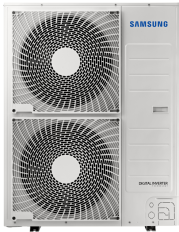


Job Name
Purchaser
Submitted to
Unit Designation

Location
Engineer
Reference
Schedule #

Approval
Construction

Specifications			
Model	Indoor Unit Model Number (US Code)		AC042KNZDCH/AA (CNH42ZDK)
	Outdoor Unit Model Number (US Code)		AC042BXADCH/AA (CXH42ADB)
Performance ¹	Nominal Capacity	Cooling / Heating (Btu/h)	42,000 / 47,000
	Capacity Range	Cooling (Btu/h)	12,000 – 46,000
		Heating (Btu/h)	10,500 – 60,000
	SEER / EER		19.3 / 10.15
	COP (nominal heating)		3.00
	HSPF		9.6
AHRI Certification Number		207598071	
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)	5.1 / 18.6 / 24.8
		Heating (A)	4.4 / 20.6 / 32.0
	Max. Breaker	Amps	40
Min. Circuit Ampacity (A)	32.2		
Dimensions	W X H X D (in.)	Indoor Unit	24 1/2 X 58 3/4 X 21 3/4
		Outdoor Unit	37 X 47 11/16 X 13
	Duct Connections (W X H)	Supply (in.)	14 1/4 X 22
		Return (ID, in.)	24 1/2 X 21 3/4
	Weight (lbs.)	Indoor Unit	163.14
	Outdoor Unit	191.8	
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	38 / 41 / 43
	Outdoor Unit dB(A)	Cooling / Heating (high)	56 / 58
Operating Temperatures	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
		Heating	0 ~ 122°F (-18 ~ 50°C) w/ baffle
	Indoor	Cooling	-4 ~ 75°F (-20 ~ 24°C)
		Heating	61 ~ 90°F (16 ~ 32°C)
			T ≤ 80°F (27°C)
Pipe Connections	Indoor & Outdoor	High side (braze / flare)	3/8"
		Low side (braze / 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.	6.39
	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	20.9
Evaporator Fan	Type		Double-inlet, forward curve, centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	1,059 / 1,165 / 1,271(at standard ESP)
	Output (W) / FLA (A)		410 W / 1.66 A
	Static Pressure	Standard ("WC)	0.28
		Min. / Max. ("WC)	0.01 - 0.98
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
	FLA / Watts / CFM (max.)		1.25 A / 125 W / 3,531 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		



- General Information
- 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: ISO-9227- the heat exchanger showed no unusual rust or corrosion development to 3,000 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

