Job Name	
Purchaser	
Submitted to	
Unit Designation	

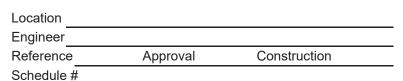
Submitted					
Unit Desig	Ination				
		Specifications			
Model	Indoor Unit Model Number (US Code)		AC042BNZDCH/AA (CNH42ZDB)		
iviodei	Outdoor Unit Model Number (US Code)		AC042BXADCH/AA (CXH42ADB)		
	Nominal Capacity	Cooling / Heating (Btu/h)	42,000 / 47,000		
	Canasity Dansa	Cooling (Btu/h)	12,000 - 46,000		
D (	Capacity Range	Heating (Btu/h)	10,500 - 60,000		
Performance	AHRI 210-240 2023 <sup>1</sup>	SEER2	17.5		
		EER2	9.5		
		HSPF2	8.4		
	Voltage	ø / V / Hz	1 / 208-230 / 60		
	Working Voltage Range (VAC)		187 - 253		
Dawar	Operating Current	Cooling (A)	5.1 / 19.8 / 24.8		
Power	(min. / std. / max.)	Heating (A)	4.4 / 22.1 / 32.8		
	Max. Breaker	Amps	40		
	Min. Circuit Ampacity	(A)	32.2		
		Indoor Unit	24.5 X 58.75 X 21.75		
	W X H X D (in.)	Outdoor Unit	37 X 47 11/16 X 13		
		Indoor Unit	166.4		
Dimensions	Weight (lbs.)	Outdoor Unit	195.1		
	Duct Connections	Supply (in.)	14 1/4 X 21 3/4		
	(W X H)	Return (in.)	24.5 X 21.75		
Sound	Indoor Unit dB(A)	L/M/H	40 / 43 / 46		
Pressure Level	Outdoor Unit dB(A)	Cooling / Heating (high)	53 / 55		
	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)		
			0 ~ 122°F (-18 ~ 50°C) W/Baffle		
Operating		Heating	-4 - 75°F (-20 - 24°C)		
Temperatures	Indoor	Cooling	64 ~ 90°F (16 ~ 32°C)		
		Heating	T ≤ 86°F (30°C)		
	Indoor & Outdoor		3/8"		
		High side	5/8"		
Pipe	Maximum (ft.)	Low side	246		
Connections	Maximum Vertical Se	enaration (ft.)	98.4		
	Condensate Connect		3/4 in. FNPT		
D-6:	Туре		R410A		
Refrigerant	Factory Charge	lbs.	7.5 24.6 ft.		
	Charged for		24.0 II.		
Compressor	Manufacturer		Samsung		
	Туре		Inverter Driven, Twin BLDC Rotary		
	RLA	Amps	20.9		
Evaporator Fan	Туре		Double-inlet, forward curve, centrifugal (with ECM motor)		
	Air Volume	CFM (L/M/H)	1,095 / 1,201 / 1,310		
	Output	Watts	410		
	External Static	Standard ("WC)	0.58 in. WC		
	Pressure	Min. / Max. ("WC)	0 / 1.0 in. WC		
Condenser	Motor		BLDC With Axial Type Fan (2)		
Fan	FLA / Watts / CFM (max.)		1.25A X 2 / 125W X 2 / 3,532 CFM		
	Certifications UL 60335-2-40				
Safety	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating,			

<sup>1</sup>Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023.

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 for details or visit

temperature limit protection logic, compressor overload sensing

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
- 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 evening hours (automatic or manual activation).
- · 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 a double Inlet, forward curve, centrifugal type
- Three fan speed settings and auto setting
- Field configurable for downflow operation with optional conversion kit

