

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

Location _____
 Engineer _____
 Reference _____ Approval _____ Construction _____
 Schedule # _____

Specifications

Model	Indoor Unit Model Number (US Code)	AC036MNHDC/AA (CNH36HDM)	
	Outdoor Unit Model Number (US Code)	AC036JXADCH/AA (CXH36ADJ)	
Performance ¹	Nominal Capacity	Cooling / Heating (Btu/h)	36,000 / 40,000
	Capacity Range	Cooling (Btu/h)	14,000 - 41,000
		Heating (Btu/h)	11,500 - 48,000
	SEER / EER		20.0 / 11.5
	COP (nominal heating)		3.54
	HSPF		10.2
AHRI Certification Number		10146788	
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current	Cooling (A)	4.9 / 13.7 / 17.2
		Heating (A)	3.7 / 14.0 / 23.0
	Max. Breaker	Amps	40
Min. Circuit Ampacity (A)		26.5	
Dimensions	W X H X D	Indoor Unit	51 3/16 X 11 13/16 x 27 9/16
		Outdoor Unit	37 X 48 X 13
	Weight (lbs.)	Indoor Unit	99.6
		Outdoor Unit	194
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)	49 / 51
Operating Temperatures °F(°C)	Outdoor	Cooling	23 ~ 115°F(-5 ~ 46°C)
		Heating	0 ~ 115°F(-18 ~ 46°C) w/ baffle
	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)
		Heating	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.	98.77
	Charged for		25 ft
Additional Refrigerant			0.355 oz/ft over 25 ft
Compressor	Type		Inverter Driven, Twin BLDC, Rotary
	RLA	Amps	17.0
Evaporator Fan	Type		BLDC (1) With Sirocco Fan (3)
	Air Volume	CFM (L/M/H)	848 / 989 / 1,165 (at standard ESP)
		Total CFM Range ²	848 - 1,510
	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 / 3,040 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	



- 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 and outdoor units 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).
- 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).

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 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.

² Refer to installation manual for full fan curve details

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIDirectory.org for current reference numbers.

Samsung Duct S, Single Zone Duct, Split System AC036MNHDC/AA Accessories

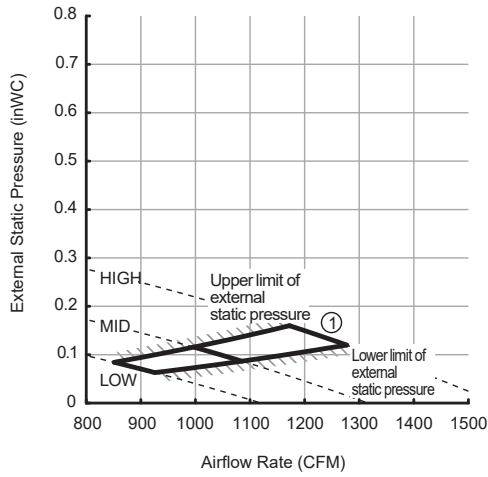
Optional Accessories

Wired Controller	Simplified Touch Controller	MWR-SH11UN
	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-DS3
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-1M2
	Back	WBB-2M-B
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

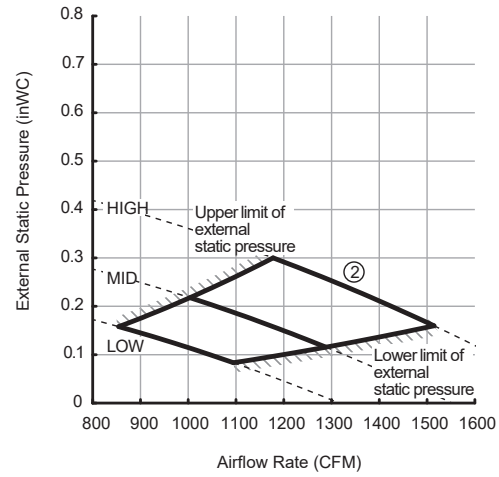
Samsung Duct S, Single Zone Duct, Split System
AC036MNHDC/AA Fan Characteristics (P-Q Curve)

