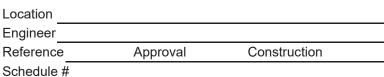
Job Name				
Purchaser				
Submitted to	0			
Unit Design	ation		_	
Offic Design	alion			
	la da a a Llait Ma dal N	Specifications	4 00 40 DAILID OLIVA A (ONILI40 LIDD)	
Model	Indoor Unit Model Number (US Code) Outdoor Unit Model Number (US Code)		AC048BNHDCH/AA (CNH48HDB) AC048BXADCH/AA (CXH48ADB)	
		, ,		
	Nominal Capacity	Cooling / Heating (Btu/h) Cooling (Btu/h)	48,000 / 54,000 12,500 - 51,000	
	Capacity Range	Heating (Btu/h)	11,500 - 65,000	
Performance 1	SEER / EER		16.3 / 8.0	
	COP (nominal heating)		2.8	
	HSPF AHRI Certification Number		8.8	
			207465469	
	Voltage ø / V / Hz Working Voltage Range (VAC)		1 / 208-230 / 60	
	Operating Current		176 - 254 (max. 3% deviation from each) 5.2 / 26.6 / 28.8	
Power	(min. / std. / max.)	Heating (A)	4.1 / 25.1 / 32.0	
	Max. Breaker	Amps	40	
	Min. Circuit Ampaci		32.2	
	WXHXD	Indoor Unit	51 3/16 X 11 13/16 X 27 9/16	
	(in.)	Outdoor Unit	37 X 47 5/8 X 13	
Dimensions	Duct Connections	Supply (in.)	49 5/16 X 10 5/8	
Dimensions	(W X H)	Return (ID, in.)	49 5/16 X 10 5/8	
	Weight	Indoor Unit	97.0	
	(lbs.)	Outdoor Unit	195.1	
Sound Pressure	Indoor Unit dB(A)	L/M/H	41/ 43/ 45	
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	56 / 58	
	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)	
Operating			0 ~ 122°F (-18 ~ 50°C) w/ baffle	
Temperatures		Heating	-4 ~ 75°F (-20 ~ 24°C)	
Tomporataroo		Cooling Heating	61 ~ 90°F (16 ~ 32°C) T ≤ 80°F (27°C)	
		· ·		
	Indoor & Outdoor	High side (flare)	3/8" 5/8"	
Pipe Connections	Low side (flare) Maximum (ft.)		246	
po comiconomo	Maximum Vertical Separation (ft.)		98.4	
	Condensate Connection (with included adapter)		1 1/16" ID for 3/4" PVC	
	Туре		R410A	
	Control Method		Electronic Expansion Valve	
Refrigerant	Factory Charge lbs.		7.5	
	Charged for		24.6 ft	
	Additional Refrigerant		0.11 oz/ft over 24.6 ft	
Compressor	Manufacturer		Samsung	
	Туре		Inverter Driven, Twin BLDC Rotary	
	RLA	Amps	20.9	
	Туре		BLDC (1) With Sirocco Fan (3)	
	Air Volume CFM (L/M/H)		954 / 1130 / 1271 (at standard ESP)	
Evaporator Fan	Output (W) / FLA (A	A)	244 W / 3.50 A	
·	Static Pressure	Standard ("WC)	0.58	
		Min. / Max. ("WC)	0.12 - 0.80	
Condoneer For	Motor		BLDC With Axial Type Fan (2)	
Condenser Fan	FLA / Watts / CFM (max.)		1.25 A / 125 W / 3,532 CFM	
	Certifications		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 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



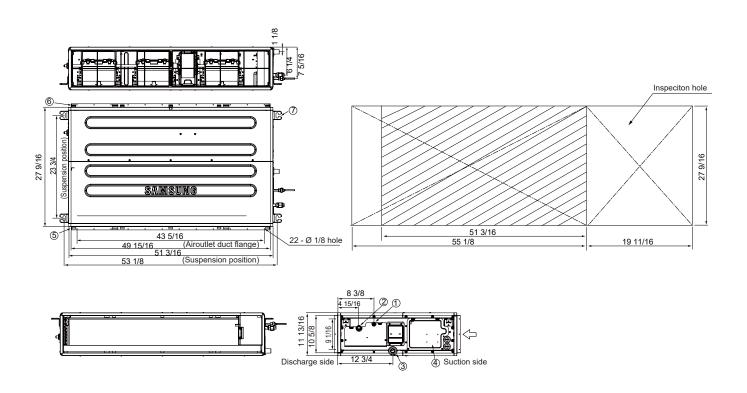


SUBMITTAL AC048BNHDCH/AA / AC048BXADCH/AA (CNH48HDB / CXH48ADB) Samsung Duct S, Single Zone Duct, Split System

Optional Accessories

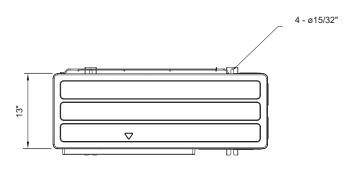
•		
Wired Controller	Advanced	MWR-WG00UN
Wired Controller	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
Filter Box		FB-DS3
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-1M2
Willia Ballico	Back	WBB-2M-B
Hail Guard Kit (includes back and side guards)		HGK-4
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2510
		50' - ILS-5010

AC048BNHDCH/AA Dimensional Drawing

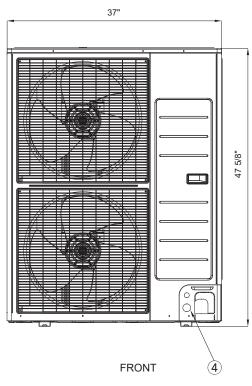


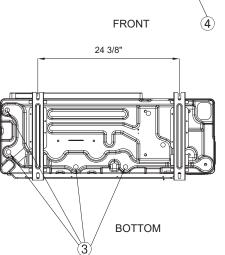
No.	Name	Description
1	Refrigerant Liquid Pipe	Ø 3/8"
2	Refrigerant Gas Pipe	Ø 5/8"
3	Condensate Drain	3/4" (OD 1.05")
4	Power & Comm. Wiring Conduits	-
(5)	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-

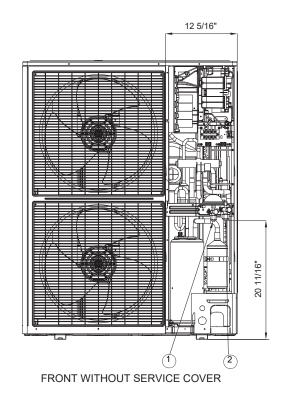
AC048BXADCH/AA Dimensional Drawing



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