SAMSUNG

SUBMITTAL AR12JSALBWKXCV / AR12JSALBWKNCV

Samsung "Novus", Wall Mounted Evaporator, Split System

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

Specifications

Model	System Model Number		AR12JSALBWKXCV
	Indoor Unit Model Number		AR12JSALBWKNCV
	Outdoor Unit Model Number		AR12JSALBWKXCV
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	12,000 / 12,000
	Capacity Range	Cooling (Btu/h)	5,000 - 14,500
		Heating (Btu/h)	4,200 - 16,500
	SEER / EER		20.00 / 12.75
	COP (nominal heating)		3.38
	HSPF		9.00
	Condensate (pints/h)		2.49
Power	Voltage	ø / V / Hz	1 / 115 / 60
	Working Voltage Range (VAC)		103 - 126
	Operating Current (Low/Std./High)	Cooling (A)	4.1 / 8.2 / 12.7
		Heating (A)	4.6 / 8.5 / 16.7
	Max. Breaker	Amps	30
	Min. Circuit Ampacity (A)		19
Dimensions	W X H X D (in.)	Indoor Unit	35 7/16 X 11 3/32 X 8 29/32
		Outdoor Unit	30 13/16 X 24 X 11 7/16
	Weight (lbs.)	Indoor Unit	20.50
		Outdoor Unit	80.69
	Condensate Connection		13/16"
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube
		Tube Diameter	9/32
	Indoor Unit		2 row / 15 step
	Outdoor Unit		2 row / 26 step
Sound Pressure Level	Indoor Unit (dB)	Quiet / High	34 / 45
	Outdoor Unit (dB)	High	59
Operating Temperatures °F(°C)	Outdoor	Cooling	14 ~ 115°F (-10 ~ 46°C)
		Heating	5 ~ 75°F (-15 ~ 24°C)
	Indoor	Cooling	62 ~ 90°F (17 ~ 32°C)
		Heating	20 ~ 80°F (-7 ~ 27°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4
		Low side (flare)	3/8
	Maximum / Minimum Line Set Length (ft.)		50 / 9.8
	Maximum Vertical Separation (ft.)		16.4
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	40.56
	Charged for		25'
	Additional Refrigerant		0.22 oz./ft. over 25 ft.
Compressor	Type		BLDC, Inverter Driven, Rotary
	RLA	A	13.5
Evaporator Fan	Type		BLDC motor with cross-flow fan (1)
	Air Volume	CFM (Turbo/H/M/L)	425 / 353 / 282 / 247
	FLA	Amps	0.6
Condenser Fan	Motor		BLDC motor with axial fan (1)
	Air Volume	CFM (max.)	1,342
	FLA	Amps	0.65
Optional Accessories	Condensate Pump	Aspen	☐ ASP-MO-UNIV 110-250
	Wall bracket (for outdoor unit)		☐ CKN-250 or CKN-500
	Line sets - insulated and flared, interconnect cables included		☐ 25' - SLS2506
			☐ 50' - SLS5006
Safety	Certifications	ETL (UL 1995)	
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, temperature limit protection logic, compressor overload sensing	
Warranty	5 Years Compressor, 1 Year Parts		

* 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.



(actual equipment appearance may vary)

General Information
- Outdoor unit shall provide 120V power to indoor unit via 14 AWG X 5 interconnect power cable (4 wire + ground).
- 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 exchanger 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 (up and down) swing louver (1)

Controls
- Control signal shall be DDC type signal
- Interconnect wiring shall be 14 AWG X 5 wire between outdoor and indoor unit
- Unit shall be operated via wireless controller as standard
- The indoor unit shall ship with a wireless controller and batteries as standard

Convenience
- Auto restart
- "Turbo 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
- Auto Clean function to help prevent dust and contaminant buildup on the evaporator coil.
- Temperature display on front of indoor unit.

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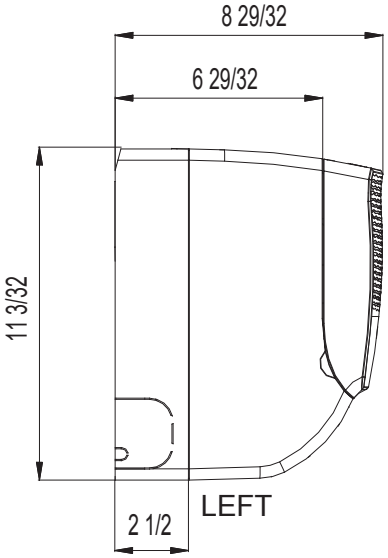
Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www.energystar.gov.