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

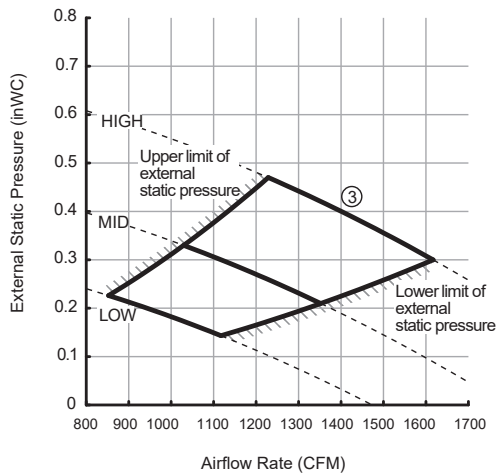
①	External Static Pressure (inWC)	Option Code
	$0.12 \leq P \leq 0.16$	01B0EC-1E5403-276470-376045



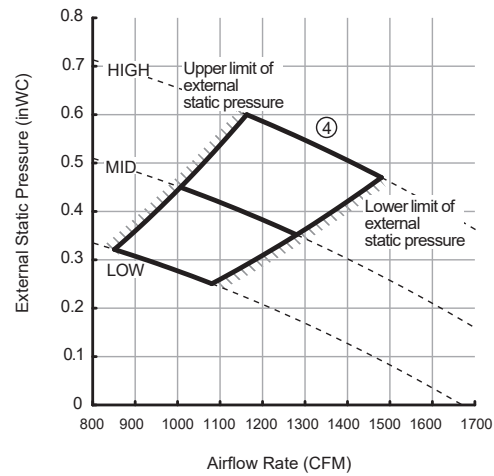
②	External Static Pressure (inWC)	Option Code
	$0.16 < P \leq 0.30$	01B0EC-1E546A-276470-376045



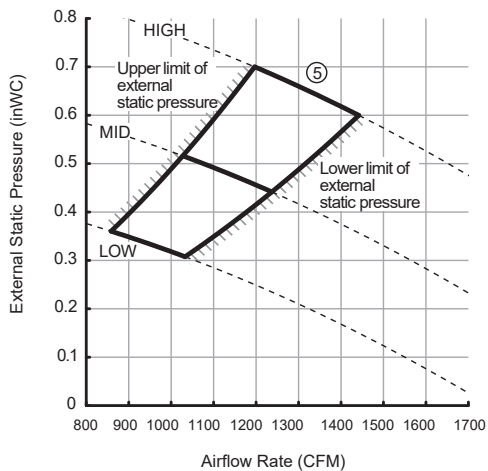
③	External Static Pressure (inWC)	Option Code
	$0.30 < P \leq 0.47$	01B0EC-1E55D1-276470-376045



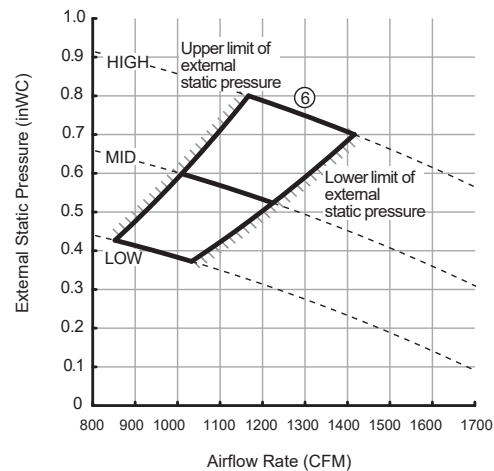
④	External Static Pressure (inWC)	Option Code
	$0.47 < P \leq 0.60$	01B0EC-1E5926-276470-376045



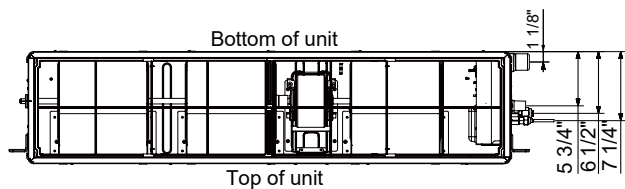
⑤	External Static Pressure (inWC)	Option Code
	$0.60 < P \leq 0.70$	01B0EC-1E5959-276470-376045