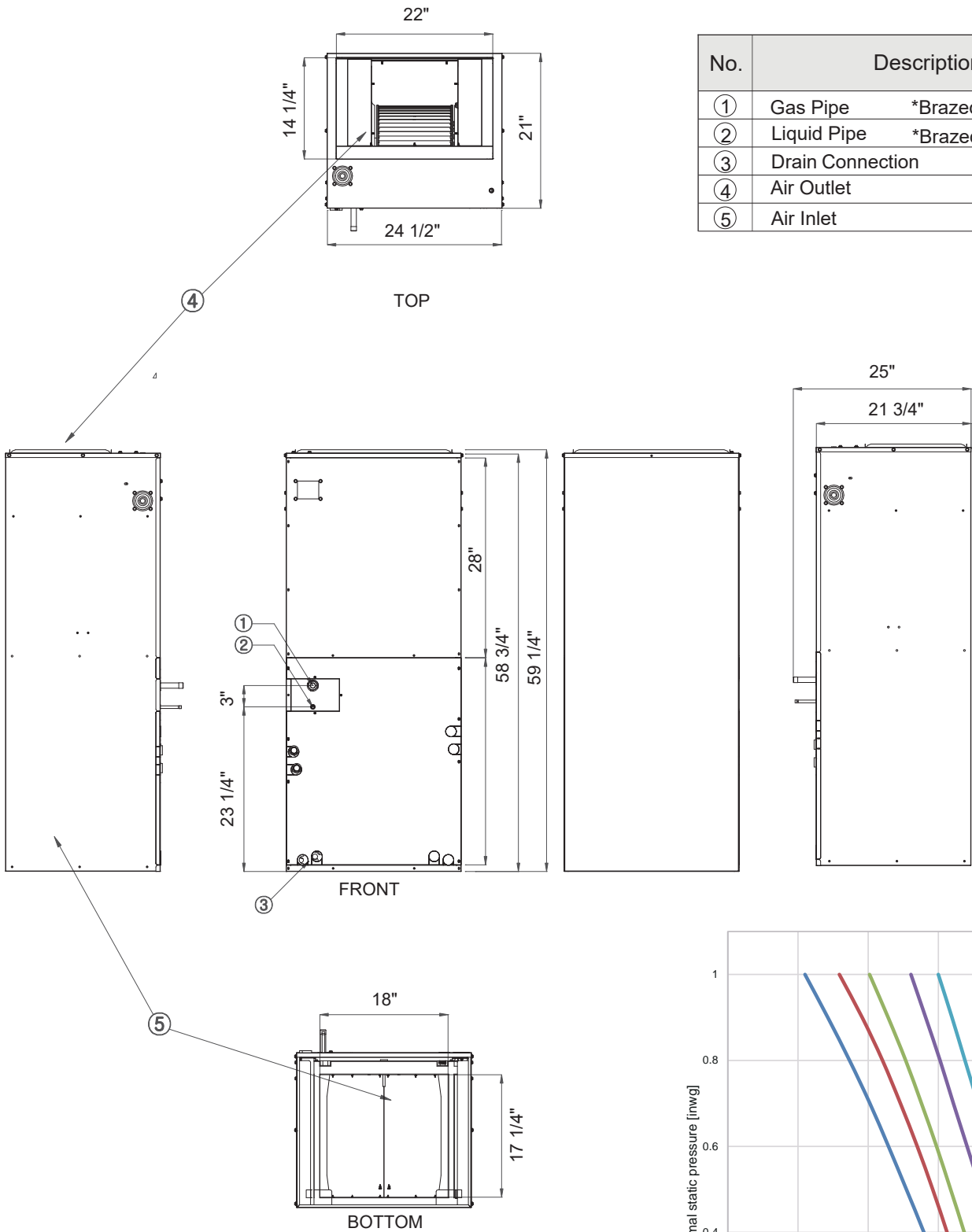
- Warranty
- 10 Years compressor, 10 years parts, 1 year limited labor when registered

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.

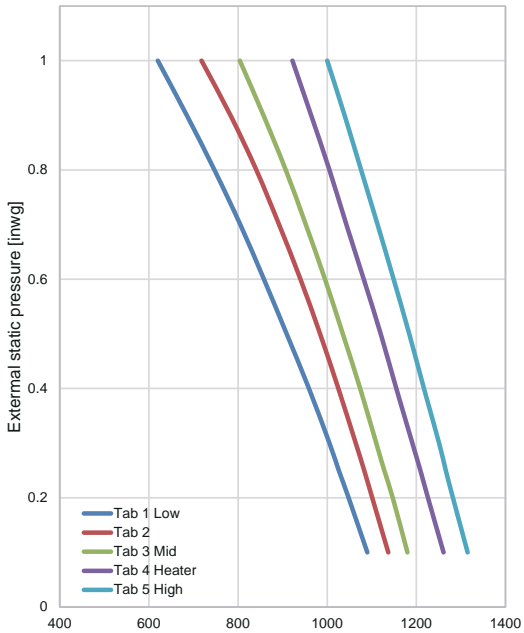
Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

