SAMSUNG

SUBMITTAL AC018MNHDCH/AA Samsung Duct S, Single Zone Duct, Split System

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Job	Name
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Purchaser

Submitted to

Model

Unit Designation

AC018MNHDCH/AA

Location

Engineer

Reference

Construction

Schedule #

		0

Wodel	Outdoor Unit Model Number		AC018JXADCH/AA	
	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000	
	Capacity Range	Cooling (Btu/h)	5,000 - 21,000	
Performance ¹		Heating (Btu/h)	3,800 - 25,000	
	SEER / EER	(na)	18.6 / 9.4	
	COP (nominal heati HSPF	iiy)	3.1	
	AHRI Certification N	lumber	10.6 10146781	
	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Ra Operating Current		176 - 254 (max. 3% deviation from each)	
Power		Heating (A)	2.1/8.6/10.0	
	Max. Breaker	Amps	1.7 / 8.4 / 12.0	
	Min. Circuit Ampaci		15 10.0	
	WXHXD	,,,,		
	WXHXD (in.)	Indoor Unit Outdoor Unit	33 1/2 X 9 13/16 X 27 9/16	
	(III.) Weight	Indoor Unit	34 5/8 X 25 1/8 X 12 1/4 68.8	
Dimensions	(lbs.)	Outdoor Unit	99.2	
	Duct Connections	Supply (in.)	32 3/16 X 8 11/16	
	(W X H)	Return (ID, in.)	32 3/16 X 8 11/16	
	· · /			
Heat Exchanger	Туре	Indoor Unit	Aluminum Fin / Copper Tube	
		Outdoor Unit	Aluminum, flat fin, micro channel	
Sound Pressure	Indoor Unit dB(A)	L/M/H	26 / 30 / 34	
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48	
		Cooling	23 ~ 115°F(-5 ~ 46°C)	
Operating	Outdoor	Cooling	0 ~ 115°F(-18 ~ 46°C) w/ baffle	
Temperatures		Heating	-4 ~ 76°F(-20 ~ 24°C)	
°F(°C)	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)	
	Indeor	Heating	T ≤ 80°F(27°C)	
		High side (flare)	1/4"	
	Indoor & Outdoor	Low side (flare)	1/2"	
Pipe Connections	Maximum (ft.)		98	
	Maximum Vertical S	Separation (ft.)	66	
	Condensate Connect	ion (with included adapter)	1 1/16" ID for 3/4" PVC	
	Туре		R410A	
	Control Method		Electronic Expansion Valve	
Refrigerant	Factory Charge oz.		45.86	
Ū	Charged for		25 ft	
	Additional Refrigerant		0.11 oz/ft over 25 ft	
	Туре		Inverter Driven, Twin BLDC, Rotary	
Compressor	RLA	Amps	6.1	
	1	/		
	Туре	1	BLDC (1) With Sirocco Fan (2)	
	Air Volume	CFM (L/M/H)	353 / 477 / 600 (at standard ESP)	
Evaporator Fan		Total CFM Range ²	350 - 790	
	Output (W) / FLA (A	() Standard ("WC)	153 W / 1.1 A	
	Static Pressure	· · · /	0.10	
		Min. / Max. ("WC)	0.1 - 0.6	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)	
	FLA / Watts / CFM ((max.)	0.13 A / 39 W / 1,550 CFM	
	Wired Controller	Simplified Touch Controller	MWR-SH11UN	
	Wired Controller	Advanced Wired Controller	MWR-WG00UN	
	Wi-Fi Adapter		MIM-H04UN	
	Wireless Signal	Wireless Signal Receiver	MRK-A10N	
	Control	Wireless Controller	AR-EH03U	
	External Temperatu	ire Sensor	MRW-TA	
Optional	Filter Box		FB-DS1	
Accessories	External Contact Co		MIM-B14	
		face Module for Connection	MIM-N01	
	to DVM Plus Controls (non-NASA)			
	Wall Bracket (for ou	,	CKN-250	
	Wind Baffles	Front	WBF- 4M	
		Back	WBB-6M	
		d and flared, interconnect	25' - ILS-2507	
	cables included		50' - ILS-5007	
	Certifications	FT	L (UL 1995)	

