### SUBM B)

/IIIIAL	AC042BNZDCH/AA / AC042BXADCH/AA (	(CNH42ZDB	/ CXH42AD
	Samsung Multi-Position Air Handler, Single		

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





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## 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.

#### 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

Submitted				
Unit Desig	mation			
	_	Specifications		
Model	Indoor Unit Model Nu		AC042BNZDCH/AA (CNH42ZDB	
	Outdoor Unit Model N	lumber (US Code)	AC042BXADCH/AA (CXH42ADB	
	Nominal Capacity	Cooling / Heating (Btu/h)	42,000 / 47,000	
	Capacity Range	Cooling (Btu/h)	12,000 - 46,000	
	- Capacity Harrigo	Heating (Btu/h)	10,500 - 60,000	
Performance	111D1 040 040 00471	SEER	19.3	
Performance	AHRI 210-240 2017 <sup>1</sup>	HSPF	10.2 9.60	
		SEER2	17.5	
	AHRI 210-240 2023 <sup>2</sup>		9.5	
	74 11 (1 2 10 2 40 2020	HSPF2	8.4	
	Voltage Working Voltage Ran	ø / V / Hz	1 / 208-230 / 60 187 - 253	
		Cooling (A)	5.1 / 19.8 / 24.8	
Power	Operating Current (min. / std. / max.)	Heating (A)	4.4 / 22.1 / 32.8	
	Max. Breaker	Amps	40	
	Min. Circuit Ampacity		32.2	
	1	Indoor I Init	24.5 X 58.75 X 21.75	
	W X H X D (in.)	Indoor Unit Outdoor Unit	24.5 X 56.75 X 21.75 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	
	Guidoor Griit ab(/ t)	Cooming / Floating (Fight)		
	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)	
Operating	Outdoor		0 ~ 122°F (-18 ~ 50°C) W/Baffle -4 - 75°F (-20 - 24°C)	
Temperatures		Heating Cooling	64 ~ 90°F (16 ~ 32°C)	
	Indoor	Heating	T ≤ 86°F (30°C)	
	Indoor & Outdoor	High side	3/8" 5/8"	
Pipe	Maximum (ft.)	Low side	246	
Connections	. ,	paration (ft )	98.4	
	Maximum Vertical Separation (ft.)  Condensate Connection		3/4 in. FNPT	
			R410A	
Pofrigoront	Type	Ilea	7.5	
Refrigerant	Factory Charge	lbs.	24.6 ft.	
	Charged for			
0	Manufacturer		Samsung	
Compressor	Туре	A	Inverter Driven, Twin BLDC Rotar	
	RLA	Amps	20.9	
	Туре		Double-inlet, forward curve, centrifugal (with ECM motor)	
	Air Volume CFM (L/M/H)		1,095 / 1,201 / 1,310	
Evaporator Fan	Output	Watts	410	
	External Static	Standard ("WC)	0.58 in. WC	
	Pressure	Min. / Max. ("WC)	0 / 1.0 in. WC	
Condensor	Motor		BLDC With Axial Type Fan (2)	
Condenser Fan	FLA / Watts / CFM (m	nax.)	1.25A X 2 / 125W X 2 / 3,532 CFM	
	,	,		
Cafab	Certifications  PCB fuses indoor uni		UL 60335-2-40 terminal block thermal fuse, current	
Safety	Devices	transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensi		

(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

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

<sup>2</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 visi www.energystar.gov.

