

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Approval

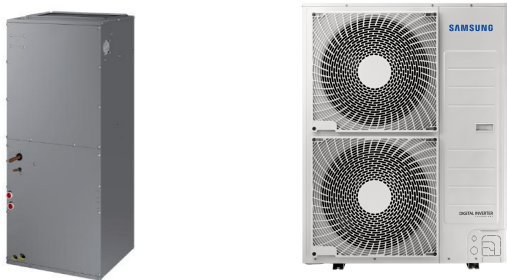
Construction

Schedule #

Specifications			
Model	Indoor Unit Model Number (US Code)		AC036KNZDCH/AA (CNH36ZDK)
	Outdoor Unit Model Number (US Code)		AC036BXSCCH/AA (CXH36SCB)
Performance ¹	Nominal Capacity	Cooling / Heating (Btu/h)	36,000 / 40,000
	Capacity Range	Cooling (Btu/h)	13,500 – 42,000
		Heating (Btu/h)	10,500 – 45,000
	SEER / EER		20.0 / 12.3
	COP (nominal heating)		3.44
	HSPF		10.4
AHRI Certification Number		207698069	
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)	4.9 / 13.1 / 14.5
		Heating (A)	3.9 / 12.5 / 18.0
	Max. Breaker	Amps	40
Min. Circuit Ampacity (A)	31.3		
Dimensions	W X H X D (in.)	Indoor Unit	21 X 48 X 21
		Outdoor Unit	37 X 55 15/16 X 13
	Duct Connections (W X H)	Supply (in.)	12 1/2 X 18 3/4
		Return (ID, in.)	17 1/2 X 21
	Weight (lbs.)	Indoor Unit	123.5
	Outdoor Unit	220.5	
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	36 / 39 / 42
	Outdoor Unit dB(A)	Cooling / Heating (high)	49 / 51
Operating Temperatures	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
		Heating	-4 ~ 122°F (-20 ~ 50°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.)		98.4
	Condensate Connection (with included adapter)		FPT 3/4" PVC
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	lbs.	8.82
	Charged for		24.6 ft
	Additional Refrigerant		0.11 oz/ft over 24.6 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	21.0
Evaporator Fan	Type		Double-inlet, forward curve, centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	883 / 1,042 / 1,0165 (at standard ESP)
	Output (W) / FLA (A)		410 W / 1.66 A
	Static Pressure	Standard ("WC)	0.24
		Min. / Max. ("WC)	0.01 - 0.98
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
	FLA / Watts / CFM (max.)		1.25A X 2 / 125 W X 2 / 4,414 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.



- General Information
- The system shall provide 100% heating capacity at -4°F (-20°C) and high heating performance at -13°F (-25°C)
 - Base pan heater equipped as standard
 - The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
 - High-voltage terminal block temperature sensor to disable unit in the event of power connection overheating
 - Auto-restart after power loss
 - Soft-start compressor minimizing current inrush
 - All heat exchangers shall be mechanically bonded aluminum fin to copper tube
 - The condensing unit heat exchanger salt spray test method: ASTM-B117-18 - the heat exchanger showed no unusual rust or corrosion development to 2,280 hours.

- Option settings
- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
 - Night-time Quiet Mode: reduction of operational sound during (*automatic or manual activation*).
 - System can be set up as heating/cooling, cooling only, or heating only via outdoor unit option setting.
 - Maximum Current Control configurable from 50% - 100% via outdoor unit, wired controller, or central controller

- Indoor Fan
- Indoor fan is a double Inlet, forward curve, centrifugal type
 - Three fan speed settings and auto setting
 - Field configurable for downflow operation with optional conversion kit

- Construction
- Outdoor unit shall be galvanized steel with a baked-on powder coated finish for durability
 - Indoor Unit: Insulated, galvanized steel.

