SAMSUNG

SUBMITTAL AC018MNADCH/AA
Samsung, High-Wall Evaporator, Split System

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

Specifications

Model	Indoor Unit Model Number (US Code)		AC018MNADCH/AA (CNH18ADM)
	Outdoor Unit Model Number (US Code)		AC018JXADCH/AA (CXH18ADJ)
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000
	Capacity Range	Cooling (Btu/h)	4,000 - 20,000
		Heating (Btu/h)	3,800 - 25,000
	SEER / EER		18.8 / 8.33
	COP (nominal heating)		2.98
	HSPF		10
	AHRI Certification Number		10227623
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current	Cooling (A)	2.0 / 9.4 / 9.5
	(min. / std. / max.)	Heating (A)	1.7 / 8.5 / 12.0
	Max. Breaker	Amps	15
	Min. Circuit Ampacity (A)		10.0
Dimensions	W X H X D	Indoor Unit	35 5/16 x 10 5/16 x 10 5/16
	(in.)	Outdoor Unit	34 5/8 X 25 1/8 X 12 3/16
	Weight	Indoor Unit	23.81
	(lbs.)	Outdoor Unit	99.21
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin / Copper Tube
		FPI	18
		Pipe Diameter (in.)	1/4
	Outdoor Unit	Type	Aluminum, flat fin, micro channel
Sound Pressure Level	Indoor Unit dB(A)	(Silent) / L / M / H	29 / 32 / 37 / 42
	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
Operating Temperatures °F(°C)	Outdoor	Cooling	23 ~ 115°F(-5 ~ 46°C)
			0 ~ 115°F(-18 ~ 46°C) w/ baffle
		Heating	-4 ~ 76°F(-20 ~ 24°C)
	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)
		Heating	T ≤ 80°F(27°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	1/2"
	Maximum (ft.)		98
	Maximum Vertical Separation (ft.)		66
	Condensate Connection		11/16" OD
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	45.92
	Charged for		25 ft
	Additional Refrigerant		0.11 oz/ft over 25 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC, Rotary
	RLA	Amps	6.1
Evaporator Fan	Type		BLDC with Crossflow fan (1)
	Air Volume	CFM (L/M/H)	265 / 336 / 406
	Output (W) / FLA (A)		27 W / 0.70 A
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		0.13 A / 39 W / 1,550 CFM
Safety	Certifications		ETL (UL 1995)
	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.





- Wall-mounted evaporator
- 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 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

Indoor unit chassis shalle be UL94 V0 with a galvanized steel mounting plate

The indoor unit shall have easy-access to wire, pipe, and drain connections via access panel on front of unit for easier installation and service

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
Control signal shall be a DDC type signal

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

Wired controllers must be purchased separately

Wireless controller included

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)

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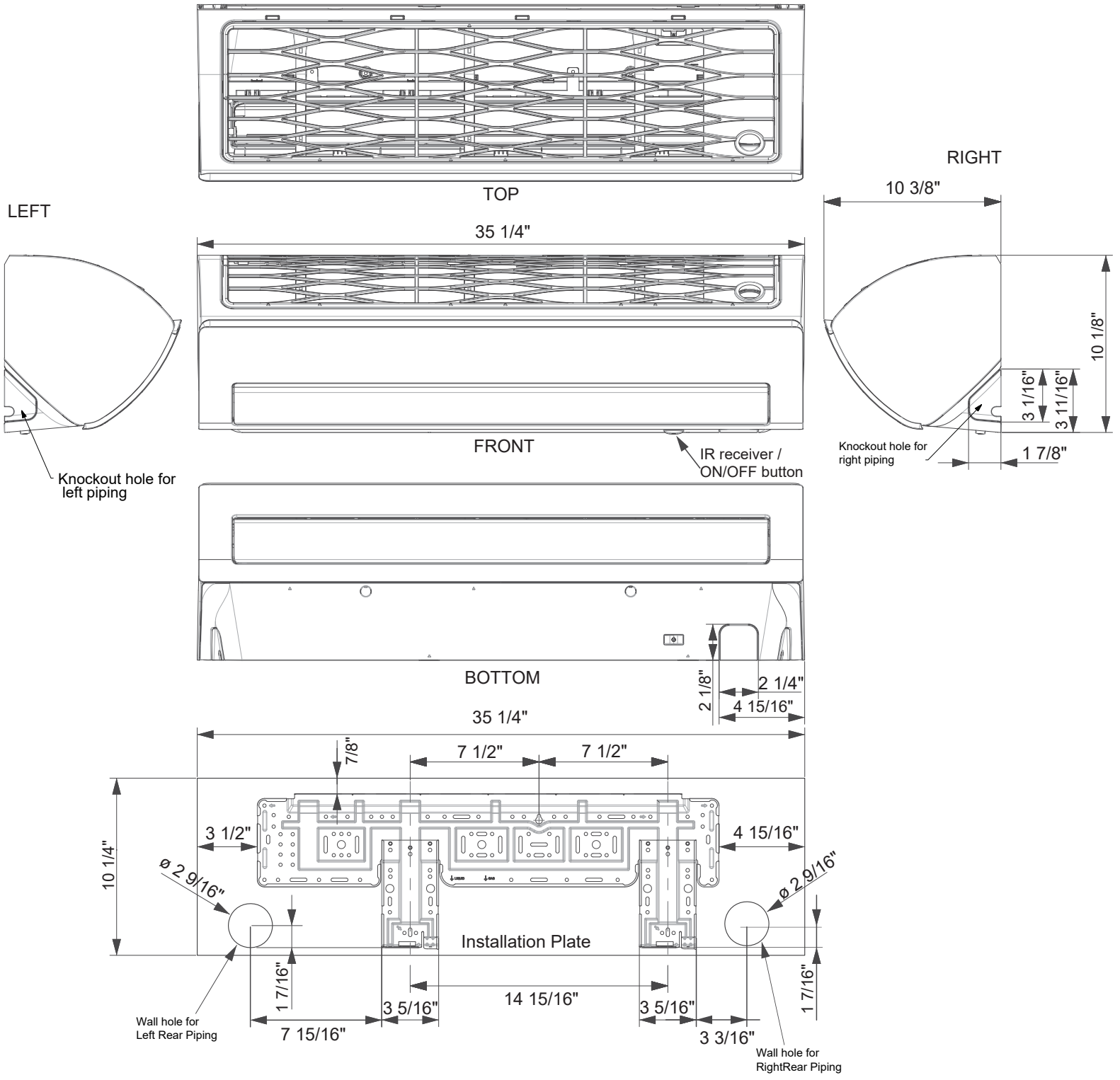
AHRI CERTIFIED www.ahridirectory.org Unitary Small AC AHRI Standard 210/240

