

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Approval

Construction

Schedule #

Specifications

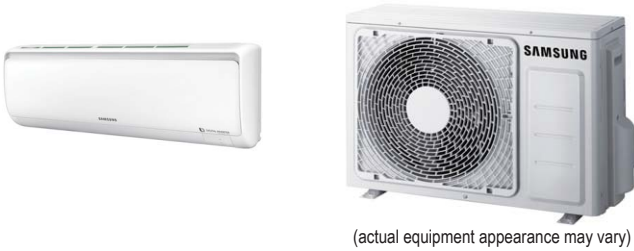
Model	System Model Number		AR12KSFPDWQ
	Indoor Unit Model Number		AR12KSFPDWQNCV
	Outdoor Unit Model Number		AR12KSFPDWQXCV
Performance	Nominal Capacity*	Cooling / Heating (Btu/h)	12,000 / 13,600
	Capacity Range	Cooling (Btu/h)	3,000 - 13,500
		Heating (Btu/h)	4,000 - 14,500
	SEER / EER		17.00 / 10.50
	COP		3.26
	HSPF		8.50
AHRI Reference Number		9035288	
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254
	Operating Current (Min./Std./Max.)	Cooling (A)	1.3 / 5.2 / 6.0
		Heating (A)	1.6 / 5.4 / 5.8
	Max. Breaker	Amps	15
	Min. Circuit Ampacity (A)		10.5
Dimensions	W X H X D (in.)	Indoor Unit	32 1/4 X 11 1/4 X 8 7/16
		Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4
	Weight (lbs.)	Indoor Unit	18.08
		Outdoor Unit	62.8
	Condensate Connection		11/16" OD
Sound Pressure Level	Indoor Unit (dB)	Low / High	20 / 41
	Outdoor Unit (dB)	High	46
Operating Temperatures °F(°C)	Outdoor	Cooling	14 ~ 115°F(-10 ~ 46°C)
		Heating	5 ~ 75°F(-15 ~ 24°C)
	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)
		Heating	T ≤ 80°F(27°C)
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.	31.7
	Charged for		25 feet
	Additional Refrigerant		0.16 oz./ft. over 25 ft.
Compressor	Type		BLDC Rotary
	RLA	A	7.0
Evaporator Fan	Type		BLDC motor with cross-flow fan (1)
	Air Volume	CFM (L / M / H / T)	300 / 330 / 360 / 390
	Consumption	Watts	17
	FLA	Amps	0.07
Condenser Fan	Motor		BLDC motor with axial fan (1)
	Output	Watts	39
	FLA	Amps	0.17
	Air Volume	CFM (max.)	1,400
Optional Accessories	Wireless controller holder		DB61-06087A
	Condensate pump	Aspen Mini Orange	ASP-MO-UNIV 110-250
		Blue Diamond	BD-BLUE-230
	Wired controller	Premium (w/scheduling) ¹	AR-WRP2 ¹
	Wired controller sub-PCB		DB93-11412A
	Wired controller sub-PCB harness		DB93-11405A
	External contract control interface module (requires sub-PCB and sub-PCB harness)		MIM-B14
	Wall bracket (for outdoor unit)		CKN-250
	Line sets - insulated and flared, interconnect cables included		25' - ILS2506
			50' - ILS5006
Wind Baffle / Guard	Front	WBF-3M	
	Back	WBB-5M	
Safety	Certifications	ETL (UL 1995)	
	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 years parts, 90 day limited labor (registration required)
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* Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240.

¹ AR-WRP2 includes MWR-WE13U wired controller, sub-PCB (DB93-11412A), and sub-PCB harness (DB93-11405A)

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



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

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

Heat Exchanger

- The heat exchangers shall be mechanically bonded fin to copper tube

Refrigerant System

- The compressor shall be hermetically sealed, inverter controlled, 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 (up/down)