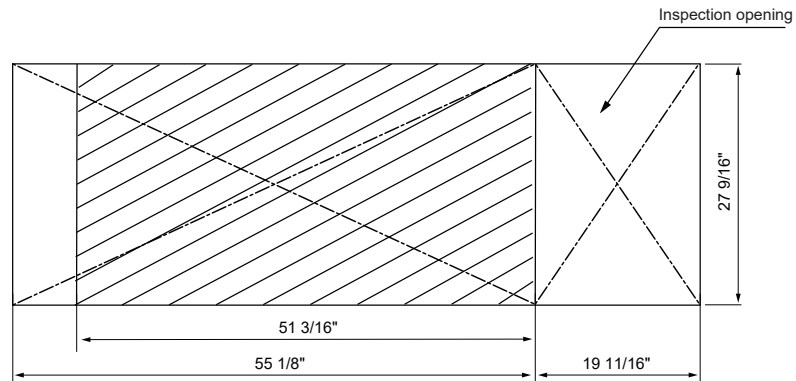
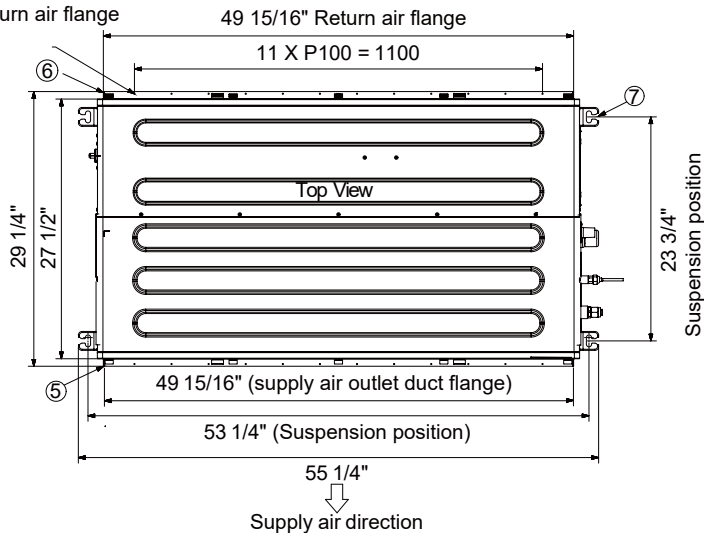
⑥	External Static Pressure (inWC)	Option Code
	$0.70 < P \leq 0.80$	01B0EC-1E597B-276470-376045



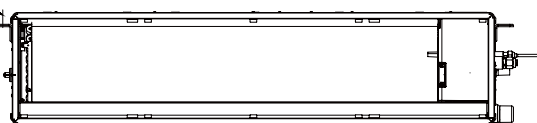
Samsung Duct S, Single Zone Duct, Split System
AC036MNHDC/AA Dimensional Drawing



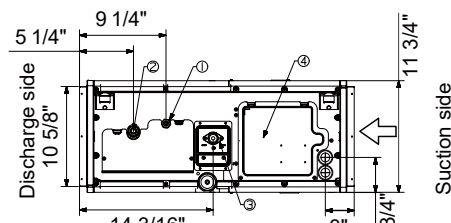
30-Ø 0.13" hole
Return air flange



Suspension bolt
(4XM8~M10)



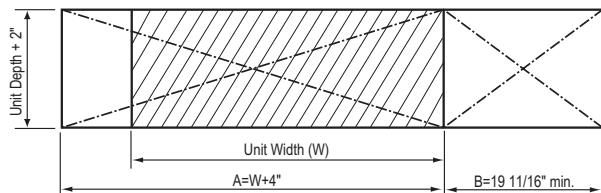
[Front View]



[Right View]

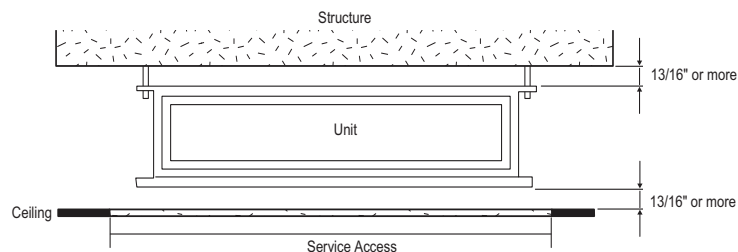
NO	Name	Description
1	Liquid pipe connection	Ø3/8"
2	Gas pipe connection	Ø5/8"
3	Drain pipe connection	1 1/16" ID for 3/4" PVC
4	Power supply connection	-
5	Air discharge flange	-
6	Air filter	-
7	Suspension point	5/16" ~ 3/8"