Specifications

Indoor Unit Model Number

Outdoor Unit Model Number



Approval



Horizontal discharge airflow

Low ambient control built in

The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire

Auto-restart after power loss

- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor unit 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 (from bottom of unit) and float switch that disables indoor unit during overflow detection
- The indoor unit shall have automatic air volume scanning for simple setup and optimized comfort settings for the occupant.
- The indoor unit shall have smart-tuning function that can provide optimized comfort by allowing the occupant to offset the fan CFM curve with a wired remote controller (MWR-SH10N, MWR-WE13UN, MWR-SH11UN, MWR-WG00UN) to increase or decrease airflow.
- The indoor unit shall allow service access from four sides (top, bottom, left, right).
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night.

Construction

The outdoor unit shall be galvanized steel with a baked on powder coated finish for lurability

he indoor unit shall be insulated, galvanized steel.

leat Exchanger

he indoor unit heat exchanger shall be mechanically bonded fin to copper tube

The outdoor unit heat exchanger shall be aluminum, flat fin, micro channel

Controls

Control signal shall be a DDC type signal

nterconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded

Vired or wireless controls must be purchased separately

Connection to optional wired controllers shall be 2 X 16AWG shielded wire

Controls shall integrate with a BMS system

he system shall integrate with the Samsung NASA Controls Solution

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control options.

Refrigerant System

The refrigerant shall be R410A

The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary

Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Soft-start to reduce current demand during compressor start

Varrantv

0 years compressor, 10 years parts, 1 year limited labor (conditions apply)



latest edition of AHRI Standard 210/240

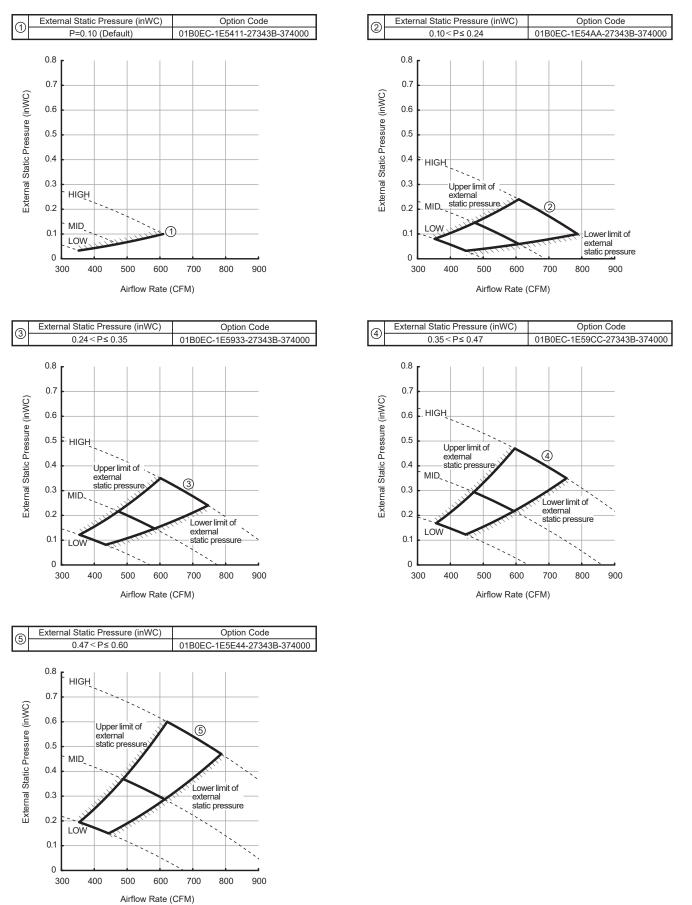
2 Refer to installation manual for full fan curve details Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