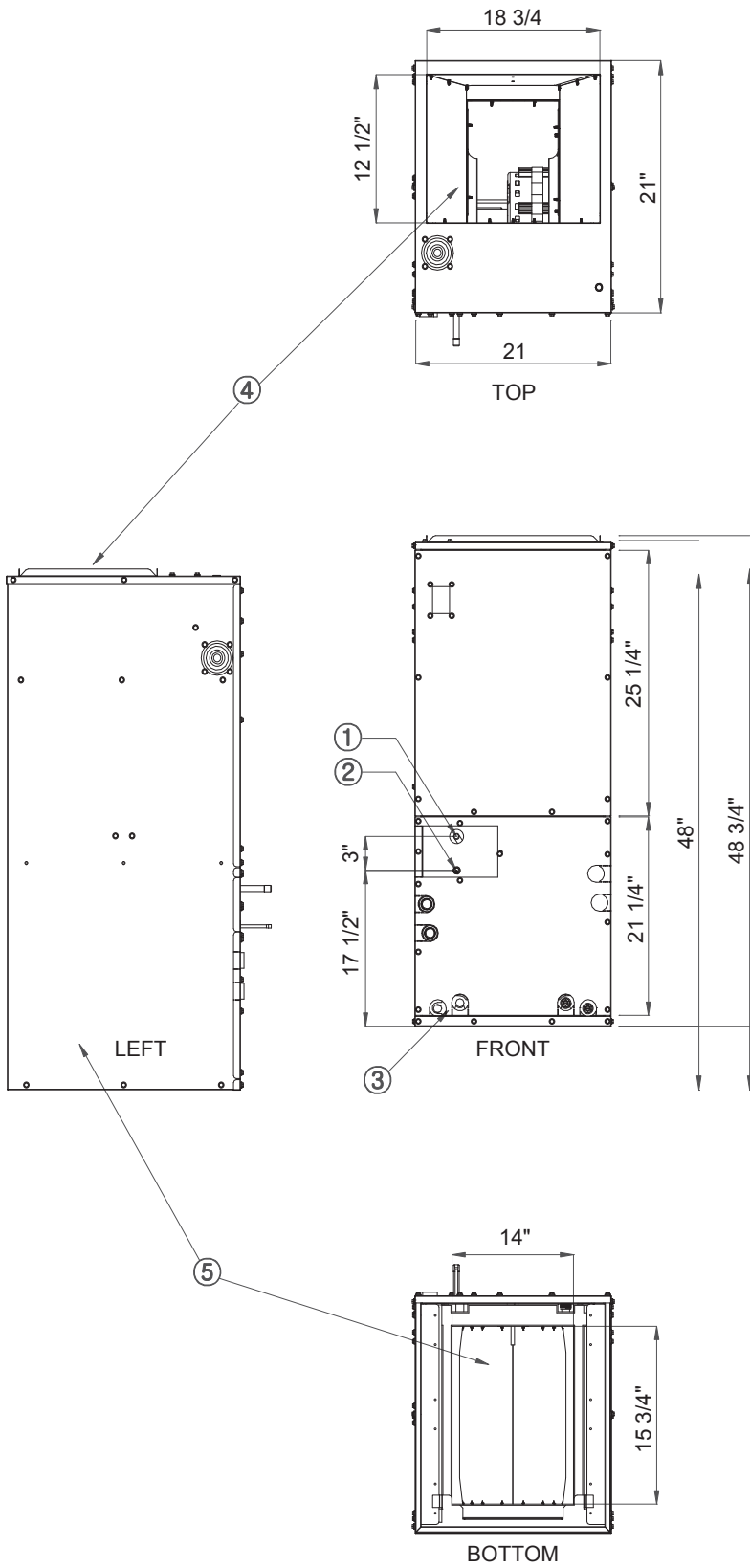
- Controls
- Control wiring shall be 2 X 16 AWG
 - No additional interface modules/adapters are required when connecting to Samsung central control options.
 - The unit shall be operated via a wireless or wired remote control with DDC type signal
 - Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options.
 - Wired or wireless controllers must be purchased separately

- Refrigerant System
- The compressor shall be hermetically sealed, inverter-controlled BLDC rotary type.
 - Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

