

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Schedule #

Approval

Construction

Specifications			
Model	Indoor Unit Model Number		AC030MNTDCH/AA
	Outdoor Unit Model Number		AC030JXADCH/AA
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	30,000 / 32,000
	Capacity Range	Cooling (Btu/h)	9,300 - 35,000
		Heating (Btu/h)	9,000 - 38,000
	SEER / EER		19.5 / 9.52
	COP (nominal heating)		2.78
	HSPF		9.2
	AHRI Certification Number		10227626
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.)	Cooling (A)	4.0 / 13.7 / 15.0
		Heating (A)	3.4 / 14.7 / 21.8
	Max. Breaker	Amps	30
	Min. Circuit Ampacity (A)		20.3
Dimensions	W X H X D (in.)	Indoor Unit	50 3/8 x 13 5/8 x 10
		Outdoor Unit	37 X 39 5/16 X 13
	Weight (lbs.)	Indoor Unit	40.57
		Outdoor Unit	154.32
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin / Copper Tube
		FPI	18
	Outdoor Unit	Pipe Diameter (in.)	1/4
		Type	Aluminum, flat fin, micro channel
Sound Pressure Level	Indoor Unit dB(A)	(Silent) / L / M / H	37 / 45 / 47 / 49
	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 52
Operating Temperatures °F(°C)	Outdoor	Cooling	23 ~ 115°F(-5 ~ 46°C)
		Heating	0 ~ 115°F(-18 ~ 46°C) w/ baffle
	Indoor	Cooling	-4 ~ 76°F(-20 ~ 24°C)
		Heating	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
	Condensate Connection		11/16" OD
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	91.68
	Charged for		25 ft
	Additional Refrigerant		0.24 oz/ft over 25 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC, Rotary
	RLA	Amps	15.1
Evaporator Fan	Type		BLDC with Crossflow fan (1)
	Air Volume	CFM (L/M/H)	671 / 724 / 777
	Output (W) / FLA (A)		58 W / 0.90 A
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		0.48 A / 125 W / 2,221 CFM
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
	Central Control Interface Module for Connection to DVM Plus Controls (non-NASA)		MIM-N01
	Wall Bracket (for outdoor unit)		CKN-250
	Wind Baffles	Front	WBF-2M
		Back	WBB-3M
Line Sets - insulated and flared, interconnect cables included			25' - ILS2510
			50' - ILS5010
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		




- Wall-mounted evaporator
- 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 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)

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 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 indoor unit shall be 16AWG X 2 shielded

Wired controls must be purchased separately

Wireless controller included

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

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

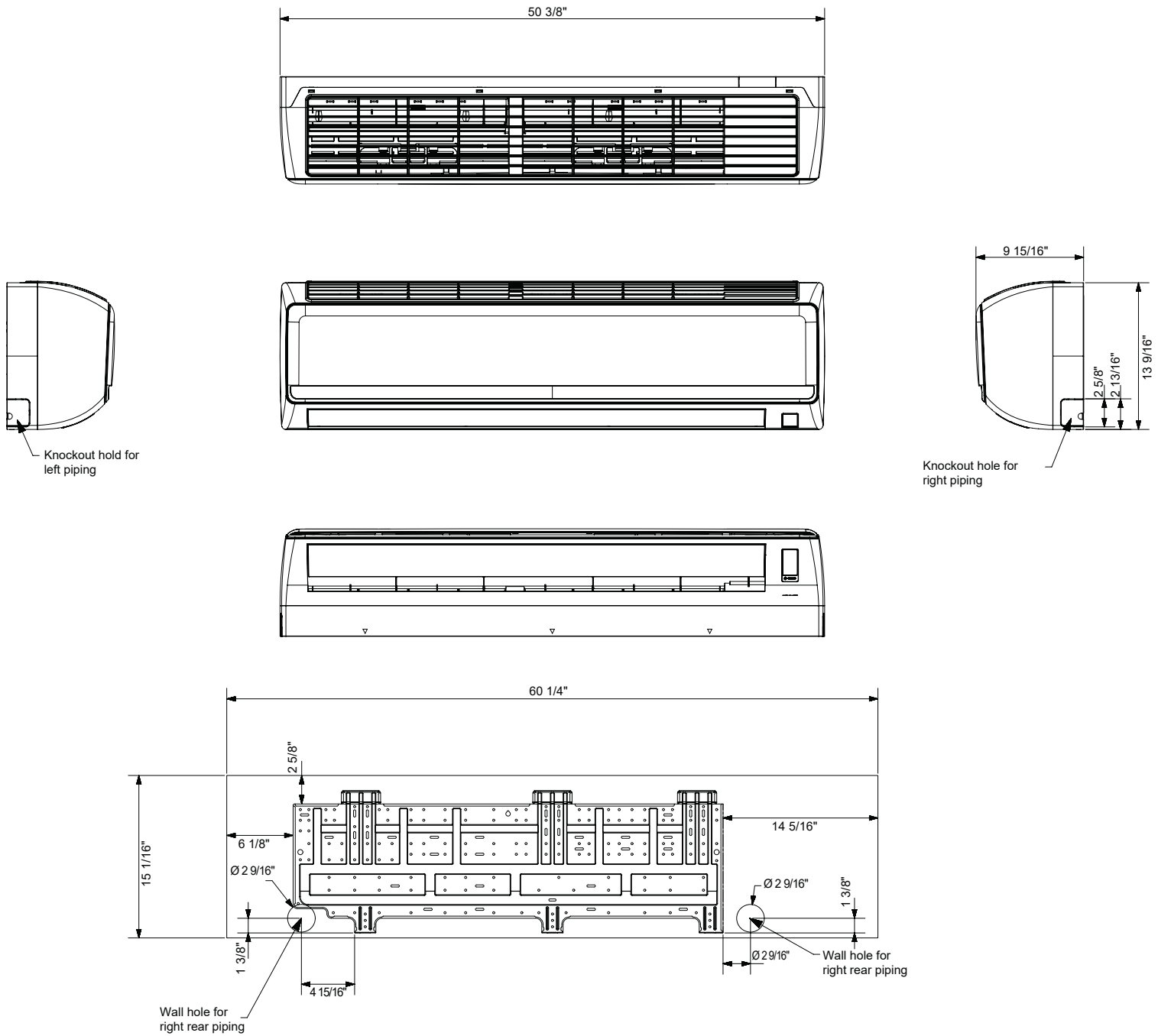
The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary

