SAMSUNG

Submittal Data

AR36DXFUMGMNCV (RNX36UMD) / AR36DXFUMGMXCV (RXX36UMD)

High-Wall, Single Zone, Heat Pump, Split System (Premium)

Job Name: _____ Location: _____

Purchaser: _____ Engineer: _____

Submitted to: _____ Reference ☐ Approval ☐ Construction ☐

Unit designation: _____ Schedule #: _____

General Information

- The system shall feature Comfort Humidity Control. Utilizing an integral humidity sensor, the system optimizes the indoor unit coil temperature according to the dew point, maximizing energy savings while. Unit also provides space dehumidification whenever the system is at or near set point. Comfort Humidity Control is only available when operating in Auto, AI Auto, Cooling with auto fan, or Dry modes.
- The system shall provide high heating capacity at -4°F (-20°C) with heating operation down to -13°F (-25°C).
- The outdoor unit shall have a base pan heater as standard for optimal defrost cycle water drainage.
- The system shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.
- The outdoor unit shall provide 208/230V power to the indoor unit via 14 AWG X 3 interconnect power cable.
- Interconnecting control wiring between the outdoor to indoor shall be 2-conductor/stranded copper/shielded cable between 18-16 AWG.

Construction

- Outdoor unit: Galvanized steel with a baked-on powder-coated finish for durability.
- The indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket
- All heat exchangers shall be mechanically boded aluminum fin to copper tube.

Refrigerant System

- The system shall utilize low-GWP R-32 refrigerant
- Refrigerant flow shall be controlled by an electronic expansion valve at the outdoor unit

Indoor Fan

- Three fan speed settings and auto settings
- Automatic (motorized) vertical swing (up/down) louver

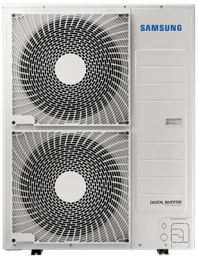
Controls

- The indoor unit shall ship with a rechargeable, solar-cell wireless controller. The wireless controller battery shall be charged with a USB C cable or the integral solar panel.
- The included wireless controller shall have a pixel display that is visible in low light conditions.
- The unit shall be operated via a wireless or wired remote control with DDC-type signal (wired controller sold separately)
- Dual set temperature support when connected to supported controllers.
- No additional interface modules/adapters are required when connecting to Samsung central control options.

External Heat Control

- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat (MIM-B14U accessory required).
- External heat control configuration settings include outside ambient external heat lockout, outside ambient compressor lockout, and time delay options (MIM-B14U accessory required).
- Emergency heat functionality allows the system to continue controlling the external heat source even when system errors prevent the heat pump from operating (MIM-B14U accessory required).
- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat
- Emergency heat functionality allows the system to continue controlling the external heat source even when system errors prevent the heat pump from operating





Note: Unit appearance may vary slightly

Convenience

- 7-segment digital display on the front of the unit to display temperature and unit status
- Washable main filter as standard accessible from the top of the unit
- The outdoor unit shall have a 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 a configurable temperature level, the system outputs a signal to an external source (e.g., backup system, building management system, alert device like status light, warning lamp, or buzzer).
- The 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.

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 or visit www.energystar.gov.

