

Samsung FJM Series, WindFree™ 1-Way Cassette

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

Location _____
 Engineer _____
 Reference _____ Approval _____ Construction _____
 Schedule # _____

Specifications

Model	US Code		CNH121DB
	Model Number		AC012BN1DCH/AA
Performance	Nominal Capacity	Cooling (Btu/h)	12,000
		Heating (Btu/h)	14,000
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Nominal Running Current (A)		0.26
Fan	Type		Crossflow (1)
	Motor	Type	BLDC (1)
		FLA / Output	0.26 A / 27 W
Airflow	CFM	L/M/H	254 / 290 / 318
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve (at outdoor unit)
Piping Connections	Liquid (flare)	Inches	1/4
	Suction (flare)	Inches	3/8
	Drain	Inches	OD 1 , ID 3/4
Unit Dimensions	W X H X D	Inches	38 3/16 X 5 5/16 X 16 1/8
	Weight	lbs.	22.50
Fascia Panel ¹ (required)	Model Number		PC1NWFMUN
	L X W X H	Inches	47 1/8 X 3 1/8 X 19 5/8
	Weight	lbs.	9.48
Sound Level	L / M / H	dB(A)	29 / 32 / 35
Accessories	Fascia Panel	WindFree™	☒ PC1NWFMUN
	Wired Controllers	Advanced	MWR-WG00UN
		Simple Touch	MWR-SH11UN
	Wireless Remote Controller		AR-EH04U
	24VAC Thermostat Adapter		MIM-A60UN
	Wi-Fi Adapter For Remote Control ²		MIM-H05UN
	External Temperature Sensor		MRW-TA
	External Contact Control Interface Module		MIM-B14
	CN83 Pigtail		DB39-01263A
	Line sets - insulated and flared, interconnect cables included		25' - ILS2506
50' - ILS5006			
Safety Certifications			ETL (UL 1995)



- The indoor unit shall feature "WindFree™" mode*. When enabled, in cooling mode, as room temperature nears set temperature, the unit will close its louver and will disperse air into the space through thousands of micro-holes on the fascia panel preventing cold air drafts on occupants by providing cool still air*.
- The WindFree™ 1-way cassette can be configured for 2-stage operation, cooling the space with the louver open (fixed or swing) until the room temperature nears set temperature. Once room temperature is near set temperature, WindFree™ operation will start automatically.
- The WindFree™ panel (PC1NWFMMUN) has an integral humidity sensor that will open the louvers for standard cool mode when space conditions could potentially cause condensation formation on the panel surface.
- Washable filter included as standard (included with fascia panel)
- Built in condensate pump with maximum 29" lift from the bottom of the unit, check valve, and float switch that disables indoor unit during overflow detection.
- Fascia panel shall have LED indicator lights, IR receiver, and motorized louvers.
- High-voltage terminal block temperature sensor to disable unit in the event overheating of power connection.
- The indoor unit shall be powered by the outdoor unit
- System energy consumption can be viewed using the Samsung SmartThings mobile app (not revenue grade, for reference only)

Construction

- HIPS chassis and fascia panel certified to UL94 V0.

Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube

Indoor Fan

- Indoor fan is a single crossflow type with three fan speeds and auto setting

Controls

- Control signal shall be a DDC type signal
- Interconnect control wire between outdoor and indoor shall be 16 AWG X 2
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller.
- The system shall integrate with the Samsung Controls Solution.

Compatibility

Will only operate with Samsung outdoor unit model numbers: AC012BXADCH/AA (CXH12ADB), AJ020BXJ2CH/AA (JXH20J2B), AJ024BXJ3CH/AA (JXH24J3B), AJ036BXJ4CH/AA (JXH36J4B), AJ048BXJ5CH/AA (JXH48J5B), AJ020BXS3CH/AA (JXH20S3B), AJ024BXS4CH/AA (JXH24S4B), AJ030BXS4CH/AA (JXH30S4B), AJ036BXJ4CH/AA (JXH36J4B), AJ036BXS4CH/AA (JXH36S4B), AJ048BXJ5CH/AA (JXH48J5B)

