



Samsung "Whisper", wall mounted evaporator, split system

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

Location _____
 Engineer _____
 Reference Approval Construction
 Schedule # _____

Specifications

Model	System Model Number		AR09HSFSHWK
	Indoor Unit Model Number		AR09HSFSHWKN
	Outdoor Unit Model Number		AR09HSFSHWKX
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	9,000 / 12,000
		Capacity Range	Cooling (Btu/h) Heating (Btu/h)
	SEER / EER		23.0 / 15.25
	COP		4.47
	HSPF		10.5
	Condensate (pints/hour)		1.42
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current (Low/Std./High)	Cooling (A)	1.5 / 2.9 / 3.2
		Heating (A)	1.3 / 4.1 / 6.5
	Maximum Current	Cooling/Heating (A)	6.5 / 9.0
	Max. Breaker	Amps	15
Min. Circuit Ampacity (A)		9.5	
Dimensions	W X H X D (inches)	Indoor Unit	35 9/32 X 10 1/4 X 10 13/16
		Outdoor Unit	31 1/8 X 21 1/2 X 11 1/4
	Weight (lbs.)	Indoor Unit	22.9
		Outdoor Unit	78.3
Condensate Connection			1 1/16" OD
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube
		FPI	18
		Pipe Diameter	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)	Quiet / High	20 / 40
	Outdoor Unit (dB)	High	45
Operating Temperatures (°F)	Outdoor	Cooling	Standard: 14 ≤ T ≤ 115 0 ≤ T ≤ 115 with wind baffle accessory
		Heating	5 ≤ T ≤ 75
	Indoor	Cooling	61 ≤ T ≤ 90
		Heating	T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	3/8"
	Maximum / Minimum Line Set Length (ft.)		50 / 10
	Maximum Vertical Separation (ft.)		26
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	44.1
	Charged for		25'
	Additional Refrigerant		0.16 oz./ft. over 25 ft.
Compressor	Manufacturer		Samsung
	Type		DC, Inverter Driven, Rotary
	RLA	A	4.6
	Operating Frequency (Hz)	Cooling (low/std./high)	15 / 38 / 45
Heating (low/std./high)		15 / 55 / 82	
Evaporator Fan	Type		BLDC motor with cross-flow fan (1)
	Air Volume	CFM (max.)	459
	Consumption	Watts	27
	Operating Current	Amps	0.12
Condenser Fan	Motor		BLDC motor with axial fan (1)
	Output	Watts	39
	FLA	Amps	0.17
Optional Accessories	Condensate pump		<input type="checkbox"/> ASP-MO-UNIV 110-250
	Wired Controller	Standard	<input type="checkbox"/> AQN-WRS (includes sub-PCB and MWR-WH00 controller)
		Premium	<input type="checkbox"/> AQN-WRP (includes sub-PCB and MWR-WE10 controller with
	Line sets - insulated and flared, interconnect cables included		<input type="checkbox"/> 25' - ILS2506
			<input type="checkbox"/> 50' - ILS5006
	Wall bracket (for outdoor unit)		<input type="checkbox"/> CKN-250 or CKN-500
	Wind Baffle / Guard	Front	<input type="checkbox"/> WBMF-9/12/18
Back		<input type="checkbox"/> WBMB-9/12/18/36	
Wi-Fi adapter for remote control with mobile device		<input type="checkbox"/> WIFI-AR09-24	
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
Warranty	7 Years compressor, 5 Year Parts, 1 year limited labor		



(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
- 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 louver

Controls

- Control signal shall be DDC type signal
- Interconnect control wiring shall be 16 AWG X 2 shielded wire between outdoor and indoor units
- Unit shall be operated via wireless controller as standard
- The indoor unit shall ship with a wireless controller and batteries as standard
- Optional wired control available
- Optional Wi-Fi adapter available for control and monitoring with mobile devices.

Convenience

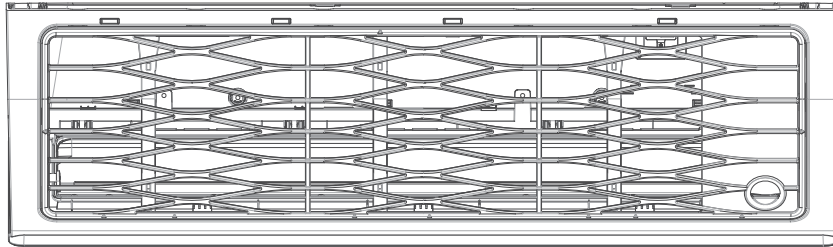
- Auto restart
- "Fast Comfort" mode to quickly reach set temperature
- Auto changeover
- 24 hour, single event timer
- Good'sleep mode
- Quiet mode
- Dry mode
- Single event, ON/OFF timer
- Single User Mode to reduce energy consumption during low demand operation
- Air filter cleaning can be done easily without opening the indoor unit
- Smart install mode - startup system diagnostics operation to ensure system readiness during initial operation

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.

