

Samsung "Novus", Wall Mounted Evaporator, Split System

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

Location _____
Engineer _____
Reference _____ Approval _____ Construction _____
Schedule # _____

Specifications

Model	System Model Number		AR12JSFLBWKXCV
	Indoor Unit Model Number		AR12JSFLBWKNVC
	Outdoor Unit Model Number		AR12JSFLBWKXCV
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		20.0 / 12.8
	COP (nominal heating)		3.38
	HSPF		9.0
Power	Condensate (pints/h)		2.49
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 254
	Operating Current (Low/Std./High)	Cooling (A)	2.7 / 5.0 / 6.4
		Heating (A)	3.0 / 5.2 / 8.3
	Max. Breaker	Amps	15
Dimensions	Min. Circuit Ampacity (A)		11
	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 23 13/16 X 11 7/16
	Weight (lbs.)	Indoor Unit	20.50
		Outdoor Unit	77.16
Heat Exchanger	Condensate Connection		13/16"
	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube
		Tube Diameter	9/32
	Indoor Unit	2 row / 15 step	
Sound Pressure Level	Outdoor Unit (dB)	2 row / 26 step	
	Indoor Unit (dB)	34 / 45	
Operating Temperatures (°F)	Outdoor	Quiet / High	59
		Cooling	14 ≤ T ≤ 115
	Indoor	Heating	5 ≤ T ≤ 75
		Cooling	62 ≤ T ≤ 90
Pipe Connections	High side (flare)	Heating	20 ≤ T ≤ 80
		Cooling	14 ≤ T ≤ 115
	Low side (flare)		3/8
	Maximum / Minimum Line Set Length (ft.)		50 / 9.8
Refrigerant	Maximum Vertical Separation (ft.)		16.4
	Type	R410A	
	Control Method	Electronic Expansion Valve	
	Factory Charge	oz.	40.56
Compressor	Charged for		25'
	Additional Refrigerant		0.22 oz./ft. over 25 ft.
Evaporator Fan	Type	BLDC, Inverter Driven, Rotary	
	RLA	A	
Condenser Fan	Type		7.5
	Air Volume	BLDC motor with cross-flow fan (1)	
		CFM (Turbo/H/M/L)	
Optional Accessories	FLA	425 / 353 / 282 / 247	
	Amps		0.4
	Motor		BLDC motor with axial fan (1)
Safety	Air Volume	CFM (max.)	
		1,342	
	FLA	Amps	
Warranty	5 Years Compressor, 1 Year Parts		0.45
	Condensate Pump	Aspen	ASP-MO-UNIV 110-250
	Blue Diamond	BD-BLUE230	
Optional Accessories	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	



(actual equipment appearance may vary)

General Information

- Outdoor unit shall provide 208/230V 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.