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



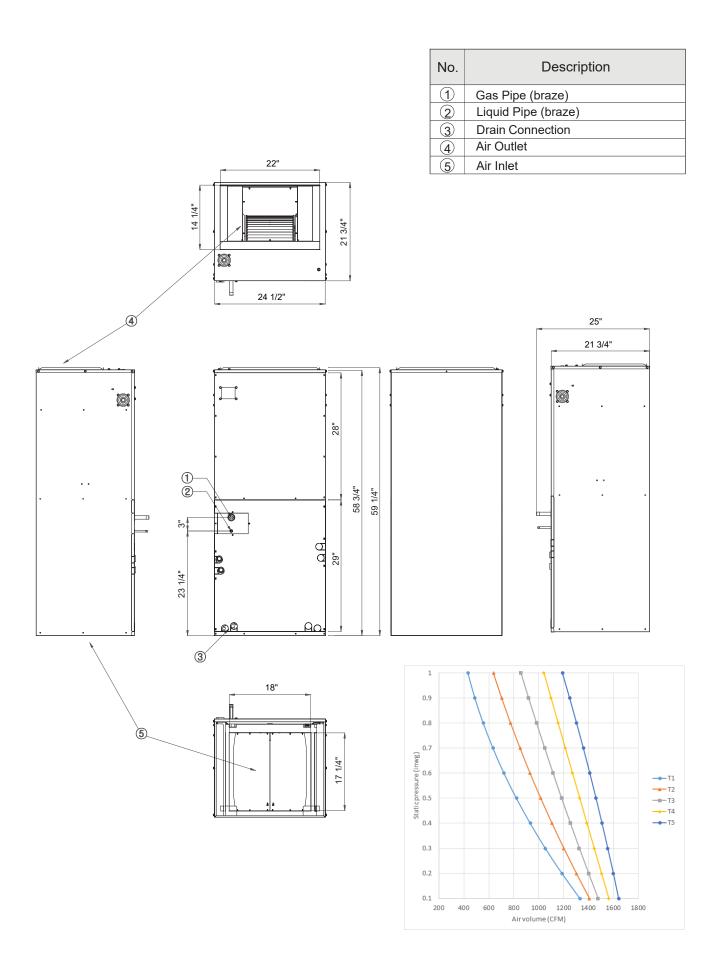




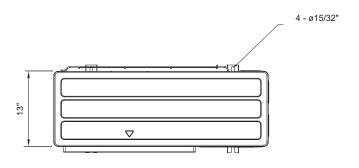
# SUBMITTAL AC042BNZDCH/AA / AC042BXADCH/AA (CNH42ZDB / CXH42ADB) Samsung Multi-Position Air Handler, Single Zone Duct, Split System

## **Optional Accessories**

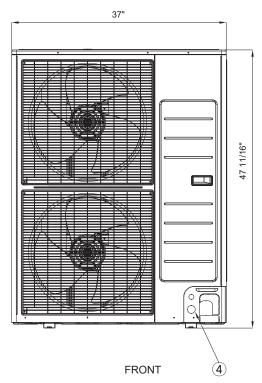
Wired Controller	Advanced	MWR-WG00UN	
Wifed Controller	Touchscreen	MWR-SH11UN	
Thermostat Adaptor (fo	r connection to a standard 24VAC thermostat)	MIM-A60UN	
Wireless Signal	Wireless Signal Receiver	MRK-A10N	
Control	Wireless Controller	AR-EH04U	
Wi-Fi Adapter		MIM-H05UN	
External Temperature Sensor		MRW-TA	
Filter 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	
Willia Ballies	Back	WBB-2M-B	
Hail Guard		HGK-4	
Line Sets - insulated	and flared, interconnect cables	25' - ILS-2510	
included		50' - ILS-5010	
Supplemental Electri	c Heat Kit	VHK-305A (5 kW)	
Supplemental Electric Heat Kit		VHK-310A (10 kW)	
Downflow Conversion Kit		VDK-3	

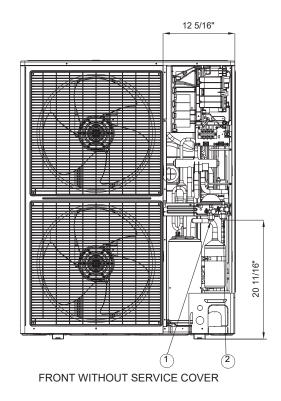


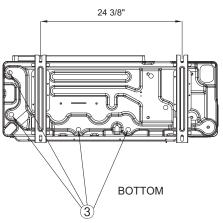
SUBMITTAL AC042BNZDCH/AA / AC042BXADCH/AA (CNH42ZDB / CXH42ADB) Samsung Multi-Position Air Handler, Single Zone Duct, Split System AC042BXADCH/AA Dimensional Drawing



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	