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

System Specifications

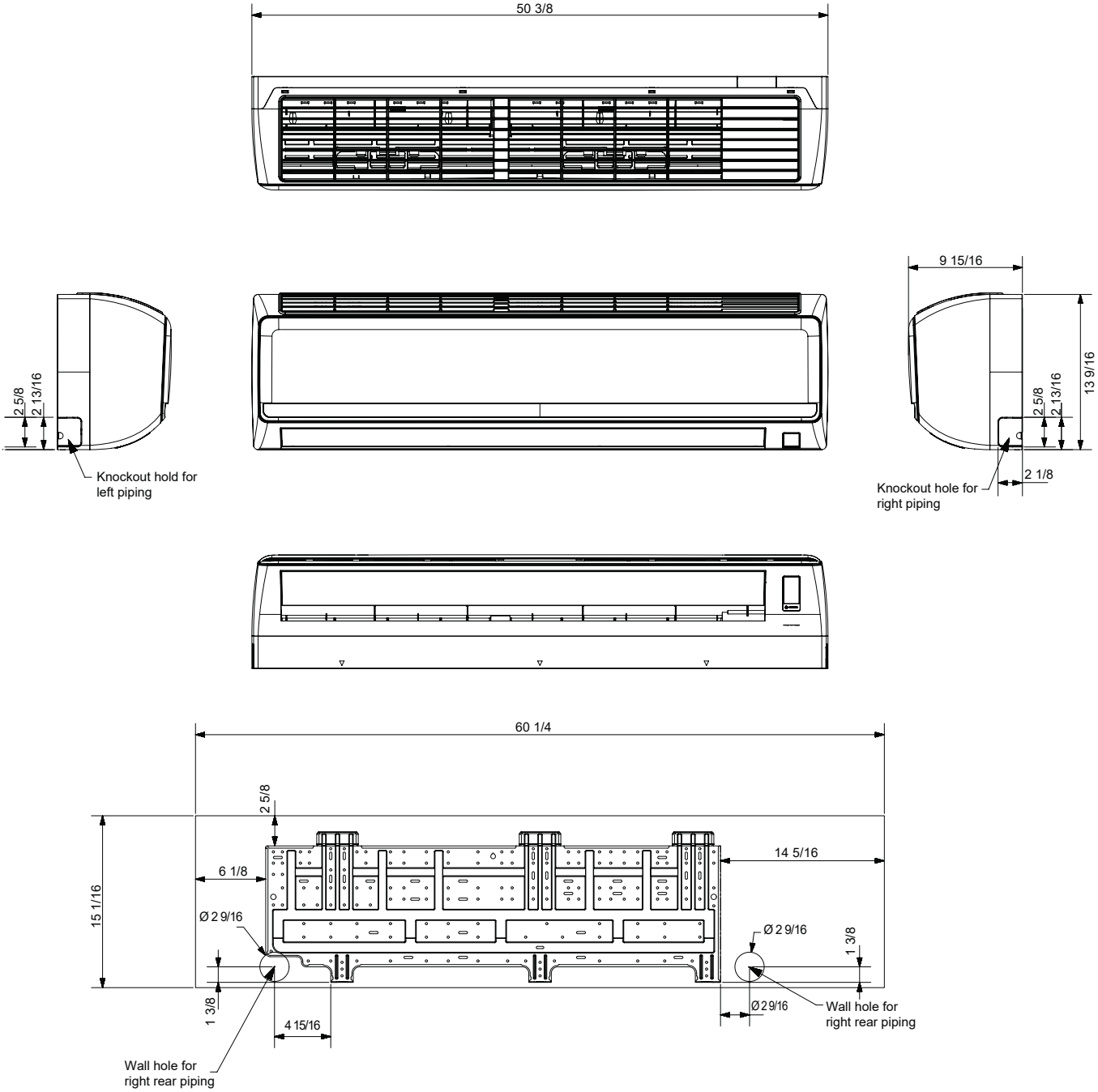
Model	Indoor Unit Model Number (US Code)		AR36DXFUMGMNCV (RNX36UMD)
	Outdoor Unit Model Number (US Code)		AR36DXFUMGMXCV (RXX36UMD)
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	33,000 / 40,000
	Capacity Range	Cooling (Btu/h)	12,000 - 45,000
		Heating (Btu/h)	10,000 - 54,000
	AHRI 210-240 2023	SEER2	20.00
		EER2	12.00
		HSPF2 (region IV)	9.00
		5°F COP	1.80
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 253
	Operating Current (min. / standard / max.)	Cooling (A)	2.1 / 15.0 / 24.0
		Heating (A)	3.0 / 20.0 / 24.0
	Max. Breaker	Amps	40.0
	Min. Circuit Ampacity	Amps	35.8
Dimensions	W X H X D (in.)	Indoor Unit	50 3/8 X 10 X 13 5/8
		Outdoor Unit	37 X 55 7/8 X 13
	Weight (lbs.)	Indoor Unit	40.80
		Outdoor Unit	211.60
Sound Pressure Level	Indoor Unit dB(A)	L / M / H / Turbo	38 / 46 / 48 / 51
	Outdoor Unit dB(A)	Cooling / Heating (high)	60 / 60
Operating Temperatures	Outdoor	Cooling	23 - 122°F (-5 - 50°C)
			-4 - 122°F (-20 - 50°C) W/Baffle
		Heating	-13 - 75°F (-25 - 24°C)
	Indoor	Cooling	64 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 86°F (30°C)
Pipe Connections	Indoor & Outdoor	High side (In.)	3/8
		Low side (In.)	5/8
	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98
	Condensate Connection		11/16" OD
Refrigerant	Type		R-32
	A2L Leak Detection		Not Included
	Factory Charge	oz.	123.5
	Charged for		24.6 ft.
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	22.6
Evaporator Fan	Type		BLDC motor with cross-flow fan
	Output	Watts	58
Airflow	Air Volume (L/M/H)	Cooling (CFM)	699 / 752 / 830
		Heating (CFM)	699 / 752 / 830
Condenser Fan	Type		BLDC With Axial Type Fan (2)
	MOC / Watts / CFM (max.)		1.2A X 2 / 125W X 2 / 4,415
Corrosion Prevention	IS0-9227 - The condenser heat exchanger showed no unusual rust or corrosion development to 2,280 hours.		
Safety	Certifications	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	
	Battery Chemistry	(Remote Control only) Lithium Ion	

