SAMSUNG

SUBMITTAL AC036MNTDCH/AA, AC036MXSCCC/AA

Samsung, Low Ambient Cooling, 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)		AC036MNTDCH/AA (CNH36TDM)
	Outdoor Unit Model Number (US Code)		AC036MXSCCC/AA (CXC36SCM)
Performance	Nominal Capacity	Btu/h	36,000
	Capacity Range	Btu/h	10,000 - 38,000
	SEER / EER		18.0 / 8.10
	AHRI Certification Number		10491547
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current	min. / std. / max.	3.0 / 19.5 / 21.0
	Max. Breaker	Amps	30
	Min. Circuit Ampacity (A)		24.0
Dimensions	W X H X D (in.)	Indoor Unit	50 3/8 x 13 9/16 x 9 15/16
		Outdoor Unit	37 X 39 11/16 X 13
	Weight (lbs.)	Indoor Unit	40.57
		Outdoor Unit	159.61
Heat Exchanger	Indoor & Outdoor Unit Type		Aluminum Fin / Copper Tube
Sound Pressure Level	Indoor Unit dB(A)	(Silent) / L / M / H	38 / 46 / 48 / 51
	Outdoor Unit dB(A)	High	54
Operating Temperatures	Outdoor	°F(°C)	23 ~ 115°F(-5 ~ 46°C)
			-40 ~ 115°F(46°C) w/wind baffle
	Indoor	°F(°C)	61 ~ 90°F(16 ~ 32°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		164
	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection		11/16" OD
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	84.64
	Charged for		25 ft
	Additional Refrigerant		0.32 oz/ft over 25 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, BLDC, Rotary
	RLA	Amps	16.5
Evaporator Fan	Type		BLDC with Crossflow fan (1)
	Air Volume	CFM (L/M/H)	699 / 752 / 830
	Output (W) / FLA (A)		58 W / 0.90 A
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / W / CFM (max.)		1.51 A / 164 W / 2,754 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		

Certified in accordance with the AHRI Unitary Small Air-Conditioners (USAC) 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.

Notice: US Federal law requires that the above model to be installed in all U.S. states and territories except in AZ, CA, NM, and NV. Federal law prohibits installation of this unit in these states.

- Wall-mounted evaporator
- Low ambient cooling to -40°
- 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 shall 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 and outdoor unit heat exchangers shall be mechanically bonded aluminum fin to copper tube

Controls

Control signal shall be a DDC type signal

Advanced configuration options for high room temperature alerts using MIM-B14 external contact control to enable a backup system and/or to notify a BMS (refer to technical documents available at www.samsungHVAC.com for full details).

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 (MIM-D01AUN, MIM-B17BUN, MIM-B18BUN, MCM-A300UN).

Refrigerant System

The refrigerant shall be R410A

The compressor shall be hermetically sealed, inverter controlled, 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

7 Years compressor, 5 years parts with registration

888-699-6067

www.SamsungHVAC.com

AHRI CERTIFIED www.ahridirectory.org Unitary Small AC AHRI Standard 210/240 Certification applies only when the complete system is listed with AHRI

ETL LISTED C US Intertek

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-2M-B
	Back	☐	WBB-3M
Line Sets - insulated and flared, interconnect cables included		☐	25' - ILS-2510
		☐	50' - ILS-5010
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		☐	MIM-A60UN

