SUBMITTAL AC018MNHDCH/AA

Samsung Duct S, Single Zone Duct, Split System

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	_
Jnit Designation	Schedule #			_

Unit Design	au011		
		Specifications	
Model	Indoor Unit Model N	, ,	AC018MNHDCH/AA (CNH18HDM
Model	Outdoor Unit Model	Number (US Code)	AC018JXADCH/AA (CXH18ADJ)
	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000
	Capacity Range	Cooling (Btu/h)	5,000 - 21,000
		Heating (Btu/h)	3,800 - 25,000
Performance 1	SEER / EER		18.6 / 9.4
	COP (nominal heating)		3.1
	HSPF		10.6
	AHRI Certification Number		10146781
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Ra		176 - 254 (max. 3% deviation from each)
Power	Operating Current Cooling (A)		2.1 / 8.6 / 10.0
i owei	(min. / std. / max.)	Heating (A)	1.7 / 8.4 / 12.0
	Max. Breaker Amps		15
	Min. Circuit Ampaci	ty (A)	10.0
	WXHXD	Indoor Unit	33 1/2 X 9 13/16 X 27 9/16
	(in.)	Outdoor Unit	34 5/8 X 25 1/8 X 12 1/4
Dimensions	Weight	Indoor Unit	68.8
Dillielisiolis	(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
= .	Туре	Indoor Unit	Aluminum Fin / Copper Tube
Heat Exchanger		Outdoor Unit	Aluminum, flat fin, micro channe
Sound Pressure	Indoor Unit dB(A)	L/M/H	26 / 30 / 34
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
	Outdoor	cooming / riodaming (ringin)	23 ~ 115°F(-5 ~ 46°C)
Operating		Cooling	0 ~ 115°F(-18 ~ 46°C) w/ baffle
Temperatures		Heating	-4 ~ 76°F(-20 ~ 24°C)
°F(°C)		Cooling	61 ~ 90°F(16 ~ 32°C)
. (3)	Indoor	Heating	T ≤ 80°F(27°C)
		_	1/4"
	Indoor & Outdoor	High side (flare)	1/4"
Pipe Connections	Low side (flare)		98
ripe Connections	Maximum (π.) Maximum Vertical Separation (ft.)		66
	Condensate Connection (with included adapter)		1 1/16" ID for 3/4" PVC
		(mar moladou dauptor)	
	Туре		R410A
Refrigerant	Control Method		Electronic Expansion Valve
	Factory Charge oz.		45.86
	Charged for Additional Refrigerant		25 ft
		an	0.11 oz/ft over 25 ft
Compressor	Туре	1 -	Inverter Driven, Twin BLDC, Rotary
	RLA	Amps	6.1
	Туре		BLDC (1) With Sirocco Fan (2)
	CEM (L/M/H)		353 / 477 / 600 (at standard ESP)
Evaporator Fan	Air Volume	Total CFM Range ²	350 - 790
	Output (W) / FLA (A)		153 W / 1.1 A
	Static Pressure	Standard ("WC)	0.10
	Static Fressure	Min. / Max. ("WC)	0.1 - 0.6

Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing

Min. / Max. ("WC)

Motor

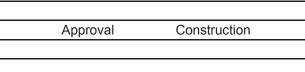
Certifications

FLA / Watts / CFM (max.)

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.







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- · Horizontal discharge airflow
- 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
- · 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-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 durability

The indoor unit shall be insulated, galvanized steel.

Heat Exchanger

The 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

0.1 - 0.6

BLDC With Axial Type Fan (1)

0.13 A / 39 W / 1,550 CFM

ETL (UL 1995)

Control signal shall be a DDC type signal

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

Wired or wireless controllers must be purchased separately

Controls shall integrate with a BMS system

The 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

Warranty

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



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.

Refer to installation manual for full fan curve details

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

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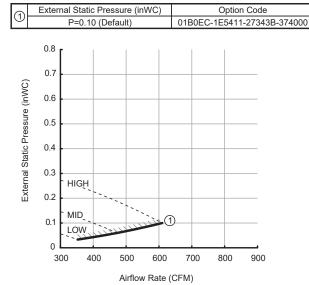
Optional Accessories

SAMSUNG

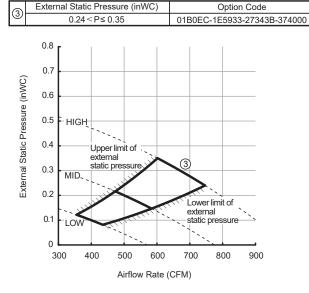
Wired Controller	Simplified Touch Controller	MWR-SH11UN
wired Controller	Advanced Wired Controller	MWR-WG00UN
Wi-Fi Adapter		MIM-H04UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH03U
External Temperature Sensor		MRW-TA
Filter Box		FB-DS1
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF- 4M
	Back	WBB-6M-B
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2507
		50' - ILS-5007
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN

