

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Approval

Construction

Schedule #

Specifications			
Model	Indoor Unit Model Number		AC036MNHDC/AA
	Outdoor Unit Model Number		AC036JXSCCH/AA
Performance <sup>1</sup>	Nominal Capacity	Cooling / Heating (Btu/h)	36,000 / 40,000
	Capacity Range	Cooling (Btu/h)	14,000 - 42,000
		Heating (Btu/h)	12,000 - 48,000
	SEER / EER		20.0 / 12.20
	COP (nominal heating)		3.34
	HSPF		10.4
AHRI Certification Number		10347731	
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)	4.8 / 13.5 / 17.0
		Heating (A)	3.7 / 15.8 / 23.0
	Max. Breaker	Amps	45
Min. Circuit Ampacity (A)	32		
Dimensions	W X H X D (in.)	Indoor Unit	51 3/16 X 11 13/16 X 27 9/16
		Outdoor Unit	37 X 55 7/8 x 13
	Weight (lbs.)	Indoor Unit	99.6
		Outdoor Unit	211.6
	Duct Connections (W X H)	Supply (in.)	49 15/16 X 10 5/8
	Return (ID, in.)	49 15/16 X 10 5/8	
Heat Exchanger	Type	Indoor Unit	Aluminum Fin / Copper Tube
		Outdoor Unit	Aluminum, flat fin, micro channel
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	30 / 34 / 38
	Outdoor Unit dB(A)	Cooling / Heating (high)	51 / 53
Operating Temperatures °F (°C)	Outdoor	Cooling	23 ~ 115°F (-5 ~ 46°C)
		Heating	-4 ~ 115°F (-20 ~ 46°C) w/ baffle
	Indoor	Cooling	-13 ~ 75°F (-25 ~ 24°C)
		Heating	61 ~ 90°F (16 ~ 32°C)
			T ≤ 80°F (27°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98
	Condensate Connection (with included adapter)		1 1/16" ID for 3/4" PVC
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	102.24
	Charged for		25 ft
	Additional Refrigerant		0.269 oz/ft over 25 ft
Compressor	Type		Inverter Driven, Twin BLDC, Rotary
	RLA	Amps	20.0
Evaporator Fan	Type		BLDC (1) With Sirocco Fan (3)
	Air Volume	CFM (L/M/H)	848 / 989 / 1165 (at standard ESP)
		Total CFM Range <sup>2</sup>	848 - 1,620
	Output (W) / FLA (A)		244 W / 2.0 A
	Static Pressure	Standard ("WC)	0.16
Min. / Max. ("WC)		0.12 - 0.8	
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
	FLA / Watts / CFM (max.)		0.48 A X 2 / 125 W X 2 / 4,415 CFM
Optional Accessories	Wired Controller	Simplified Touch Controller	MWR-SH11UN
		Advanced Wired Controller	MWR-WG00UN
	Wi-Fi Adapter		MIM-H04UN
	Wireless Signal Control	Wireless Signal Receiver	MRK-A10N
		Wireless Controller	AR-EH03U
	External Temperature Sensor		MRW-TA
	Filter Box		FB-DS3
	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-6M
		Back	WBB-4M
Line Sets - insulated and flared, interconnect cables included			25' - ILS-2510
			50' - ILS-5010
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		



- Horizontal discharge airflow
- High heating performance at -13°F (-25°C)
- 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 and outdoor units 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).
- Pipe connections at the outdoor unit shall be made inside the unit chassis. Refrigerant pipes can exit through the front, side, rear, or bottom sides of the outdoor unit.
- 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).
- The outdoor unit shall have a base pan heater as standard (150W)

**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**  
Control signal shall be a DDC type signal  
Interconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded  
Wired 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  
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.