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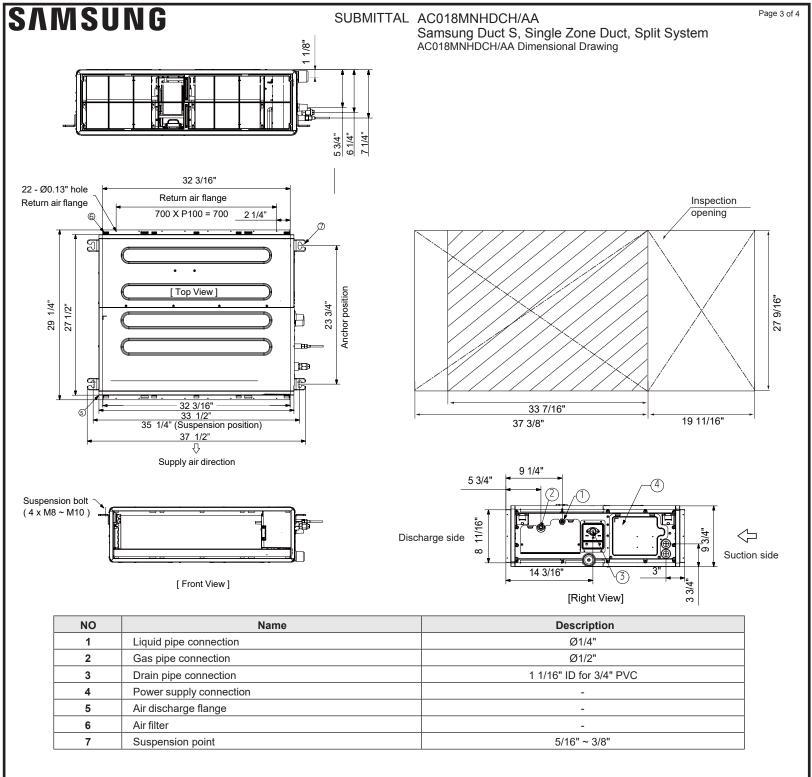
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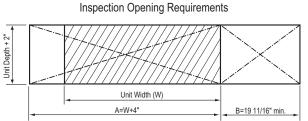
SUBMITTAL AC018MNHDCH/AA Samsung Duct S, Single Zone Duct, Split System AC018MNHDCH/AA Fan Characteristics (P-Q Curve)

Fan performance characteristics based on installation option setting (5 fan options)



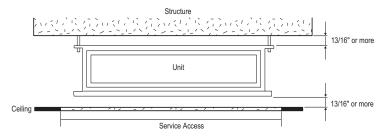
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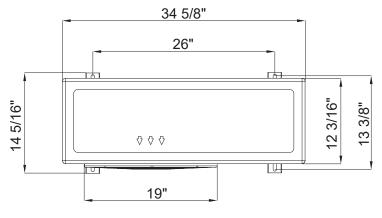
In applications where there is not a tile ceiling, an inspection hole is required. If height between ceiling and structure is 1.64' or more, inspection opening "B" is recommended. If height between ceiling and structure is less than 1.64', inspection opening "A" and "B" is recommended.(verify state and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

Unit Clearance From Structure

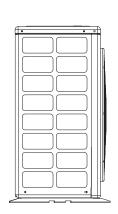


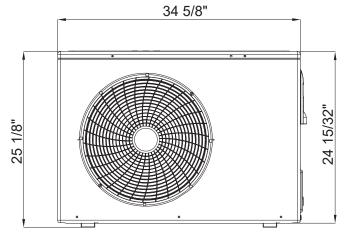
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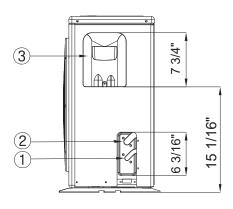
SUBMITTAL AC018MNHDCH/AA Samsung Duct S, Single Zone Duct, Split System AC018JXADCH/AA Dimensional Drawing







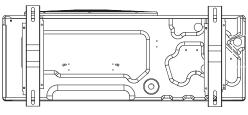




LEFT

FRONT

RIGHT



BOTTOM

No.	Description
1	Liquid service valve
2	Suction service valve
3	Power and communication conduit openings

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