

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

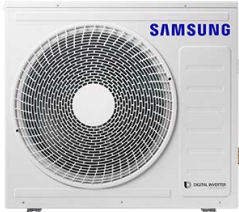
Reference

Approval

Construction

Schedule #

| Specifications | | | |
|------------------------|---|--|---|
| Model | Indoor Unit Model Number (US Code) | | AC018BNZDCH/AA (CNH18ZDB) |
| | Outdoor Unit Model Number (US Code) | | AC018BXADCH/AA (CXH18ADB) |
| Performance | Nominal Capacity | Cooling / Heating (Btu/h) | 18,000 / 20,000 |
| | Capacity Range | Cooling (Btu/h) | 5,000 - 22,000 |
| | | Heating (Btu/h) | 5,000 - 29,000 |
| | AHRI 210-240 2017 ¹ | SEER | 19.2 |
| | | EER | 12.0 |
| | | HSPF | 10.0 |
| | AHRI 210-240 2023 ² | SEER2 | 16.2 |
| | | EER2 | 10.4 |
| Power | Voltage | | ø / V / Hz |
| | Working Voltage Range (VAC) | | 187 - 253 |
| | Operating Current (min. / std. / max.) | Cooling (A) | 3.0 / 7.9 / 11.5 |
| | | Heating (A) | 2.6 / 8.6 / 20.0 |
| | Max. Breaker | Amps | 25 |
| | Min. Circuit Ampacity (A) | | 20.1 |
| Dimensions | W X H X D (in.) | Indoor Unit | 17 1/2 X 43 X 21 |
| | | Outdoor Unit | 34 5/8 X 31 7/16 X 12 1/4 |
| | Weight (lbs.) | Indoor Unit | 98.1 |
| | | Outdoor Unit | 118.4 |
| | Duct Connections (W X H) | Supply (in.) | 12 1/4 X 15 1/2 |
| | | Return (in.) | 17 1/2 X 21 |
| Sound Pressure Level | Indoor Unit dB(A) | L / M / H | 34 / 37 / 40 |
| | Outdoor Unit dB(A) | Cooling / Heating (high) | 48 / 48 |
| Operating Temperatures | Outdoor | Cooling | 23 ~ 122°F (-5 ~ 50°C) 0 ~ 122°F (-18 ~ 50°C) W/Baffle |
| | | Heating | -13 ~ 75°F (-25 ~ 24°C) |
| | Indoor | Cooling | 64 ~ 90°F (16 ~ 32°C) |
| | | Heating | T ≤ 86°F (30°C) |
| Pipe Connections | Indoor & Outdoor | High side | 1/4" |
| | | Low side | 1/2" |
| | Maximum (ft.) | | 164 |
| | Maximum Vertical Separation (ft.) | | 98.4 |
| Refrigerant | Type | | R410A |
| | Factory Charge | lbs. | 4.41 |
| | Charged for | | 24.6 ft. |
| Compressor | Manufacturer | | Samsung |
| | Type | | Inverter Driven, Twin BLDC Rotary |
| | RLA | Amps | 12.7 |
| Evaporator Fan | Type | | Double-inlet, forward curve, centrifugal (with ECM motor) |
| | Air Volume | CFM (L/M/H) | 494 / 530 / 600 |
| | Output | Watts | 290 |
| | External Static Pressure | Standard ("WC) | 0.58 in. WC |
| | | Min. / Max. ("WC) | 0 / 0.80 in. WC |
| Condenser Fan | Motor | | BLDC With Axial Type Fan (1) |
| | FLA / Watts / CFM (max.) | | 1.25A X 1 / 125W X 1 / 2,154 CFM |
| Safety | Certifications | UL 60335-2-40 | |
| | 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.
 - Base pan heater equipped as standard
 - System shall provide 100% heating capacity at -4°F (-20°C)
- 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 evening hours (*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

This publication reflects both the 1987 Appendix M metric (SEER) and the 2023 Appendix M1 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy metrics.

¹Performance data certified by AHRI to AHRI 210-240 (2017) with Addendum 1.

²Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023.

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www.energystar.gov.

