SUBMITTAL AR24HSFSJWKX / AR24HSFSJWKN

SAMSUNG

Samsung "Wi-Fi Whisper", wall mounted evaporator, split system

Approval

Job Name				Location	
Purchaser				Engineer	
Submitted to					
		Reference			
Unit Designation				Schedule #	
	Svetem Model Num	Specifications	AP24H0E0	IVAIN	
Model	System Model Number Indoor Unit Model Number		AR24HSFSJWK AR24HSFSJWKN		
	Outdoor Unit Mode	l Number	AR24HSFSJWKX		
Performance	Nominal Capacity	Cooling / Heating (Btu/h)		22,000 / 27,000 8,871 - 31,732	
	Capacity Range	Cooling (Btu/h) Heating (Btu/h)		7,506 - 40,944	
	SEER / EER	J ,	20.0 / 12.	20.0 / 12.55	
	COP HSPF		3.68 10.0		
	Condensate (pints/	hour)	6.0		
Power	Voltage	ø / V / Hz	1 / 208-230	1 / 208-230 / 60	
	Working Voltage Ra		176 - 254 (max. 3% dev	viation from each)	
	Operating Current (Low/Std./High)	Cooling (A) Heating (A)	3.2 / 8.3 / 14.0 2.6 / 11.5 / 19.0		
	Maximum Current	Cooling/Heating (A)	17.0 / 19		
	Max. Breaker	Amps	30		
	Min. Circuit Ampac	ity (A)	18.5		
Dimensions	W X H X D (inches)	Indoor Unit	41 7/8 X 11 9/16		
	, ,	Outdoor Unit Indoor Unit	34 5/8 X 37 31/32 X 12 5/8 31		
	Weight (lbs.)	Outdoor Unit	158		
	Condensate Conne	ection	11/16" OD		
Heat Exchanger	Indoor & Outdoor	Туре	Aluminum Fin - Copper Tube		
	Unit	FPI Pipe Diameter	18 1/4"		
	Indoor Unit	Main and Sub coils		2 row / 14 step	
		Upper Coil		1 row / 10 step	
	Outdoor Unit		2 row / 24 step		
Sound Pressure Level	Indoor Unit (dB) Outdoor Unit (dB)	Quiet / High High	30 / 44 54	ł	
Operating Temperatures (°F)	Cutacor Criti (uz)		Standard: 14 ≤	T < 115	
	Outdoor	Cooling	0 ≤ T ≤ 115 with wind I		
		Heating	5 ≤ T ≤ 75		
	Indoor	Cooling Heating	61 ≤ T ≤ 90 T ≤ 80		
Pipe Connections	<u> </u>	High side (flare)	1/4"	,	
	Indoor & Outdoor	Low side (flare)	5/8"		
	Maximum / Minimum Line Set Length (ft.)		98 / 10		
	Maximum Vertical Separation (ft.)		50		
Refrigerant	Type Control Method		R410A Electronic Expansion Valve		
	Factory Charge	OZ.	81.13		
	Charged for		25'		
	Additional Refrigerant		0.16 oz./ft. over 25 ft.		
Compressor	Manufacturer Type		Samsung DC, Inverter Driven, Rotary		
	RLA	А	13.7		
	Operating	Cooling (low/std./high)	15 / 41 / 69		
	Frequency (Hz)	Heating (low/std./high)	15 / 48 / 75 BLDC motor with cross-flow fan (1)		
Evaporator Fan	Type Air Volume	CFM (max.)	670	iss-flow fan (1)	
	Consumption	Watts	27		
	Operating Current	Amps	0.12		
Condenser Fan	Motor		BLDC motor with	axial fan (1)	
	Output FLA	Watts Amps	95 0.5		
Optional Accessories	Condensate pump	1	ASP-MO-UNIV 110	-250	
	Wired Controller	Standard	AR-WRS (includes	s sub-PCB and	
			MWR-WH00 contr AR-WRP (includes		
		Premium	,	oller with scheduling)	
	Line sets - insulated and flared, interconnect		25' - ILS2509		
	cables included Wall bracket (for outdoor unit)		50' - ILS5009 CKN-250 or CKN-500		
	Wind Baffle /			000	
	Guard	Back	WBMB-24		
Safety	Certifications	ETL & ETLc			
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer,			
		over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing			



Construction

(actual equipment appearance may vary)

