SAMSUNG

SUBMITTAL AC048MNHDCH/AA Samsung Duct S, Single Zone Duct, Split System

Page 1 of 4 www.SamsungHVAC.com

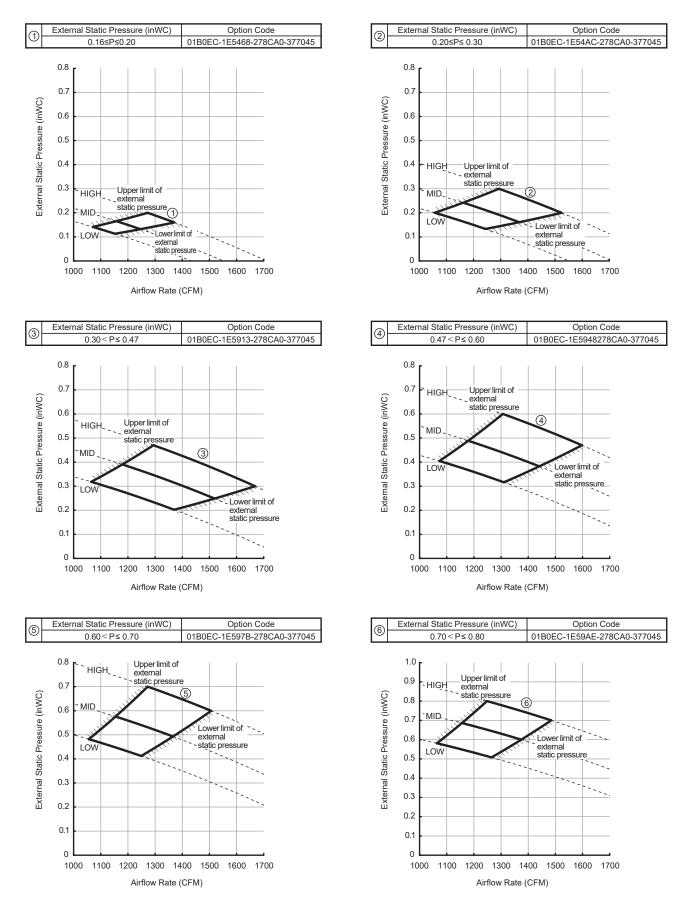
Intertek

Purchaser				Engineer			
				Reference	Approval	Construction	
Unit Design				Schedule #	ripproval	Conclusion	
Unit Design	ation	Specifications					
	Indoor Unit Model N	Specifications lumber	AC048MNHDCH/AA	1			
Model	Outdoor Unit Model		AC048JXADCH/AA	-		SAMSUNG	
Performance ¹	Nominal Capacity	Cooling / Heating (Btu/h)	48,000 / 53,000]			
	Capacity Range	Cooling (Btu/h)	18,600 - 48,000				
	SEER / EER	Heating (Btu/h)	<u>15,300 - 55,000</u> 17.8 / 9.15				
	COP (nominal heating) HSPF		2.98	_			
			9.8	Horizontal discharge	e airflow	D mine statistic	
	AHRI Certification Number		10146794	Low ambient control built in			
Power	Voltage Working Voltage Ra	ø / V / Hz	1 / 208-230 / 60 176 - 254 (max. 3% deviation from each)	_			
	Operating Current		6.4 / 23.0 / 23.0	The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire Auto-restart after power loss			
	(min. / std. / max.)	Heating (A)	5.0 / 22.7 / 25.0				
	Max. Breaker	Amps	40				
[Min. Circuit Ampacity (A)		26.5	 The outdoor unit shall have a snow accumulation prevention option setting to prevent sno drifting against an idle outdoor unit. 			
Dimensions Heat Exchanger	W X H X D (in.)	Indoor Unit Outdoor Unit	51 3/16 X 11 13/16 x 27 9/16 37 X 48 X 13				
	Weight	Indoor Unit	99.6	 The indoor and outdoor units shall have a removable EEPROM that stores system programming information, unit name, and other data All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches. The indoor unit shall have a built-in condensate pump as standard with a 29" lift 			
	(lbs.)	Outdoor Unit	194				
	Duct Connections (W X H)	Supply (in.) Return (ID, in.)	49 15/16 X 10 5/8 49 15/16 X 10 5/8				
	T	Indoor Unit	Aluminum Fin / Copper Tube				
	Туре	Outdoor Unit	Aluminum, flat fin, micro channel	(from bottom of unit) and float switch that disables indoor unit during overflow			
Sound Pressure Level	Indoor Unit dB(A)	L/M/H	37 / 40 / 43	detection.			
	Outdoor Unit dB(A)	Cooling / Heating (high)	53 / 55	• The indoor unit shall have automatic air volume scanning for simple setup and			
Operating Temperatures °F(°C)		Cooling	23 ~ 115°F(-5 ~ 46°C)	optimized comfort s	optimized comfort settings for the occupant.		
	Outdoor	Heating	0 ~ 115°F(-18 ~ 46°C) w/ baffle -4 ~ 76°F(-20 ~ 24°C)	• The indoor unit shall have smart-tuning function that can provide optimized comfort by			
		Cooling	<u>-4 ~ 76 F(-20 ~ 24 C)</u> 61 ~ 90°F(16 ~ 32°C)	allowing the occupant to offset the fan CFM curve with a wired remote controller (MWR			
	Indoor	Heating	T ≤ 80°F(27°C)	SH10N, MWR-WE1	SH10N, MWR-WE13UN, MWR-SH11UN, MWR-WG00UN) to increase or decrease airflo		
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"	The indoor unit sha	Il allow service access from for	our sides (top, bottom, left, right).	
		Low side (flare)	5/8"				