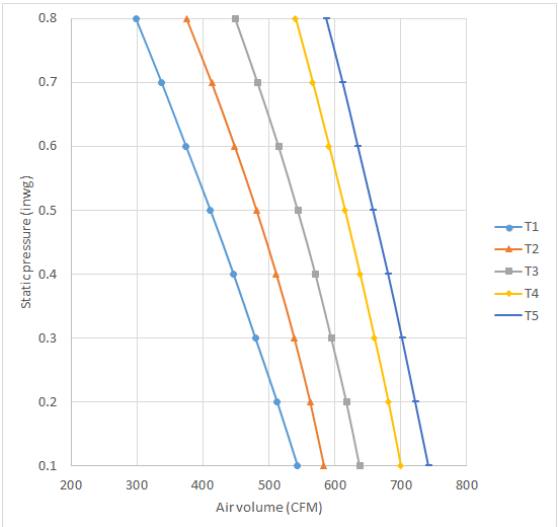
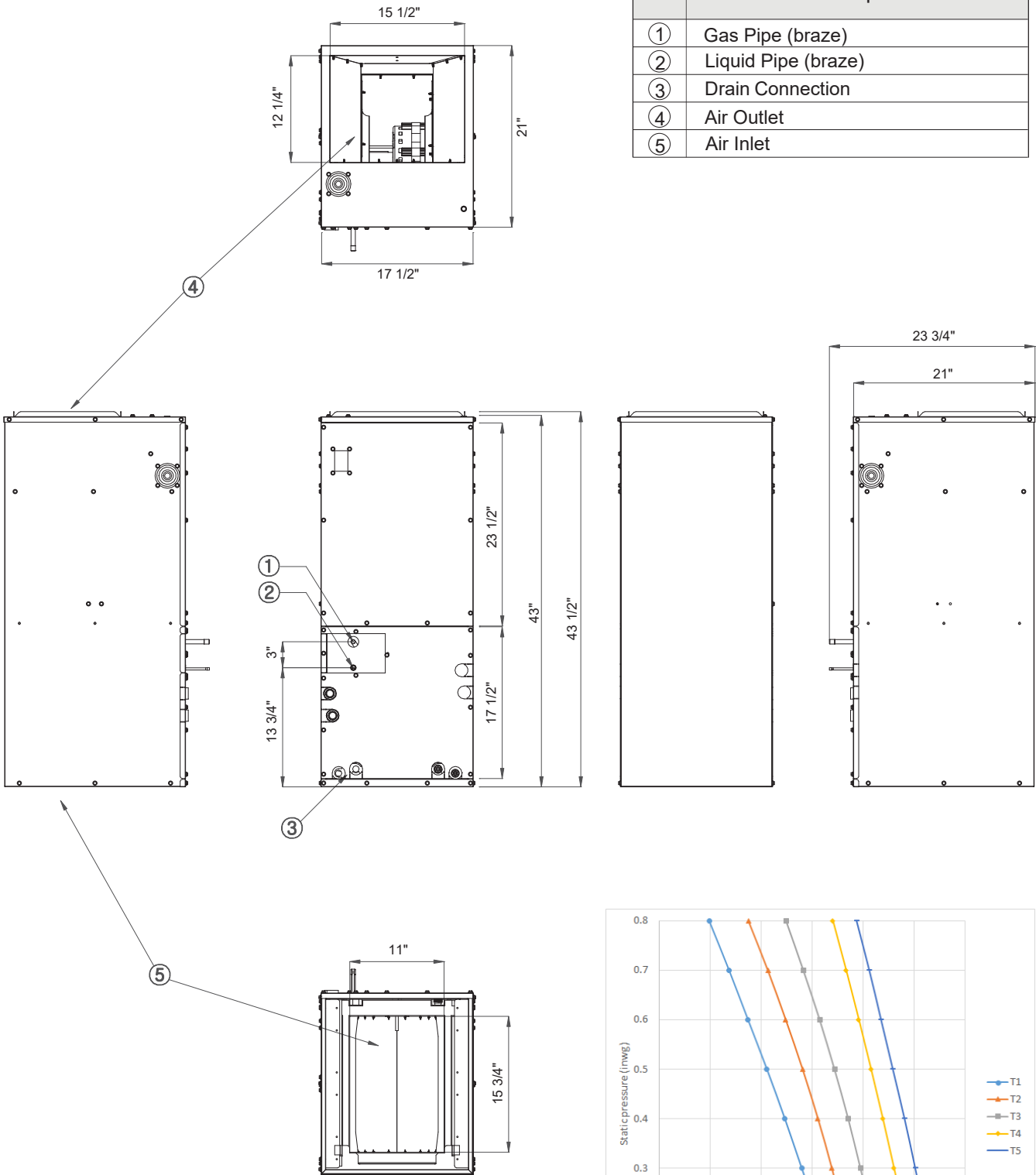
Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

