SAMSUNG

SUBMITTAL AR36BSHUMGMNCV / AR36BSHUMGMXCV (RNS36UMB / RXS36UMB)

Samsung High-Wall Evaporator, Split System

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

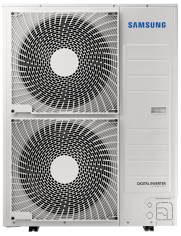
Specifications

Model	Indoor Unit Model Number (US Code)		AR36BSHUMGMNCV (RNS36UMB)
	Outdoor Unit Model Number (US Code)		AR36BSHUMGMXCV (RXS36UMB)
Performance [1]	Nominal Capacity	Cooling / Heating (Btu/h)	36,000 / 40,000
	Capacity Range	Cooling (Btu/h)	9,500 - 39,000
		Heating (Btu/h)	9,500 - 47,000
	SEER2		19.2
	EER2		9.5
	HSPF2		8.5
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current (min. / std. / max.)	Cooling (A)	5.0 / 16.8 / 19.1
		Heating (A)	3.0 / 20.0 / 24.0
	Max. Breaker	Amps	35
	Min. Circuit Ampacity (A)		21.4
Dimensions	W X H X D (in.)	Indoor Unit	50 3/8 X 9 15/16X 13 9/16
		Outdoor Unit	37 X 47 5/8 X 13
	Weight (lbs.)	Indoor Unit	40.8
		Outdoor Unit	189.6
Sound Pressure Level	Indoor Unit dB(A)	Silent / L / M / H	38 / 46 / 48 / 51
	Outdoor Unit dB(A)	Cooling / Heating (high)	52 / 54
Operating Temperatures	Outdoor	Cooling	23 ~115°F (-5~ 46°C)
			0~115°F (-18~ 46°C) W/ Baffle
		Heating	-4~75°F (-20 ~ 24°C)
	Indoor	Cooling	61 ~90°F (16 ~32°C)
		Heating	T≤ 86°F (30°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection		1 1/4 O.D X 1 I. D
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	lbs.	6.39
	Charged for		24.6 ft
	Additional Refrigerant		0.11 oz/ft over 24.6 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	14.7
Evaporator Fan	Type		BLDC (1) With Crossflow Fan (2)
	Air Volume	CFM (L/M/H)	699 / 752 / 830
	Output (W) / FLA (A)		58 W / 0.51 A
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
	FLA / Watts / CFM (max.)		1.25 A / 125 W / 3,532 CFM
Safety	Certifications		ETL (UL 60335-2-40)
	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing		

[1]Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023.

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

Proper sizing and installation of equipment is critical to achieve 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.



General Information

- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- High-voltage terminal block temperature sensor to disable unit in the event of power connection overheating
- Auto-restart after power loss
- Soft-start compressor minimizing current inrush
- All heat exchangers shall be mechanically bonded aluminum fin to copper tube
- The condensing unit heat exchanger salt spray test method: ASTM-B117-18 - the heat exchanger showed no unusual rust or corrosion development to 2,280 hours.

Option settings

- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- Night-time Quiet Mode: reduction of operational sound during evening hours *(automatic or manual activation)*
- Emergency Temperature Output (ETO) function: when indoor unit is in error status or when room temperature exceeds configurable temperature level, the system outputs a signal to an external source, e.g., backup system, building management system, alert device (ex: status light, warning lamp, buzzer)
- System can be configured as heating/cooling, cooling only, or heating only via outdoor unit option setting
- Maximum Current Control configurable from 50% - 100% via outdoor unit, wired controller, or central controls

Indoor Fan

- Indoor fan is a single crossflow type
- Three fan speed settings and auto setting
- Washable filter as standard

Construction

- Outdoor unit: Galvanized steel with a baked-on powder coated finish for durability
- Indoor unit: UL94 V0 with a galvanized steel mounting plate

Controls

- Control wiring shall be 2 X 16 AWG
- Wireless controller included as standard
- Wired controllers must be purchased separately
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options
- No additional interface modules/adapters are required when connecting to Samsung central control options
- The unit shall be operated via a wireless or wired remote control with DDC type signal

Refrigerant System

- The compressor shall be hermetically sealed, inverter-controlled Twin BLDC rotary type
- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