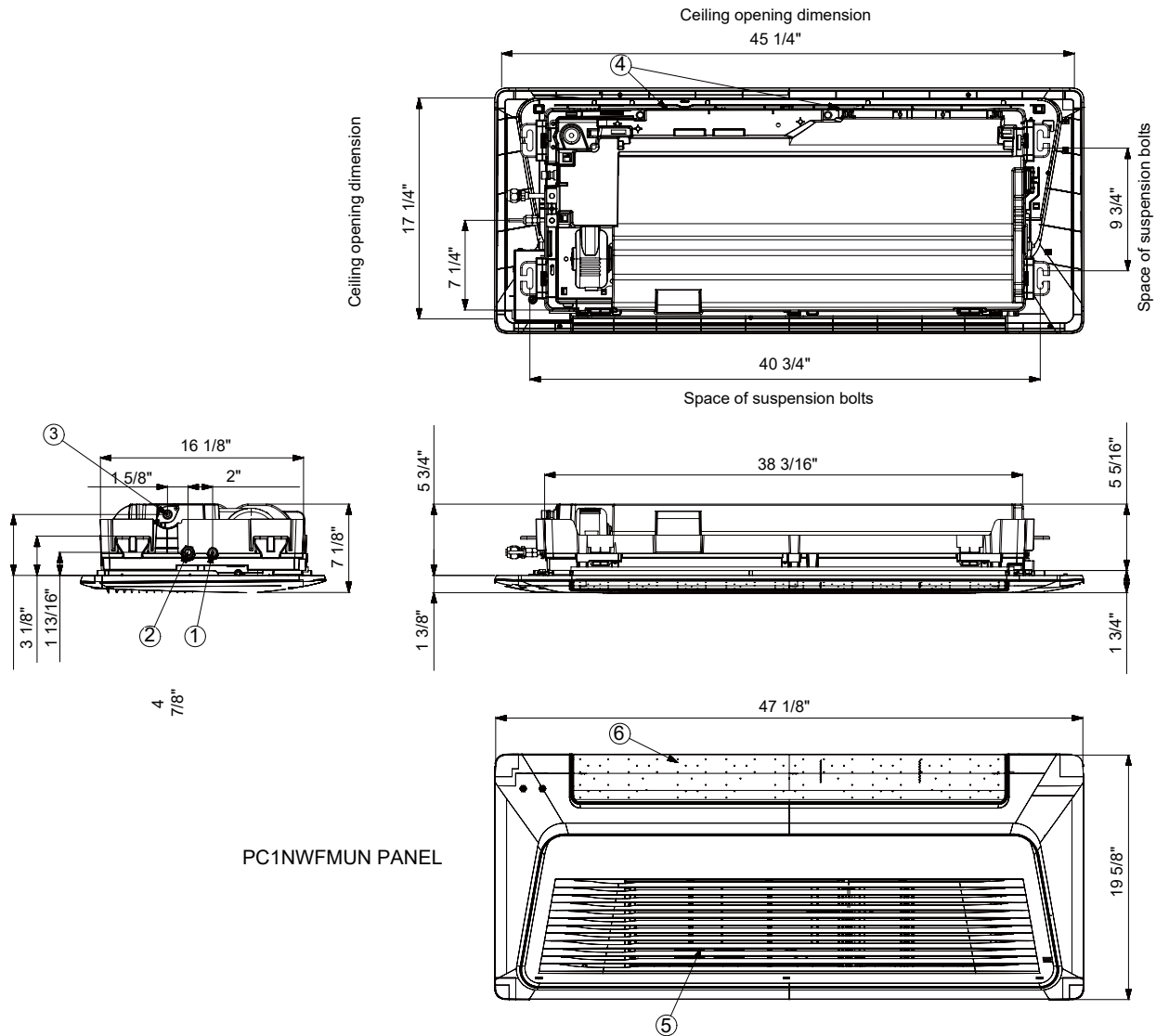
Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.

Nominal heating capacities are based on: Indoor temperature: 70 °F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB. Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

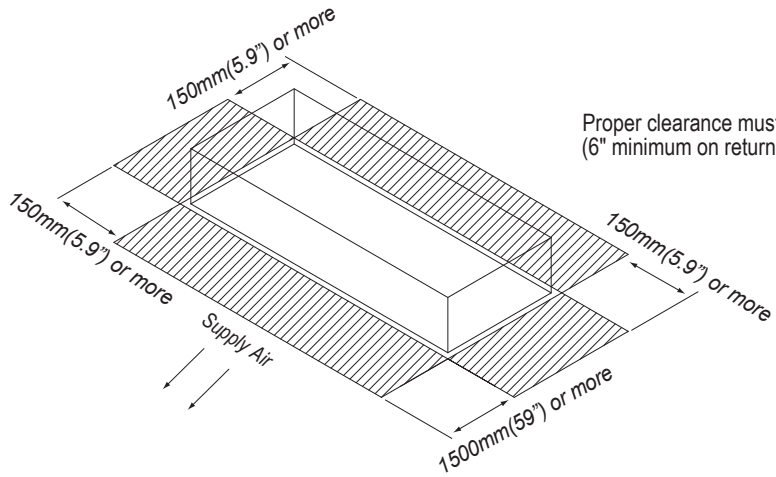
*The WindFree™ unit delivers an air current that is under 0.15 m/s while in Wind Free mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).

¹PC1NWFMMUN fascia panel is required to use WindFree™ functions. Optional controls are required to enable WindFree™ functions. Fascia panels must be purchased separately.

²MIM-H05UN is only required for remote control of cassette, console, and duct indoor units. Only one per system is required.



No.	Name	Description
①	Liquid Pipe Connection	Ø 1/4" Flare
②	Gas Pipe Connection	Ø 3/8" Flare
③	Drain Pipe Connection	Quick Lock, OD 1 1/4", ID 1"
④	Conduit for Power & Comm. Wiring	-
⑤	Air Inlet Grille	-
⑥	Air Outlet Louver	-



Proper clearance must be maintained around unit for proper operation.
(6" minimum on return side)