Job Name _____   Location _____
Purchaser _____   Engineer _____
Submitted to _____   Reference _____ Approval _____ Construction _____
Unit Designation _____   Schedule # _____

Specifications

Model	US Code	Indoor Unit	RNS12CMB
		Outdoor Unit	RXS12CMB
	Model Number	Indoor Unit	AR12BSFCMWKNCV
		Outdoor Unit	AR12BSFCMWKXCV
Performance	Nominal Capacity [1]	Cooling / Heating (Btu/h)	12,000 / 12,000
	Capacity Range	Cooling (Btu/h)	3,000 - 14,500
		Heating (Btu/h)	2,600 - 20,000
	SEER / EER		21.5 / 12.05
	COP	Nominal Heating	3.66
	HSPF		12.0
	AHRI Reference Number		207349354
Power	Voltage	Ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254
	Operating Current (Min./Std./Max.)	Cooling (A)	1.2 / 4.8 / 6.2
		Heating (A)	1.1 / 4.6 / 9.3
	Max. Breaker	Amps	20
	Min. Circuit Ampacity (A)		12.5
Dimensions	W X H X D (in.)	Indoor Unit	32 5/16 X 11 3/4 X 8 7/16
		Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4
	Weight (lbs.)	Indoor Unit	20.1
		Outdoor Unit	69.9
	Condensate Connection		11/16" OD
Sound Pressure Level	Indoor Unit	Low / High (dB)	20 / 38
	Outdoor Unit	High (dB)	46
Operating Temperatures	Outdoor	Cooling	14° ~ 115°F (-10° ~ 46.1°C)
		Heating	-5° ~ 75°F (-20.5° ~ 23.9°C)
	Indoor	Cooling	61° ~ 90°F (16° ~ 32°C)
		Heating	81°F (27°C) or less
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	3/8"
	Maximum / Minimum Line Set Length (ft.)		66 / 9.8
	Maximum Vertical Separation (ft.)		49
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	35.3
	Charged for		25 feet
	Additional Refrigerant		0.16 oz. / ft. over 25 ft.
Compressor	Manufacturer		Samsung
	Type		BLDC Rotary
	RLA	A	9.2
Evaporator Fan	Type		BLDC motor with cross-flow fan
	Air Volume (L/M/H/Turbo)	Cooling (CFM)	300 / 335 / 371 / 385
		Heating (CFM)	335 / 371 / 403 / 420
	Consumption	Watts	27 X 1
	FLA	Amps	0.12
Condenser Fan	Motor		BLDC motor with axial fan (1)
	Output	Watts	40
	FLA	Amps	0.18
	Air Volume	CFM (max.)	1,589
Safety	Certifications		ETL (UL 1995)
	Devices		PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing

[1] 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.

*The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.
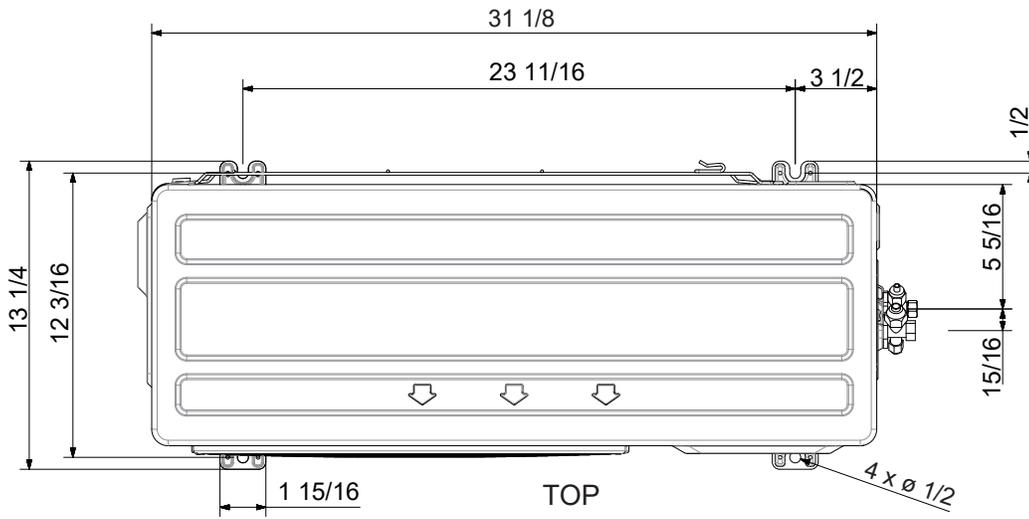
(actual equipment appearance may vary)

