Job Name _____ Location _____
Purchaser _____ Engineer _____
Submitted to _____ Reference ☐ Approval ☐ Construction ☐
Unit Designation _____ Schedule # _____






**Specifications**

| | | | |
|---|---|---|---|
| Model | Indoor Unit Model Number | | AC018MNADCH/AA |
| | Outdoor Unit Model Number | | AC018MXSCCC/AA |
| Performance | Nominal Capacity | Btu/h | 18,000 |
| | Capacity Range | Btu/h | 4,000 - 20,000 |
| | SEER / EER | | 18.8 / 9.05 |
| | AHRI Certification Number | | 10491544 |
| 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. | 1.5 / 8.5 / 10.5 |
| | Max. Breaker | Amps | 15 |
| | Min. Circuit Ampacity (A) | | 13.0 |
| Dimensions | W X H X D (in.) | Indoor Unit | 35 5/16 X 10 5/16 X 10 5/16 |
| | | Outdoor Unit | 34 5/8 X 25 1/8 X 12 3/16 |
| | Weight (lbs.) | Indoor Unit | 23.81 |
| | | Outdoor Unit | 94.36 |
| Heat Exchanger | Indoor & Outdoor Unit Type | | Aluminum Fin / Copper Tube |
| Sound Pressure Level | Indoor Unit dB(A) | (Silent) / L / M / H | 29 / 32 / 37 / 42 |
| | Outdoor Unit dB(A) | High | 48 |
| Operating Temperatures | Outdoor | °F(°C) | 23 ~ 115°F(-5 ~ 46°C) |
| | | | -40 ~ 115°F(46°C) w/ wind baffle |
| | Indoor | °F(°C) | 61 ~ 90°F(16 ~ 32°C) |
| Pipe Connections | Indoor & Outdoor | High side (flare) | 1/4" |
| | | Low side (flare) | 1/2" |
| | Maximum (ft.) | | 98 |
| | Maximum Vertical Separation (ft.) | | 66 |
| | Condensate Connection | | 11/16" OD |
| Refrigerant | Type | | R410A |
| | Control Method | | Electronic Expansion Valve |
| | Factory Charge | oz. | 45.85 |
| | Charged for | | 25 ft |
| | Additional Refrigerant | | 0.11 oz/ft over 25 ft |
| Compressor | Manufacturer | | Samsung |
| | Type | | Inverter Driven, BLDC, Rotary |
| | RLA | Amps | 9.0 |
| Evaporator Fan | Type | | BLDC with Crossflow fan (1) |
| | Air Volume | CFM (L/M/H) | 265 / 336 / 406 |
| | Output (W) / FLA (A) | | 27 W / 0.70 A |
| Condenser Fan | Motor | | BLDC With Axial Type Fan (1) |
| | FLA / W / CFM (max.) | | 0.9 A / 89 W / 1,412 CFM |
| Optional Accessories | Wired Controller | Simplified Touch Controller | ☐ MWR-SH11UN |
| | | Advanced Wired Controller | ☐ MWR-WG00UN |
| | Condensate pump | Aspen Mini Orange | ☐ ASP-MO-UNIV 110-250 |
| | | Blue Diamond | ☐ BD-BLUE230 |
| | Wi-Fi Adapter | | ☐ MIM-H04UN |
| | External Temperature Sensor | | ☐ MRW-TA |
| | External Contact Control | | ☐ MIM-B14 |
| | Central Control Interface Module for Connection to DVM Plus Controls (non-NASA) | | ☐ MIM-N01 |
| | Wall Bracket (for outdoor unit) | | ☐ CKN-250 |
| | Wind Baffles | Front | ☐ WBF-5M |
| | | Back | ☐ WBB-6M |
| | Line Sets - insulated and flared, interconnect cables included | | ☐ 25' - ILS2507 |
| | | | ☐ 50' - ILS5007 |
| 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 | | |

Certified in accordance with the AHRI Unitary Small Air-Conditioners (USAC) 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.

**Notice: US Federal law requires that the above model to be installed in all U.S. states and territories except in AZ, CA, NM, and NV. Federal law prohibits installation of this unit in these states.**

- Wall-mounted evaporator
- Low ambient cooling to -40°
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- Auto-restart after power loss
- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor unit shall have a removable EEPROM that stores system programming information, unit name, and other data
- All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night.

**Construction**
The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

Indoor unit chassis shalle be UL94 V0 with a galvanized steel mounting plate

The indoor unit shall have easy-access to wire, pipe, and drain connections via access panel on front of unit for easier installation and service

**Heat Exchanger**
The indoor unit and outdoor unit heat exchangers shall be mechanically bonded aluminum fin to copper tube

**Controls**
Control signal shall be a DDC type signal

Advanced configuration options for high room temperature alerts using MIM-B14 external contact control to enable a backup system and/or to notify a BMS (refer to technical documents available at www.DVMdownload.com for full details).

Interconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded

Wired controls must be purchased separately

Wireless controller included

Connection to optional wired controllers shall be 2 X 16AWG shielded wire

Controls shall integrate with a BMS system

The system shall integrate with the Samsung NASA Controls Solution

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control options (MIM-D01AUN, MIM-B17BUN, MIM-B18BUN, MCM-A300UN).

**Refrigerant System**
The refrigerant shall be R410A

The compressor shall be hermetically sealed, inverter controlled, BLDC Rotary

Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Soft-start to reduce current demand during compressor start

**Warranty**
7 Years compressor, 5 years parts with registration

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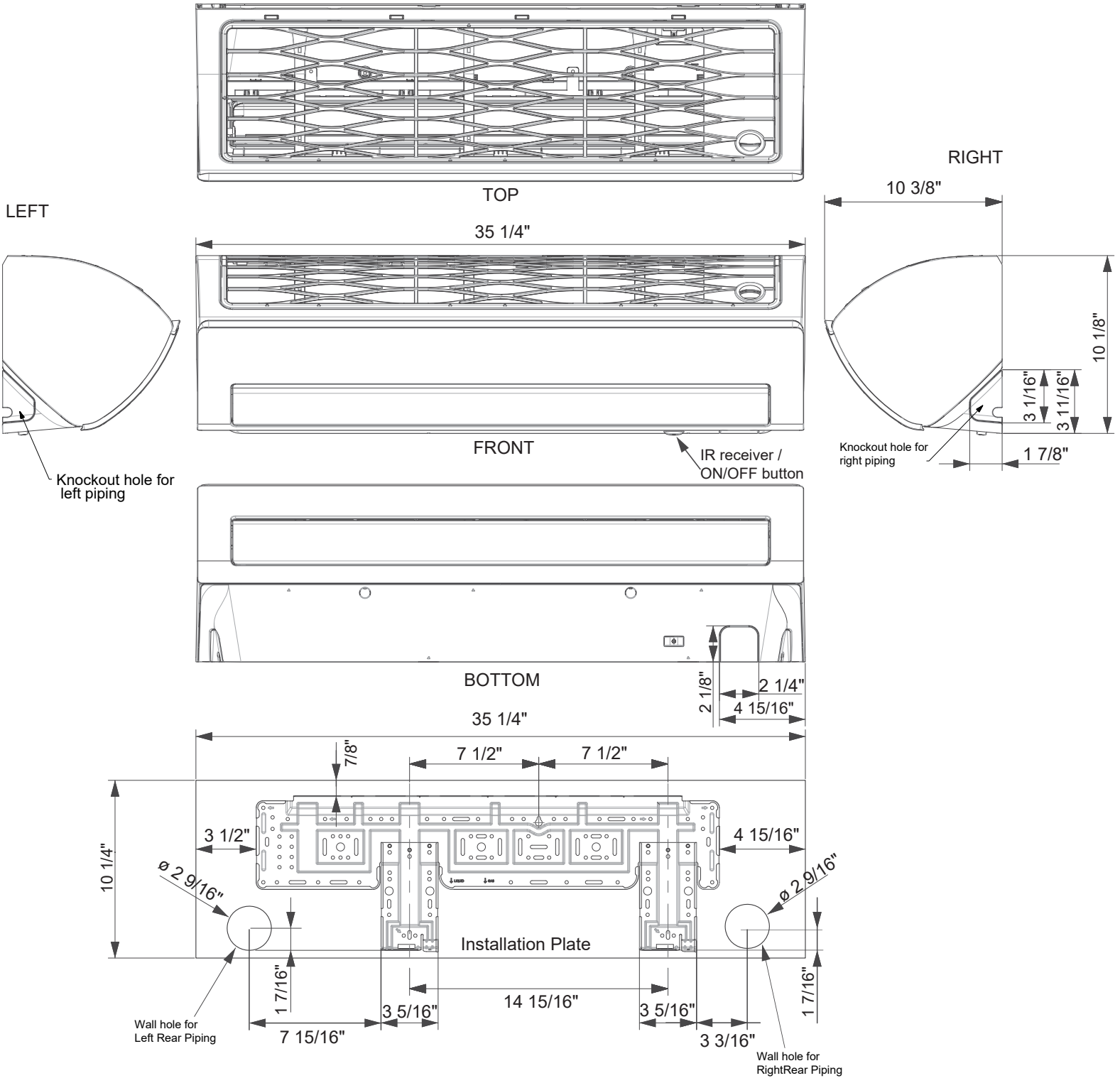