Controls

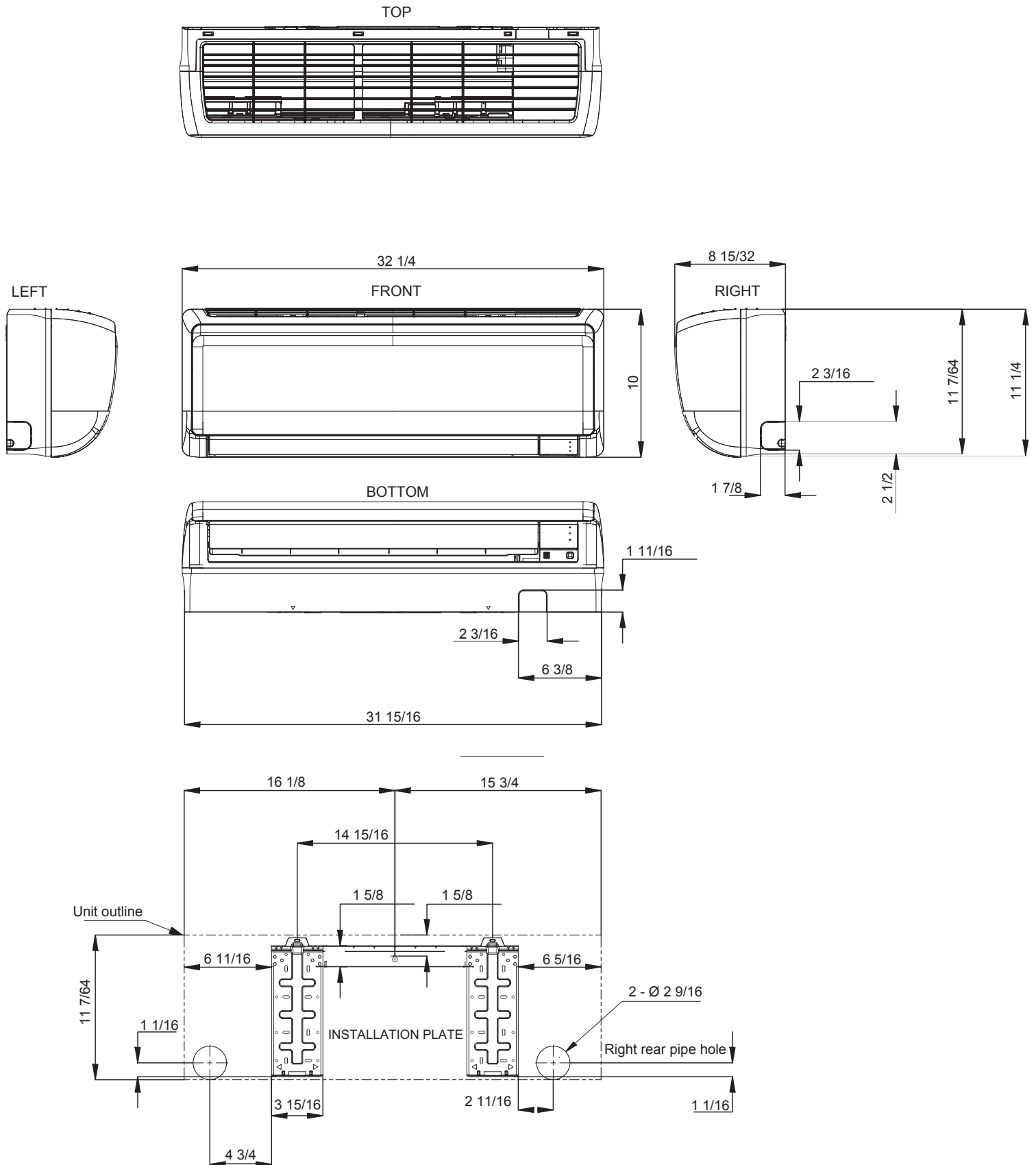
- Control signal shall be DDC type signal
- Interconnect control wiring shall be 16 AWG X 2 shielded wire between outdoor and indoor units
- The indoor unit shall ship with a wireless controller and batteries as standard
- Optional wired control options available