## Construction

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

- 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

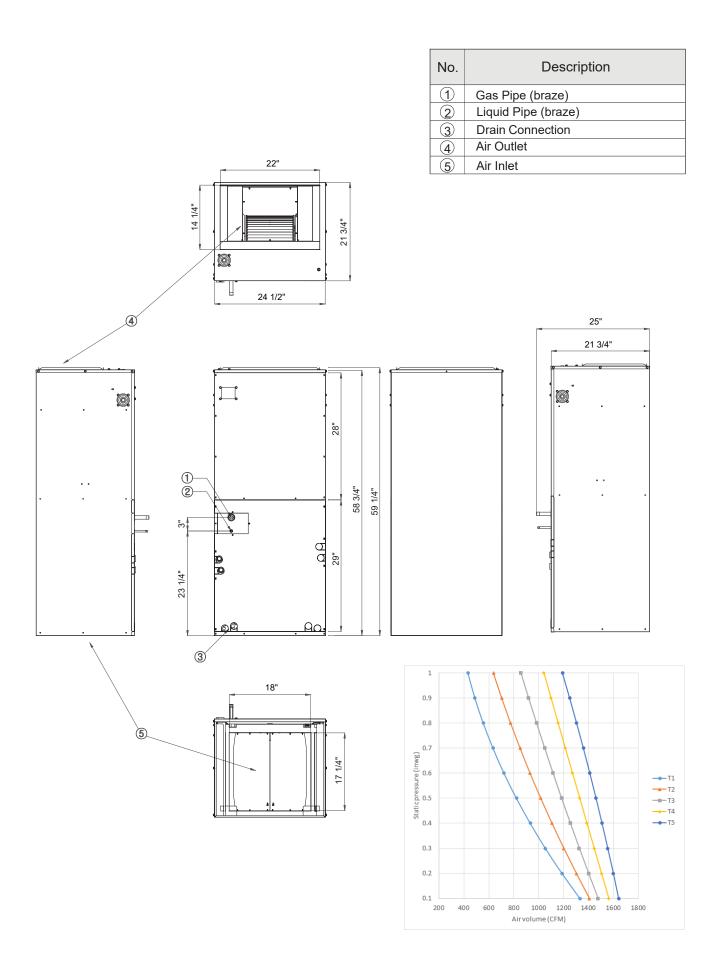




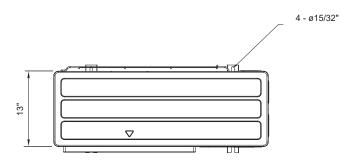
# SUBMITTAL AC042BNZDCH/AA / AC042BXADCH/AA (CNH42ZDB / CXH42ADB) Samsung Multi-Position Air Handler, Single Zone Duct, Split System

## **Optional Accessories**

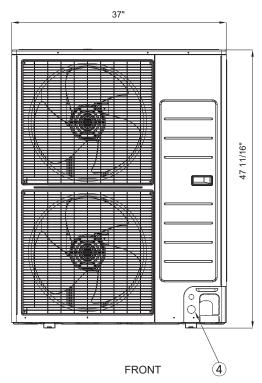
Wired Controller	Advanced	MWR-WG00UN
Wifed Controller	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal Control	Wireless Signal Receiver	MRK-A10N
	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
Filter Base (includes 1" MERV 8 filter)		VFB-3
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-1M2
	Back	WBB-2M-B
Hail Guard		HGK-4
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2510
		50' - ILS-5010
Supplemental Electric Heat Kit		VHK-305A (5 kW)
		VHK-310A (10 kW)
Downflow Conversion Kit		VDK-3

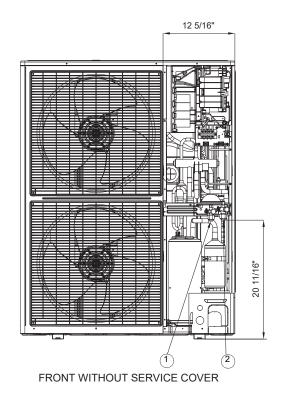


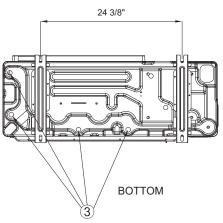
SUBMITTAL AC042BNZDCH/AA / AC042BXADCH/AA (CNH42ZDB / CXH42ADB) Samsung Multi-Position Air Handler, Single Zone Duct, Split System AC042BXADCH/AA Dimensional Drawing



TOP







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