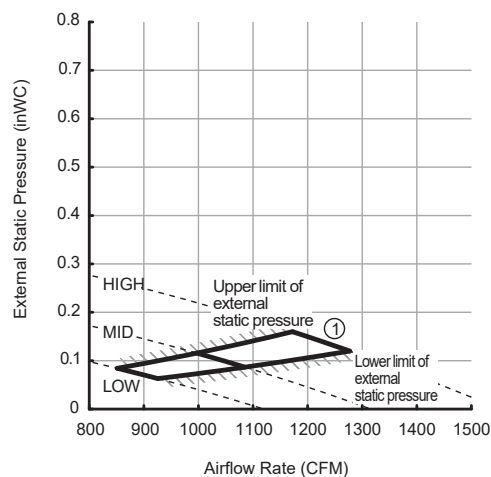
**Refrigerant System**  
The refrigerant shall be R410A  
The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary  
Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit  
Soft-start to reduce current demand during compressor start

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

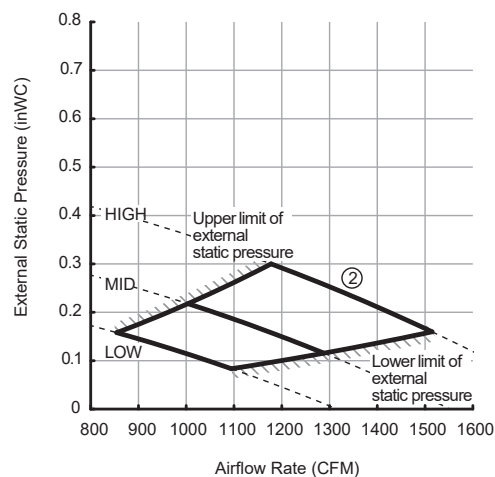
Samsung Low Ambient Heating "Max Heat" Duct S, Single Zone, Split System  
AC036MNHDC/AA Fan Characteristics (P-Q Curve)

Fan performance characteristics based on installation option setting (6 fan options)

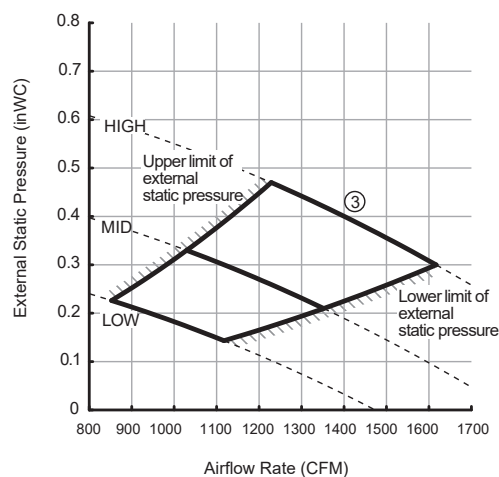
①	External Static Pressure (inWC)	Option Code
	$0.12 \leq P \leq 0.16$	01B0EC-1E5403-276470-376045



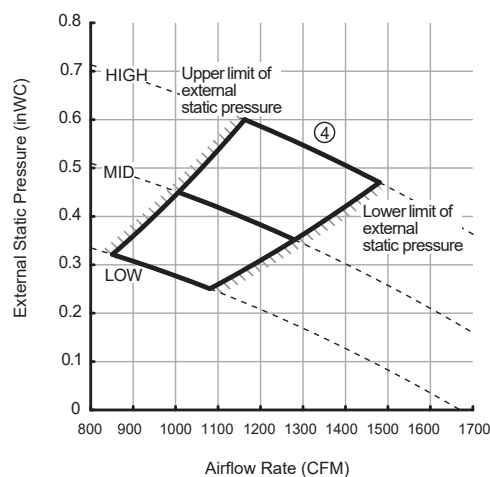
②	External Static Pressure (inWC)	Option Code
	$0.16 < P \leq 0.30$	01B0EC-1E546A-276470-376045



