SUBMITTAL AR18HSFSJWKX / AR18HSFSJWKN

SAMSUNG

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

Job Name	Location	Location		
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			

		Engineer_	
		Reference	
n		Schedule #	
	Specifications		
		AR18HSFSJWK AR18HSFSJWKN	
		AR18HSFSJWKX	
Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,600	
	Cooling (Btu/h)	5,459 - 23,884	
	Heating (Btu/h)	4,094 - 27,296 20.5 / 13.1	
		3.84	
HSPF		9.0	
Condensate (pints/l	nour)	4.4	
Voltage ø / V / Hz		1 / 208-230 / 60	
Working Voltage Ra	ange (VAC)	176 - 254 (max. 3% deviation from each)	
		1.8 / 6.2 / 9.7	
	<u> </u>	1.5 / 7.3 / 10.5 14.0 / 17.5	
		20	
		17.7	
WXHXD	Indoor Unit	41 7/8 X 11 9/16 X 12 1/2	
(inches)	Outdoor Unit	34 5/8 X 31 9/32 X 12 3/16	
Weight (lbs.)	Indoor Unit	31	
		117 11/16" OD	
Condensate Conne	CUOTI		
Indoor & Outdoor	Туре	Aluminum Fin - Copper Tube	
Unit		1/4"	
la de en Unit	Main and Sub coils	2 row / 14 step	
	Upper Coil	1 row / 10 step	
Outdoor Unit		2 row / 24 step	
Indoor Unit (dB)	Quiet / High	25 / 41	
Outdoor Unit (dB)	High	51	
Outdoor	Cooling	Standard: 14 ≤ T ≤ 115	
		0 ≤ T ≤ 115 with wind baffle accessory	
		5 ≤ T ≤ 75 61 ≤ T ≤ 90	
		T ≤ 80	
		1/4"	
Indoor & Outdoor		1/2"	
Maximum / Minimum Line Set Length (ft.)		98 / 10	
Maximum Vertical S	Separation (ft.)	50	
Туре		R410A	
		Electronic Expansion Valve	
	OZ.	70.5 25'	
	ant	0.16 oz./ft. over 25 ft.	
		Samsung	
Type		Samsung DC, Inverter Driven, Rotary	
Type RLA	A	-	
RLA Operating	Cooling (low/std./high)	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73	
RLA		DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72	
RLA Operating Frequency (Hz) Type	Cooling (low/std./high) Heating (low/std./high)	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1)	
RLA Operating Frequency (Hz) Type Air Volume	Cooling (low/std./high) Heating (low/std./high) CFM (max.)	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640	
RLA Operating Frequency (Hz) Type Air Volume Consumption	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current	Cooling (low/std./high) Heating (low/std./high) CFM (max.)	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1)	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts Amps	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37 ASP-MO-UNIV 110-250 AR-WRS (includes sub-PCB and MWR-WH00 controller)	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA Condensate pump	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts Amps	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37 ASP-MO-UNIV 110-250 AR-WRS (includes sub-PCB and MWR-WH00 controller) AR-WRP (includes sub-PCB and	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA Condensate pump Wired Controller	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts Amps Standard Premium	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37 ASP-MO-UNIV 110-250 AR-WRS (includes sub-PCB and MWR-WH00 controller) AR-WRP (includes sub-PCB and MWR-WE10 controller with scheduling	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA Condensate pump Wired Controller	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts Amps