Job Name	
Purchaser	
Submitted to	
Unit Designation	

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Unit Design	ation		
· ·		Specifications	_
Model	Indoor Unit Model N	Number (US Code)	AC024BNADCH/AA (CNH24ADB)
Model	Outdoor Unit Mode	l Number (US Code)	AC024BXADCH/AA (CXH24ADB)
	Nominal Capacity	Cooling / Heating (Btu/h)	24,000 / 27,000
		Cooling (Btu/h)	8,000 - 27,000
	Capacity Range	Heating (Btu/h)	7,000 - 40,000
Performance 1	SEER / EER		18.9 / 10.3
	COP (nominal heating)		2.90
	HSPF		10.8
	AHRI Certification I	Number	207465454
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
D	Operating Current	Cooling (A)	2.5 / 10.6 / 12.9
Power	(min. / std. / max.)	Heating (A)	2.0 / 12.4 / 23.5
	Max. Breaker	Amps	30
	Min. Circuit Ampac	ity (A)	22.4
	WXHXD	Indoor Unit	41 9/16 X 8 7/16 X 11 3/4
	(in.)	Outdoor Unit	37 X 39 5/16 X 13
Dimensions	Weight	Indoor Unit	28.0
	(lbs.)	Outdoor Unit	158.7
Sound Pressure	Indoor Unit dB(A)	L/M/H	25 / 20 / 44
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	35 / 39 / 44 50 / 52
Level	Outdoor Onit dB(A)	Cooling / Fleating (Fight)	
			23 ~122°F (-5~ 50°C) 0~122°F (-18~ 50°C) W/ Baffle
Operating		Heating	-13~75°F (-25 ~ 24°C)
Temperatures	Indoor	Cooling	61 ~90°F (16 ~32°C)
		Heating	T≤ 80°F (27°C)
		High side (flare)	1/4"
	Indoor & Outdoor	Low side (flare)	5/8"
Pipe Connections			164
po ooo	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection		1 1/4 O.D X 1 I. D
	Type Control Method		R410A
Refrigerant	Factory Charge lbs.		Electronic Expansion Valve
Kenigerani	Charged for		5.7 24.6 ft
	Additional Refrigera	ant	0.11 oz/ft over 24.6 ft
		ATT.	0.11 02/It over 24:0 It
_	Manufacturer		Samsung
Compressor	Туре	T.	Inverter Driven, Twin BLDC Rotary
	RLA	Amps	15.9
	Туре		BLDC With Crossflow Fan (1)
Evaporator Fan	Air Volume CFM (L/M/H)		466 / 537 / 629
<u> </u>	Output (W) / FLA (A)		27 W / 0.42 A
<u>-</u>	Motor	·	BLDC With Axial Type Fan (1)
Condenser Fan	FLA / Watts / CFM	(max.)	1.25 A / 125 W / 2,684 CFM
	Certifications		ETL (UL 1995)

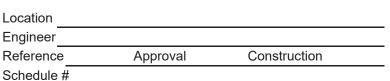
Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240

Samsung HVAC maintains a policy of ongoing development; specifications are subject to

*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)

Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage

protection, crankcase heating, temperature limit protection logic, compressor overload sensing







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 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
- Base pan heater equipped as standard
- 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.
- The 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 (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
- The WindFree™ function will close the supply air outlet louver while in cooling mode to gently disperse cool air into the space without blowing directly onto occupants. The WindFree™ feature is optional and can be enabled using central or local control
- The WindFree™ indoor unit has an integral humidity sensor that will open the louver for standard cool mode when space conditions could potentially cause condensation formation on the chassis surface

Construction

- · Outdoor unit: Galvanized steel with a baked-on powder coated finish for durability
- Indoor unit: UL94 V0 with a galvanized steel mounting plate
- The indoor unit shall have easy access to wire, pipe, and drain connections via access panel on the front of the unit for easier installation and service