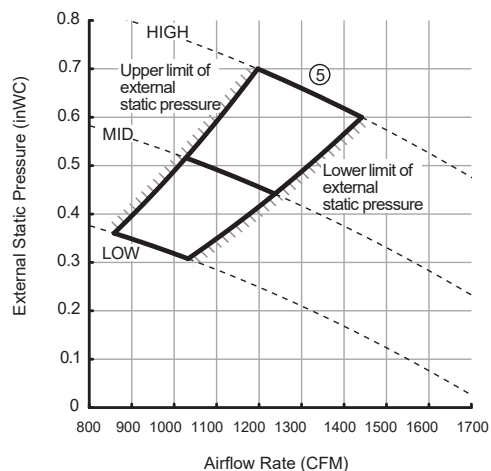
③	External Static Pressure (inWC)	Option Code
	$0.30 < P \leq 0.47$	01B0EC-1E55D1-276470-376045



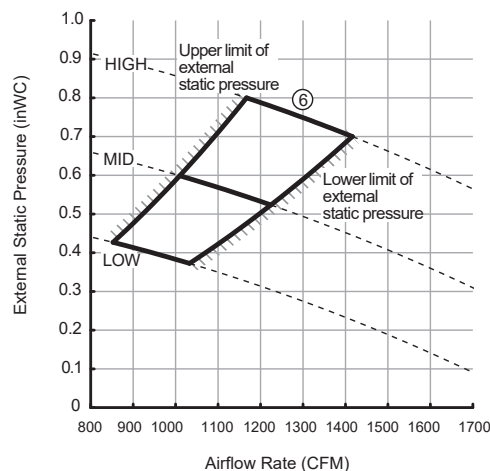
④	External Static Pressure (inWC)	Option Code
	$0.47 < P \leq 0.60$	01B0EC-1E5926-276470-376045



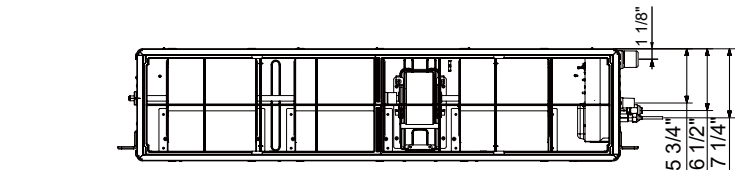
⑤	External Static Pressure (inWC)	Option Code
	$0.60 < P \leq 0.70$	01B0EC-1E5959-276470-376045



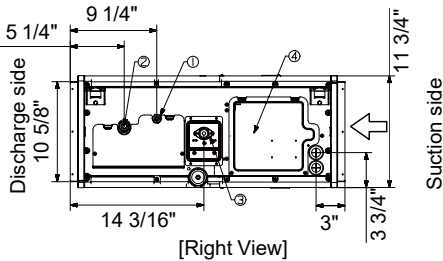
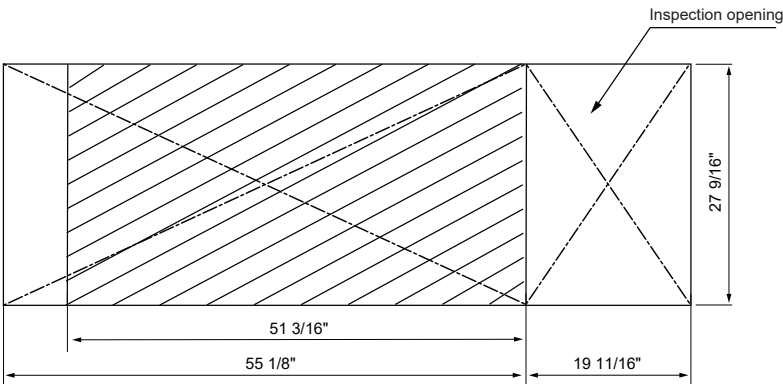
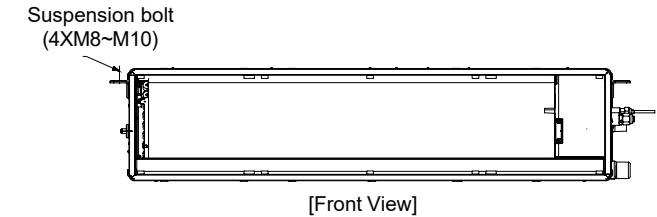
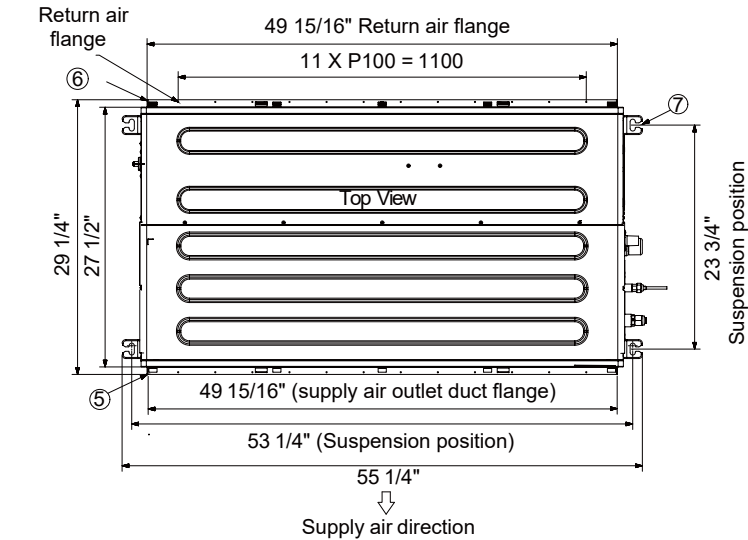
⑥	External Static Pressure (inWC)	Option Code
	$0.70 < P \leq 0.80$	01B0EC-1E597B-276470-376045



