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Job Name			
Purchaser			_
Submitted to	0		
Unit Design	ation		
Ornic Doolgin			
	la da a a Lla it Ma da l N	Specifications	4.00.40001110011/4.4.(00111401100)
Model	Indoor Unit Model Number (US Code) Outdoor Unit Model Number (US Code)		AC042BNHDCH/AA (CNH42HDB)
		, ,	AC042BXADCH/AA (CXH42ADB)
	Nominal Capacity	Cooling / Heating (Btu/h)	42,000 / 47,000
	Capacity Range	Cooling (Btu/h)	12,000 - 46,000
		Heating (Btu/h)	11,000 - 63,000
Performance 1	SEER / EER		17.5 / 9.2
	COP (nominal heating)		3.2
	HSPF AHRI Certification Number		8.8
			207465466
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Ra		176 - 254 (max. 3% deviation from each)
Power	Operating Current	Cooling (A)	5.0 / 20.3 / 24.4
	(min. / std. / max.)	Heating (A)	3.9 / 19.1/ 32.0
	Max. Breaker	Amps	40
	Min. Circuit Ampaci	ty (A)	32.2
	WXHXD	Indoor Unit	51 3/16 X 11 13/16 X 27 9/16
	(in.)	Outdoor Unit	37 X 47 11/16 X 13
Dimensions	Duct Connections	Supply (in.)	49 5/16 X 10 5/8
2	(W X H)	Return (ID, in.)	49 5/16 X 10 5/8
	Weight	Indoor Unit	97.0
	(lbs.)	Outdoor Unit	190.7
Sound Pressure	Indoor Unit dB(A)	L/M/H	38/ 41 / 44
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	Ladasa	Cooling	61 ~ 90°F (16 ~ 32°C)
	Indoor	Heating	T ≤ 80°F (27°C)
		High side (flare)	3/8"
	Indoor & Outdoor	Low side (flare)	5/8"
Pipe Connections	Maximum (ft.)	Low side (lidie)	246
	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection (with included adapter)		1 1/16" ID for 3/4" PVC
	Туре		1
	Control Method		R410A
Refrigerant	Factory Charge	lbs.	Electronic Expansion Valve 7.5
tomgorant	Charged for		24.6 ft
	Additional Refrigerant		0.11 oz/ft over 24.6 ft
			1
Oammua	Manufacturer		Samsung
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	20.9
	Туре		BLDC (1) With Sirocco Fan (3)

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.

CFM (L/M/H)

Standard ("WC)

Min. / Max. ("WC)

Air Volume

Motor

Output (W) / FLA (A)

FLA / Watts / CFM (max.)

Static Pressure

Certifications

Evaporator Fan

Condenser Fan

Safety

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

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: ASTM-B117-18 the heat exchanger showed no unusual rust or corrosion development to 2,280 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

918 / 1095 / 1236 (at standard ESP)

244 W / 3.50 A

0.58

0.12 - 0.80

BLDC With Axial Type Fan (2)

1.25 A / 125 W / 3,532 CFM

ETL (UL 1995)

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

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

- 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

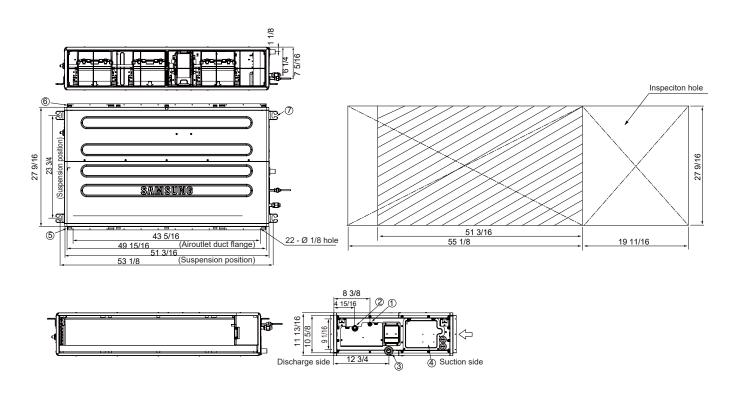
10 Years compressor, 10 years parts, 1 year limited labor when registered



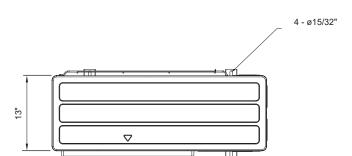
SUBMITTAL AC042BNHDCH/AA / AC042BXADCH/AA (CNH42HDB / CXH42ADB)
Samsung Duct S, Single Zone Duct, Split System

Optional Accessories

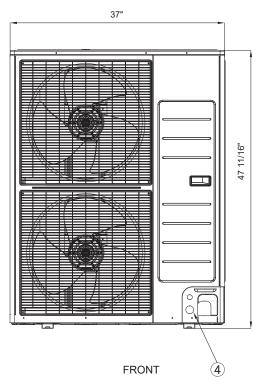
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Wired Controller	Advanced	MWR-WG00UN
Wired Controller	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H04UN
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
Wind Dames	Back	WBB-2M-B
Hail Guard		TBD
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2510
		50' - ILS-5010

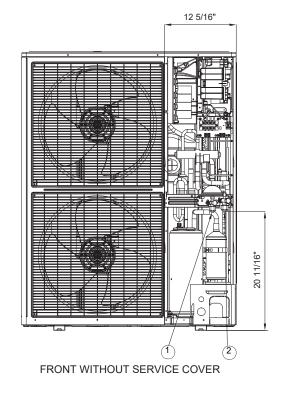


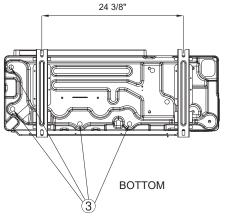
No.	Name	Description
1	Refrigerant Liquid Pipe	Ø 3/8"
2	Refrigerant Gas Pipe	Ø 5/8"
3	Condensate Drain	3/4" (OD 1.05")
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-



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