General Information
- The indoor unit shall feature WindFree™* mode. In cooling mode, as room temperature nears set temperature, the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants.
- The indoor unit shall have Wi-Fi capability as standard
- Outdoor unit shall provide 208/230V power to indoor unit via 14 AWG X 3 interconnect power cable

Construction
- Indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket
- The indoor unit shall have easy-access to wire, pipe, and drain connections via access panel on the bottom of the unit for simple installation and service
- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

Heat Exchanger
- The heat exchangers 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 an electronic expansion valve at the 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 swing (up/down) and horizontal swing (left/right) louvers

Controls
- The system shall have a built in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app (Android, iOS)
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller and supported central control options.
- The indoor unit shall have a simple connection for overflow detection devices or any other normally closed contact for simple unit shutdown
- The indoor unit shall ship with a wireless controller, holder, and batteries
- Wired controller options available
- Samsung central control compatible (MIM-R10UN accessory required)
- Interconnect control wire between outdoor and indoor unit shall be 16AWG X 2

Convenience
- System energy consumption can be viewed using the Samsung SmartThings mobile app or on the indoor unit display using the included wireless controller
- AI (artificial intelligence) Auto Mode technology monitors factors such as indoor temperature, outdoor temperature, set temperature, and operating time to learn the patterns within your home to automatically adjust system operation to maximize occupant comfort and efficiency (Wi-Fi connection required)
- Eco Mode to reduce energy consumption during low demand operation
- Smart install mode - startup system diagnostics operation to ensure system readiness during initial operation
- Auto restart
- Auto Clean Function
- 7-segment digital display on front of unit to display temperature and unit status
- "Fast" mode to quickly reach set temperature
- Auto changeover
- Good sleep mode
- Quiet mode
- Dry mode
- Simple ON/OFF time function – Using the wireless controller specify the ON and/or OFF times
- Electro-static, washable, main filter as standard accessible from the top of unit
- Filter cleaning reminder

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Optional Accessories

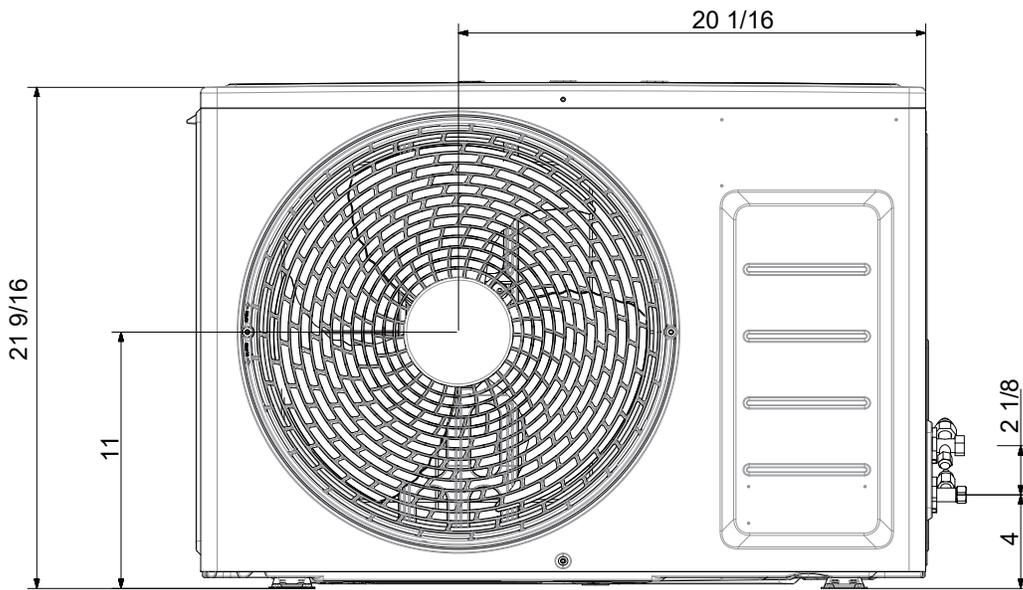|		
Condensate pump	Aspen Mini Orange	ASP-MO-UNIV 110-250
	Blue Diamond	BD-BLUE-230
Wired controller [1]	Advanced	MWR-WG00UN
	Simple Touch	MWR-SH11UN
Wired controller sub-PCB		MIM-A00UN
24 VAC thermostat adapter [1]		MIM-A60UN
External temperature sensor		MRW-TA
Central control interface module		MIM-R10UN
External contact control interface module [2]		MIM-B14
Line sets - insulated and flared, interconnect cables included		25' - ILS2506
		50' - ILS5006
Wall bracket (for outdoor unit)		CKN-250
Wind Baffle / Guard	Front	WBF-3M
	Back	WBB-5M