	Maximum (ft.) Maximum Vertical Separation (ft.)		246 98	 Pipe connections at the outdoor unit shall be made inside the unit chassis. Refrigerant pipes can exit through the front, side, rear, or bottom sides of the outdoor unit. 			
	Condensate Connection (with included adapter)		1 1/16" ID for 3/4" PVC				
Refrigerant	Туре		R410A	 The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night (automatic or manual activation with dry contact signal). 			
	Control Method	1	Electronic Expansion Valve	daning the hight (da		and any contact eighting.	
	Factory Charge Charged for	OZ.	<u>98.77</u> 25 ft	Construction		- lood on moundain a start finish for	
	Additional Refrigera	int	0.355 oz/ft over 25 ft	durability	il be galvanized steel with a t	baked on powder coated finish for	
Compressor	Туре		Inverter Driven, Twin BLDC, Rotary				
	RLA	Amps	17.0	The indoor unit shall	be insulated, galvanized stee	el.	
	Туре		BLDC (1) With Sirocco Fan (3)	Heat Exchanger			
	Air Volume	CFM (L/M/H)	1,059 / 1,165 / 1,271 (at standard ESP)	The indoor unit heat	exchanger shall be mechanic	ally bonded fin to copper tube	
Evaporator Fan	Output (W) / FLA (A	Total CFM Range ²	1,059 - 1,675 244 W / 2.0 A	The outdoor unit hea	t exchanger shall be aluminu	m, flat fin, micro channel	
		Standard ("WC)	0.16	Controls			
	Static Pressure	Min. / Max. ("WC)	0.12 - 0.8	Control signal shall b	e a DDC type signal		
Condenser Fan	Motor		BLDC With Axial Type Fan (2)	Interconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded			
Condenser Fan	FLA / Watts / CFM (max.)		0.48 A X 2 / 125 W X 2 / 3,040 CFM	Wired or wireless controls must be purchased separately			
	Wired Controller	Simplified Touch Controller	MWR-SH11UN]			
Optional Accessories	Advanced wired Controller		MWR-WG00UN	Connection to option	Connection to optional wired controllers shall be 2 X 16AWG shielded wire		
	Wi-Fi Adapter Wireless Signal	Wireless Signal Receiver	MIM-H04UN MRK-A10N	Controls shall integra	ate with a BMS system		
	Control	Wireless Controller	AR-EH03U	The system shall inte	egrate with the Samsung NAS	A Controls Solution	
	External Temperature Sensor		MRW-TA	-	No additional interface modules/adapters are required when connecting to Samsung		
	Filter Box External Contact Control		FB-DS3 MIM-B14	NASA DVM S central control options. Refrigerant System The refrigerant shall be R410A			
	Central Control Interface Module for Connection						
	to DVM Plus Controls (non-NASA)		MIM-N01				
	Wall Bracket (for ou	,	CKN-250	0		rter controlled, twin BLDC Rotary	
	Wind Baffles	Front Back	WBF-1M2 WBB-2M		•		
	Line Sets - insulate	d and flared, interconnect	25' - ILS-2510	0		c expansion valve at outdoor unit	
	cables included		50' - ILS-5010		current demand during compre	essor start	
Safety	Certifications ETL (UL 1995)		Warranty	r 10 vears parts 1 vear limite	d labor (conditions apply)		
	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing			TO years compresso	r, 10 years parts, 1 year limite		
¹ Certified in accordance v	with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the						
latest edition of AHRI Star	ndard 210/240. nual for full fan curve detai	lo.					

