SAMSUNG

Submittal Data

AJ012DNHDCG/AA (JNG12HDD)

Duct S, For Multi-Zone Systems

Job Name: _____ Location: _____

Purchaser: _____ Engineer: _____

Submitted to: _____ Reference ☐ Approval ☐ Construction ☐

Unit designation: _____ 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 provide 208/230V power to the indoor unit via 14 AWG X 3 interconnect power cable.
- Interconnecting control wiring between the outdoor to indoor shall be 2-conductor/stranded copper/shielded cable between 18-16 AWG.

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 MIM-B14U 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

- 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 (MIM-B14U accessory required).
- External heat control configuration settings include outside ambient external heat lockout, outside ambient compressor lockout, and time delay options (MIM-B14U 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 (MIM-B14U accessory required).
- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat
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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

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

Specifications

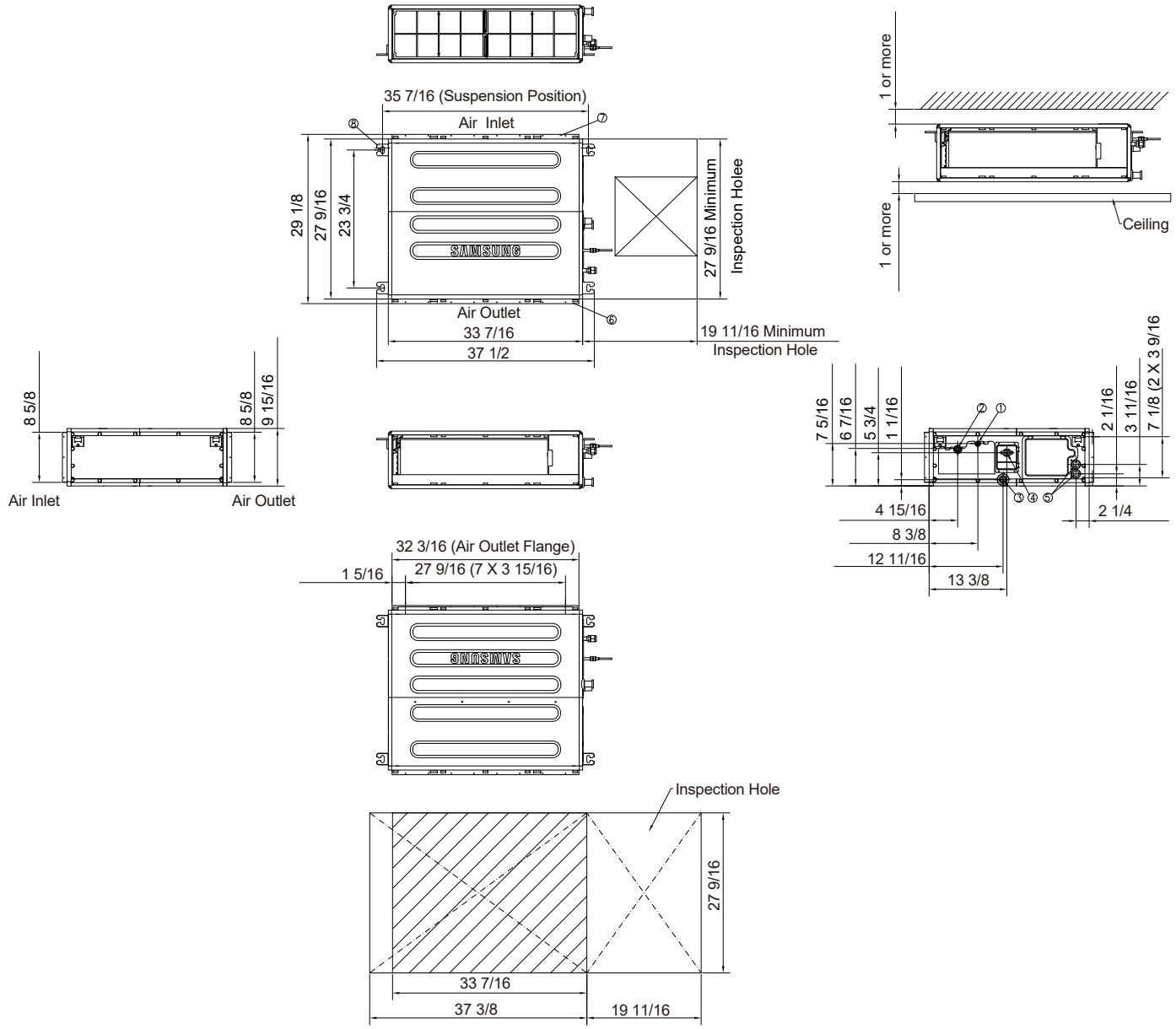
Model	US Code		JNG12HDD
	Model Number		AJ012DNHDCG/AA
Performance	Nominal Capacity	Cooling (Btu/h)	12,000
		Heating (Btu/h)	14,000
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Operating Current (max.)	Cooling (A)	2.1
		Heating (A)	2.1
Evaporator Fan	Type		BLDC (1) With Sirocco Fan (2)
	Consumption	Watts	153
	External Static Pressure	Standard (“WC)	0.60
		Min. / Max. (“WC)	0.1 / 0.6
Airflow	Air Volume (L/M/H)	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

Wired controller	Advanced	MWR-WG01UN
	Touchscreen	MWR-SH12UN
Thermostat adapter (for connection to standard 24VAC thermostats)		MIM-A60UN
Wireless signal control	Wireless signal receiver	MRK-A10UN
	Wireless controller	AR-CH01U
External temperature sensor		MRW-TAU
External contact control interface module		MIM-B14U
Filter box		FB-DS1

Dimensional Drawing
AJ012DNHDCG/AA (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