

Samsung FJM Series, Multi-position Air Handler Unit

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

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

Specifications

Model	US Code		CNH12ZDB
	Model Number		AC012BNZDCH/AA
Performance	Nominal Capacity	Cooling (Btu/h)	12,000
		Heating (Btu/h)	13,500
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Nominal Running Current (A)		1.50
Fan	Type		Centrifugal
	Motor	Type	ECM Constant-Torque (1)
		FLA / Output	1.5 A / 153 W
Airflow	CFM	L/M/H	244 / 286 / 374
External Static Pressure	Standard	"WC	0.4
	Min / Max.	"WC	0.10 / 0.50
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	PFT 3/4 PVC
Unit Dimensions	W X H X D	Inches	17 1/2 X 43 X 21 3/4
	Duct Connections (WXH)	Supply (in.)	12 1/4 X 15 1/2
		Return (ID, in.)	17 1/2 X 21
	Weight	lbs.	95.9
Sound Level	L / M / H	dB(A)	25 / 28 / 31
Accessories	Wired Controllers	Advanced	MWR-WG00UN
		Simple Touch	MWR-SH11UN
	Wireless Signal Receiver		MRK-A10N
	Wireless Remote Controller ¹		AR-EH04U
	24VAC Thermostat Adapter		MIM-A60UN
	Filter Box (includes 1" MERV 8 filter)		VFB-1
	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' - ILS2506 50' - ILS5006
	Supplemental Electric Heat kits		3kW
Downflow Conversion Kit			VDK-1
Safety Certifications		ETL (UL 1995)	



- High-voltage terminal block temperature sensor to disable unit in the event overheating of power connection.
- System energy consumption can be viewed using the Samsung SmartThings mobile app (not revenue grade, for reference only)
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire when optional heat kits are not installed. If VHK-***A supplemental heat kits are installed, power to the heat kits must be provided from a dedicated circuit with proper overcurrent protection per NEC (refer to VHK-***A supporting documents for heat kit electrical data).

Indoor Fan

- Indoor fan is a double Inlet, forward curve, centrifugal type
- Three fan speed settings and auto setting
- Field configurable for downflow operation with optional conversion kit

Construction

- Insulated, galvanized steel.

Controls

- Control wiring shall be 2 X 16 AWG
- The unit shall be operated via a wireless or wired remote control with DDC type signal
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options.
- Wired or wireless controllers must be purchased separately

Refrigerant System

- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Warranty

10 Years compressor, 10 years parts, 1 year limited labor when registered

Compatibility

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

ATTENTION: When connecting MPAH (AC0**BNZDCH/AA) and Duct S (AJ0**BNHDCH/AA) indoor units the sum of the connected indoor unit capacity is reduced. Other conditions apply. Refer to engineering manuals/technical data books and installation manuals for more information.

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.

¹ Requires the installation of MRK-A10N wireless signal receiver.

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

SUBMITTAL AC012BNZDCH/AA (CNH12ZDB)
 Samsung FJM Series, Multi-position Air Handler Unit
 AC012BNZDCH/AA Dimensional Drawing

No.	Description
①	Gas Pipe
②	Liquid Pipe
③	Drain Connection
④	Air Outlet
⑤	Air Inlet