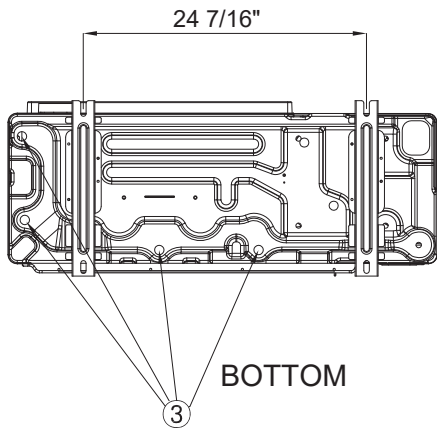
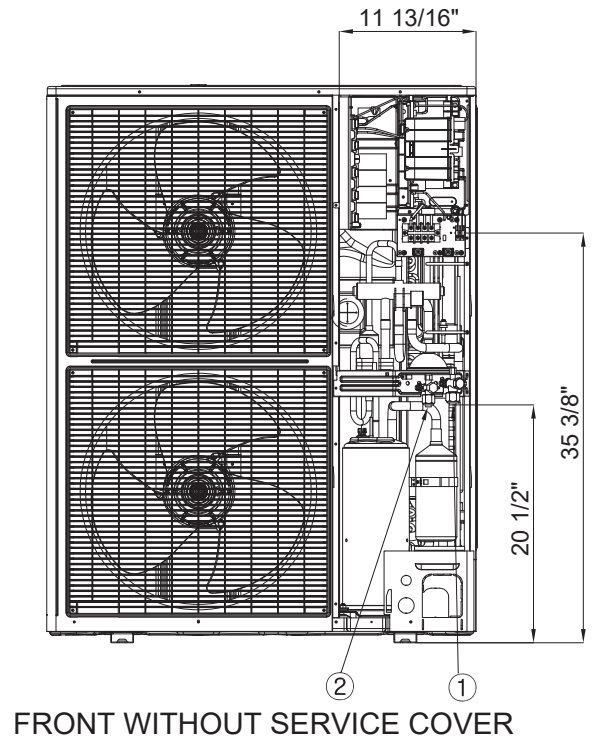
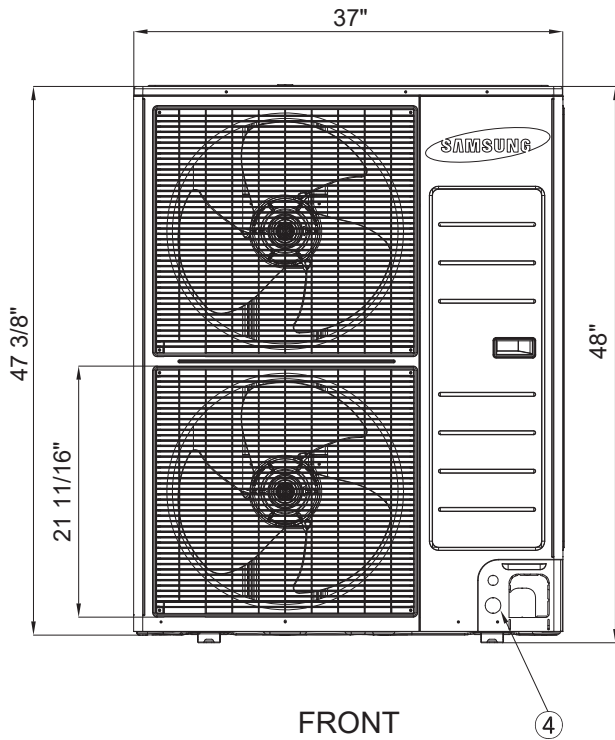
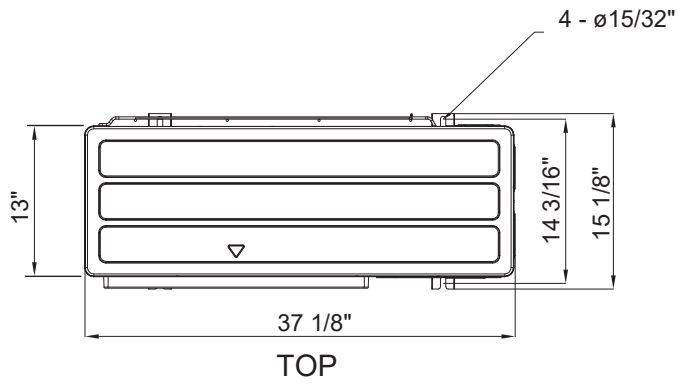
Inspection Opening Requirements



In applications where there is not a tile ceiling, an inspection hole is required. If height between ceiling and structure is 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





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