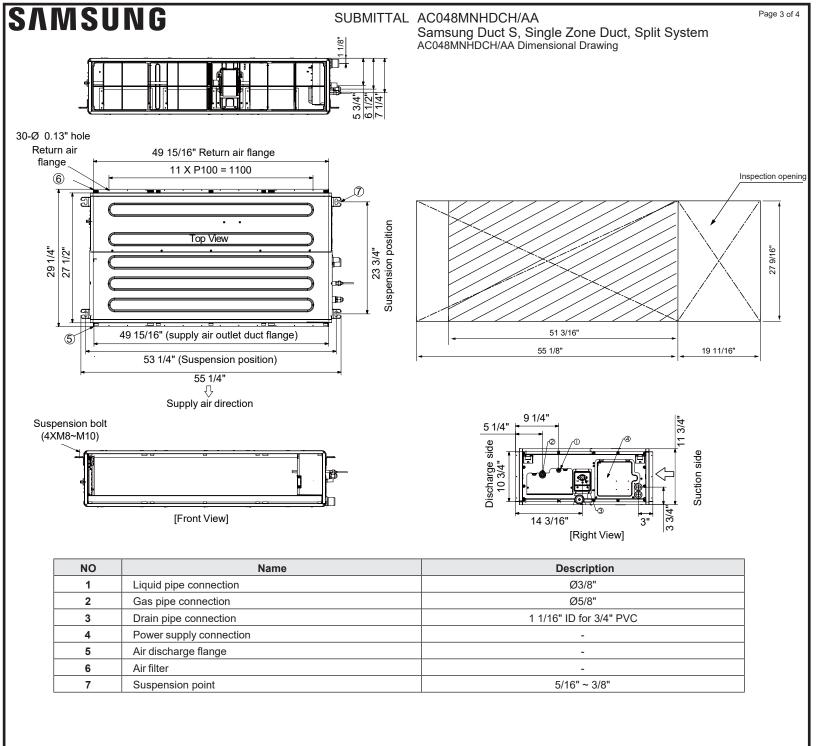
SAMSUNG

SUBMITTAL AC048MNHDCH/AA Samsung Duct S, Single Zone Duct, Split System AC048MNHDCH/AA Fan Characteristics (P-Q Curve)

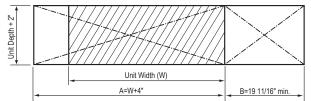
Fan performance characteristics based on installation option setting (6 fan options)



888-699-6067 www.SamsungHVAC.com

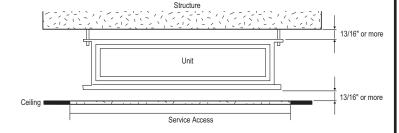


Inspection Opening Requirements

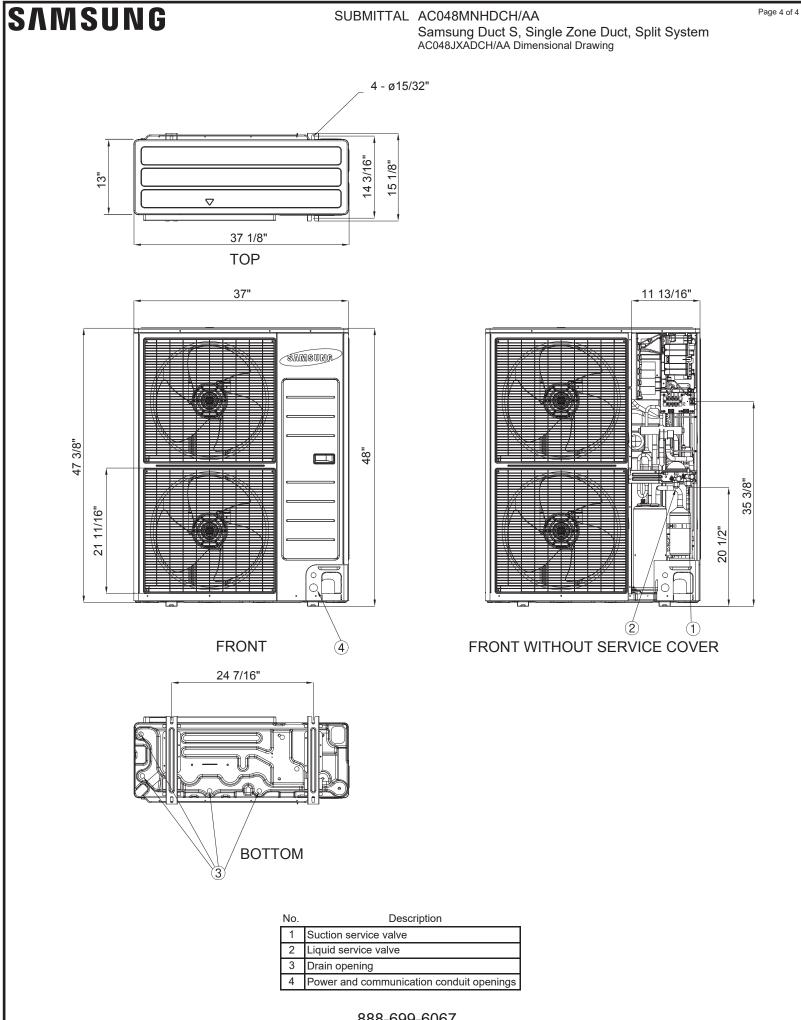


In applications where there is not a tile ceiling, an inspection hole is required. If height between ceiling and structure is 1.64' or more, inspection opening "B" is recommended. If height between ceiling and structure is less than 1.64', inspection opening "A" and "B" is recommended.(verify state and local codes).

Unit Clearance From Structure



888-699-6067 www.SamsungHVAC.com



888-699-6067 www.SamsungHVAC.com