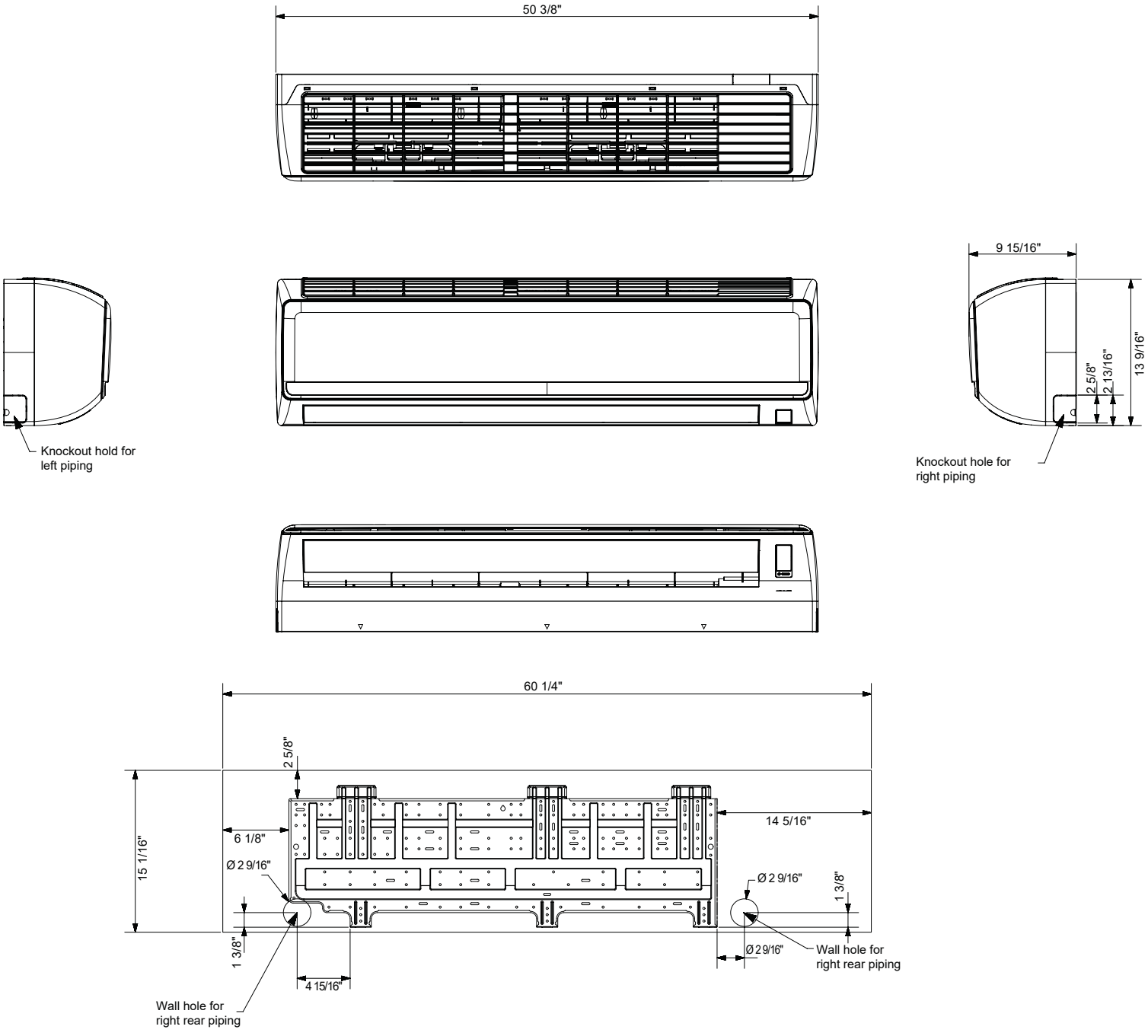
Warranty

10 years compressor, 10 years parts, 1-year limited labor (conditions apply)

Optional Accessories

Wired Controller	Advanced	☐ MWR-WG00UN
	Touchscreen	☐ MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		☐ MIM-A60UN
Wi-Fi adapter		☐ MIM-H04UN
External Temperature Sensor		☐ MRW-TA
External Contact Control		☐ MIM-B14
Wall Bracket (for outdoor unit)		☐ CKN-250
Wind Baffles	Front	☐ WBF-1M2
	Back	☐ WBB-2M-B
Hail Guard		☐ TBD
Line Sets - insulated and flared, interconnect cables included		☐ 25' - ILS-2510
		☐ 50' - ILS-5010

