

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

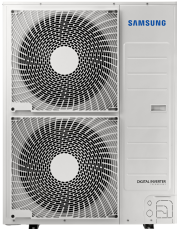
Location _____
Engineer _____
Reference _____
Schedule # _____

Approval _____
Construction _____

| Specifications | | | |
|---|---|---------------------------|--|
| Model | Indoor Unit Model Number (US Code) | | AC036KNZDCH/AA (CNH36ZDK) |
| | Outdoor Unit Model Number (US Code) | | AC036BXADCH/AA (CXH36ADB) |
| Performance ¹ | Nominal Capacity | Cooling / Heating (Btu/h) | 36,000 / 40,000 |
| | Capacity Range | Cooling (Btu/h) | 10,000 – 37,000 |
| | | Heating (Btu/h) | 10,000 – 50,000 |
| | SEER / EER | | 18.2 / 10.0 |
| | COP (nominal heating) | | 3.22 |
| | HSPF | | 10.2 |
| AHRI Certification Number | | 207598070 | |
| 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) | 5.0 / 16.1 / 21.7 |
| | | Heating (A) | 4.3 / 16.3 / 24.0 |
| | Max. Breaker | Amps | 35 |
| Min. Circuit Ampacity (A) | | 22.6 | |
| Dimensions | W X H X D (in.) | Indoor Unit | 21 X 48 3/4 X 21 |
| | | Outdoor Unit | 37 X 39 5/16 X 13 |
| | Duct Connections (D X W) | Supply (in.) | 12 1/2 X 18 3/4 |
| | | Return (ID, in.) | 21 X 21 |
| | Weight (lbs.) | Indoor Unit | 123.46 |
| | | Outdoor Unit | 159.8 |
| Sound Pressure Level | Indoor Unit dB(A) | L / M / H | 36 / 39 / 42 |
| | Outdoor Unit dB(A) | Cooling / Heating (high) | 52 / 54 |
| Operating Temperatures | Outdoor | Cooling | 23 ~ 122°F (-5 ~ 50°C) 0 ~ 122°F (-18 ~ 50°C) w/ baffle |
| | | Heating | -4 ~ 75°F (-20 ~ 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) | | 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 | 14.7 |
| Evaporator Fan | Type | | Double-inlet, forward curve, centrifugal (with ECM motor) |
| | Air Volume | CFM (L/M/H) | 883 / 1,042 / 1,165 (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.) | | 1.25 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 | | |

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
 - 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.

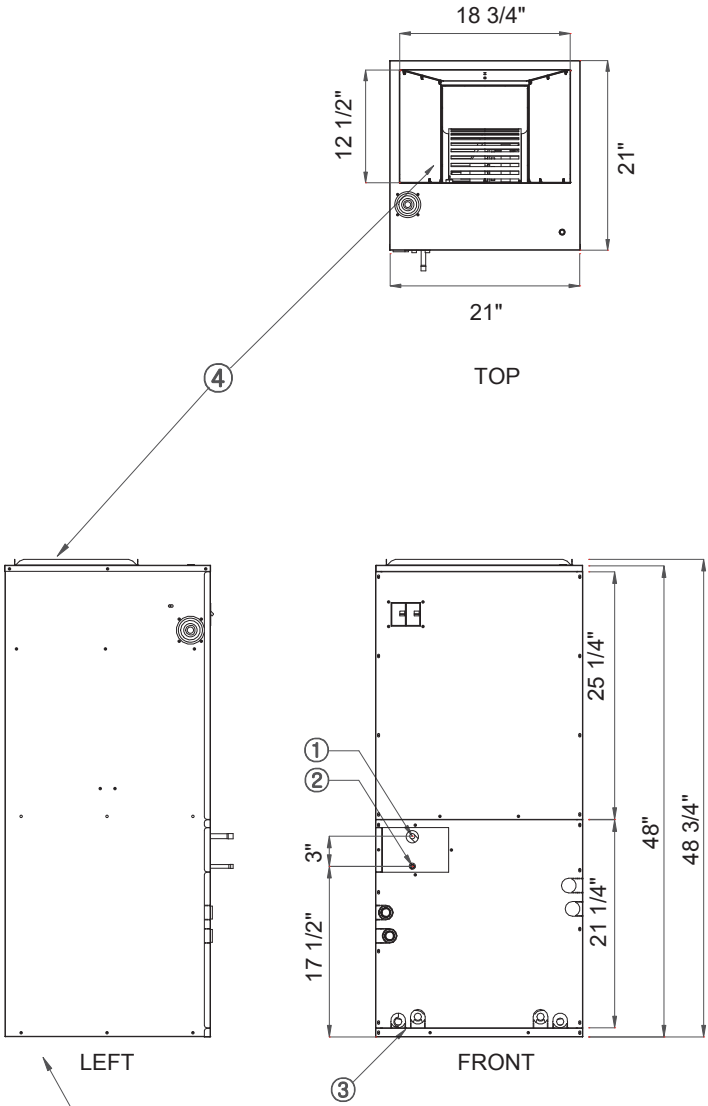
- Controls**
- Control wiring shall be 2 X 16 AWG
 - No additional interface modules/adapters are required when connecting to Samsung central control options.
 - The unit shall be operated via a wireless or wired remote control with DDC type signal
 - Dual set temperature support when connected to MWR-WG00UN 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

