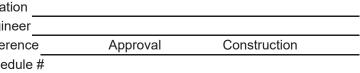
Specifications		
Unit Designation	Schedule #	
Submitted to	Reference	Approval
Purchaser	Engineer	
Job Name	Location	

Submitted to	0		
Unit Design	ation		
		Specifications	
Model	Indoor Unit Model N Outdoor Unit Model	Number (US Code) I Number (US Code)	AC042BNHDCH/AA (CNH42HDB) AC042BXADCH/AA (CXH42ADB)
	Nominal Capacity	Cooling / Heating (Btu/h) Cooling (Btu/h)	42,000 / 47,000 12,000 - 46,000
Performance ¹	Capacity Range SEER / EER	Heating (Btu/h)	11,000 - 63,000 17.5 / 9.2
renormance *	COP (nominal heating)		3.2
	HSPF AHRI Certification Number		8.8 207465466
	Voltage	ø/V/Hz	1 / 208-230 / 60
Power	Working Voltage Ra Operating Current (min. / std. / max.)		176 - 254 (max. 3% deviation from each) 5.0 / 20.3 / 24.4 3.9 / 19.1/ 32.0
	Max. Breaker Min. Circuit Ampaci	Amps	40
<u> </u>	W X H X D	Indoor Unit Outdoor Unit	51 3/16 X 11 13/16 X 27 9/16
Dimensions	Duct Connections (W X H)	Supply (in.) Return (ID, in.)	37 X 47 11/16 X 13 49 5/16 X 10 5/8 49 5/16 X 10 5/8
	Weight (lbs.)	Indoor Unit Outdoor Unit	97.0 190.7
Sound Pressure Level	Indoor Unit dB(A) Outdoor Unit dB(A)	L / M / H Cooling / Heating (high)	38 / 41 / 44 53 / 55
Operating Temperatures	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C) 0 ~ 122°F (-18 ~ 50°C) w/ baffle
	I. I	Heating Cooling	-4 ~ 75°F (-20 ~ 24°C) 61 ~ 90°F (16 ~ 32°C)
	Indoor	Heating	T ≤ 80°F (27°C)
D. 0	Indoor & Outdoor	High side (flare) Low side (flare)	3/8" 5/8"
Pipe Connections	Maximum Vertical Separation (ft.)		246 98.4
Condensate Connection (with included Type		tion (with included adapter)	1 1/16" ID for 3/4" PVC R410A
Refrigerant	Control Method Factory Charge	lbs.	Electronic Expansion Valve 7.5
	Charged for Additional Refrigerant		24.6 ft 0.11 oz/ft over 24.6 ft
Compressor	Manufacturer Type		Samsung Inverter Driven, Twin BLDC Rotary
•	RLA Amps		20.9
Evaporator Fan	Type Air Volume Output (W) / FLA (A	CFM (L/M/H)	BLDC (1) With Sirocco Fan (3) 918 / 1095 / 1236 (at standard ESP) 244 W / 3.50 A
	Static Pressure	Standard ("WC) Min. / Max. ("WC)	0.58 0.12 - 0.80
Condenser Fan	Motor FLA / Watts / CFM	(max.)	BLDC With Axial Type Fan (2) 1.25 A / 125 W / 3,532 CFM
	1.25 A / 125 W / 5,552 Of		

	Certifications	ETL (UL 1995)
Safety	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage	
protection, crankcase heating, temperature limit protection logic, compressor overload sens		eating, 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.		

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







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.

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 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 signal
- 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

Warranty

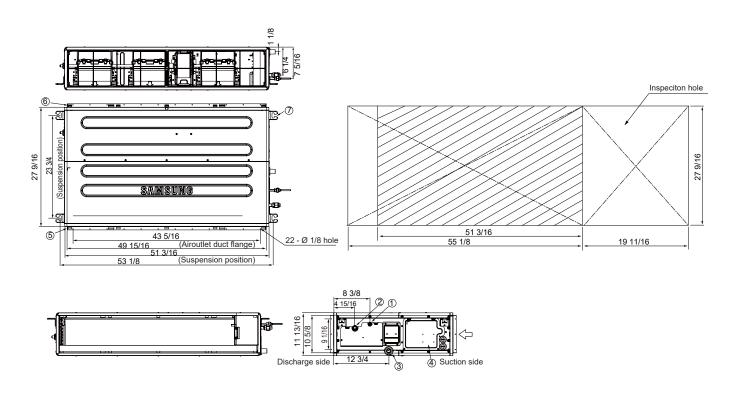
10 Years compressor, 10 years parts, 1 year limited labor when registered





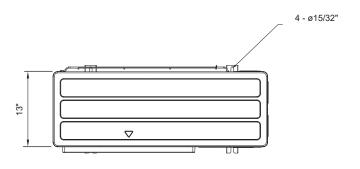
Optional Accessories

•		
Wired Controller	Advanced	MWR-WG00UN
Wired 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-DS3
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-1M2
Willa Dallies	Back	WBB-2M-B
Hail Guard Kit (includes back and side guards)		HGK-4
Line Sets - insulated and flared, interconnect cables		25' - ILS-2510
included		50' - ILS-5010

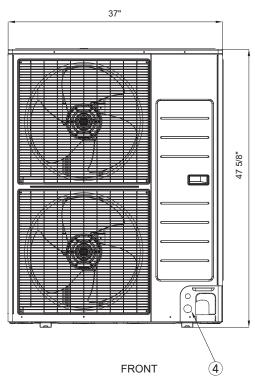


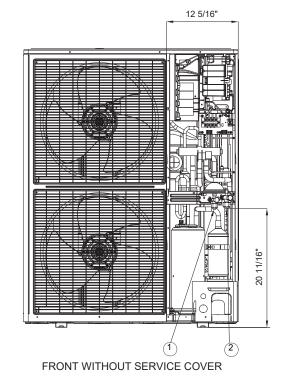
No.	Name	Description
1	Refrigerant Liquid Pipe	Ø 3/8"
2	Refrigerant Gas Pipe	Ø 5/8"
3	Condensate Drain	3/4" (OD 1.05")
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-

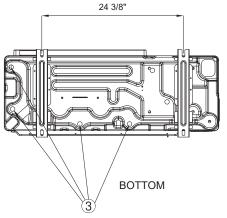
AC042BXADCH/AA Dimensional Drawing



TOP







No.	Name	Description
1	Refrigerant liquid pipe	Ø 3/8
2	Refrigerant gas pipe	Ø 5/8
3	Drain hole	Connect with provided drain plug