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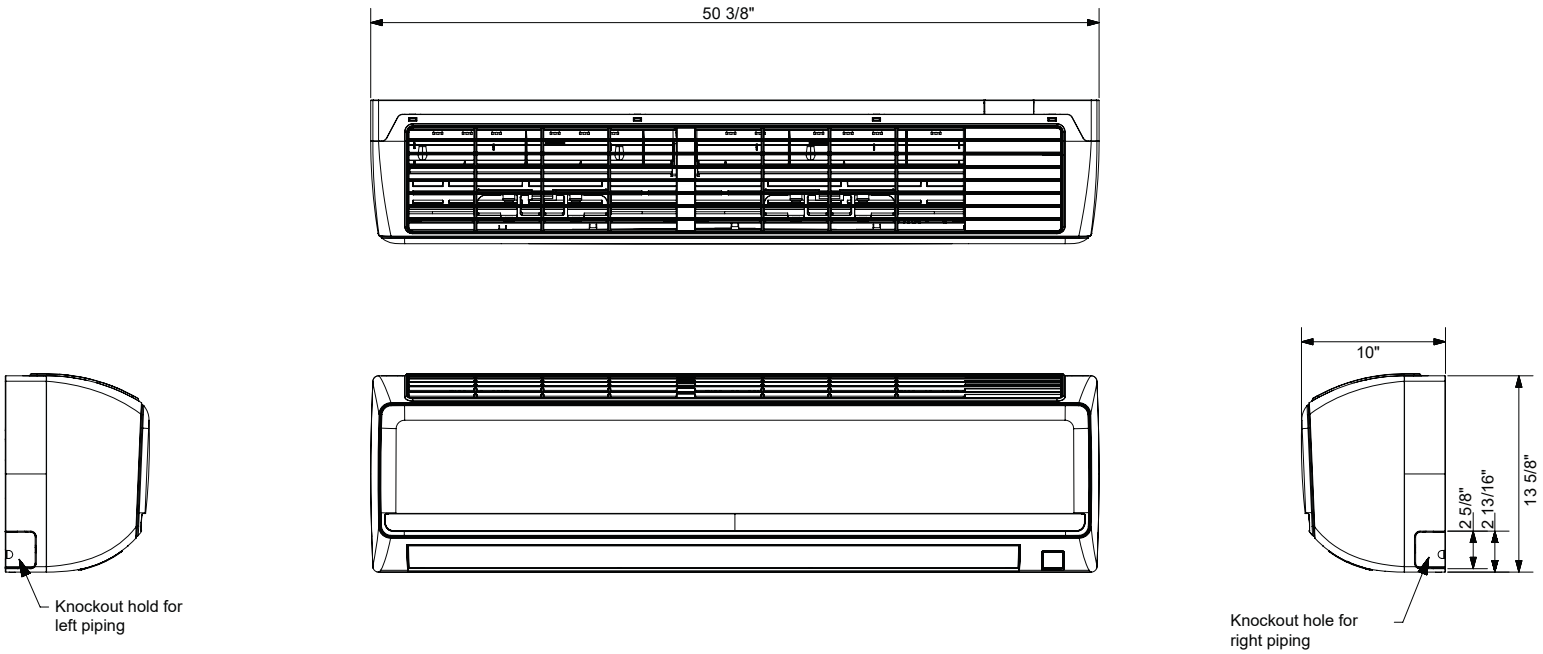
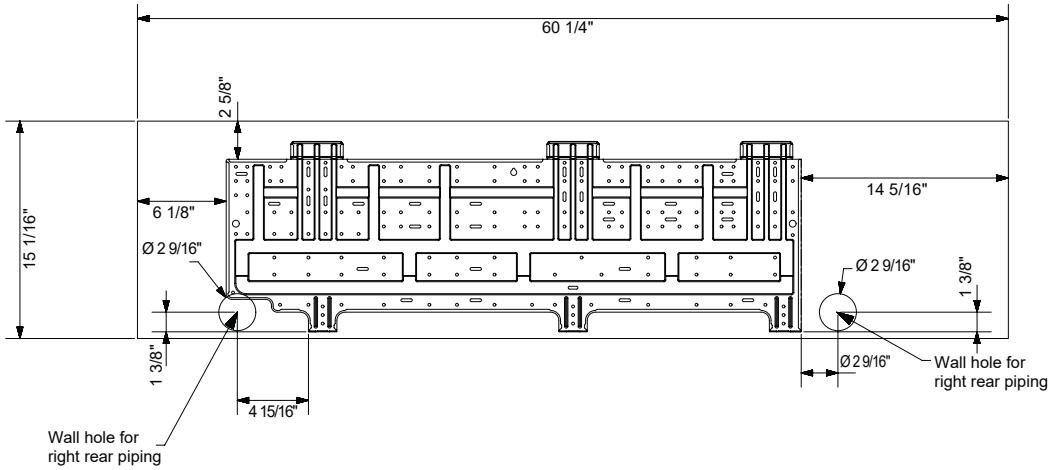
AC036MNTDCH/AA Dimensional Drawing





