

Job Name

Purchaser

Submitted to

Unit Designation

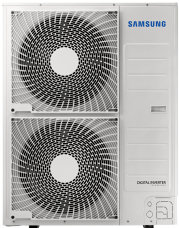
Location

Engineer

ReferenceApprovalConstruction

Schedule #

Specifications			
Model	Indoor Unit Model Number (US Code)		AC030BNHDCH/AA (CNH30HDB)
	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)	14,00 - 36,000
		Heating (Btu/h)	10,500 - 40,000
	SEER / EER		18.3 / 12.0
	COP (nominal heating)		3.3
	HSPF		11.1
	AHRI Certification Number		207698070
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)	4.5 / 11.4 / 14.5
		Heating (A)	3.6 / 13.0 / 20.6
	Max. Breaker	Amps	40
Dimensions	W X H X D (in.)	Indoor Unit	47 1/4 X 9 13/16 X 27 9/16
		Outdoor Unit	37 X 55 7/8 X 13
	Duct Connections (W X H)	Supply (in.)	45 5/16 X 8 11/16
		Return (ID, in.)	45 5/16 X 8 11/16
	Weight (lbs.)	Indoor Unit	76.1
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	33 / 37 / 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
	Indoor	Cooling	-13 ~ 75°F (-25 ~ 24°C)
		Heating	61 ~ 90°F (16 ~ 32°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98.4
Refrigerant	Indoor & Outdoor		Condensate Connection (with included adapter)
	Type		1 1/16" ID for 3/4" PVC
	Control Method		R410A
	Factory Charge		Electronic Expansion Valve
	Charged for		8.82
Compressor	Additional Refrigerant		24.6 ft
	Manufacturer		0.11 oz/ft over 24.6 ft
	Type		Samsung
Evaporator Fan	Type		Inverter Driven, Twin BLDC Rotary
	Air Volume		21.0
	Output (W) / FLA (A)		BLDC (1) With Sirocco Fan (3)
	Static Pressure		600 / 759 / 918 (at standard ESP)
Condenser Fan	Motor		153 W / 2.10 A
	FLA / Watts / CFM (max.)		0.58
Safety	Certifications		Min. / Max. ("WC)
	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing		0.1 - 0.79



- 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
 - Integral condensate pump with maximum 29" lift from bottom of the unit with check valve and float switch that disables indoor should condensate overflow be detected.
 - 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).
 - Emergency Temperature Output (ETO) function: when indoor unit is in error status or when room temperature exceeds configurable temperature level, the system outputs a signal to an external source, e.g., backup system, building management system, alert device (ex: status light, warning lamp, buzzer).
 - 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 sirocco type
 - Three fan speed settings and auto setting
 - Smart pressure control feature that adjusts fan speed based on ESP delivering consistent heating and cooling power
 - The indoor unit shall have a smart-tuning function that can provide optimized comfort by allowing the occupant to offset the fan CFM curve with a wired remote controller (MWR-WG00UN) to increase or decrease airflow.
 - The indoor unit shall have automatic air volume scanning for simple setup and optimized comfort settings for the occupant.

- 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

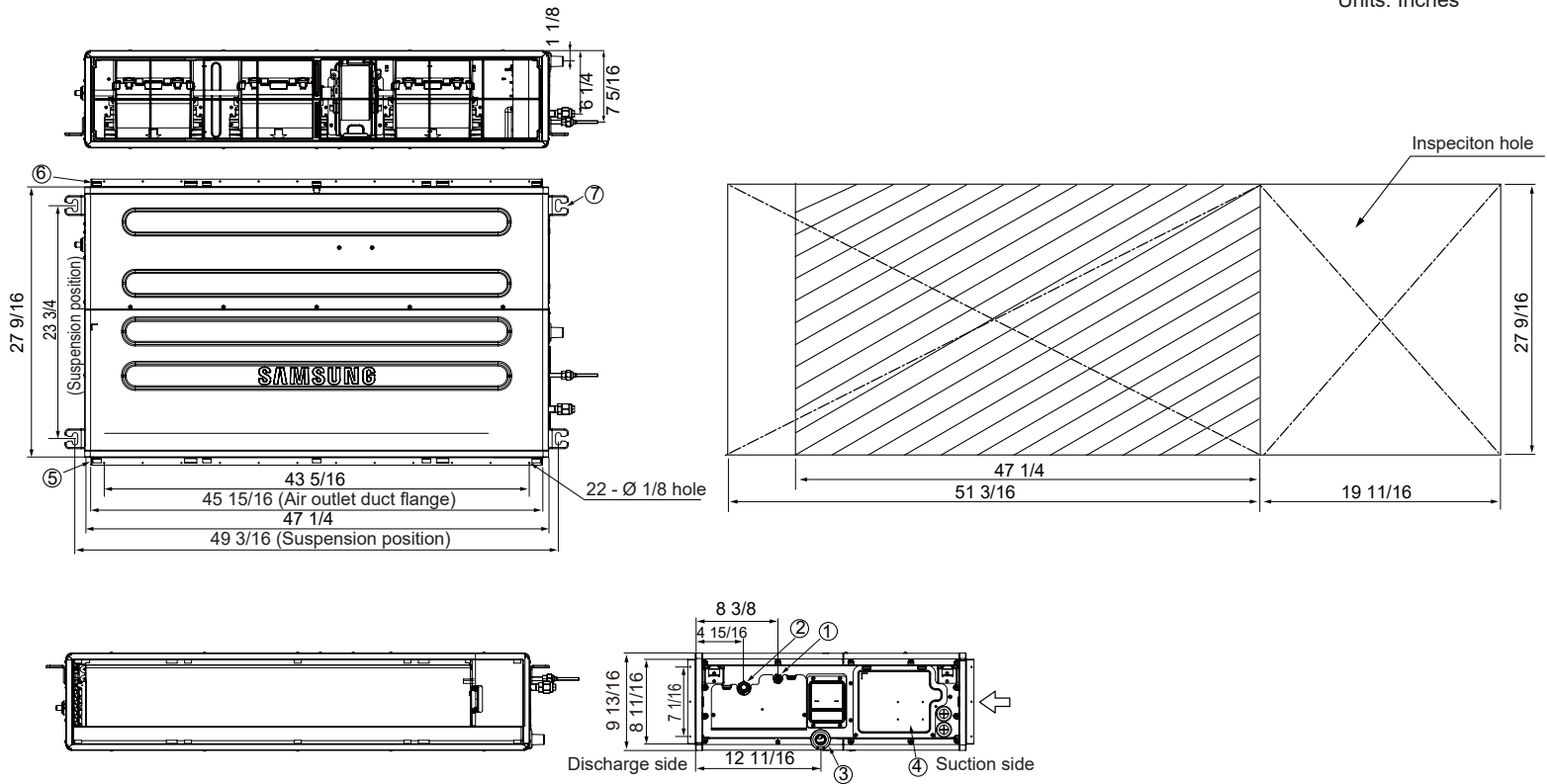
¹ Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240.

