Job Name	
Purchaser	
Submitted to	
Unit Designation	

		Specifications		
	Indoor Unit Model Nu	mber (US Code)	AC024BNHDCH/AA (CNH24HDB	
Model	Outdoor Unit Model Number (US Code)		AC024BXADCH/AA (CXH24ADB)	
	Nominal Capacity	Cooling / Heating (Btu/h)	24,000 / 27,000	
	Norminal Capacity	Cooling (Btu/h)	8,400 - 32,000	
	Capacity Range	Heating (Btu/h)	7,000 - 39,000	
		SEER	20.5	
Performance	AHRI 210-240 2017 ¹	EER	12.6	
		HSPF	11.0	
		SEER2	19.5	
	AHRI 210-240 2023 ²	EER2	12.0	
		HSPF2	8.4	
	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Ran		187 - 253	
		Cooling (A)	2.4 / 8.8 / 14.2	
Power	Operating Current (min. / std. / max.)	Heating (A)	2.3 / 11.0 / 23.5	
	Max. Breaker	Amps	30	
	Min. Circuit Ampacity	·	24.1	
	Wiiii. Oirodit / timpdoity	1		
	WXHXD (in.)	Indoor Unit	47 1/4 X 9 13/16 X 27 9/16	
	. ,	Outdoor Unit	37 X 39 5/16 X 13	
Dimensions	Weight (lbs.)	Indoor Unit	77.2	
	3 ()	Outdoor Unit	158.7	
	Duct Connections	Supply (in.)	45 15/16 X 8 11/16	
	(W X H)	Return (ID, in.)	45 15/16 X 8 11/16	
Sound Pressure	Indoor Unit dB(A)	L/M/H	28 / 32 / 36	
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 52	
			23 ~ 122°F (-5 ~ 50°C)	
	Outdoor	Cooling	0 ~ 122°F (-18 ~ 50°C) W/Baffle	
Operating		Heating	-13 - 75°F (-25 - 24°C)	
Temperatures		Cooling	64 ~ 90°F (16 ~ 32°C)	
	Indoor	Heating	T ≤ 86°F (30°C)	
		1	1/4"	
	Indoor & Outdoor	High side		
Pipe	Low side		5/8"	
Connections	Maximum (ft.) Maximum Vertical Se	nanation (ft)	164 98.4	
	Condensate Connect	. ,		
	Condensate Connect	ion	1 1/4 in. OD, 1 in. ID	
	Туре		R410A	
Refrigerant	Factory Charge	lbs.	5.73	
	Charged for		24.6 ft.	
	Manufacturer		Samsung	
Compressor	Туре		Inverter Driven, Twin BLDC Rotar	
	RLA	Amps	15.9	
	Туре		BLDC (1) With Sirocco Fan (3)	
	Air Volume	CFM (L/M/H)	593 / 671 / 749	
Evaporator Fan	Output	Watts	153	
	External Static	Standard ("WC)	0.18	
	Pressure	Min. / Max. ("WC)	0.1 / 0.8	
		/ 1110/. (110)		
Condenser	Motor	`	BLDC With Axial Type Fan (1)	
Fan	FLA / Watts / CFM (m	nax.)	1.25A X 1 / 125W X 1 / 2,684 CFM	
	Certifications	U	L 60335-2-40	
	PCB fuses, indoor unit term			

	Certifications	UL 60335-2-40
Safety	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing

This publication reflects both the 1987 Appendix M metric (SEER) and the 2023 Appendix M1 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy metrics.

¹Performance data certified by AHRI to AHRI 210-240 (2017) with Addendum 1.

²Performance 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.

Select models are ENERGY STAR Labeled. 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.

Location Engineer Reference Approval Construction Schedule #





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
- Integral condensate pump with maximum 29" lift from bottom of the unit with check valve and float switch that disables indoor should condensate overflow be detected.
- 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: ISO-9227 the heat exchanger showed no unusual rust or corrosion development to 3,000 hours.
- Base pan heater equipped as standard
- System shall provide 100% heating capacity at -4°F(-20°C)

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 set up 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 controller

Indoor Fan

- · Indoor fan is sirocco type
- Three fan speed settings and auto setting
- Smart pressure control feature that adjusts fan speed based on ESP delivering consistent heating and cooling power
- The indoor unit shall have a smart-tuning function that can provide optimized comfort by allowing the occupant to offset the fan CFM curve with a wired remote controller (MWR-WG00UN) to increase or decrease airflow.
- The indoor unit shall have automatic air volume scanning for simple setup and optimized comfort settings for the occupant.