Quietside maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.





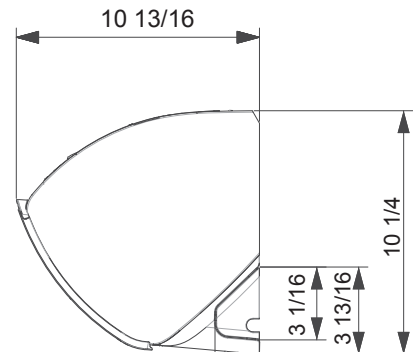
TOP

35 9/32



FRONT

IR receiver / ON/OFF button

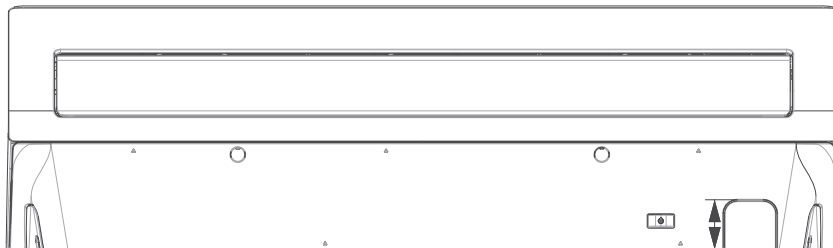


10 13/16

10 1/4

1 7/8

RIGHT



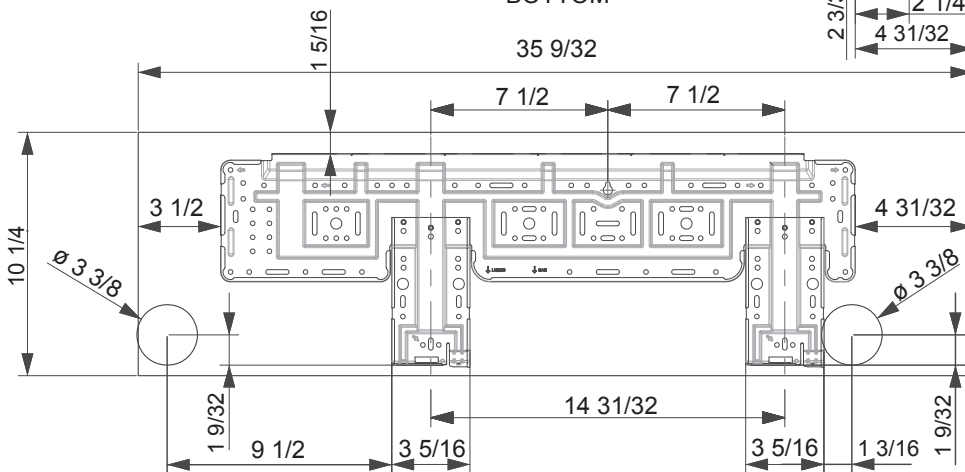
BOTTOM

35 9/32

2 3/32

2 1/4

4 31/32



MOUNTING PLATE

10 1/4

∅ 3 3/8

3 1/2

1 5/16

7 1/2

7 1/2

4 31/32

∅ 3 3/8

1 9/32

9 1/2

3 5/16

14 31/32

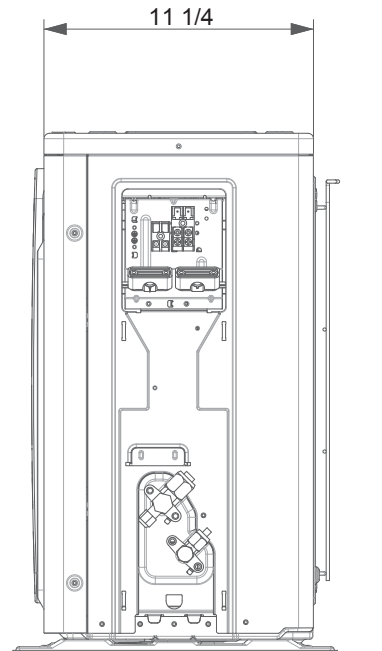
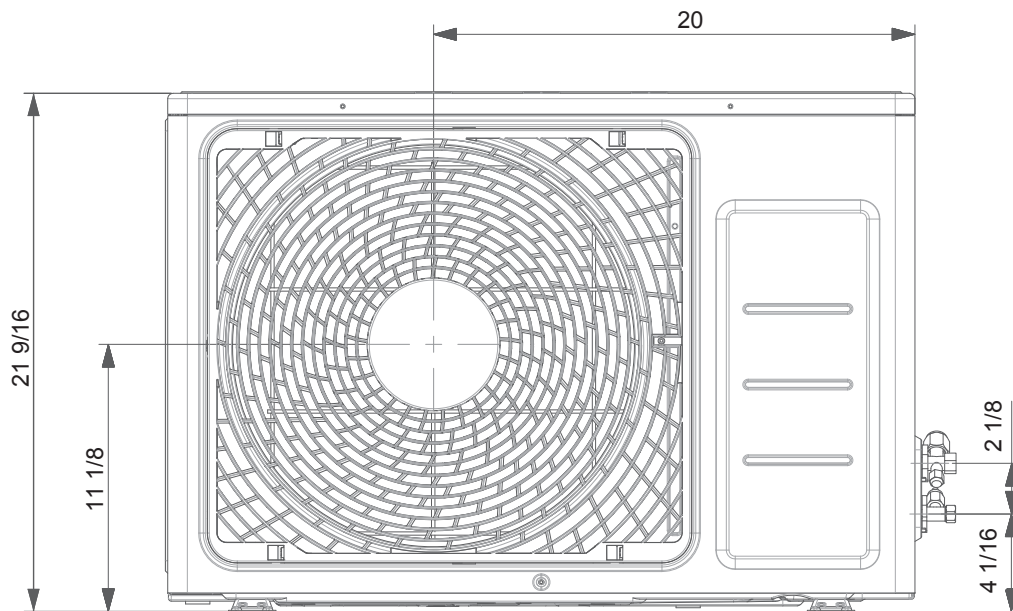