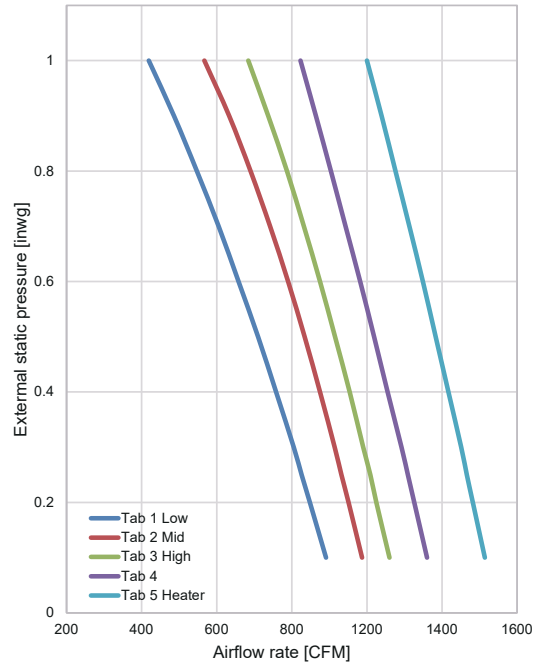
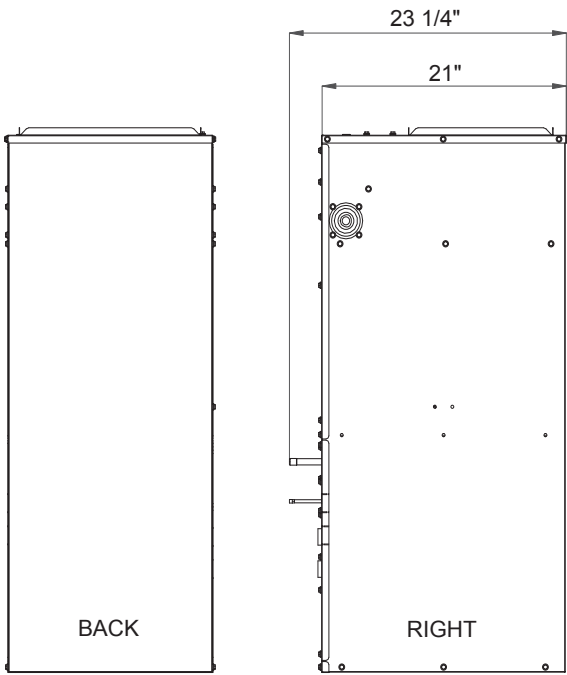
- Warranty
- 10 Years compressor, 10 years parts, 1 year limited labor when registered