Construction

- · Outdoor unit shall be galvanized steel with a baked-on powder coated finish for durability
- · Indoor Unit: Insulated, galvanized steel.

Controls

- Control wiring shall be 2 X 16 AWG
- 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
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options.
- · Wired or wireless controllers must be purchased separately

Refrigerant System

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

Air Filtration

- · Air filtration shall be field provided
- Pressure drop across field-supplied filter must be factored into the total ESP.

Warranty

10 Years compressor, 10 years parts, 1 year limited labor when registered



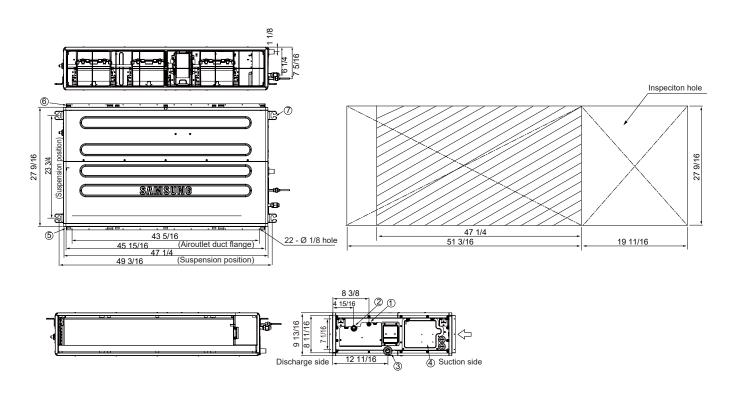




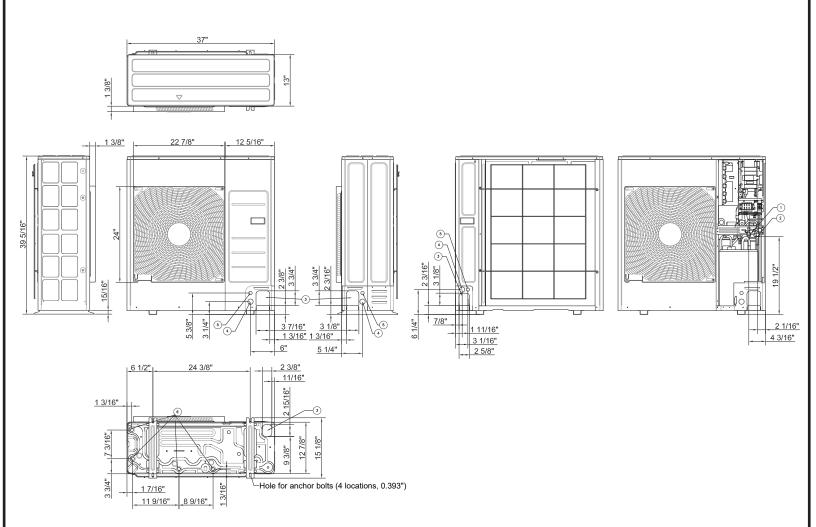


Optional Accessories

Wired Controller	Advanced	MWR-WG00UN
Willow Controller	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
Filter Box		FB-DS2
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-2M-B
Willu ballies	Back	WBB-3M
Hail Guard Kit (includes back and side guards)		HGK-3
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2509
		50' - ILS-5009



No.	Name	Description
1	Refrigerant Liquid Pipe	Ø 1/4"
2	Refrigerant Gas Pipe	Ø 5/8"
3	Condensate Drain	3/4" (OD 1.05")
4	Power & Comm. Wiring Conduits	-
(5)	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-



No.	Name	Description
1	Liquid pipe connection	ø 1/4"
2	Gas pipe connection	ø 5/8"
3	Piping knockout hole	Front, side, rear, and bottom
4	Power supply knowkout hole	Front, side, and rear (Ø 1 3/8")
5	Comm. Wiring knockout hole	Front, side, and rear (Ø 7/8")
6	Drain hole	Connect using provided drain fitting