Samsung Low Ambient Heating "Max Heat" Duct S, Single Zone, Split System  
AC036MNHDC/AA Dimensional Drawing

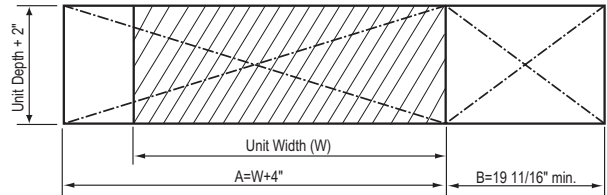


30-Ø 0.13" hole



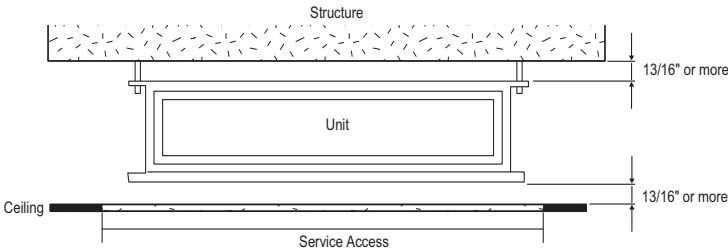
NO	Name	Description
1	Liquid pipe connection	Ø3/8"
2	Gas pipe connection	Ø5/8"
3	Drain pipe connection	1 1/16" ID for 3/4" PVC
4	Power supply connection	-
5	Air discharge flange	-
6	Air filter	-
7	Suspension point	5/16" ~ 3/8"