Optional Accessories

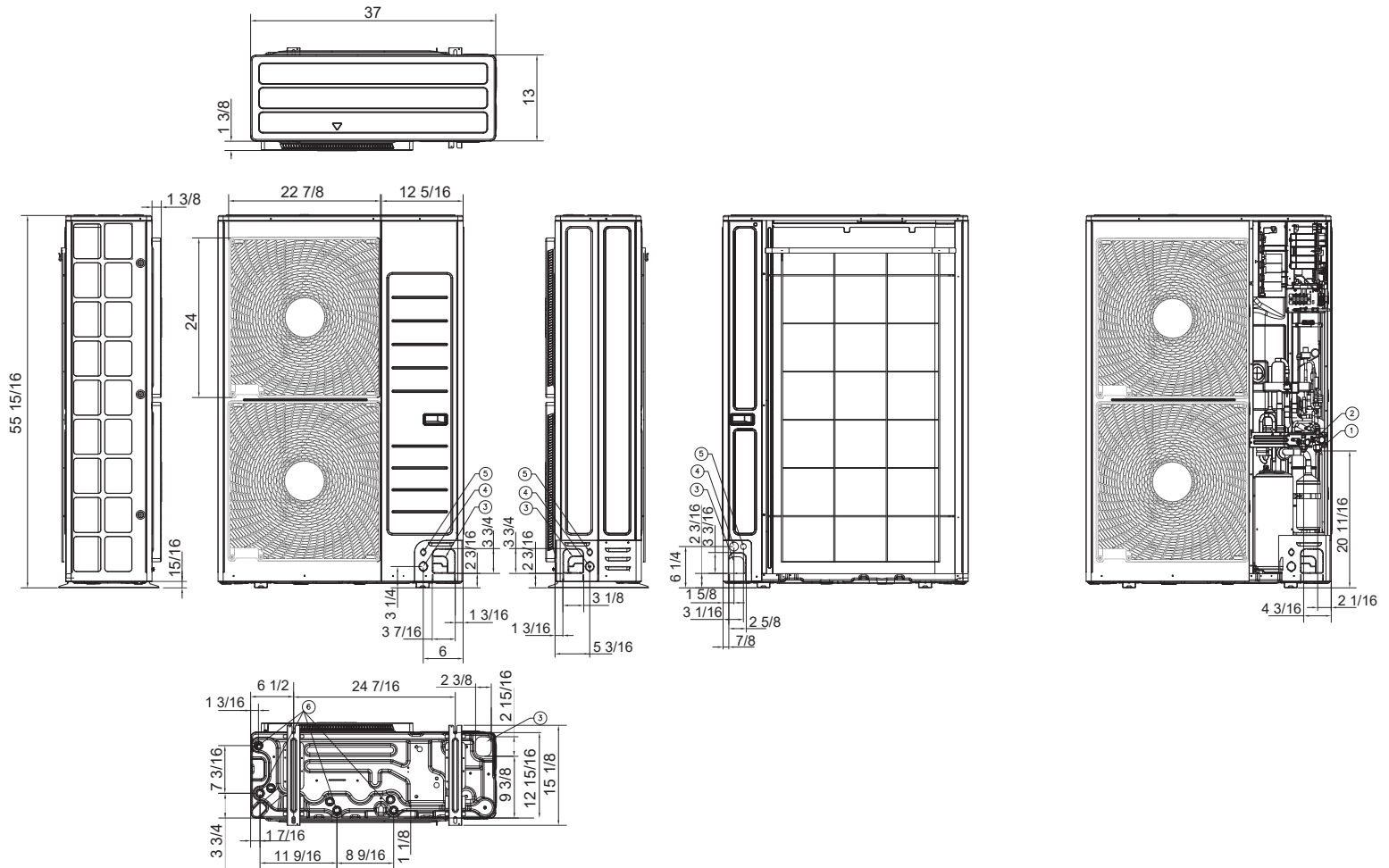
Wired Controller	Advanced	☐	MWR-WG00UN
	Touchscreen	☐	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		☐	MIM-A60UN
Wireless Signal Control	Wireless Signal Receiver	☐	MRK-A10N
	Wireless Controller	☐	AR-EH04U
Wi-Fi Adapter		☐	MIM-H04UN
External Temperature Sensor		☐	MRW-TA
Filter Base (includes 1" MERV 8 filter)		☐	VFB-2
External Contact Control		☐	MIM-B14
Wall Bracket (for outdoor unit)		☐	CKN-250
Wind Baffles	Front	☐	WBF-6M
	Back	☐	WBB-4M
Hail Guard		☐	TBD
Line Sets - insulated and flared, interconnect cables included		☐	25' - ILS-2510
		☐	50' - ILS-5010
Supplemental Electric Heat Kit		☐	VHK-205A (5 kW)
		☐	VHK-210A (10 kW)
Downflow Conversion Kit		☐	VDK-2



No.	Description
①	Gas Pipe
②	Liquid Pipe
③	Drain Connection
④	Air Outlet
⑤	Air Inlet



Units: Inches



No.	Name	Description
①	Refrigerant Liquid Pipe	Ø 3/8"
②	Refrigerant Gas Pipe	Ø 5/8"
③	Pipe Knockout Hole	-
④	Power Wiring Conduits	-
⑤	Comm. Wiring Conduits	-
⑥	Drain Hole	-