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

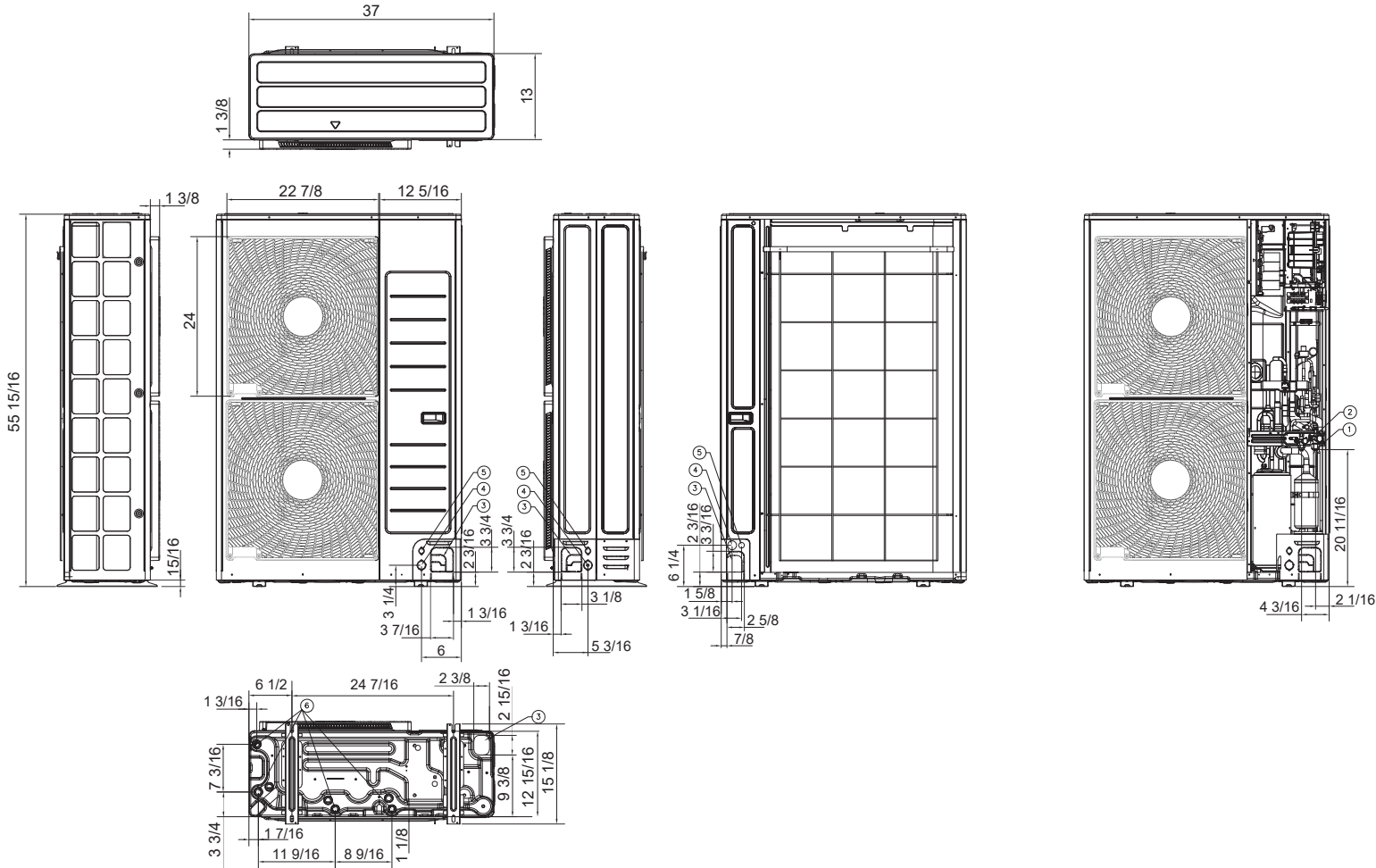
Wired Controller	Advanced	MWR-WG00UN
	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal Control	Wireless Signal Receiver	MRK-A10N
	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
Filter Box		FB-DS2
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

Units: Inches



No.	Name	Description
①	Refrigerant Liquid Pipe	Ø 3/8"
②	Refrigerant Gas Pipe	Ø 5/8"
③	Condensate Drain	3/4" (OD 1.05")
④	Power & Comm. Wiring Conduits	-
⑤	Supply Air Flange	-
⑥	Return Air Flange	-
⑦	Hook	-

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	-