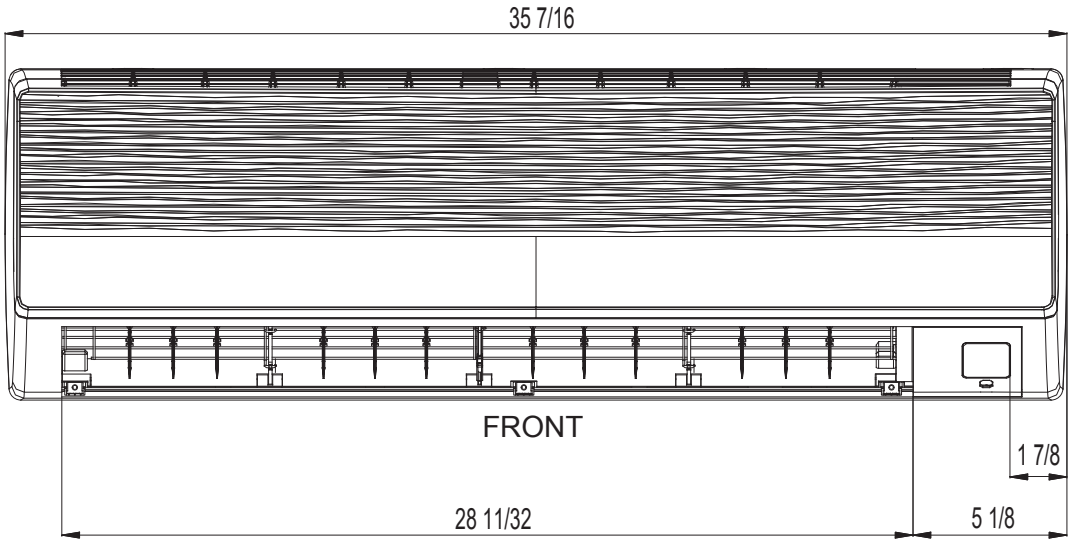
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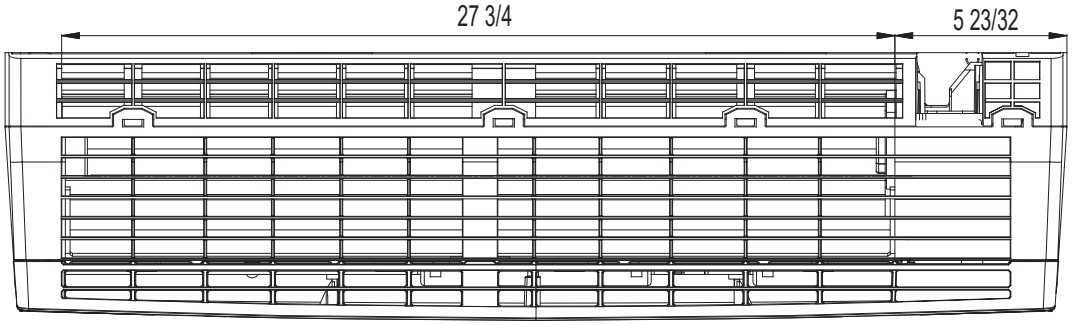
Samsung "Novus", Wall Mounted Evaporator, Split System

