

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

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

Specifications			
Model	Indoor Unit Model Number (US Code)		AC009BNHDCH/AA (CNH09HDB)
	Outdoor Unit Model Number (US Code)		AC009BXADCH/AA (CXH09ADB)
Performance ¹	Nominal Capacity	Cooling / Heating (Btu/h)	9,000 / 12,000
	Capacity Range	Cooling (Btu/h)	3,300 - 14,000
		Heating (Btu/h)	2,800 - 15,000
	SEER / EER		20.6 / 13.10
	COP (nominal heating)		3.8
	HSPF		10.8
AHRI Certification Number		207465438	
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)	1.4 / 3.3 / 6.4
		Heating (A)	1.1 / 4.4 / 8.9
	Max. Breaker	Amps	15
Min. Circuit Ampacity (A)	10.9		
Dimensions	W X H X D (in.)	Indoor Unit	33 7/16 X 9 13/16 X 27 9/16
	Duct Connections (W X H)	Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4
		Supply (in.)	32 3/16 X 8 11/16
		Return (ID, in.)	32 3/16 X 8 11/16
	Weight (lbs.)	Indoor Unit	58.9
Outdoor Unit	74.3		
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	23 / 27 / 30
	Outdoor Unit dB(A)	Cooling / Heating (high)	46 / 47
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 (flare)	1/4"
		Low side (flare)	3/8"
	Maximum (ft.)		65.6
	Maximum Vertical Separation (ft.)		49.2
Condensate Connection (with included adapter)		1 1/16" ID for 3/4" PVC	
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	lbs.	2.6
	Charged for		24.6 ft
	Additional Refrigerant		0.11 oz/ft over 24.6 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, BLDC Rotary
	RLA	Amps	6.0
Evaporator Fan	Type		BLDC (1) With Sirocco Fan (2)
	Air Volume	CFM (L/M/H)	258 / 314 / 399 (at standard ESP)
	Output (W) / FLA (A)		153 W / 2.10 A
	Static Pressure	Standard ("WC)	0.18
Min. / Max. ("WC)		0.1 - 0.60	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		0.42 A / 40 W / 1,060 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 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 500 hours.
- Base pan heater equipped as standard

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

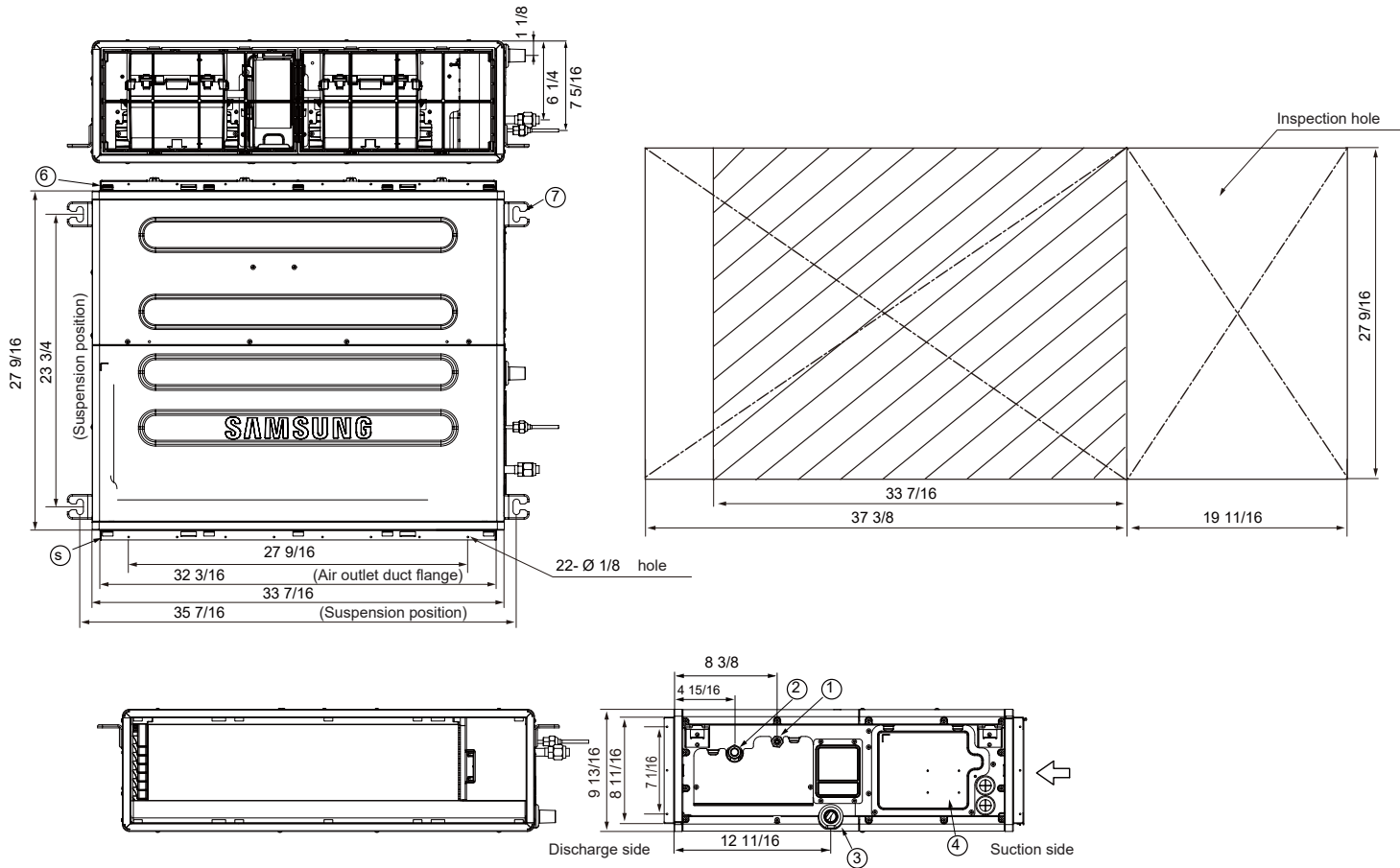
- The compressor shall be hermetically sealed, inverter-controlled BLDC rotary type.
- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Warranty