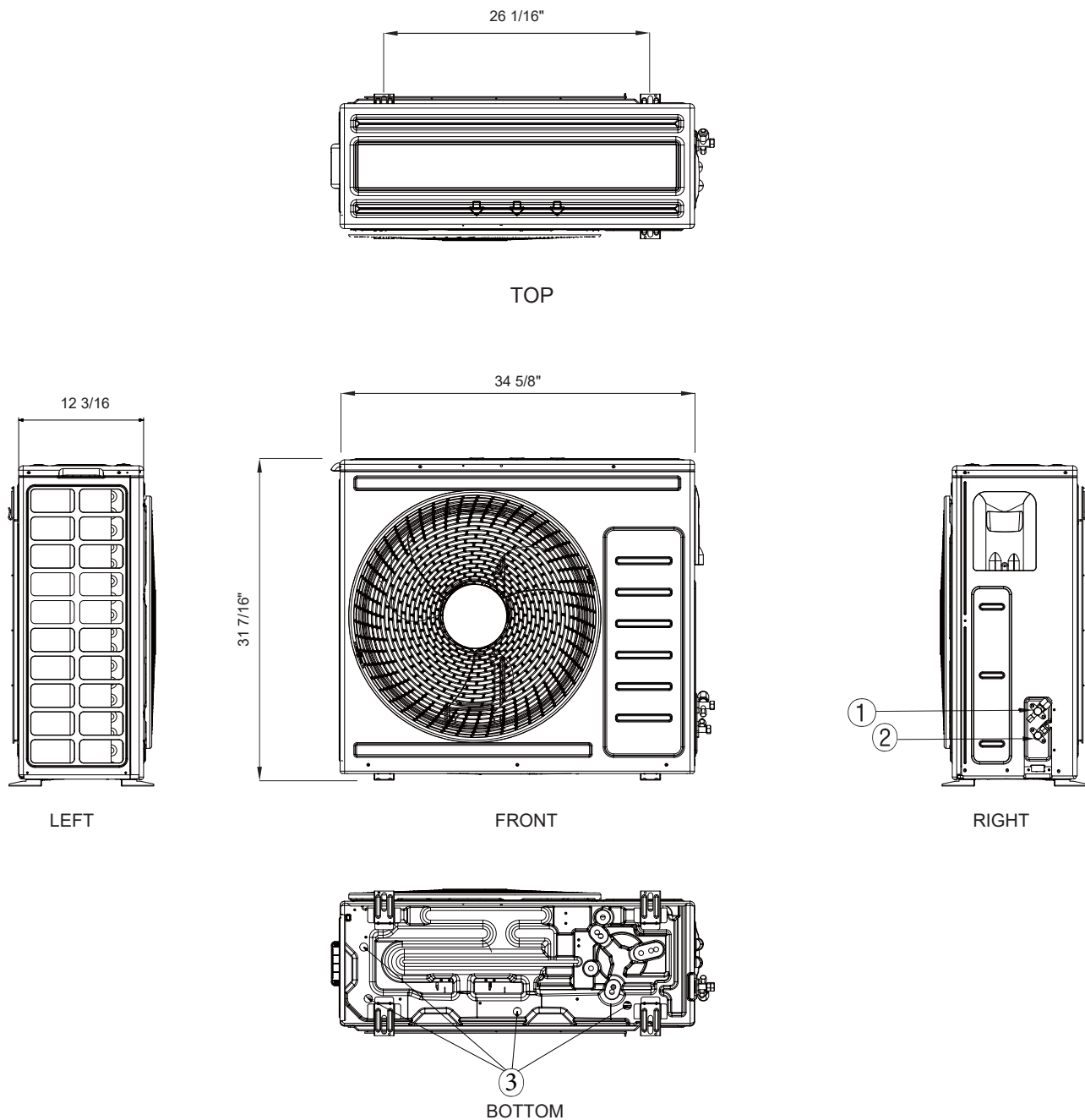


Optional Accessories

| | | |
|--|--------------------------|------------|
| 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-1 |
| External Contact Control | | MIM-B14 |
| Wall Bracket (for outdoor unit) | | CKN-250 |
| Wind Baffles | Front | WBF-7M |
| | Back | WBB-7M-B |
| Hail Guard | | HGK-2 |
| Line Sets - insulated and flared, interconnect cables included | 25' - ILS-2507 | |
| | 50' - ILS-5007 | |
| Supplemental Electric Heat Kit | VHK-103A (3 kW) | |
| | VHK-105A (5 kW) | |
| Downflow Conversion Kit | | VDK-1 |

| No. | Description |
|-----|----------------------|
| ① | Gas Pipe (brazed) |
| ② | Liquid Pipe (brazed) |
| ③ | Drain Connection |
| ④ | Air Outlet |
| ⑤ | Air Inlet |





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