[1] Sub-PCB model MIM-A00UN is required when connecting optional wired controllers or MIM-A60UN 24VAC thermostat adapter.

[2] When applying MIM-B14 external contact control interface module, MIM-A00UN wired controller sub-PCB is required.
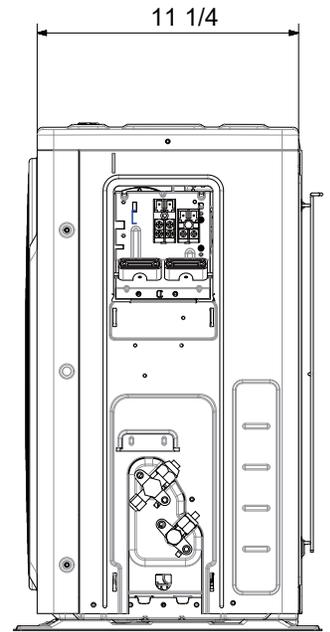
Unit: inches

32 5/16

8 7/16

2 1/16

2 9/16

11 3/4

1 7/8

32 5/16

15 11/16

16 5/8

2 7/16

11 3/4

1 1/8

⌀ 2 9/16

⌀ 2 9/16

1 1/8

6 15/16

15 5/8

3 5/16

2 1/2

2 1/2

Unit: inches

31 1/8

23 11/16

3 1/2

1/2

13 1/4

12 3/16

5 5/16

15/16

1 15/16

TOP
(pictured without valve/wire cover on right side)

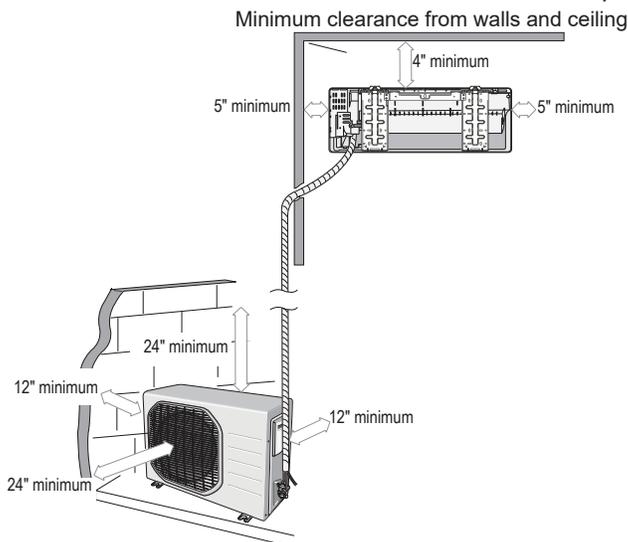4 x ø 1/2

11 1/4

20 1/16

21 9/16

11

2 1/8

4

FRONT
(pictured without valve/wire cover on right side)

RIGHT
(pictured without valve/wire cover)

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

Minimum clearance from walls and ceiling

4" minimum

5" minimum

5" minimum

24" minimum

12" minimum

12" minimum

24" minimum

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

Basic power and communication wiring
between indoor and outdoor units

Indoor Unit

L1 L2 F1 F2

L1 L2 F1 F2

F1 F2

Communication

L1 L2

Main Power

Outdoor Unit

888-699-6067
www.SamsungHVAC.com