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

Refrigerant System

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

Warrantv

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





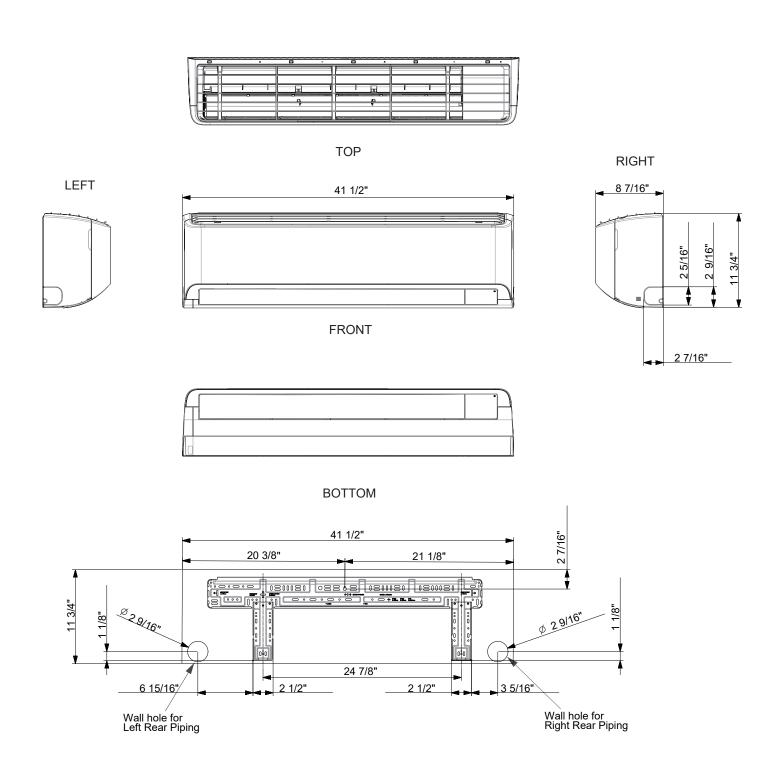
Safety

SUBMITTAL AC024BNADCH/AA / AC024BXADCH/AA (CNH24ADB / CXH24ADB) Samsung WindFreeTM High-Wall Evaporator, Split System

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-H05UN
External Temperature Sensor		MRW-TA
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-2M-B
	Back	WBB-3M
Hail Guard Kit (includes back and side guards)		HGK-3
Line Sets - insulated and flared, interconnect cables		25' - ILS-2509
included		50' - ILS-5009

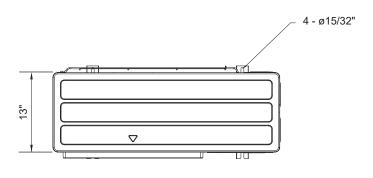
AC024BNADCH/AA Dimensional Drawing



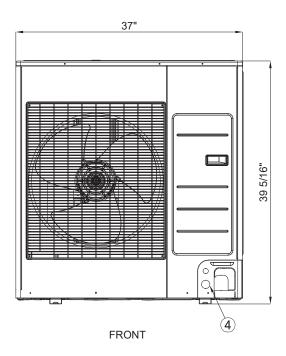
No.	Name	Description
1	Liquid pipe connection	1/4"
2	Gas pipe connection	5/8"
3	Drain pipe connection	11/16" OD
4	Power supply & Communication wiring conduit	-

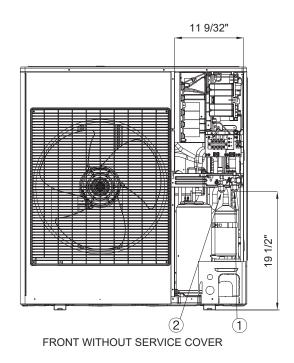
SAMSUNG

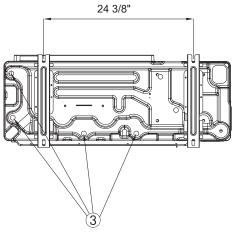
SUBMITTAL AC024BNADCH/AA / AC024BXADCH/AA (CNH24ADB / CXH24ADB) Samsung WindFreeTM High-Wall Evaporator, Split System AC024BXADCH/AA Dimensional Drawing



TOP







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