

Samsung FJM Series, WindFree™ Mini 4-Way Cassette

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

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

Specifications

Model	US Code		CNH18NDB
	Model Number		AC018BNNDCH/AA
Performance	Nominal Capacity	Cooling (Btu/h)	17,400
		Heating (Btu/h)	20,000
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Nominal Running Current (A)		0.30
Fan	Type		Turbo (1)
	Motor	Type	BLDC (1)
		FLA / Output	0.30A / 65 W
Airflow	CFM	L/M/H	300 / 336 / 371
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve (at outdoor unit)
Piping Connections	Liquid (flare)	Inches	1/4
	Suction (flare)	Inches	1/2
	Drain	Inches	OD 1, ID 3/4
Unit Dimensions	W X H X D	Inches	22 5/8 X 10 X 22 5/8
	Weight	lbs.	26.00
Fascia Panel ¹ (required)	Model Number		PC4SUFMUN
	L X W X H	Inches	24 3/8 X 24 3/8 X 2 1/4
	Weight	lbs.	5.95
Sound Level	L / M / H	dB(A)	29 / 34 / 39
Accessories	Fascia Panel		☒ PC4SUFMUN
	Wired Controllers	Advanced	MWR-WG00UN
		Simple Touch	MWR-SH11UN
	Wireless Remote Controller		AR-EH04U
	24VAC Thermostat Adapter		MIM-A60UN
	Motion Occupancy Sensor		MCR-SMD
	Wi-Fi Adapter For Remote Control ²		MIM-H04UN
	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' - ILS2507
50' - ILS5007			
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 louvers 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™ panel (PC4SUFMUN) 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.
 - Knock-out for outside air capability (with booster fan connection)
 - Fascia panel shall have LED indicator lights, IR receiver, and 4 motorized louvers with independent control.
 - 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**
- Galvanized steel frame with 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 turbo 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

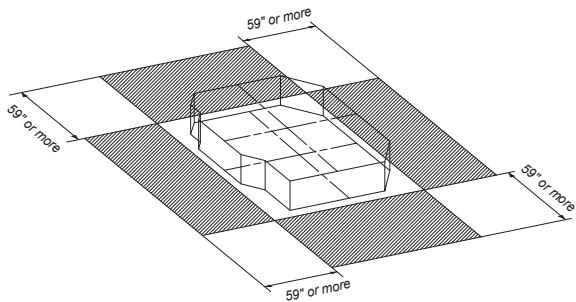
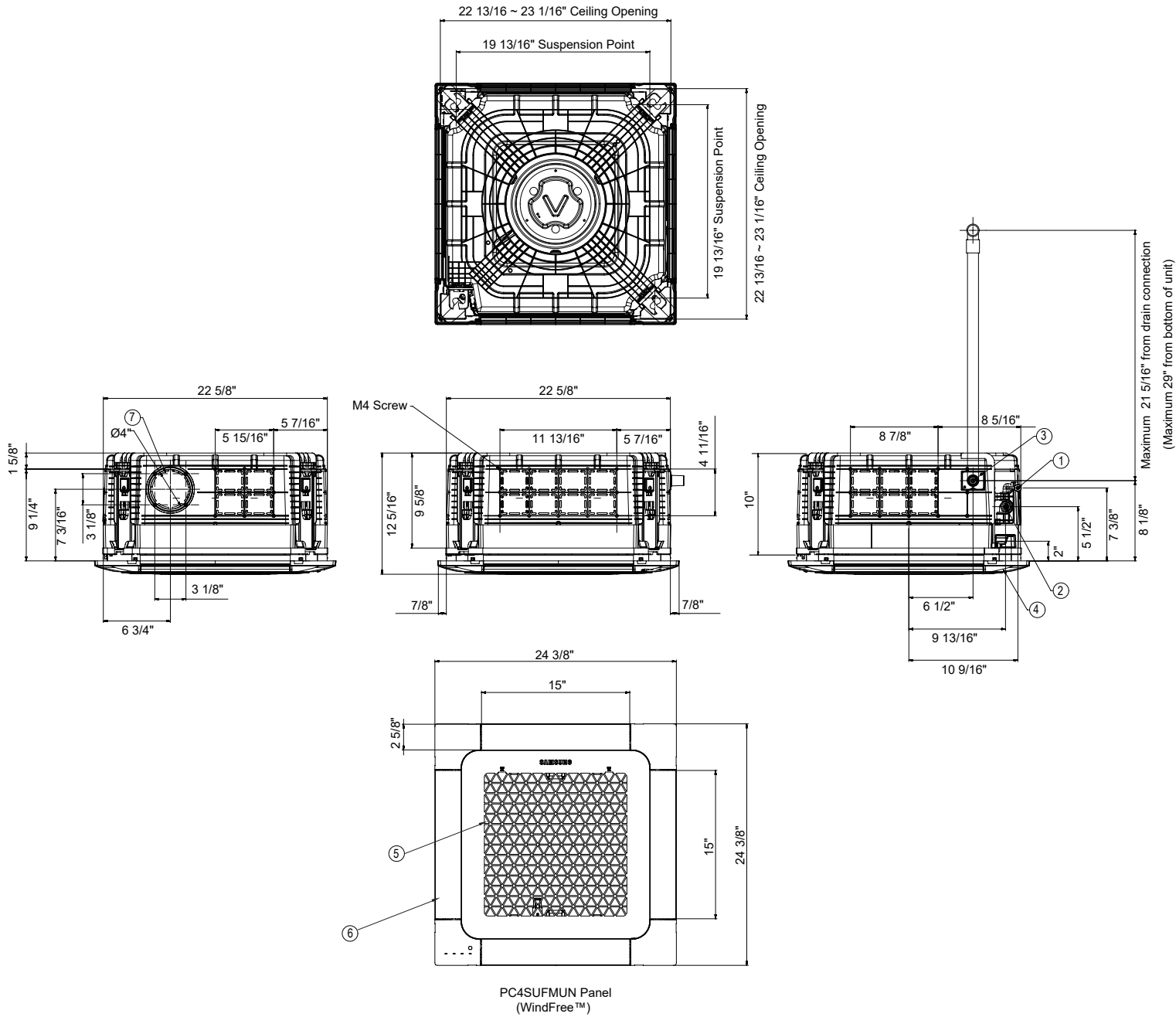
Will only operate with Samsung outdoor unit model numbers:
 AC018BXADCH/AA (CXH18ADB), AJ024BXJ3CH/AA (JXH24J3B),
 AJ036BXJ4CH/AA (JXH36J4B), AJ048BXJ5CH/AA (JXH48J5B),
 AJ024BXS4CH/AA (JXH24S4B), AJ030BXS4CH/AA (JXH30S4B),
 AJ036BXJ4CH/AA (JXH36J4B), AJ036BXS4CH/AA (JXH36S4B),
 AJ048BXJ5CH/AA (JXH48J5B)

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).

¹PC4SUFMUN fascia panel is required to use WindFree™ functions. Optional controls are required to enable WindFree™ functions. Fascia panels must be purchased separately.

²MIM-H04UN is only required for remote control of cassette, console, and duct indoor units. Only one per system is required.



Sufficient clearance must be maintained around unit for proper operation.

No.	Description
1	Liquid pipe connection
2	Suction pipe connection
3	Drain connection
4	Opening for power and communication wire conduit
5	Air inlet grille
6	Supply air outlet louver
7	Fresh air intake (Ø 4")