General Information

 Outdoor unit shall provide 208/230V power to indoor unit via 14 AWG X 3 interconnect power cable (seperate communication wire required) • Electro-static, washable, main filter as standard accessible from the front/top of unit

Construction

• Indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket

- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability
- The indoor unit shall have easy-access pipe and drain connections via access panel on front of unit for easier installation and service

Heat Exchanger

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

Refrigerant System

- The compressor shall be hermetically sealed, inverter controlled, Twin **BLDC Rotary**
- Refrigerant flow shall be controlled by electronic expansion valve at outdoor unit

Indoor Fan

- The indoor fan shall be a single, antibacterial cross-flow type
- Three fan speed settings and auto setting
- · Automatic (motorized) vertical swing (up/down) louver

General Control

- · Control signal shall be DDC type signal
- Unit shall have a built-in Wi-Fi adapter as standard to allow control with mobile devices (details on page 4)
- Interconnect control wiring shall be 16 AWG X 2 shielded wire between outdoor and indoor units
- · The indoor unit shall ship with a wireless controller and batteries as standard
- · Optional wired control available

Convenience

- Auto restart
- Digital display on the front of indoor unit (hidden behind louver when off) to display temperature and service codes
- "Fast Comfort" mode to quickly reach set temperature
- Auto changeover
- 24 hour, single event timer
- · Good'sleep mode Quiet mode
- Dry mode
- · Single event, ON/OFF timer
- Single User Mode to reduce energy consumption during low demand
- · Air filter cleaning can be done easily without opening the indoor unit
- Filter cleaning reminder indicator
- · Display ON/OFF and beep ON/OFF with wireless controller
- Smart install mode startup system diagnostics operation to ensure system readiness during initial operation

IMPORTANT - This product has been designed and manufactured to meet ENERGY STAR criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.



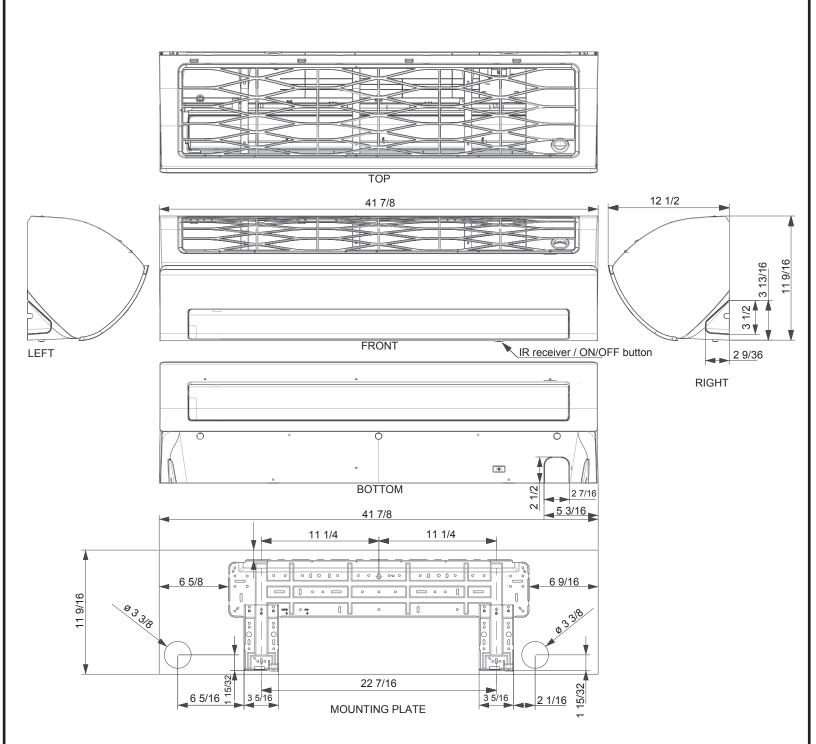


10 Years compressor, 10 Year Parts, 90 Day DOA Allowance



Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Indoor unit dimensional drawing