Indoor unit dimensional drawing

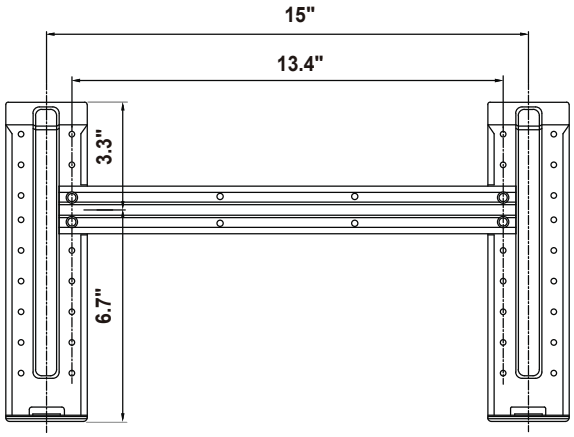
Unit: inches







Indoor unit mounting plate



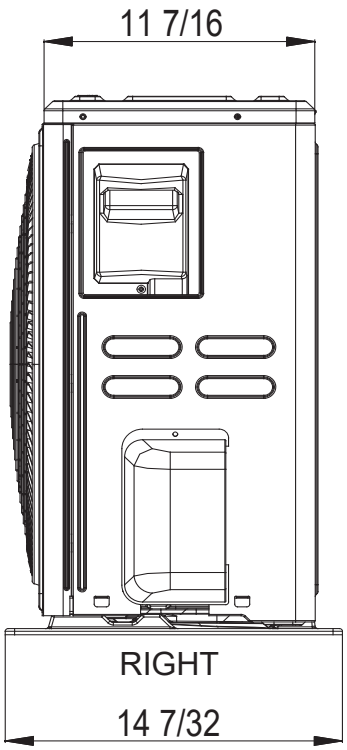
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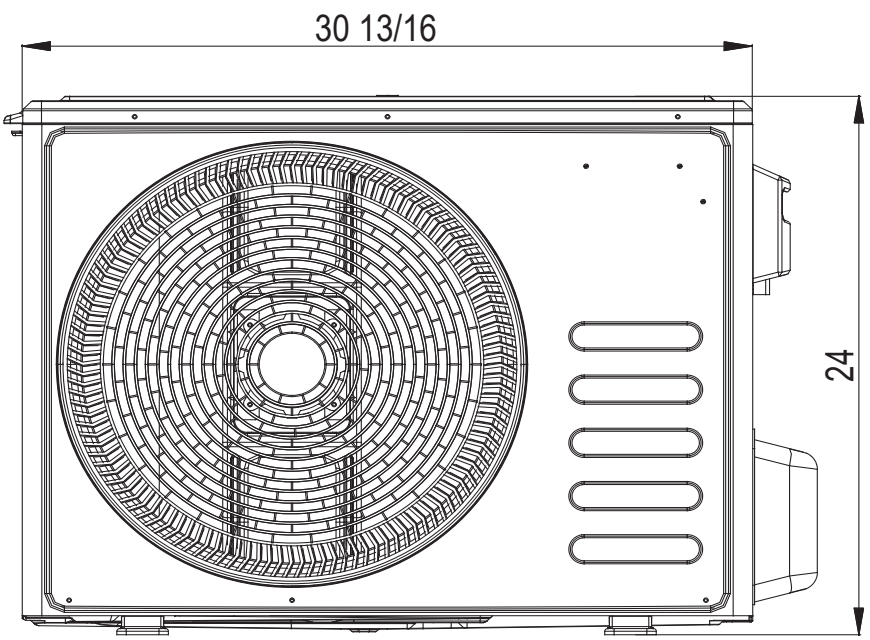
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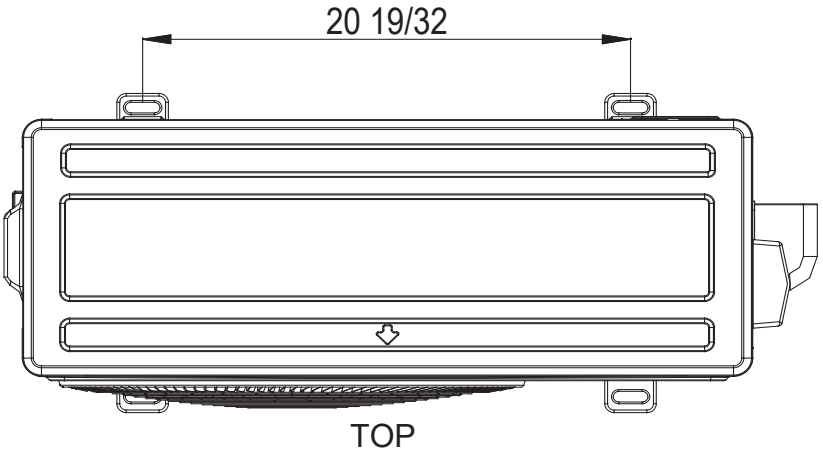
Samsung "Novus", Wall Mounted Evaporator, Split System

Outdoor unit dimensional drawing

Unit: inches

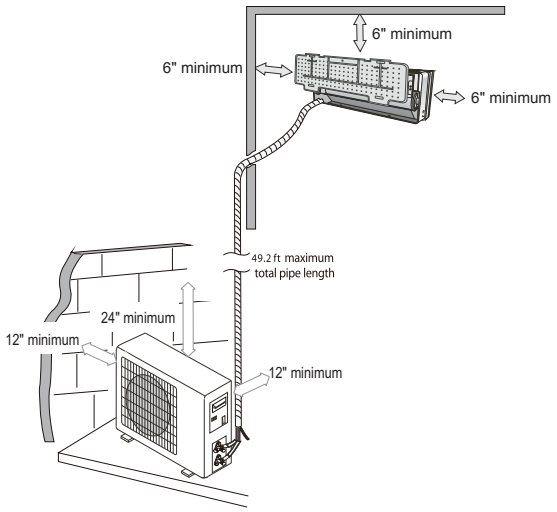






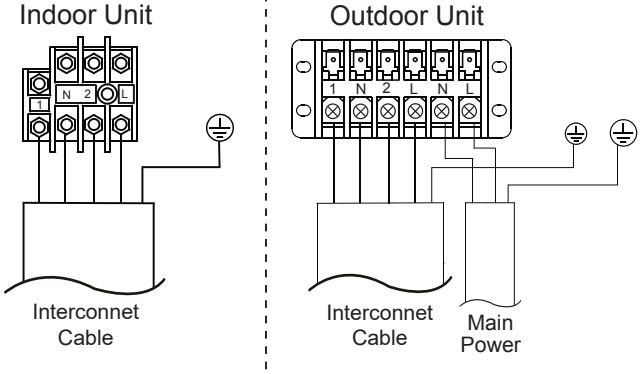
For reference only. Always refer to installation manual for complete details.

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 wiring between indoor and outdoor units (115V)



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