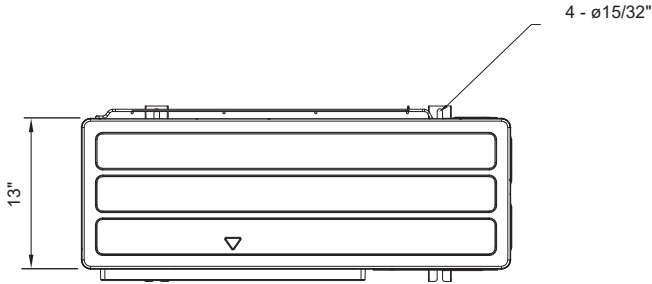
Optional Accessories

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-H05UN
External Temperature Sensor		MRW-TA
Filter Base (includes 1" MERV 8 filter)		VFB-3
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-1M2
	Back	WBB-2M-B
Hail Guard		TBD
Line Sets - insulated and flared, interconnect cables included	25' - ILS-2510	
	50' - ILS-5010	
Supplemental Electric Heat Kit	VHK-305A (5 kW)	
	VHK-310A (10 kW)	
Downflow Conversion Kit		VDK-3

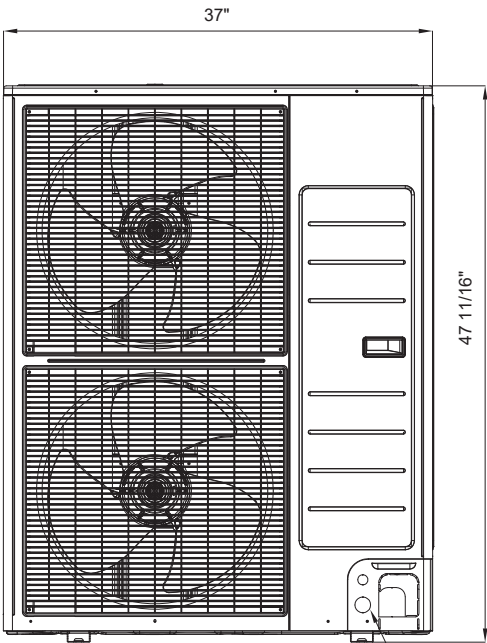


No.	Description	
①	Gas Pipe	*Brazed Connection
②	Liquid Pipe	*Brazed Connection
③	Drain Connection	
④	Air Outlet	
⑤	Air Inlet	

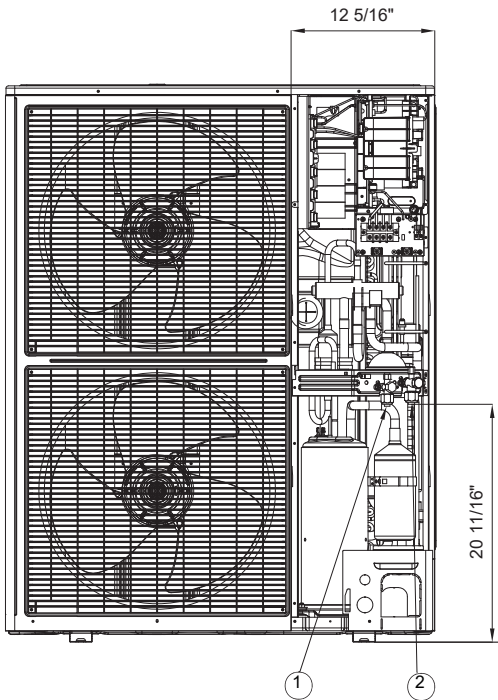




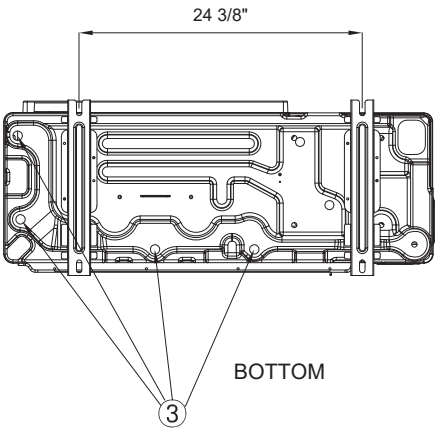
TOP



FRONT



FRONT WITHOUT SERVICE COVER



BOTTOM

No.	Name	Description
1	Refrigerant liquid pipe	3/8
2	Refrigerant gas pipe	5/8
3	Drain hole	Connect with provided drain plug
4	Power and communication conduit openings	--