

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	AR24JSFLBWKXCV	
	Indoor Unit Model Number	AR24JSFLBWKNVCV	
	Outdoor Unit Model Number	AR24JSFLBWKXCV	
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	22,000 / 24,000
	Capacity Range	Cooling (Btu/h)	10,000 - 27,000
		Heating (Btu/h)	9,500 - 31,000
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 254
	Operating Current (Low/Std./High)	Cooling (A)	3.9 / 9.3 / 14.2
		Heating (A)	4.2 / 11.4 / 18.2
	Max. Breaker	Amps	30
	Min. Circuit Ampacity (A)		22
Dimensions	W X H X D (in.)	Indoor Unit	46 11/16 X 13 3/8 X 10 1/4
		Outdoor Unit	35 7/16 X 31 11/16 X 14 3/16
	Weight (lbs.)	Indoor Unit	36.38
		Outdoor Unit	130.07
	Condensate Connection		13/16"
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube
		Tube Diameter	9/32
	Indoor Unit		2 row / 17 step
	Outdoor Unit		2 row / 36 step
Sound Pressure Level	Indoor Unit (dB)	Quiet / High	40 / 52
	Outdoor Unit (dB)	High	61
Operating Temperatures (°F)	Outdoor	Cooling	14 ≤ T ≤ 115
		Heating	5 ≤ T ≤ 75
	Indoor	Cooling	62 ≤ T ≤ 90
		Heating	20 ≤ T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8
		Low side (flare)	5/8
	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.	75.84
	Charged for		25'
	Additional Refrigerant		0.32 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)	812 / 636 / 565 / 495
	FLA	Amps	0.65
Condenser Fan	Motor		BLDC motor with axial fan (1)
	Air Volume	CFM (max.)	2,154
	FLA	Amps	0.95
Optional Accessories	Condensate Pump	Aspen	ASP-MQ-UNIV 110-250
		Blue Diamond	BD-BLUE230
	Wall bracket (for outdoor unit)		CKN-250 or CKN-500
	Line sets - insulated and flared, interconnect cables included		25' - SLS2508
			50' - SLS5008
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		

* 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



(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

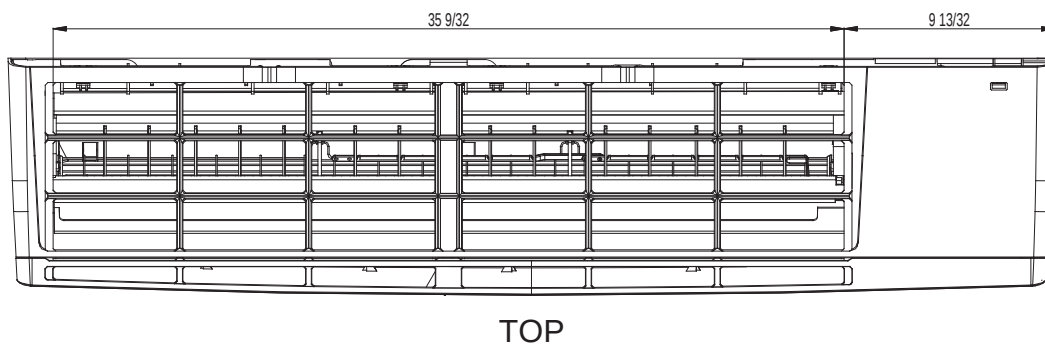
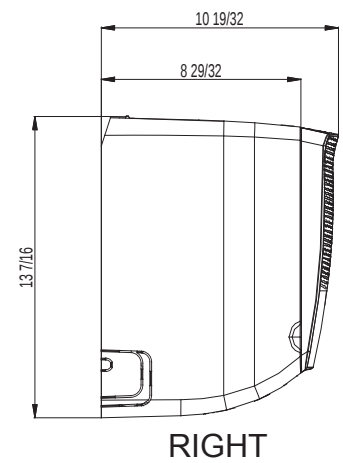
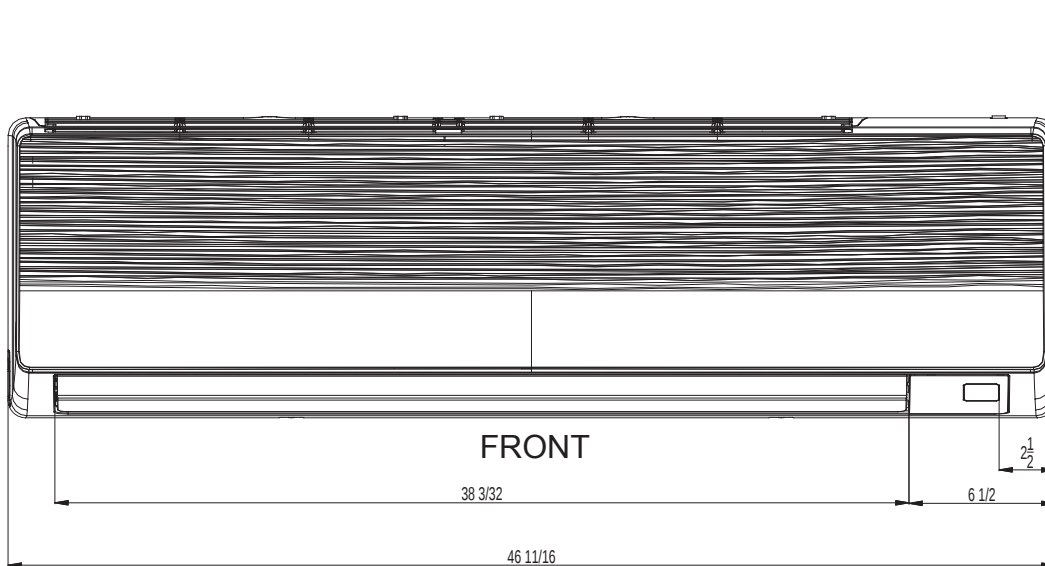
- The indoor fan shall be a single, antibacterial cross-flow type
- Three fan speed settings and auto setting
- Automatic (motorized) vertical (up and down) swing louvers (2)