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

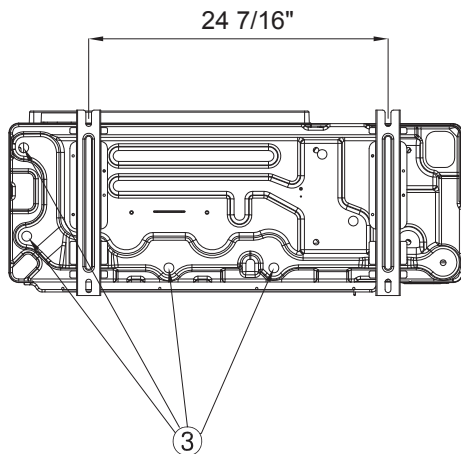
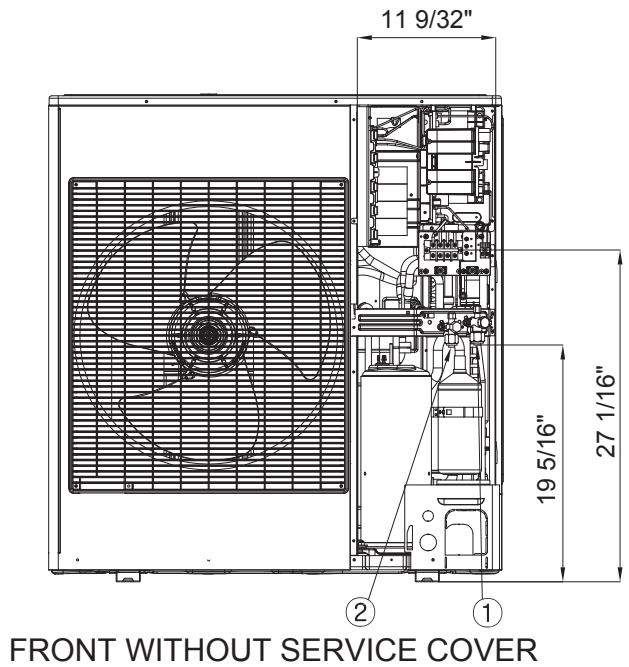
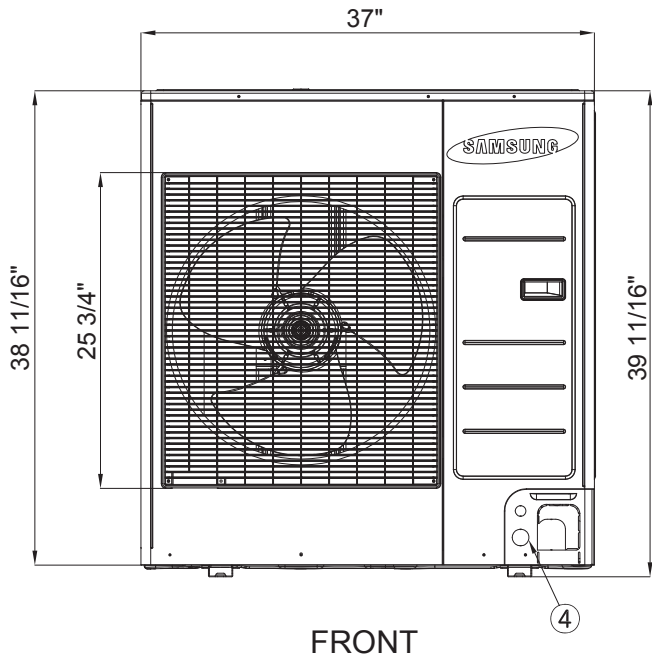
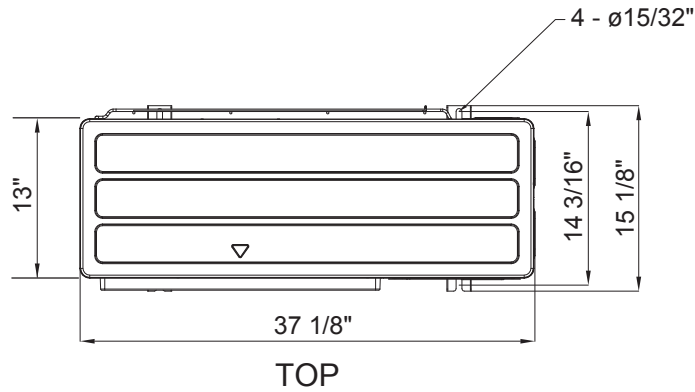
Soft-start to reduce current demand during compressor start

Warranty

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



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



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