

SAMSUNG

Submittal Data

AC018DNJDCG/AA (CNG18JDD)

Console Unit for FJM Multi-Zone Systems

Job Name: _____

Purchaser: _____

Submitted to: _____

Unit designation: _____

Location: _____

Engineer: _____

Reference _____ Approval _____ Construction _____

Schedule #: _____

General Information

- The unit 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.
- The front panel shall have LED indicator lights, touch controls, IR receiver, and 1 motorized louver.

Construction

- Insulated, HIPS chassis certified to UL94 V0

Refrigerant System

- The heat exchanger shall be mechanically bonded aluminum fin to copper tube.
- Refrigerant flow shall be controlled by an electronic 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 indoor unit refrigerant leak detector detects a refrigerant leak (MIM-B14U accessory is required).

Indoor Fan

- Three fan speed settings and auto settings
- The unit shall discharge cool air from the upper outlet louver (motorized) while in cooling mode and warm air from the upper and lower (manual adjustment only) outlets while in heating mode.

Controls

- The unit shall be operated via a wireless or wired remote control with DDC-type signal
- The indoor unit shall ship with a rechargeable, solar-cell wireless controller and holder. The wireless controller battery shall be charged with a USB C cable or the integral solar panel.
- The included wireless controller shall have a pixel display that is visible in low light conditions.



- Dual set temperature support when connected to supported controllers.

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
- Emergency heat functionality allows the system to continue controlling the external heat source even when system errors prevent the heat pump from operating

Convenience

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



Intertek

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

Specifications

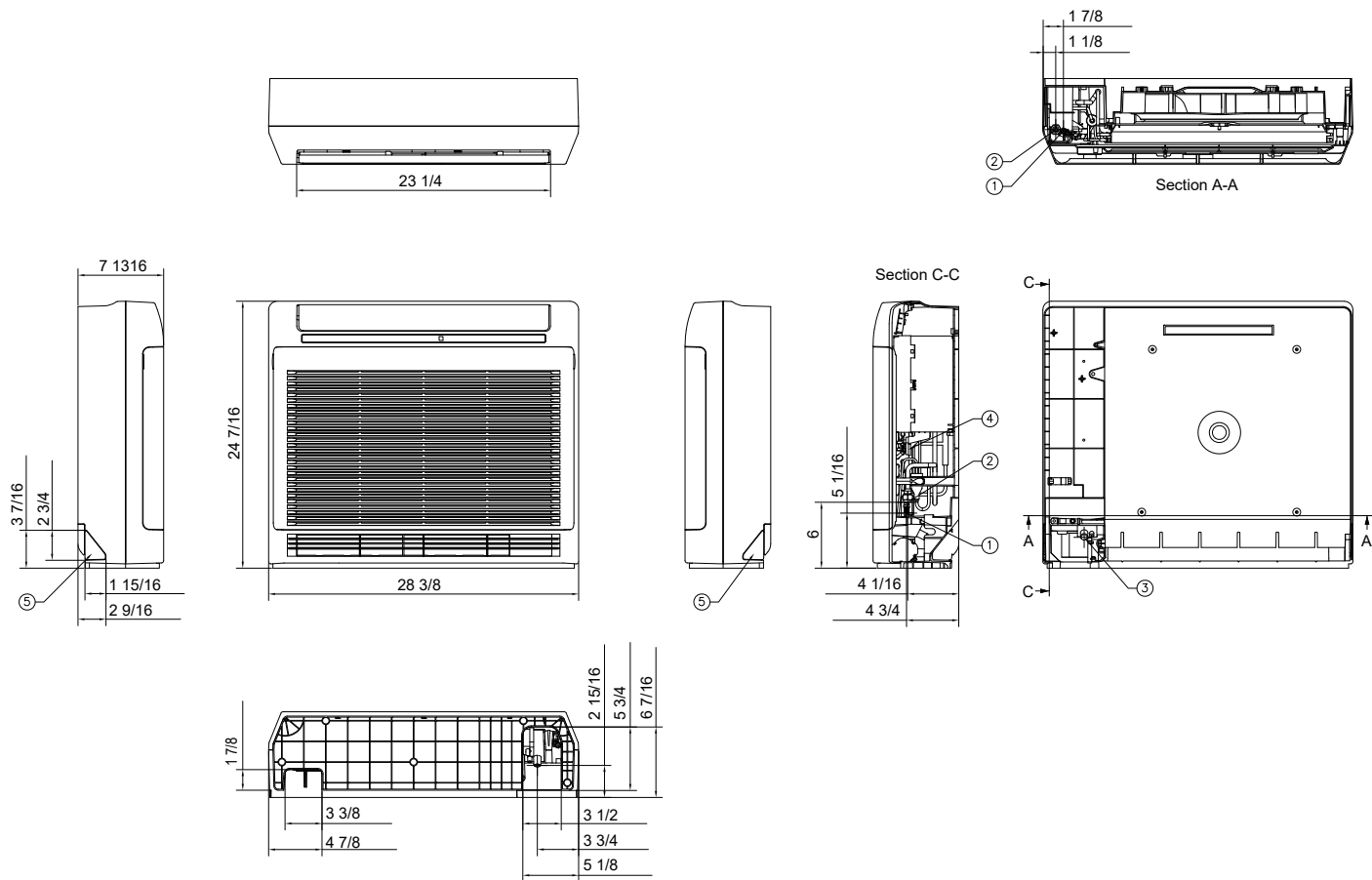
Model	US Code		CNG18JDD
	Model Number		AC018DNJDCG/AA
Performance	Nominal Capacity	Cooling (Btu/h)	16,000
		Heating (Btu/h)	19,000
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Operating Current (max.)	Cooling (A)	0.49
		Heating (A)	0.49
Evaporator Fan	Type		BLDC motor with turbo fan
	Consumption	Watts	35
Airflow	Air Volume (L/M/H/Turbo)	Cooling (CFM)	261 / 297 / 332
		Heating (CFM)	300 / 343 / 388
Refrigerant	Type		R-32
	A2L Leak Detection		Integral
Pipe Connections	Indoor & Outdoor	High side (In.)	1/4
		Low side (In.)	1/2
	Condensate Connection		ID 1"
Dimensions	W X H X D	In.	28 3/8 X 24 3/8 X 7 13/16
	Weight	lbs.	35.10
Operating Temperatures	Indoor	Cooling	64 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 86°F (30°C)
Sound Pressure Level	Low / Med. / High	dB(A)	35 / 39 / 43
Safety	Certifications	UL 60335-2-40	
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing	
	Battery Chemistry	(Remote Control only) Lithium Ion	

Accessories

Wired controller	Advanced	MWR-WG01UN
	Touchscreen	MWR-SH12UN
Thermostat adapter (for connection to standard 24VAC thermostats)		MIM-A60UN
External temperature sensor		MRW-TAU
External contact control interface module		MIM-B14U
Condensate pump	Aspen Mini Orange	ASP-MO-UNIV 110-250
	Blue Diamond MicroBlue w/slim fascia kit	X86-011
Line set - insulated and flared, interconnect cables included	25'	ILS2507
	50'	ILS5007

Dimensional Drawing AC018DNJDCG/AA (CNG18JDD)

Unit: Inches



No.	Description
1	Liquid pipe connection
2	Suction pipe connection
3	Drain connection
4	Power and comm.wire conduit
5	Drain Knockout