Standard	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37 ASP-MO-UNIV 110-250 AR-WRS (includes sub-PCB and MWR-WH00 controller) AR-WRP (includes sub-PCB and	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA Condensate pump Wired Controller Line sets - insulated cables included Wall bracket (for output)	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts Amps Standard Premium and flared, interconnect	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37 ASP-MO-UNIV 110-250 AR-WRS (includes sub-PCB and MWR-WH00 controller) AR-WRP (includes sub-PCB and MWR-WE10 controller with scheduling 25' - ILS2507	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA Condensate pump Wired Controller Line sets - insulated cables included Wall bracket (for out Wind Baffle /	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts Amps Standard Premium d and flared, interconnect tdoor unit) Front	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37 ASP-MO-UNIV 110-250 AR-WRS (includes sub-PCB and MWR-WH00 controller) AR-WRP (includes sub-PCB and MWR-WE10 controller with scheduling 25' - ILS2507 50' - ILS5007 CKN-250 or CKN-500 WBMF-9/12/18	
RLA Operating Frequency (Hz) Type Air Volume Consumption Operating Current Motor Output FLA Condensate pump Wired Controller Line sets - insulated cables included Wall bracket (for output)	Cooling (low/std./high) Heating (low/std./high) CFM (max.) Watts Amps Watts Amps Standard Premium J and flared, interconnect tdoor unit)	DC, Inverter Driven, Rotary 8.3 15 / 47 / 73 15 / 54 / 72 BLDC motor with cross-flow fan (1) 640 27 0.12 BLDC motor with axial fan (1) 97.5 0.37 ASP-MO-UNIV 110-250 AR-WRS (includes sub-PCB and MWR-WH00 controller) AR-WRP (includes sub-PCB and MWR-WE10 controller with scheduling 25' - ILS2507 50' - ILS5007 CKN-250 or CKN-500	
	System Model Num Indoor Unit Model N Outdoor Unit Model N Outdoor Unit Model N Capacity Range SEER / EER COP HSPF Condensate (pints/i Voltage Working Voltage Ra Operating Current (Low/Std./High) Maximum Current Max. Breaker Min. Circuit Ampaci W X H X D (inches) Weight (lbs.) Condensate Conne Indoor & Outdoor Unit Indoor Unit (dB) Outdoor Unit (dB) Outdoor Indoor	System Model Number Indoor Unit Model Number Outdoor Unit Model Number Outdoor Unit Model Number Outdoor Unit Model Number Nominal Capacity Cooling / Heating (Btu/h) Capacity Range Heating (Btu/h) SEER / EER COP HSPF Condensate (pints/hour) Voltage Ø / V / Hz Working Voltage Range (VAC) Operating Current Cooling (A) (Low/Std./High) Heating (A) Maximum Current Cooling/Heating (A) Max. Breaker Amps Min. Circuit Ampacity (A) W X H X D Indoor Unit (inches) Outdoor Unit Unit Indoor Unit Condensate Connection Indoor & Outdoor Unit Type FPI Pipe Diameter Indoor Unit (dB) High Outdoor Unit (dB) High Outdoor Unit (dB) High Indoor & Outdoor Indoor & Outdoor Unit Cooling Heating Indoor Unit (dB) High Indoor Unit (dB) High Outdoor Indoor & Outdoor Heating Indoor & Outdoor Heating Indoor & Outdoor Heating Indoor & Outdoor High side (flare) Low side (flare) Low side (flare) Low side (flare) Control Method Factory Charge Oz. Charged for Additional Refrigerant	