Accessories

Condensate pump	Ghost™ Internal Mount w/Reservoir; 100-240VAC	☐ 83809
	Ghost™ Remote Mount w/Reservoir; 100-240VAC	☐ 83909
	Blue Diamond MaxiBlue V2 w/Reservoir; 115-230V	☐ X88-721
	Blue Diamond MaxiBlue V2 w/Reservoir and Slim Fascia kit; 115-230V	☐ X88-011
Wired controller	Advanced	☐ MWR-WG01UN
	Touchscreen	☐ MWR-SH12UN
Thermostat adapter (for connection to standard 24VAC thermostats)		☐ MIM-A60UN
External temperature sensor		☐ MRW-TAU
External contact control interface module		☐ MIM-B14U
Wall bracket (for outdoor unit)		☐ CKN-250
Wind baffles	Front	☐ WBF-8M
	Back	☐ WBB-4M

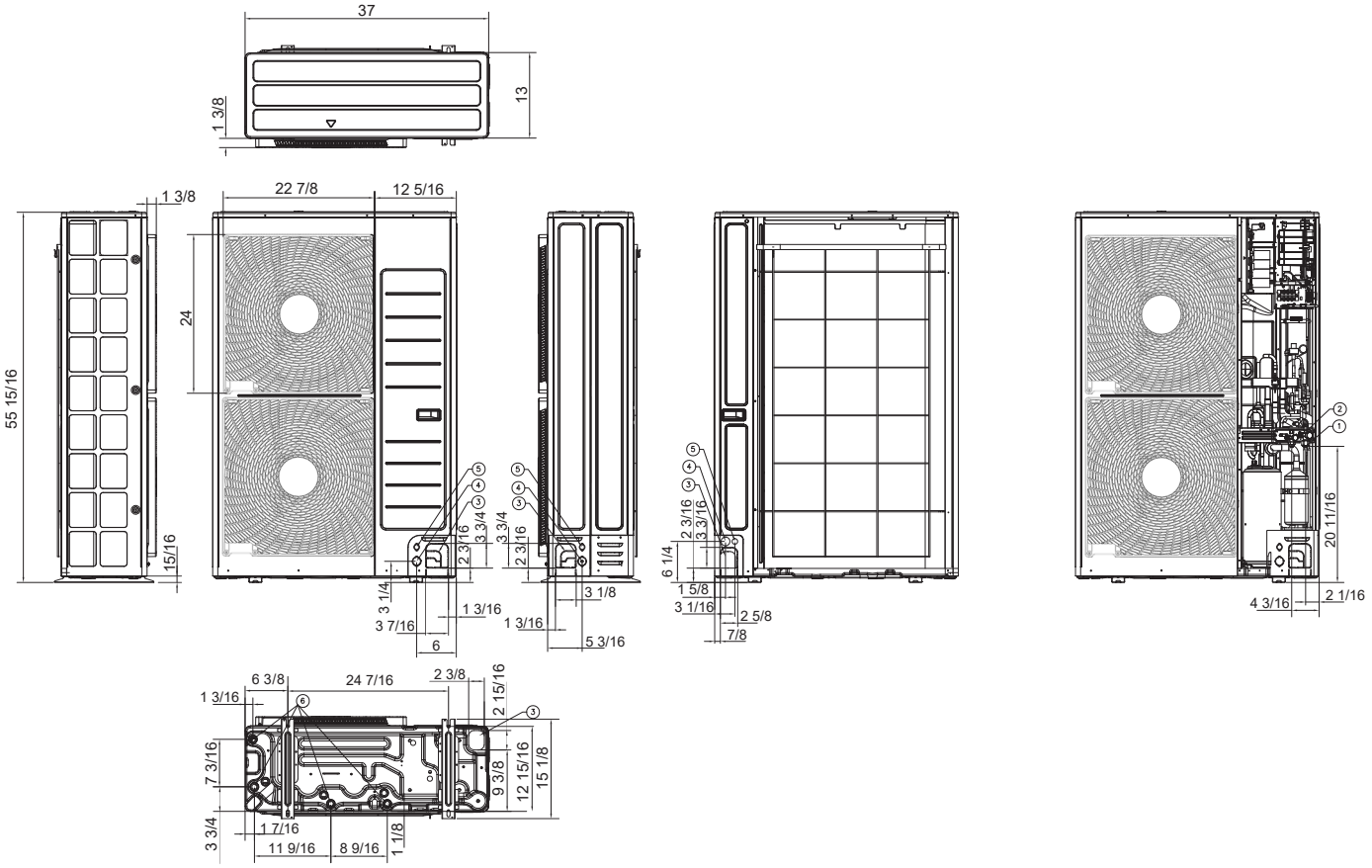
Dimensional Drawing
AR36DXFUMGMNCV (RNX36UMD)

Unit: Inches



Dimensional Drawing
AR36DXFUMGMXCV (RXX36UMD)

Unit: Inches



No.	Description
1	Liquid pipe connection
2	Gas pipe connection
3	Pipe intake knockout hole
4	Opening for power wire conduit (1 3/8")
5	Opening for communication conduit (7/8")
6	Drain hole