

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

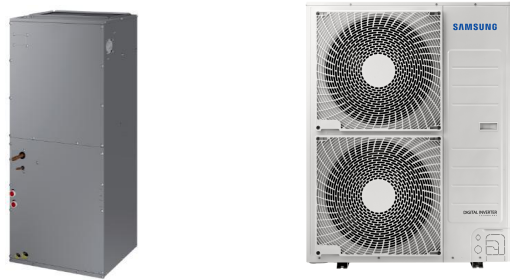
Reference ☐ Approval ☐ Construction ☐

Schedule #

Specifications			
Model	Indoor Unit Model Number (US Code)		AC030KNZDCH/AA (CNH30ZDK)
	Outdoor Unit Model Number (US Code)		AC030BXSCCH/AA (CXH30SCB)
Performance ¹	Nominal Capacity	Cooling / Heating (Btu/h)	30,000 / 32,000
	Capacity Range	Cooling (Btu/h)	13,000 – 36,000
		Heating (Btu/h)	10,000 – 40,000
	SEER / EER		20.3 / 13.1
	COP (nominal heating)		3.44
	HSPF		10.6
AHRI Certification Number		207698068	
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)	4.6 / 10.5 / 14.5
		Heating (A)	3.9 / 12.5 / 20.6
	Max. Breaker	Amps	40
Min. Circuit Ampacity (A)		32.1	
Dimensions	W X H X D (in.)	Indoor Unit	21 X 48 3/4 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.)	21 X 21
	Weight (lbs.)	Indoor Unit	123.46
Outdoor Unit		220.5	
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	35 / 38 / 41
	Outdoor Unit dB(A)	Cooling / Heating (high)	49 / 50
Operating Temperatures	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
		Heating	-4 ~ 122°F (-20 ~ 50°C) w/baffle
		Heating	-13 ~ 75°F (-25 ~ 24°C)
	Indoor	Cooling	61 ~ 90°F (16 ~ 32°C)
		Heating	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)		
Refrigerant	Type		R410A
	Control Method		
	Factory Charge	lbs.	8.82
	Charged for		24.6 ft
	Additional Refrigerant		
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)	848 / 918 / 1,006 (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		
	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: 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