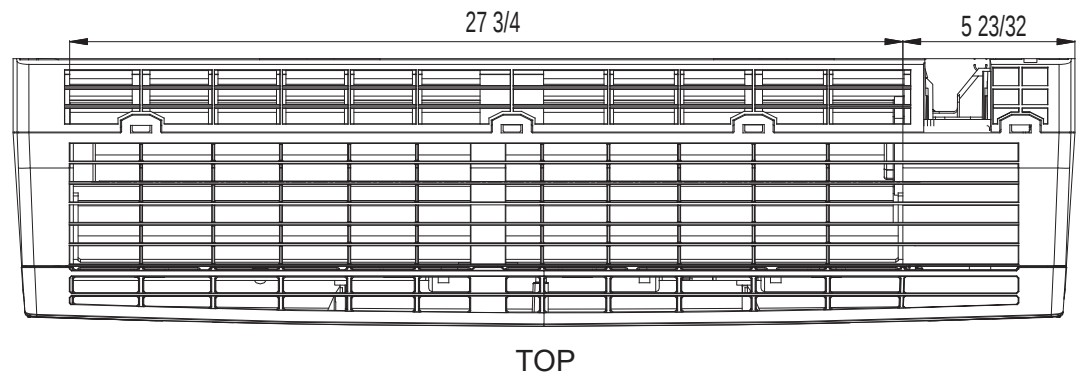
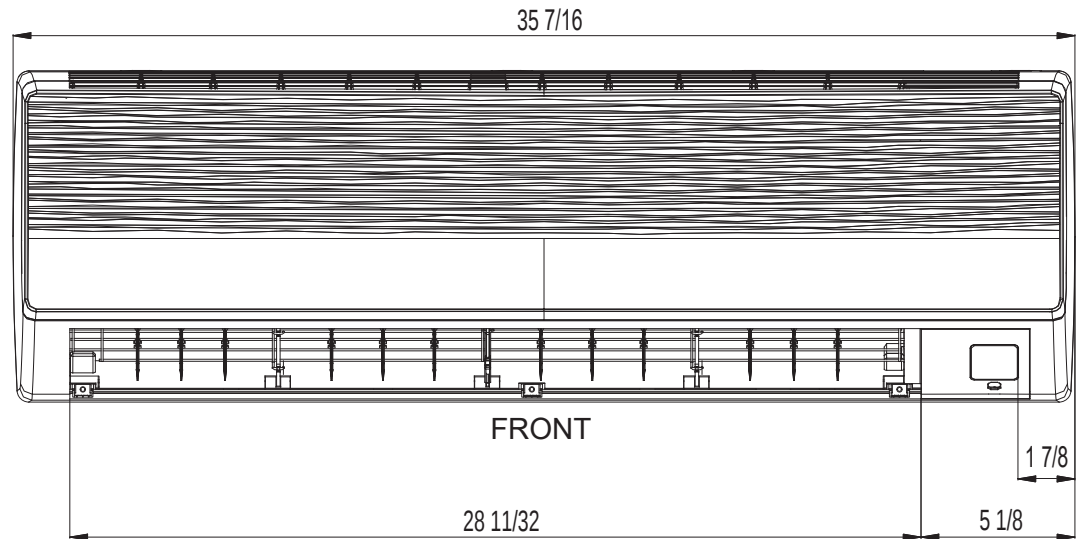
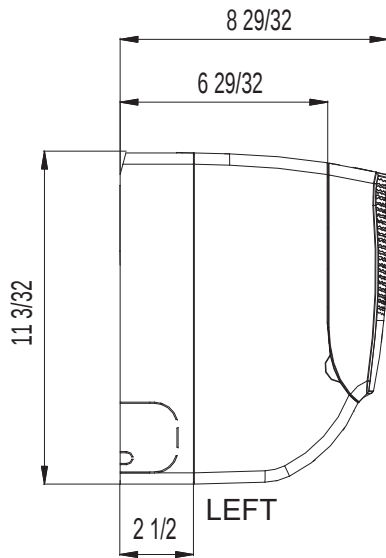
* Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB

* Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB

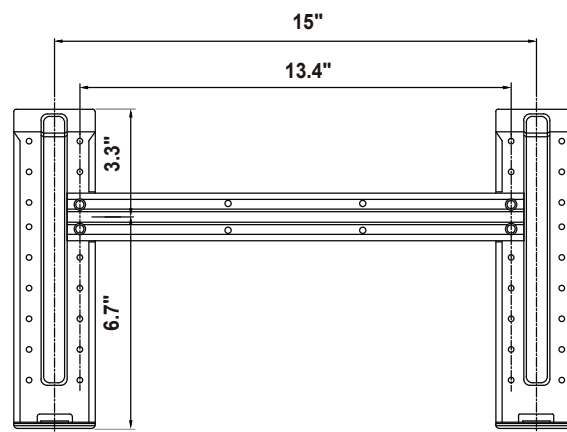


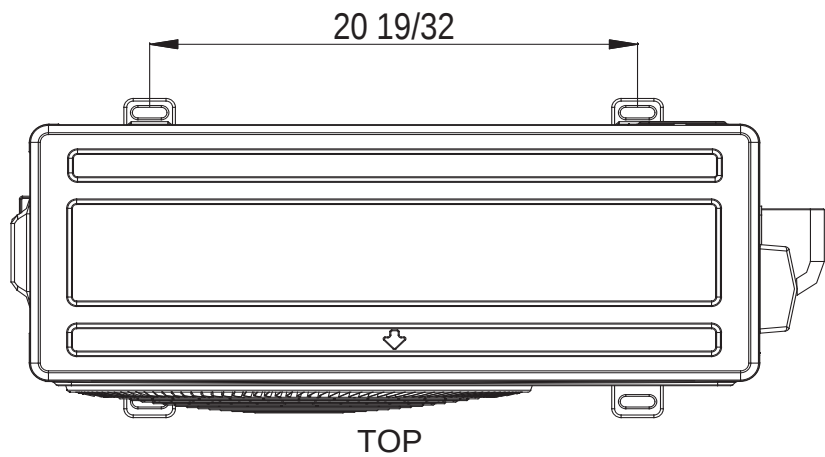
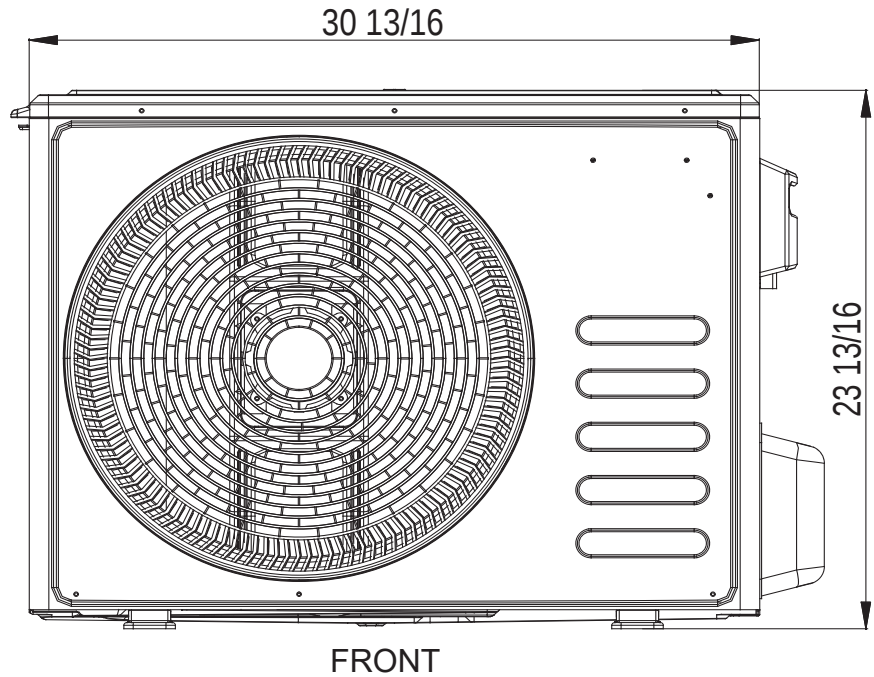
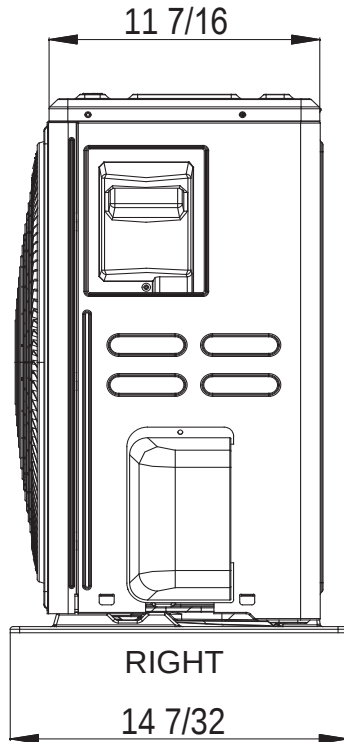
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Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your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



Indoor unit mounting plate

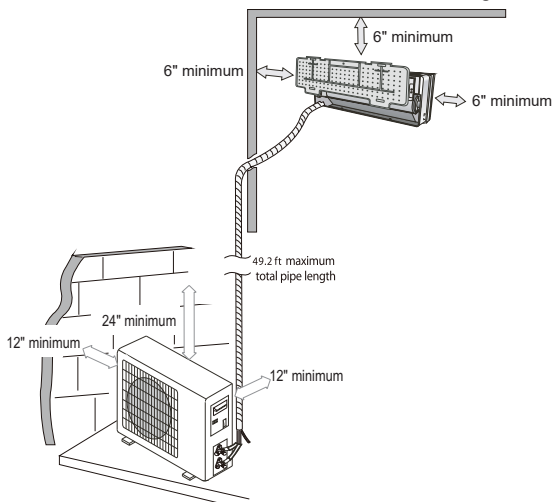




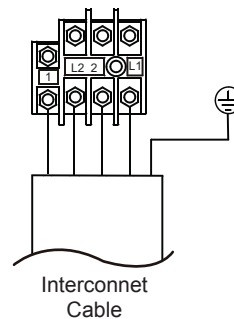
For reference only. Always refer to installation manual for complete details.

Minimum clearance from walls and ceiling

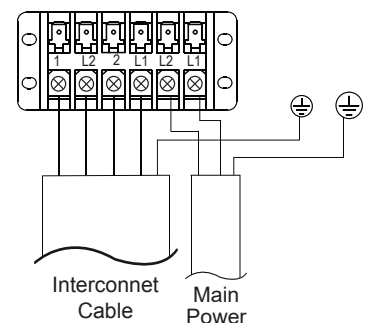
Basic power wiring between indoor and outdoor units (208/230V)



Indoor Unit



Outdoor Unit



Minimum clearance from nearby obstructions

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