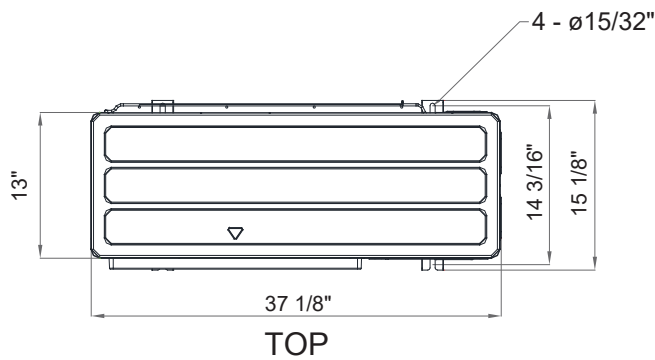
Inspection Opening Requirements



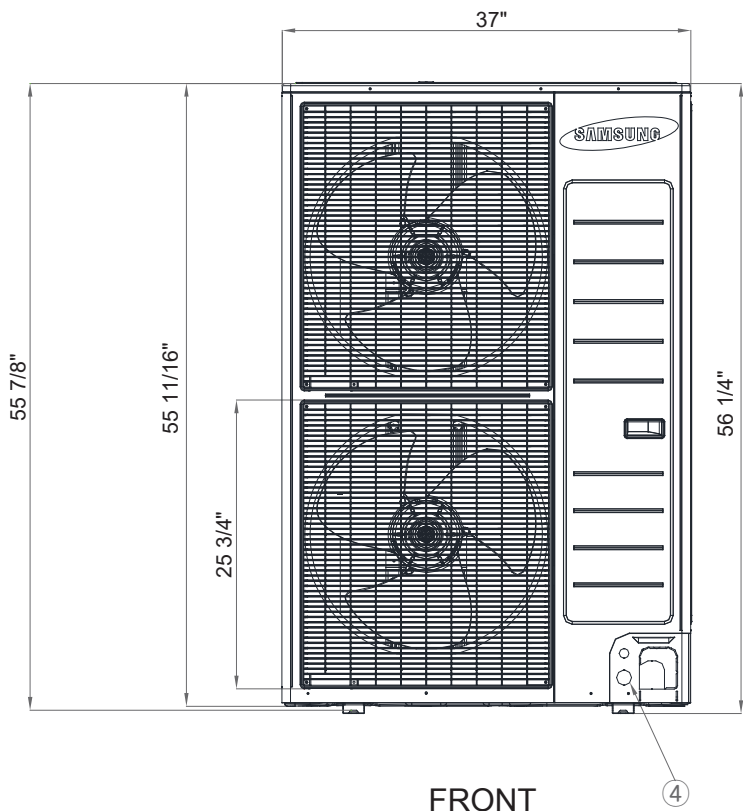
In applications where there is not a tile ceiling, an inspection hole is required.  
If height between ceiling and structure is 3.25' or more, inspection opening "B" is recommended. If height between ceiling and structure is less than 3.25', inspection opening "A" and "B" is recommended.(verify state and local codes).

Unit Clearance From Structure

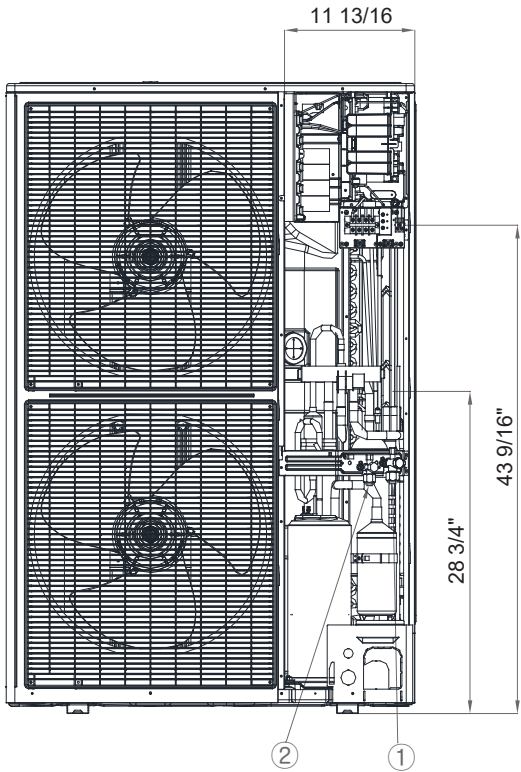




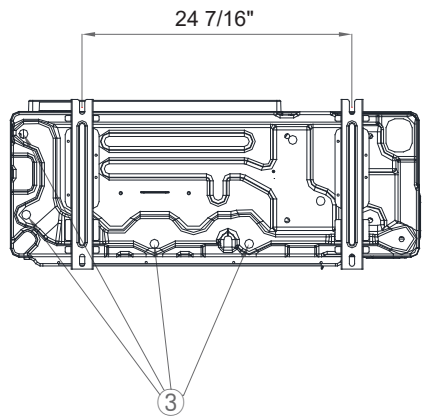
TOP



FRONT



FRONT WITHOUT SERVICE COVER



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