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)

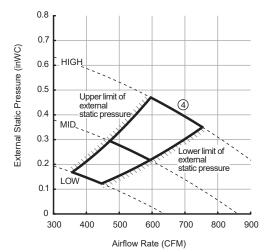


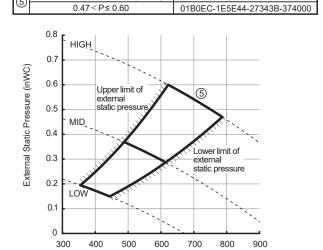
2	External Static Pressure (inWC)		Option Code	
6	0.10 < P≤ 0.24		01B0EC-1E54AA-27343B-374000	
	0.8	[
External Static Pressure (inWC)	0.7	-		
	0.6			
	0.5	-		
tatic P	0.4	HIGH		
ernal S	0.3	Upper limit of external		
Ext	0.2	MID_static pressure	2	
	0.1	LOW	Lower limit of external	
	0	'ridelle	static pressure	
	30	00 400 500 600	700 800 900	
		Airflow Rate (CFM)	



External Static Pressure (inWC)

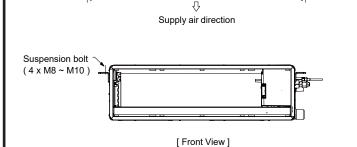
(4)	External Static Pressure (inWC)	Option Code
4	0.35 < P≤ 0.47	01B0EC-1E59CC-27343B-374000





Airflow Rate (CFM)

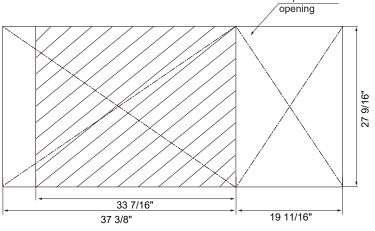
Option Code

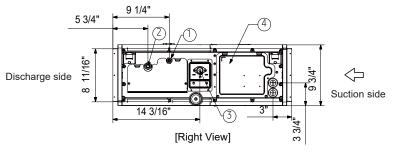


32 3/16'

37 1/2"

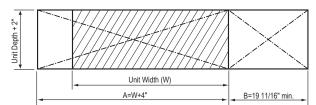
33 1/2" 35 1/4" (Suspension position)





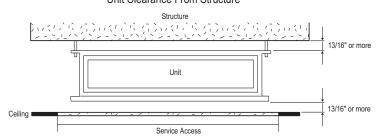
NO	Name	Description
1	Liquid pipe connection	Ø1/4"
2	Gas pipe connection	Ø1/2"
3	Drain pipe connection	1 1/16" ID for 3/4" PVC
4	Power supply connection	-
5	Air discharge flange	-
6	Air filter	-
7	Suspension point	5/16" ~ 3/8"

Inspection Opening Requirements

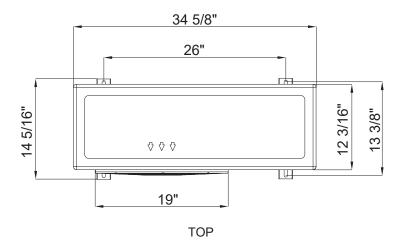


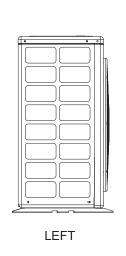
In applications where there is not a tile ceiling, an inspection hole is required. If height between ceiling and structure is 1.64' or more, inspection opening "B" is recommended. If height between ceiling and structure is less than 1.64', inspection opening "A" and "B" is recommended.(verify state and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

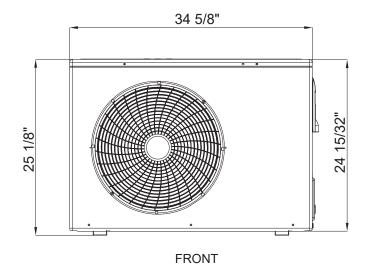
Unit Clearance From Structure

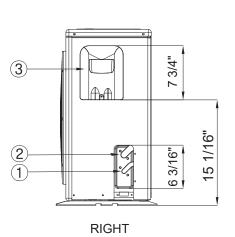


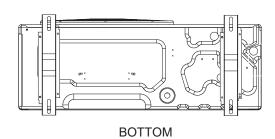
Samsung Duct S, Single Zone Duct, Split System AC018JXADCH/AA Dimensional Drawing











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

888-699-6067 www.SamsungHVAC.com