Controls

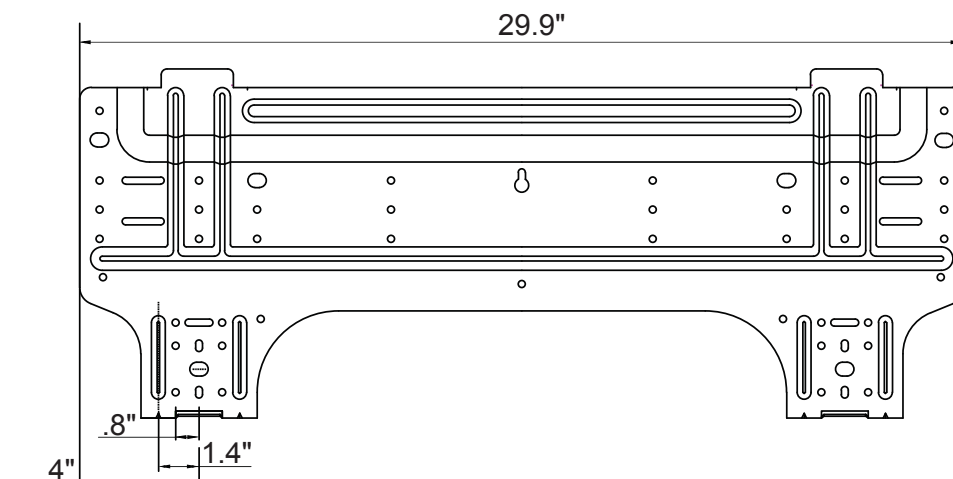
- Control signal shall be DDC type signal
- Interconnect wiring shall be 14 AWG X 5 wire between outdoor and indoor unit
- Unit shall be operated via wireless controller as standard
- The indoor unit shall ship with a wireless controller and batteries as standard

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.