Convenience

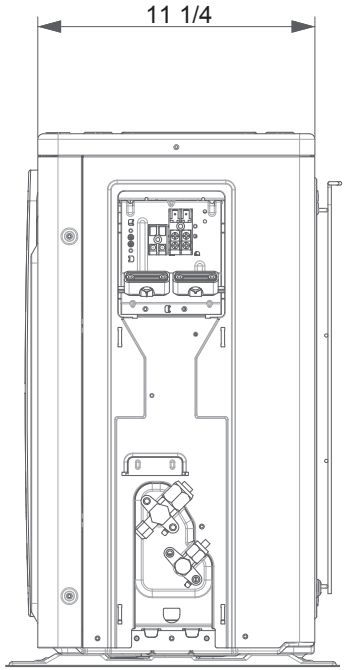
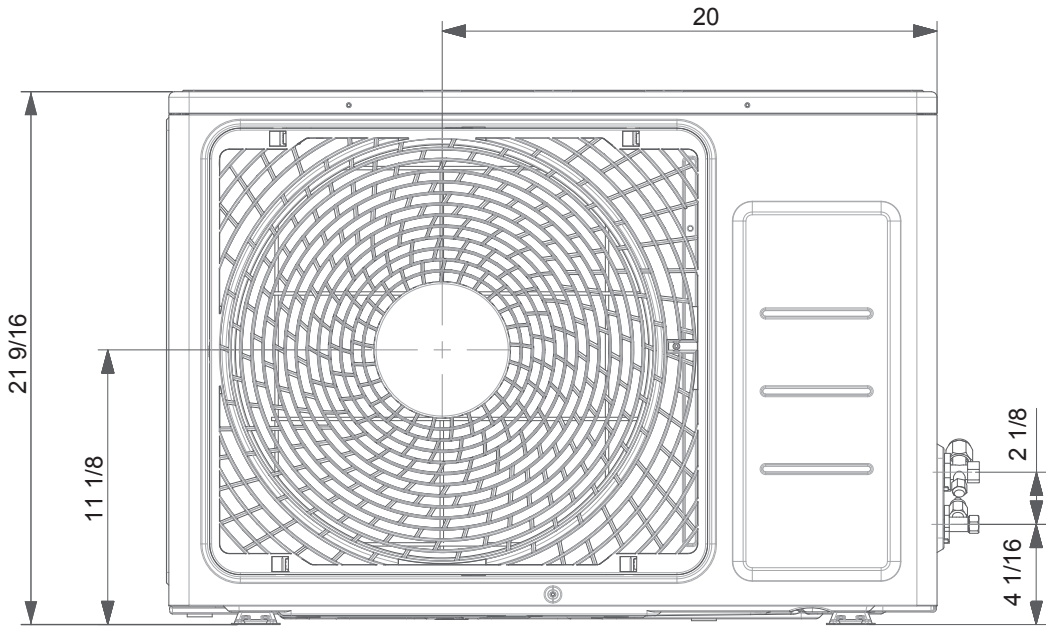
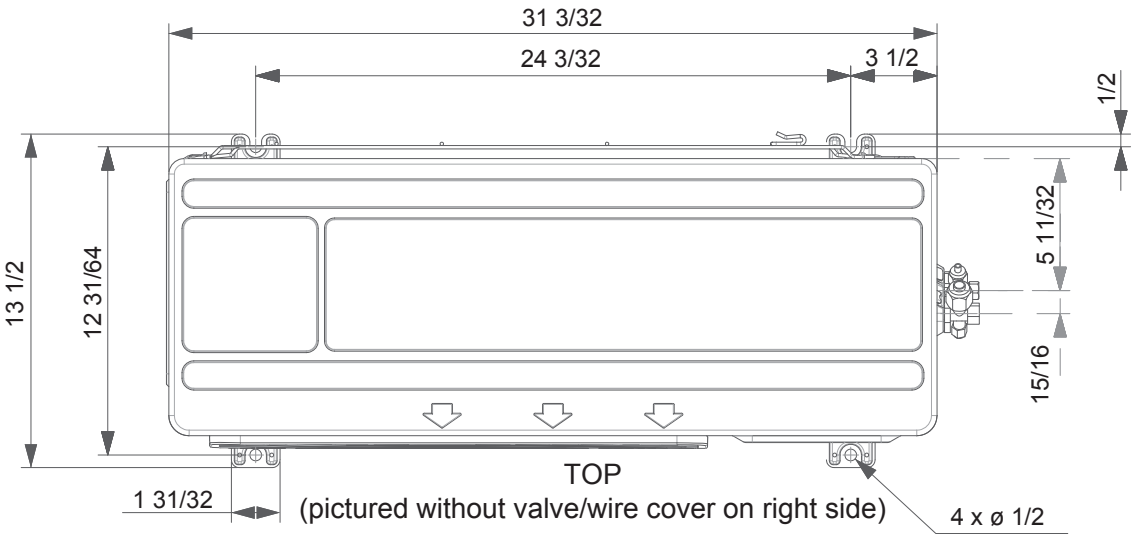
- Auto restart
- LED status indicator lights on front of the indoor unit to display unit operation and error status
- "Fast Comfort" mode to quickly reach set temperature
- Auto changeover
- 24 hour, single event timer
- Good sleep mode
- Quiet mode
- Dry mode
- Single event, ON/OFF timer
- Single User Mode to reduce energy consumption during low demand operation
- Air filter cleaning can be done easily without opening the indoor unit
- Beep ON/OFF with included wireless controller

Samsung "Quantum", wall mounted evaporator, split system
Indoor unit dimensional drawing

Unit: inches



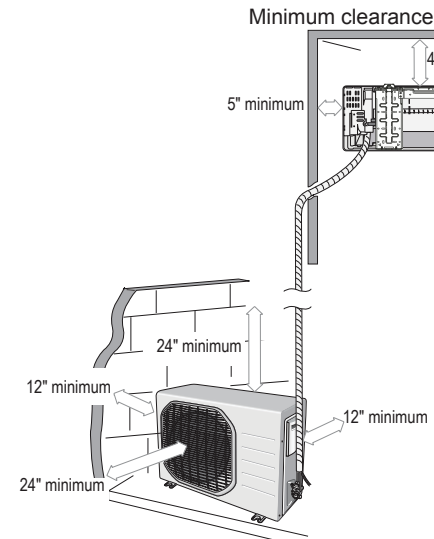
Unit: inches



FRONT
(pictured without valve/wire cover on right side)

RIGHT
(pictured without valve/wire cover)

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



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

