The unit shall be operated via a wireless or wired remote control with DDC type signal.
- 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).
- External heat control configuration settings include outside ambient external heat lockout, outside ambient compressor lockout, and time delay options (VSTAT10P-1 accessory required).
- 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).
- 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

- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- Night-time Quiet Mode: reduction of operational sound during evening hours (automatic or manual activation).
- 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).



Intertek

## Specifications

|                      |                          |                   |                               |
|----------------------|--------------------------|-------------------|-------------------------------|
| Model                | US Code                  |                   | JNG12HDD                      |
|                      | Model Number             |                   | MDDDD012M6-1P                 |
| Performance          | Nominal Capacity         | Cooling (Btu/h)   | 12,000                        |
|                      |                          | Heating (Btu/h)   | 14,000                        |
| Power                | Voltage                  | ø / V / Hz        | 1 / 208-230 / 60              |
|                      | Operating Current (max.) | Cooling (A)       | 2.1                           |
|                      |                          | Heating (A)       | 2.1                           |
| Evaporator Fan       | Type                     |                   | BLDC (1) With Sirocco Fan (2) |
|                      | Consumption              | Watts             | 153                           |
|                      | External Static Pressure | Standard ("WC)    | 0.60                          |
|                      |                          | Min. / Max. ("WC) | 0.1 / 0.6                     |
| Airflow              | Air Volume (L/M/H/Turbo) | Cooling (CFM)     | 318 / 410 / 516               |
|                      |                          | Heating (CFM)     | 318 / 410 / 516               |
| Refrigerant          | Type                     |                   | R-32                          |
| Pipe Connections     | Indoor & Outdoor         | High side         | 1/4                           |
|                      |                          | Low side          | 3/8                           |
|                      | Condensate Connection    |                   | 1 1/4 in. OD, 1 in. ID        |
| Dimensions           | W X H X D                | In.               | 33 7/16 X 9 13/16 X 27 9/16   |
|                      | Weight                   | lbs.              | 56.20                         |
|                      | Duct Connections (W X H) | Supply (in.)      | 32 3/16 X 8 11/16             |
|                      |                          | Return (ID, in.)  | 33 3/16 X 8 11/16             |
| Sound Pressure Level | Low / Med. / High        | dB(A)             | 25 / 28 / 31                  |
| Safety               | Certifications           |                   | UL 60335-2-40                 |

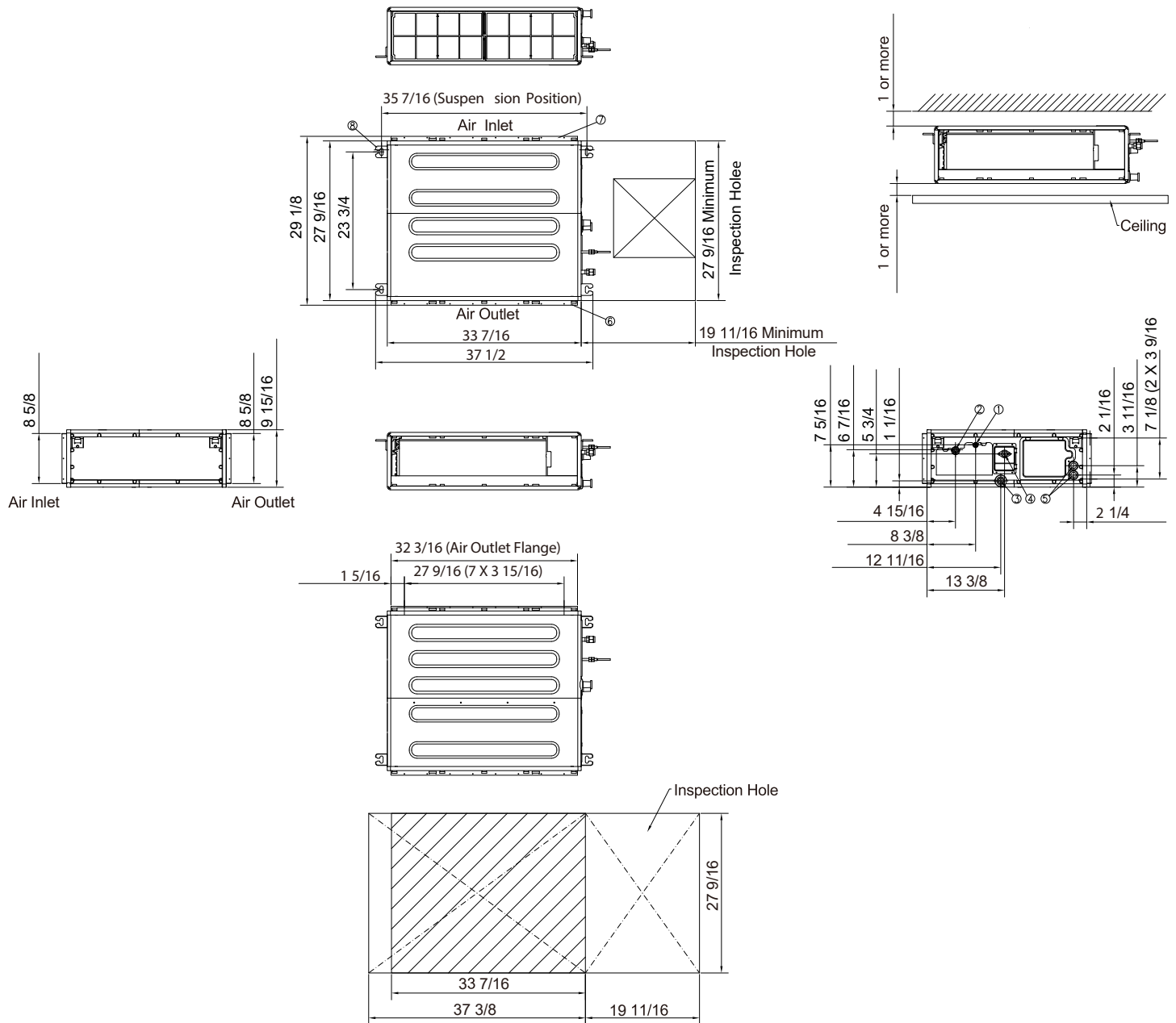
## Accessories

|   |                          |            |
|---|--------------------------|------------|
| R32 Refrigerant leak detector (RDS)                               |                          | M1HRDS01   |
| 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 |
| Filter box  |                          | V1FBX01-4P |

# Dimensional Drawing

## MDDD012M6-1P (JNG12HDD)

Unit: Inches



| No. | Description                                      |
|-----|--|
| 1   | Liquid pipe connection                           |
| 2   | Gas pipe connection                              |
| 3   | Gravity drain connection                         |
| 4   | Drain connection                                 |
| 5   | Opening for power and communication wire conduit |
| 6   | Supply air outlet flange                         |
| 7   | Return air (air inlet)                           |
| 8   | Suspension bolt anchor point                     |