Optional Accessories

Wired Controller	Simplified Touch Controller	☐	MWR-SH11UN
	Advanced Wired Controller	☐	MWR-WG00UN
Condensate pump	Aspen Mini Orange	☐	ASP-MO-UNIV 110-250
	Blue Diamond	☐	BD-BLUE230
Wi-Fi Adapter		☐	MIM-H04UN
External Temperature Sensor		☐	MRW-TA
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

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SUBMITTAL AC018MNADCH/AA
Samsung, High-Wall Evaporator, Split System
AC018MNADCH/AA Dimensional Drawing



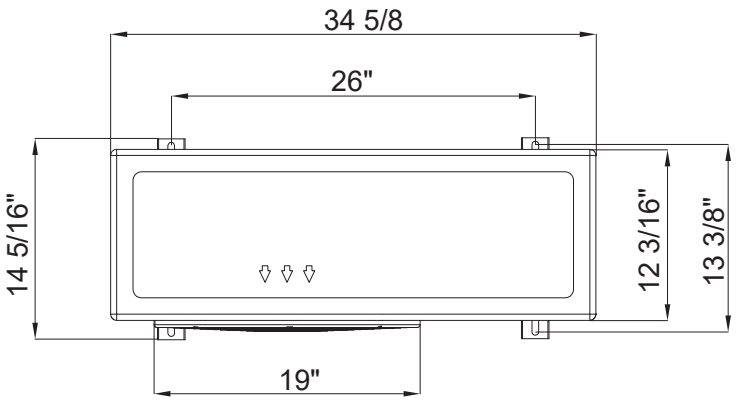
No.	Name	Description
1	Liquid pipe connection	1/4"
2	Gas pipe connection	1/2"
3	Drain pipe connection	11/16" OD
4	Power supply & Communication wiring conduit	-

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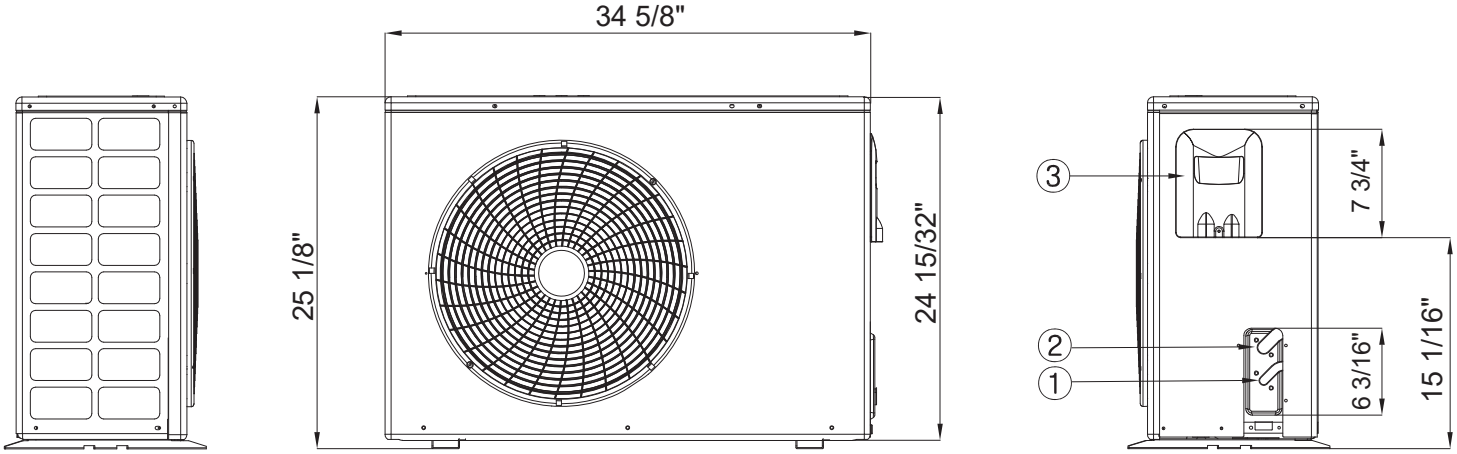
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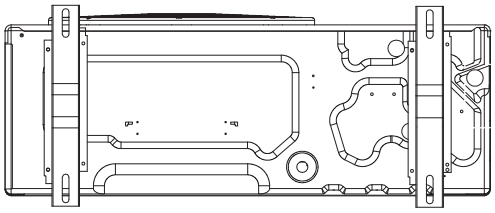
AC018JXADCH/AA Dimensional Drawing



TOP



LEFT FRONT RIGHT



BOTTOM

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