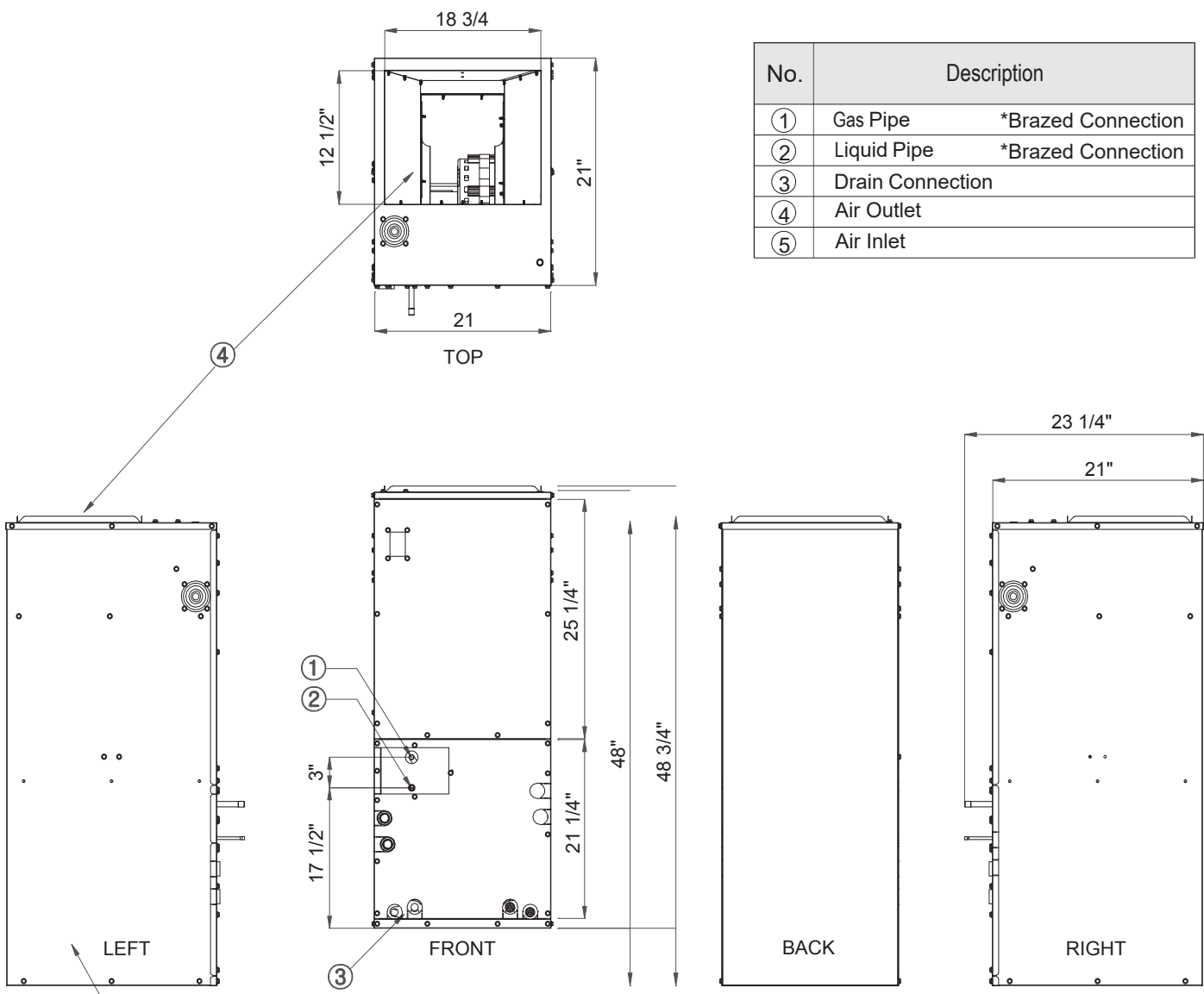
- The compressor shall be hermetically sealed, inverter-controlled BLDC rotary type.
- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Warranty

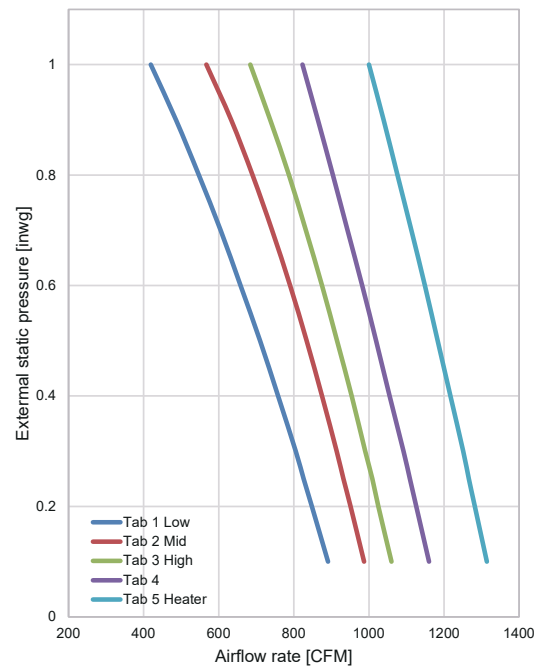
10 Years compressor, 10 years parts, 1 year limited labor when registered