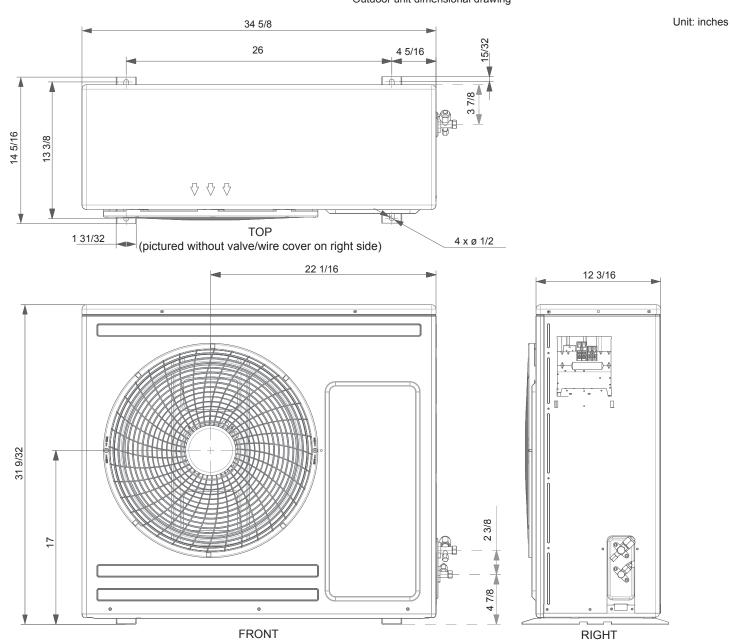
Unit: inches

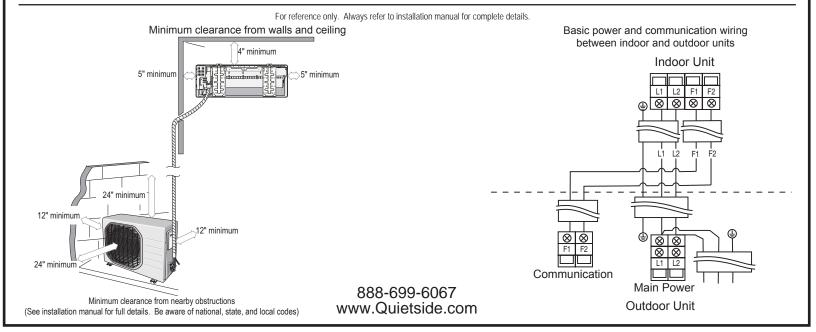




Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Outdoor unit dimensional drawing

(pictured without valve/wire cover)





(pictured without valve/wire cover on right side)



Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Wi-Fi Control Details

General Wi-Fi Control Information
• Allows control of system on a local network via Wi-Fi or through the internet when outside of home/office with Samsung's "Smart Air Conditioner" app (available in Android and Apple app stores).

- Wi-Fi Control Features

 Basic control and monitoring of: power, mode, set temperature, room temperature, fan speed, and louver swing.
- Timer ON and OFF feature allows scheduling of power ON and power OFF events on specific days at specific times.
- "My Wind" functions allows the user to save common air conditioner control configurations for quick and easy system operation (mode, set temperature, fan speed, and louver swing)
- · Air filter reminder option will display hours of fan operation since last filter reminder reset.
- Optional filter reminder with four reminder intervals (180, 300, 500, and 700 hours of fan operation).
- Error notification
- · System energy consumption history and adjustable threshold notification viewable with mobile app



Wi-Fi Control Specifications

- Samsung's "Smart Air Conditioner" app can monitor and control an unlimited quantity indoor units.
- A network with Wi-Fi connectivity is required to use the Wi-Fi adapter. Wi-Fi-direct control is not possible.
- Users must register each indoor unit at http://www.samsungsmartappliance.com to setup control.
- Use is based on acceptance of Samsung's Smart Appliance terms and conditions when creating user profile and registering

Samsung "Smart Air Conditioner" App Examples



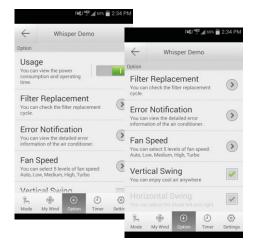
Main control page



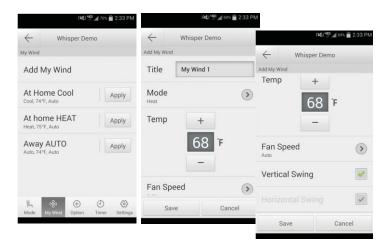
Energy usage page



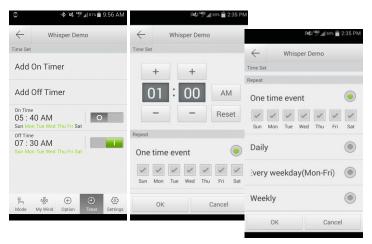
Filter reminder setting page



Options page



"My Wind" settings page



Timer setting page example