(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
- 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
- · 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
- Drv mode
- · Single event, ON/OFF timer
- Single User Mode to reduce energy consumption during low demand operation
- · 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.



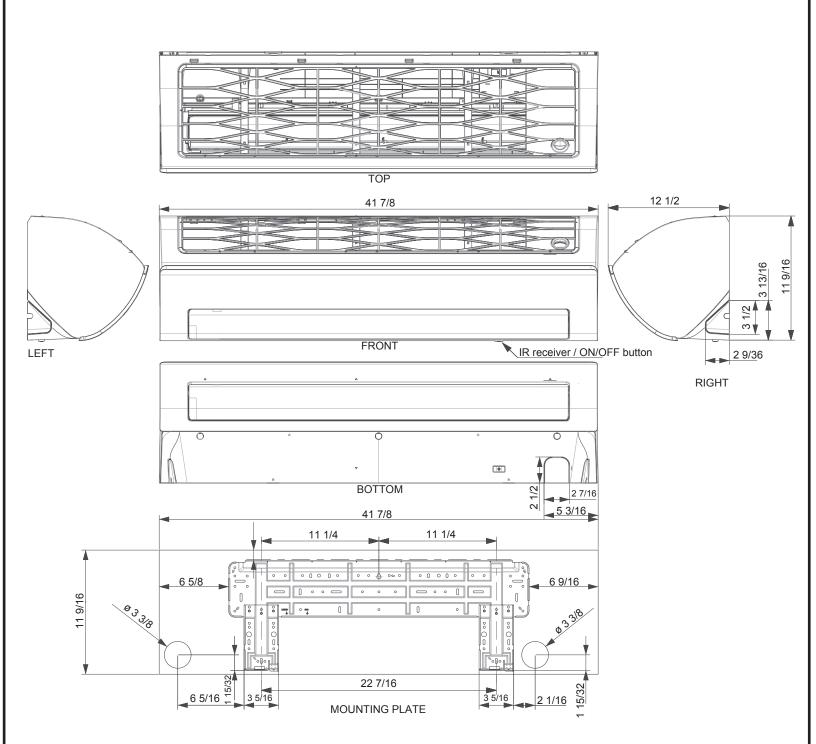


10 Years compressor, 10 Year Parts, 90 Day DOA Allowance



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

Unit: inches

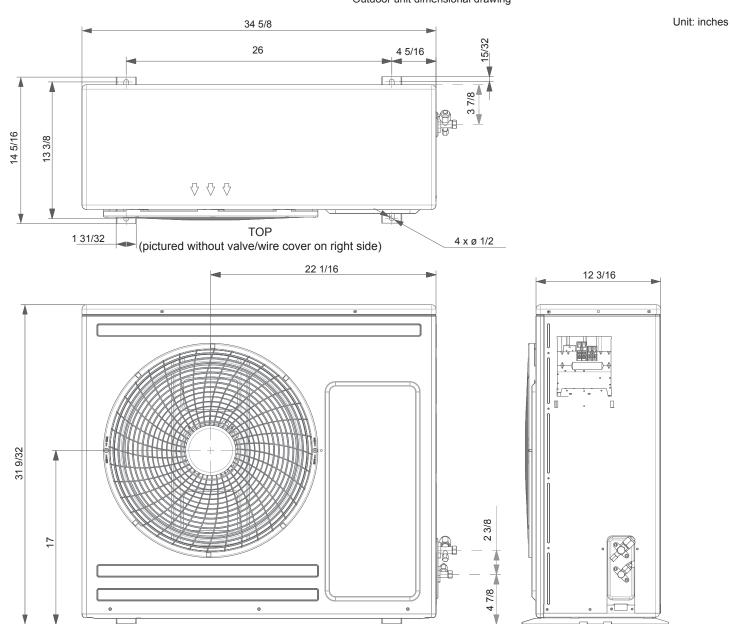


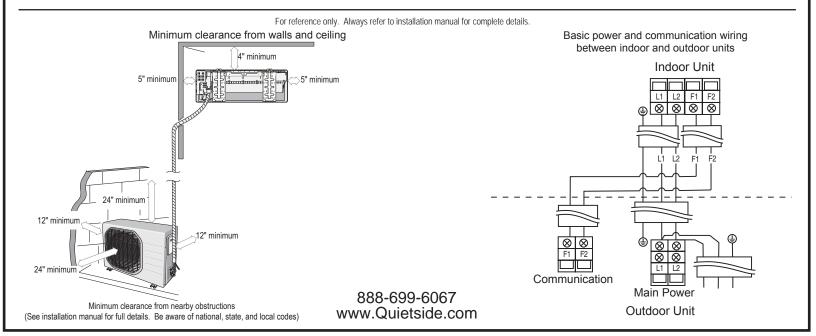


Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Outdoor unit dimensional drawing

RIGHT

(pictured without valve/wire cover)





FRONT

(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



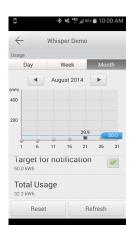
Wi-Fi Control Specifications

- 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



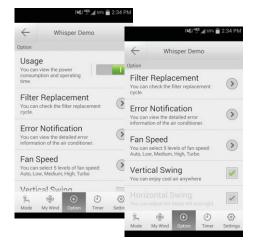
Main control page



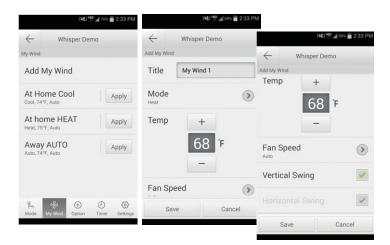
Energy usage page



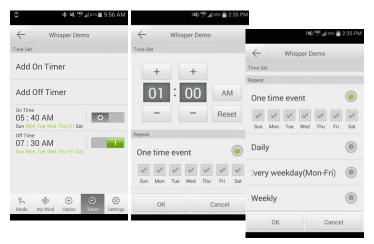
Filter reminder setting page



Options page



"My Wind" settings page



Timer setting page example