Optional Accessories

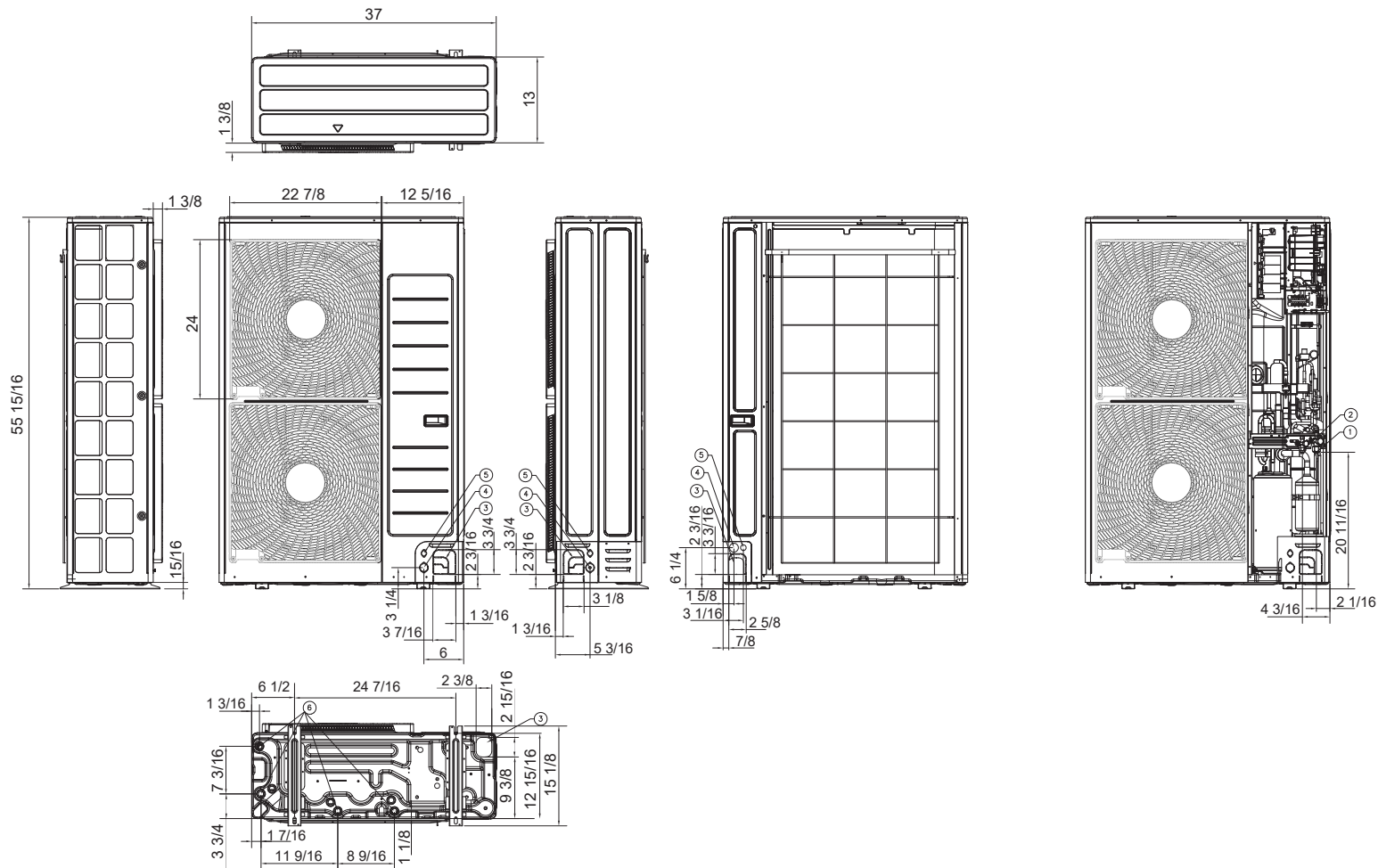
Wired Controller	Advanced	☐	MWR-WG00UN
	Touchscreen	☐	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		☐	MIM-A60UN
Wireless Signal Control	Wireless Signal Receiver	☐	MRK-A10N
	Wireless Controller	☐	AR-EH04U
Wi-Fi Adapter		☐	MIM-H05UN
External Temperature Sensor		☐	MRW-TA
Filter Base (includes 1" MERV 8 filter)		☐	VFB-2
External Contact Control		☐	MIM-B14
Wall Bracket (for outdoor unit)		☐	CKN-250
Wind Baffles	Front	☐	WBF-6M
	Back	☐	WBB-4M
Hail Guard Kit (includes back and side guards)		☐	HGK-5
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	*Brazen Connection
②	Liquid Pipe	*Brazen Connection
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	-