No.	Name	Description
1	Liquid pipe connection	3/8"
2	Gas pipe connection	5/8"
3	Drain pipe connection	11/16" OD
4	Power supply & Communication wiring conduit	-

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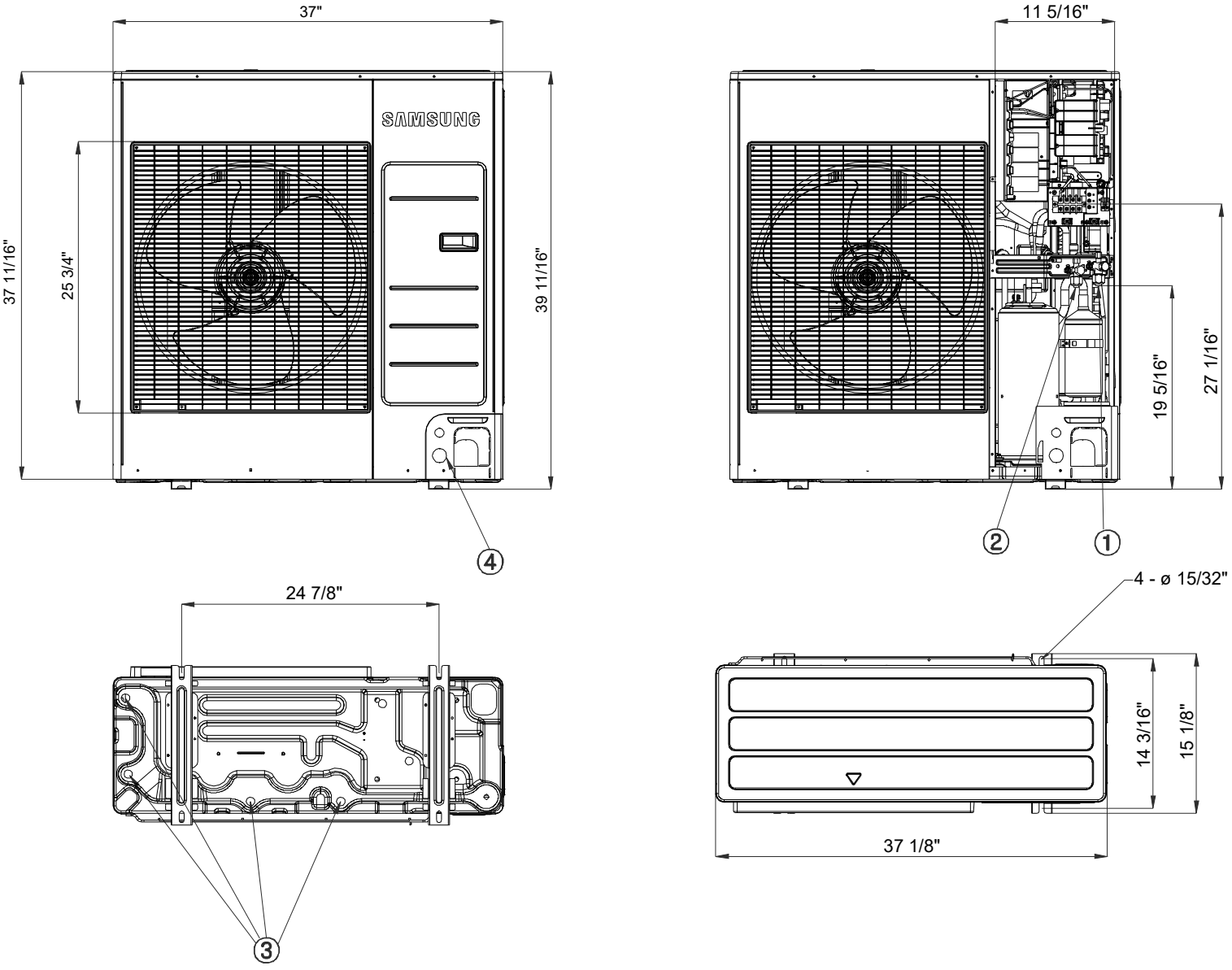

No.	Name	Description
①	Gas Pipe Connection	Ø 3/8" Flare
②	Liquid pipe Connection	Ø 5/8" Flare
③	Drain Hole	-