

## 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	0.18	
	Min / Max.	"WC	0.10 / 0.59	
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 <sup>1</sup>	AR-EH04U		
	24VAC Thermostat Adapter	MIM-A60UN		
	Filter Box (includes 1" MERV 8 filter)	VFB-1		
	Wi-Fi Adapter For Remote Control <sup>2</sup>	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	
	Supplemental Electric Heat kits	3kW	VHK-103A	
		5kW	VHK-105A	
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.

<sup>1</sup> Requires the installation of MRK-A10N wireless signal receiver.

<sup>2</sup> 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

