SUBMITTAL AC018BNLDCH/AA / AC018BXADCH/AA (CNH18LDB / CXH18ADB) Samsung Slim Duct, Single Zone Duct, Split System

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Job Name		
Purchaser		
Submitted	to	
Unit Desig	nation	
	Specifications	<u> </u>
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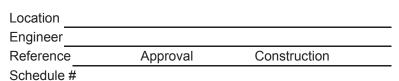
Purchaser	•		
Submitted	to		
Unit Desig	ınation		
0		Specifications	
	Indoor Unit Model Nu	•	AC018BNLDCH/AA (CNH18LDB)
Model	Outdoor Unit Model Number (US Code)		AC018BXADCH/AA (CXH18ADB)
	Nominal Capacity Cooling / Heating (Btu/h)		18,000 / 20,000
	Oit B	Cooling (Btu/h)	5,500 - 22,000
	Capacity Range	Heating (Btu/h)	3,000 - 25,000
		SEER	19.8
Performance	AHRI 210-240 2017 ¹	EER	12.1
		HSPF	9.0
		SEER2	20.0
	AHRI 210-240 2023 ²	EER2	12.1
		HSPF2	7.5
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 253
	Operating Current (min. / std. / max.)	Cooling (A)	2.4 / 6.7 / 10.8
Power		Heating (A)	1.8 / 8.2 / 16.0
	Max. Breaker	Amps	25
	Min. Circuit Ampacity (A)		20.1
	WY11Y 5 (;)	Indoor Unit	43 5/16 X 7 13/16 X 17 5/16
	W X H X D (in.)	Outdoor Unit	34 5/8 X 31 7/16 X 12 1/4
Dimensions	Weight (lbs.)	Indoor Unit	49.4
Dimensions		Outdoor Unit	118.4
	Duct Connections (W X H)	Supply (in.)	37 1/16 X 5 7/8
		Return (ID, in.)	38 1/2 X 6 5/8 (inside)
Sound Pressure	Indoor Unit dB(A)	L/M/H	28 / 32 / 35
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
		Cooling	23 ~ 122°F (-5 ~ 50°C)
Operating	Outdoor		0 ~ 122°F (-18 ~ 50°C) W/Baffle
Temperatures		Heating	-13 ~ 75°F (-25 ~ 24°C)
· omporatar oo	Indoor	Cooling	64 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 86°F (30°C)
	Indoor & Outdoor	High side	1/4"
Pipe		Low side	1/2"
Connections	Maximum (ft.)		164
Connections	Maximum Vertical Separation (ft.)		98.4

		Heating	I ≤ 86°F (30°C)
Pipe Connections	Indoor & Outdoor	High side	1/4"
		Low side	1/2"
	Maximum (ft.)		164
Connections	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection (with included adapter)		1 1/4 in. OD, 1 in. ID
	Туре		R410A
Refrigerant	Factory Charge	lbs.	4.41
	Charged for		24.6 ft.
	Manufacturer		Samsung
Compressor	Туре		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	12.7
	Туре		BLDC (1) With Sirocco Fan (3)
Evaporator Fan	Air Volume	CFM (L/M/H)	353 / 459 / 600
	Output	Watts	84
	External Static	Standard ("WC)	0.1
İ	Pressure	Min. / Max. ("WC)	0.0 / 0.24

ran	FLA / Watts / CFM (max.)		1.25A X 1 / 125W X 1 / 2,154 CFM
	Certifications	UL 60335-2-40	
Safety	Devices	transformer, over-voltage pro	nal block thermal fuse, current otection, crankcase heating, logic, compressor overload sensing

This publication reflects both the 1987 Appendix M metric (SEER) and the 2023 Appendix M1 metric (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.

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
- · 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.
- Base pan heater equipped as standard

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).
- 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 control

Indoor Fan

- Indoor fan is sirocco type
- Three fan speed settings and auto setting
- · Washable filter as standard

Construction

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

Controls

- Control wiring shall be 2 X 16 AWG wire
- 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

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

BLDC With Axial Type Fan (1)

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

ATTENTION

This air handling unit is intended for free-air discharge or for connection to a duct supplying only one room. Improper installation could contribute to the spread of smoke or flame in the event of a fire.





Motor

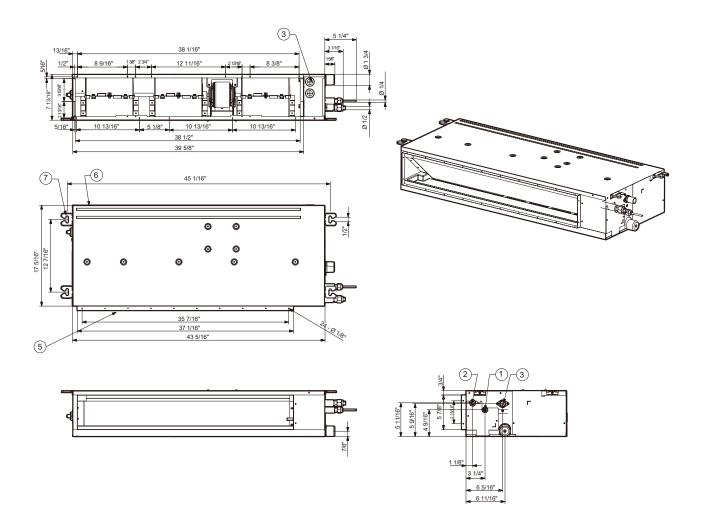
Condenser

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

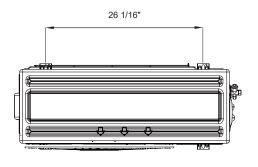
²Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023.

Optional Accessories

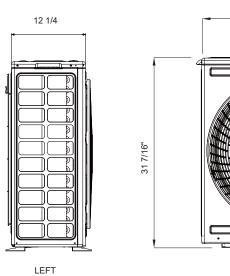
Wired Controller	Advanced	MWR-WG00UN
Wired Controller	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
Filter Box		FB-SLIM3
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-7M
Willa Ballico	Back	WBB-7M-B
Hail Guard Kit (includes	s back and side guards)	HGK-2
Line Sets - insulated and flared, interconnect cables		25' - ILS-2507
included		50' - ILS-5007

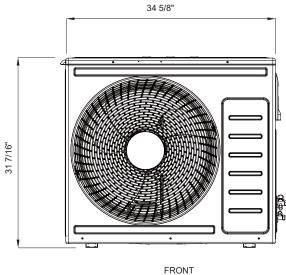


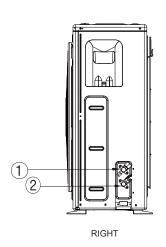
No.	Name	Description
1	Refrigerant Liquid Pipe	Ø 1/4"
2	Refrigerant Gas Pipe	Ø 1/2"
3	Condensate Drain	3/4" (OD 1.05")
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-

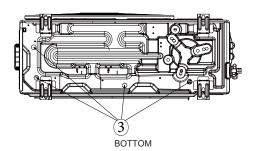


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No.	Name	Description
1	Refrigerant liquid pipe	Ø 1/4
2	Refrigerant gas pipe	Ø 1/2
3	Drain hole	Connect with provided drain plug