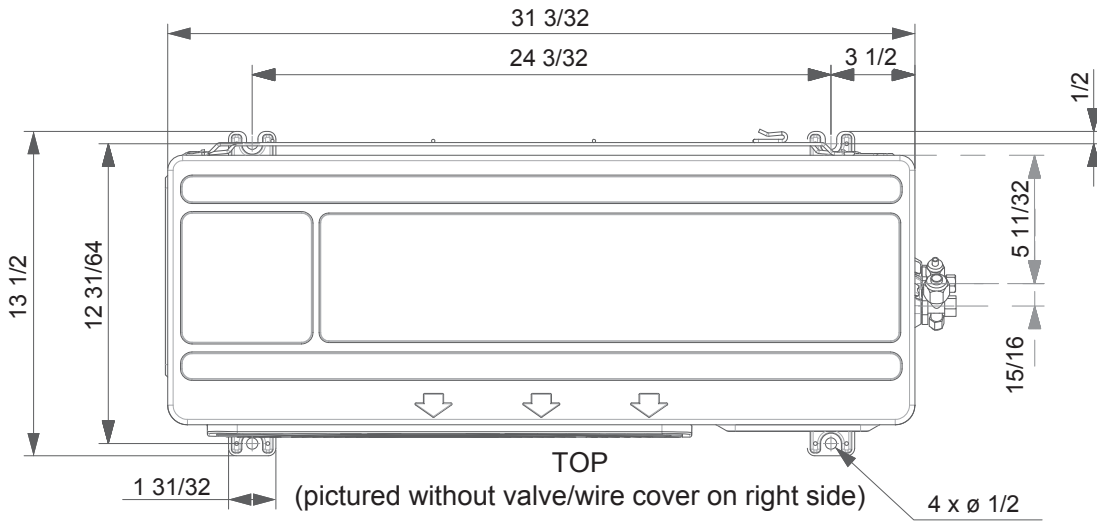
3 5/16

1 3/16

1 9/32

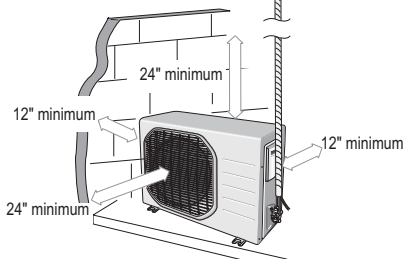
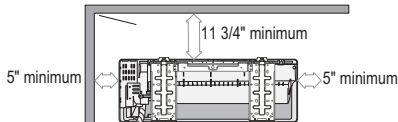


Unit: inches



For reference only. Always refer to installation manual for complete details.

Minimum clearance from walls and ceiling



Minimum clearance from nearby obstructions

(See installation manual for full details. Be aware of national, state, and local codes)

Basic power and communication wiring between indoor and outdoor units