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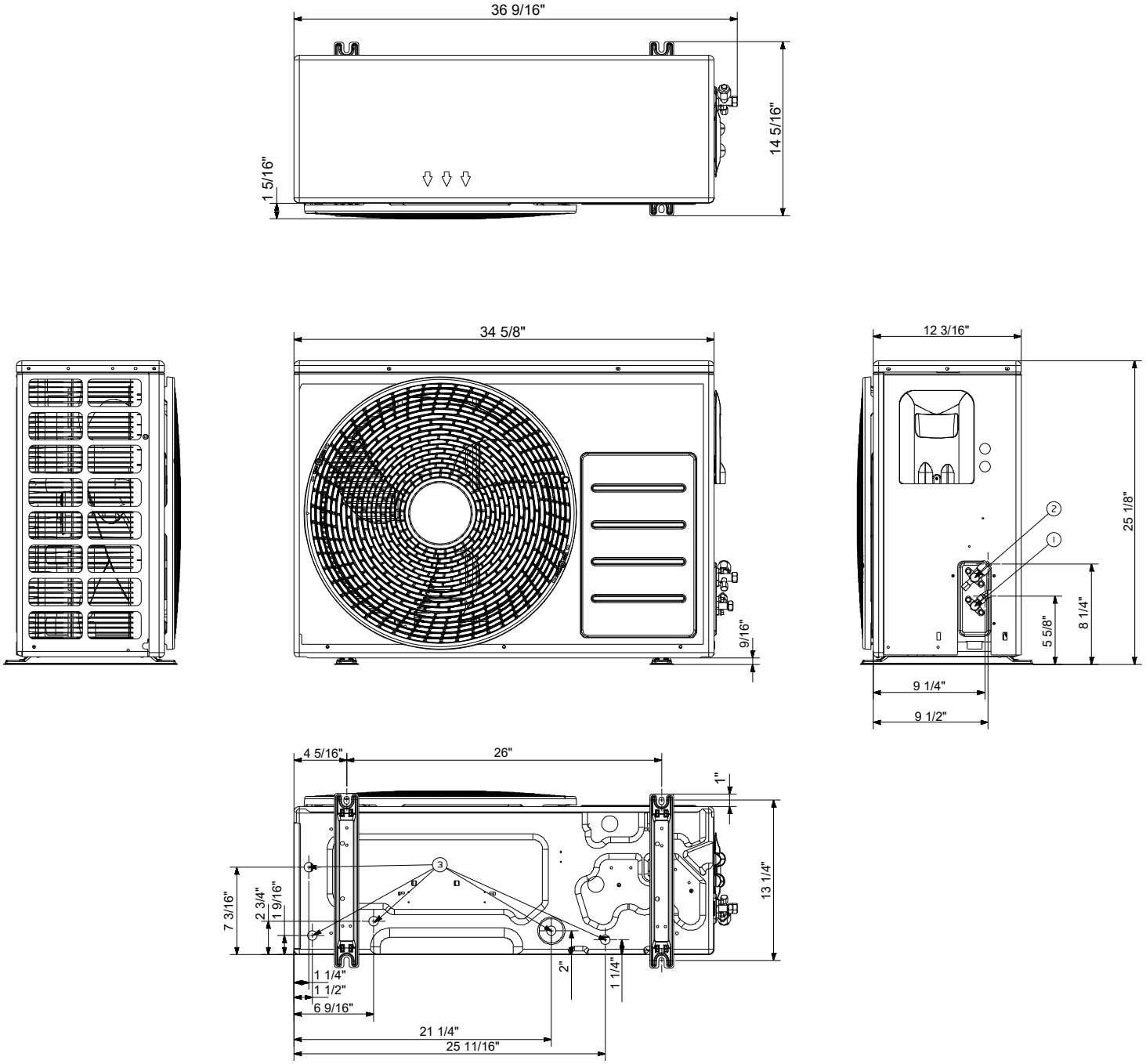
Samsung, Low Ambient Cooling, High-Wall Evaporator, Split System

AC018MNADCH/AA Dimensional Drawing




| No. | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection | 1/4" |
| 2 | Gas pipe connection | 1/2" |
| 3 | Drain pipe connection | 11/16" OD |
| 4 | Power supply & Communication wiring conduit | - |

Samsung, Low Ambient Cooling, High-Wall Evaporator, Split System
AC018MXSCCC/AA Dimensional Drawing




| No. | Name | Description |
|---|---|---|
| ① | Gas Pipe Connection | Ø 1/4" Flare |
| ② | Liquid pipe Connection | Ø 1/2" Flare |
| ③ | Drain Hole | - |