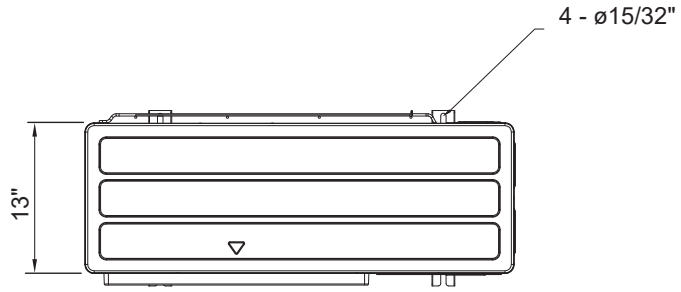
AR36BSHUMGMNCV Dimensional Drawing



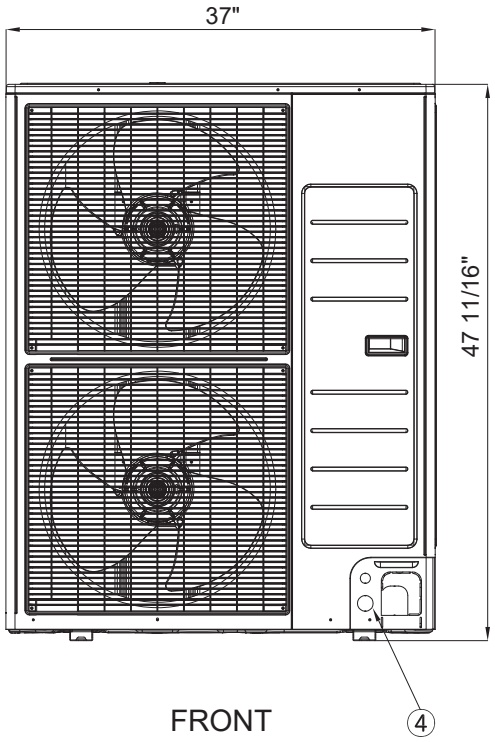
No.	Name	Description
1	Liquid pipe connection	3/8"
2	Gas pipe connection	5/8"
3	Drain pipe connection	11/16"
4	Power supply & Communication wiring conduit	-

Samsung High-Wall Evaporator, Split System

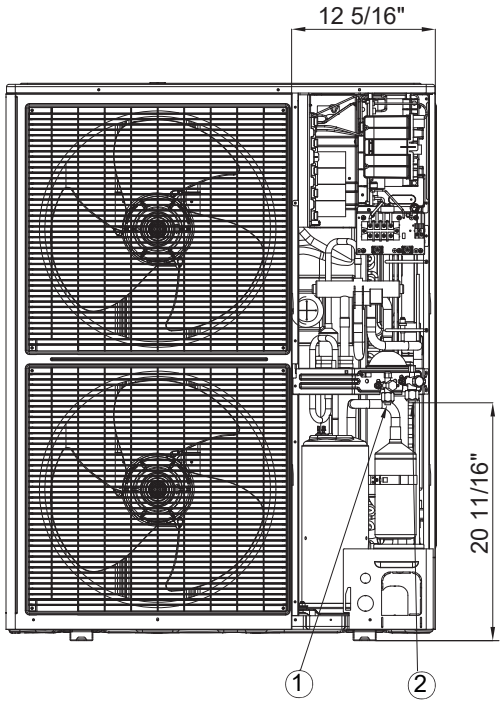
AR36BSHUMGMXCV Dimensional Drawing



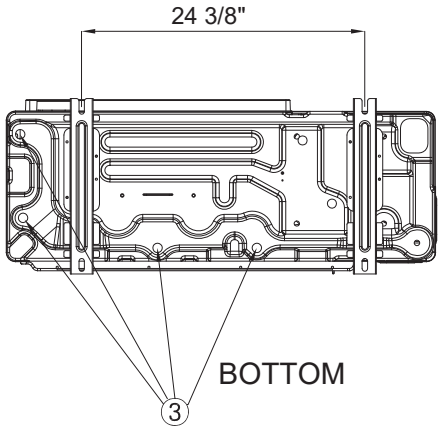
TOP



FRONT



FRONT WITHOUT SERVICE COVER



BOTTOM

No.	Name	Description
1	Refrigerant liquid pipe	3/8
2	Refrigerant gas pipe	5/8
3	Drain hole	Connect with provided drain plug
4	Power and communication conduit openings	--