

Submittal Data

MDDD018M6-1P (JNG18HDD)

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		JNG18HDD
	Model Number		MDDD018M6-1P
Performance	Nominal Capacity	Cooling (Btu/h)	18,000
		Heating (Btu/h)	21,000
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)	332 / 424 / 579
		Heating (CFM)	332 / 424 / 579
Refrigerant	Type		R-32
Pipe Connections	Indoor & Outdoor	High side	1/4
		Low side	1/2
	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)	32 / 36 / 40
Safety	Certifications		UL 60335-2-40

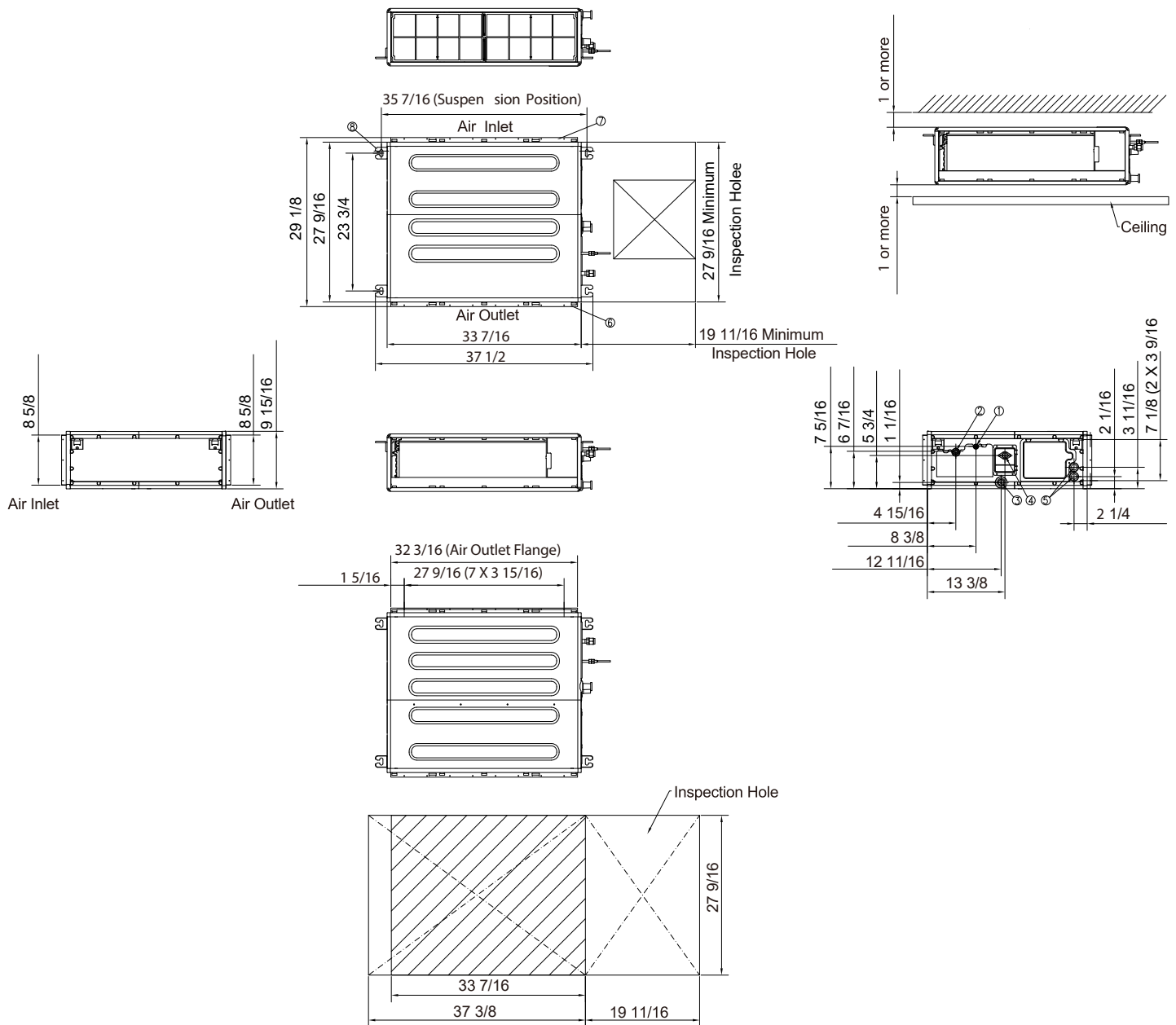
Accessories

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

MDDD018M6-1P (JNG18HDD)

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