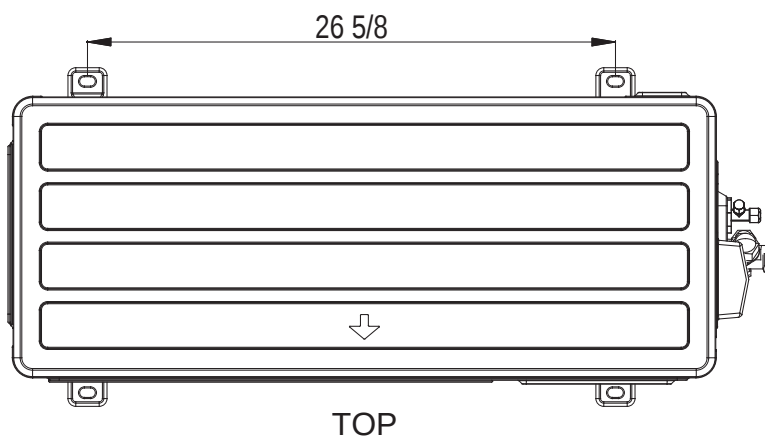
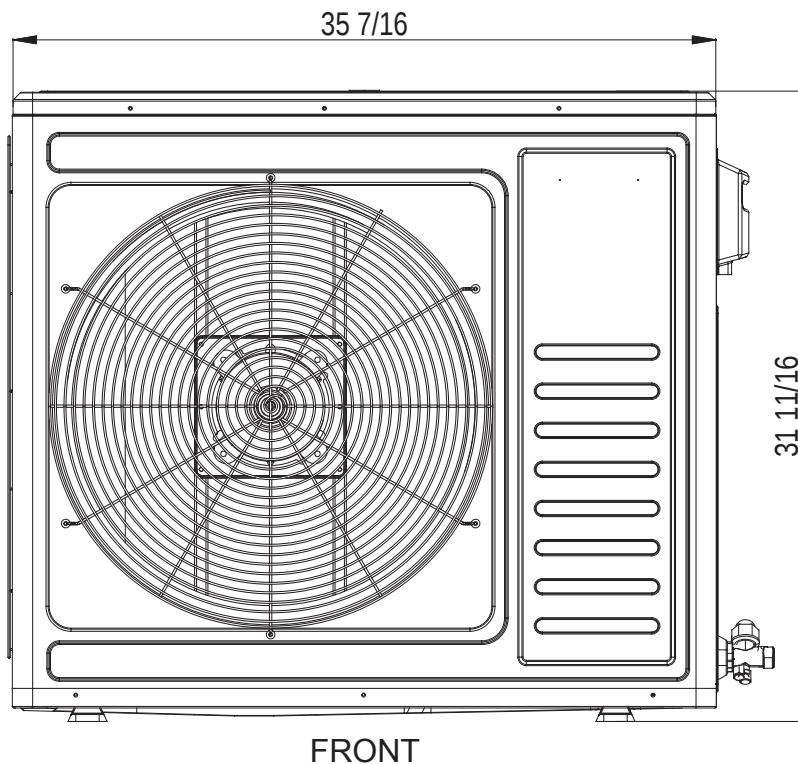
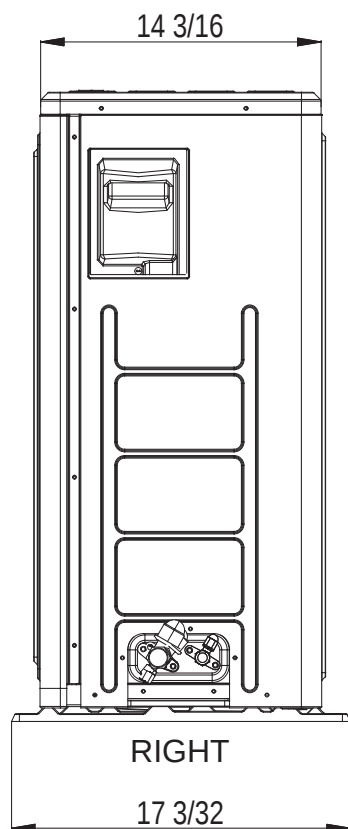


Indoor unit mounting plate



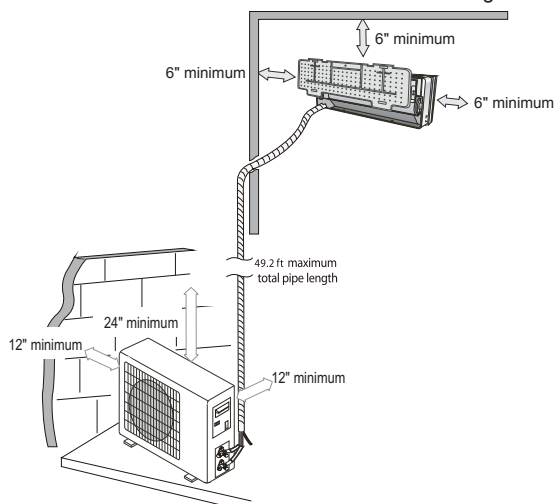
Samsung "Novus", Wall Mounted Evaporator, Split System
Outdoor unit dimensional drawing

Unit: inches

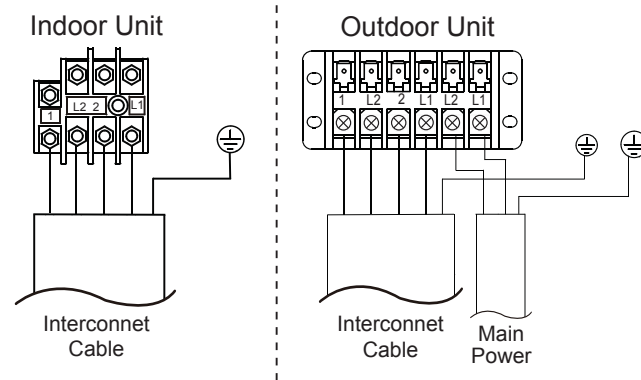


For reference only. Always refer to installation manual for complete details.

Minimum clearance from walls and ceiling



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



Minimum clearance from nearby obstructions
(See installation manual for full details. Be aware of national, state, and local codes)

888-699-6067
www.SamsungHVAC.com