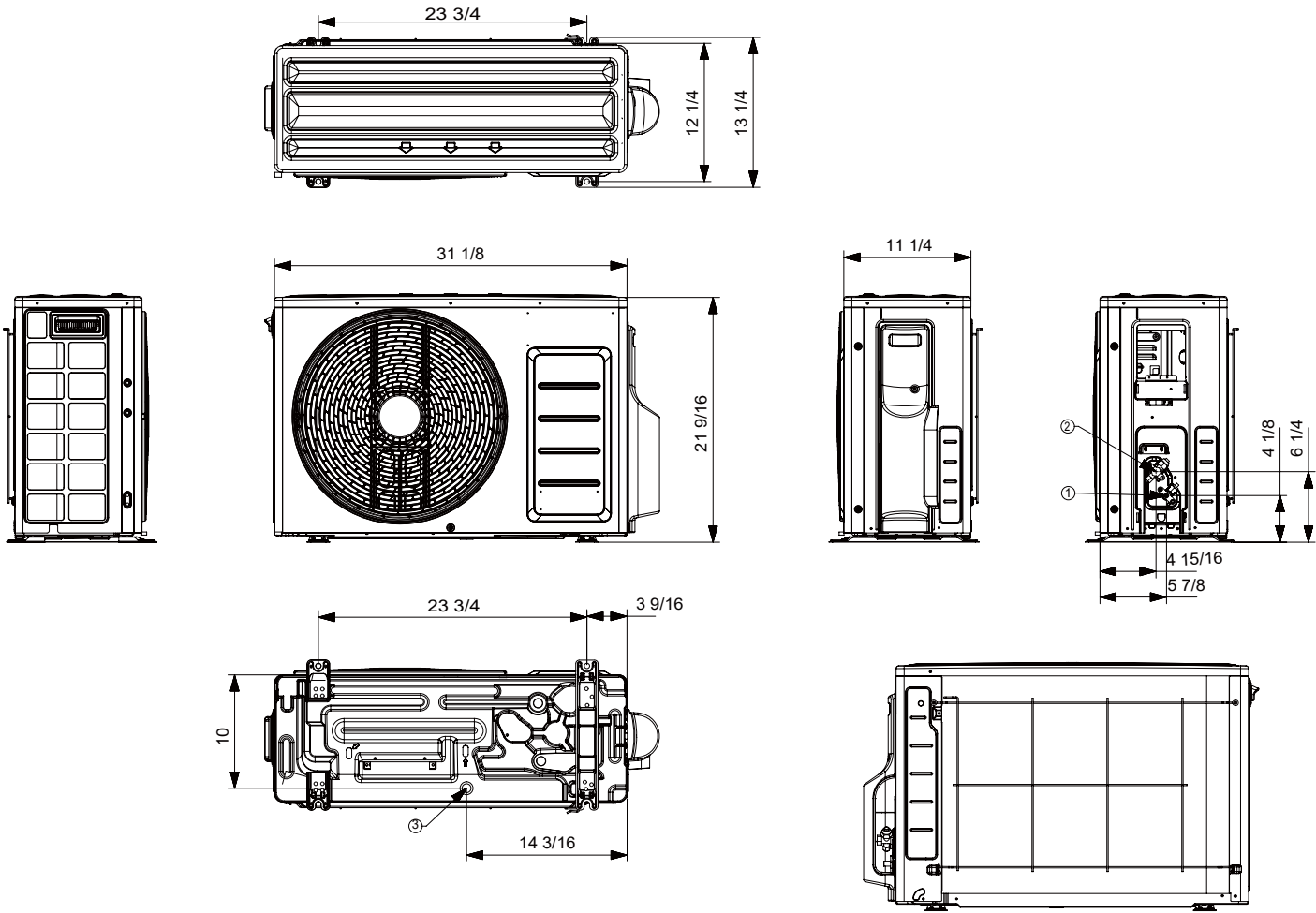
10 Years compressor, 10 years parts, 1 year limited labor when registered

Optional Accessories

Wired Controller	Advanced	MWR-WG00UN
	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H04UN
External Temperature Sensor		MRW-TA
Filter Box		FB-DS1
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-3M
	Back	WBB-5M
Hail Guard		TBD
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2506
		50' - ILS-5006



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



No.	Name	Description
1	Refrigerant liquid pipe	Ø 1/4
2	Refrigerant gas pipe	Ø 3/8
3	Drain hole	Connect with provided drain plug