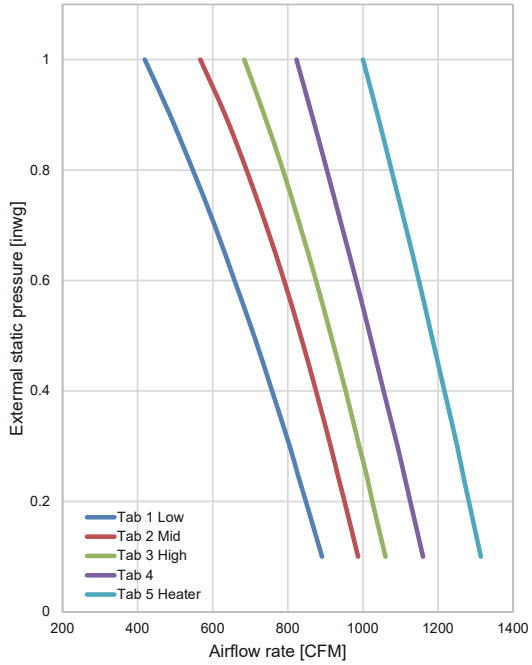
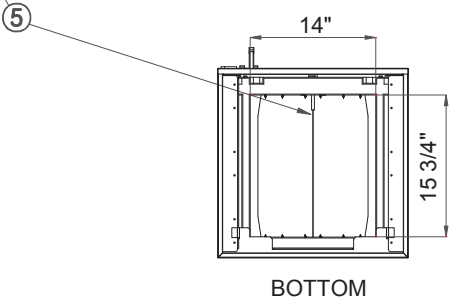
Warranty
10 Years compressor, 10 years parts, 1 year limited labor when registered

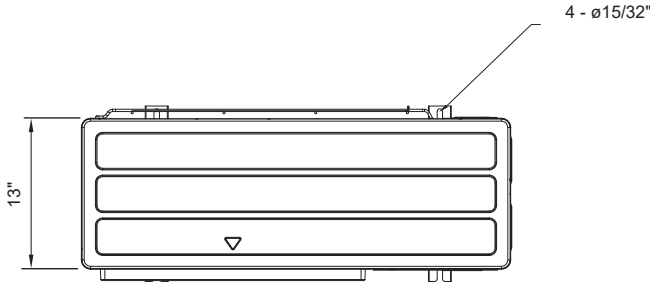
Optional Accessories

| | | |
|--|--------------------------|------------|
| 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-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-205A (5 kW) | |
| | VHK-210A (10 kW) | |
| Downflow Conversion Kit | | VDK-2 |

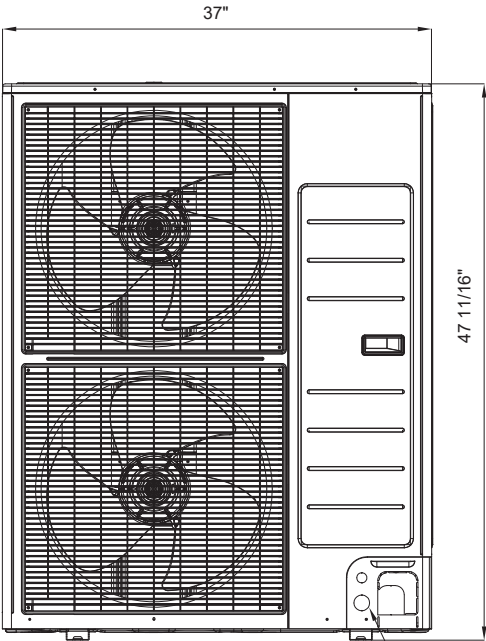


| No. | Description | |
|-----|------------------|--------------------|
| ① | Gas Pipe | *Brazed Connection |
| ② | Liquid Pipe | *Brazed Connection |
| ③ | Drain Connection | |
| ④ | Air Outlet | |
| ⑤ | Air Inlet | |

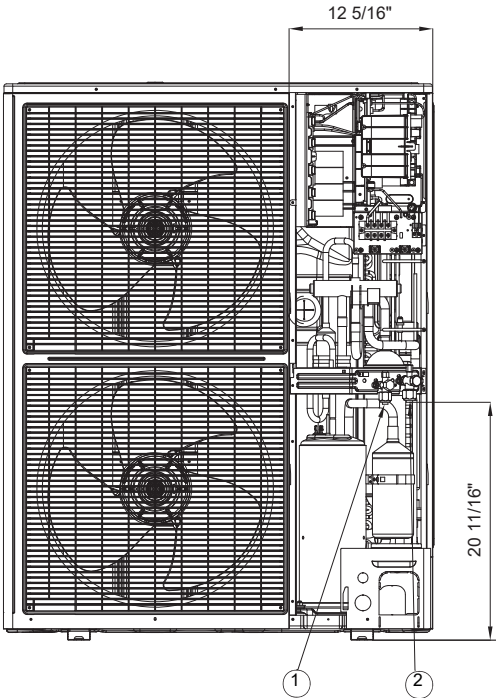




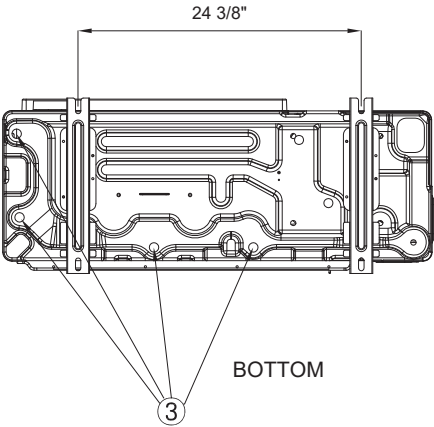
TOP



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 | -- |