

SUBMITTAL - 18KUAS1M

| | |
|-----------------|-------------|
| Job Name: _____ | Date: _____ |
| Location: _____ | |

Indoor Unit: **AMUH18KUAS**

Outdoor Unit: **AOUH18KUAS1**



FEATURES

INDOOR UNIT:

- Ducted Multi-Position Air Handling Unit ideal for retrofit and new construction applications
- Multi-position configuration: Up-flow, Left, Right, or Down-flow (requires optional Downflow kit)
- Low-noise design with sound levels as low as 33 dB(A)
- Built-in refrigerant leak detection sensor
- Multiple fan speed options; Auto, High, Med, Low, and Quiet
- Wide external static pressure (ESP) range: up to 0.8 inWG
- Special Operation modes available:
 - Economy Mode/ Cold Air Prevention / Auto-restart function
- Enhanced control platform:
 - Wireless control available via optional IR receiver and wireless remote (UTY-LBTUM)
 - Optional Wi-Fi module enables remote access through the Airstage Mobile App
 - Supports 24Vac third-party thermostat integration via compatible thermostat Interface
 - BACnet and Modbus protocol compatibility for Building Management and Home Automation systems
- Advanced scheduling and timer options with Weekly Timer / 24-hr Timer / Sleep Function
- Built-in I/O terminals support integration with third-party devices (e.g. fire alarms, door switches, humidifiers, auxiliary heat, and ERV/HRV systems)
- Optional single and dual stage electric heater kits for additional heat capacity
- Emergency heat supported via optional heater kits or external third-party sources
- Auto backup heat activation (requires Heater Kit or third-party source)
- Ideal for installation in zero-clearance applications (e.g. mobile homes, manufactured homes)
- Low air leakage rate of less than 2%
- Compatible with Airzone third-party communicating zoning system

OUTDOOR UNIT:

- Low GWP R-32 systems for reduced environmental impact
- Common Outdoor Unit compatible with all non-wall-mounted indoor unit types
- INVERTER-driven compressor that offers superior performance, comfort, and energy savings
- Delivers more than 103% cooling capacity at 0°F (-17.8°C)
- Up to 20% higher rated heating capacity than nominal capacity
- Compact outdoor unit with extended line set length up to 98ft (30m)
- Provides low ambient cooling and heating down to -5°F (-20°C) for dependable performance in extreme conditions



7 Year Compressor, 5 Year Parts out-of-the-box Warranty.



10 Year Compressor, 10 Year Parts Warranty when registered within 60 days of installation in a residence.



12 Year Compressor, 12 Year Parts Warranty when registered within 60 days of installation in a residence and installed by a Fujitsu Elite contractor.



Due to continuous product improvements, specifications are subject to change without notice. Please log in to the Fujitsu Portal for the most up-to-date documentation <https://connect.fujitsugeneral.com>

Version: 20250602A

-1 of 6-

SUBMITTAL - 18KUAS1M

SPECIFICATIONS:

| | | | | | | |
|---|---------|------------------------------------|---------|-------------------------|--|--------------|
| Indoor Unit | | | | AMUH18KUAS | | |
| Outdoor Unit | | | | AOUH18KUAS1 | | |
| System Name | | | | 18KUAS1M | | |
| AHRI Number | | | | 217290593 | | |
| SEER2 | Cooling | | Btu/hW | 19.2 | | |
| EER2 | | | | 12.2 | | |
| HSPF 2 (IV) / HSPF 2 (V) | Heating | | kW/kW | 10.5 / 8.6 | | |
| COP2 | | | | 3.32 | | |
| Outdoor Operation Range | | Cooling | °F (°C) | -5 to 122(-21 to 50) | | |
| | | Heating | | -5 to 75 (-21 to 24) | | |
| Indoor Capacity | | Cooling | | Btu/h | 18000 | |
| | | | | | Rated | 3,100—20,100 |
| | | | | | Min.—Max. | 21600 |
| | | 47°FDB (Outdoor temp.) | | | Rated | 3,100—24,000 |
| | | | | | Min.—Max. | 16100 |
| | | Heating | | | Rated | 19500 |
| | | Max. | 17300 | | | |
| | | 5°FDB (Outdoor temp.) ² | Rated | | | |
| | | Max. | | | | |
| Outdoor Connection pipe | | Liquid | | in (mm) | Ø1/4 (Ø6.35) | |
| | | Gas | | | Ø1/2 (Ø12.70) | |
| | | Method | | FLARE | | |
| | | Pre-charge length | | ft (m) | 66 (20) | |
| | | Min. length | | | 16 (5) | |
| | | Max. length | | | 98 (30) | |
| Max. height difference | | 49 (15) | | | | |
| Indoor Dimensions (H × W × D) | | Net | | in (mm) | 43 × 17-1/2 × 21 (1,092 × 444 × 533) | |
| | | Gross | | | 45 × 19-3/4 × 26-3/4 (1,143 × 502 × 679) | |
| Indoor Weight | | Net | | lb (kg) | 107 (48.5) | |
| | | Gross | | | 118 (53.5) | |
| Outdoor Dimensions (H × W × D) | | Net | | in (mm) | 24-7/8 × 31-7/16 × 11-7/16 (632 × 799 × 290) | |
| | | Gross | | | 27-1/4 × 37 × 14-3/4 (692 × 940 × 375) | |
| Outdoor Weight | | Net | | lb (kg) | 84 (38) | |
| | | Gross | | | 93 (42) | |
| Indoor Fan | | Cooling | | CFM (m ³ /h) | High | |
| | | | | | Med | 600 (1,019) |
| | | | | | Low | 494 (840) |
| | | Heating | | | Quiet | 430 (730) |
| | | | | | High | 371 (630) |
| | | | | | Med | 600 (1,019) |
| | | | | | Low | 494 (840) |
| | | | | | Quiet | 430 (730) |
| | | | | | Quiet | 371 (630) |
| | | Type × Qty | | | SIROCCO FAN × 1 | |
| Motor output | | W | | | | |
| Static pressure range | | inWG (Pa) | | | | |
| Outdoor Fan | | Cooling | | CFM (m ³ /h) | 1,318 (2,240) | |
| | | Heating | | | 1,154 (1,960) | |
| | | Type × Qty | | PROPELLER FAN × 1 | | |
| | | Motor output | | W | | |
| Indoor Sound Pressure Level ⁴ | | Cooling | | dB (A) | High | |
| | | | | | Med | 49 |
| | | | | | Low | 44 |
| | | Heating | | | Quiet | 39 |
| | | | | | High | 36 |
| | | | | | Med | 33 |
| | | | | | Low | 43 |
| | | | | | Quiet | 39 |
| | | | | | Low | 36 |
| | | | | | Quiet | 36 |
| Outdoor Sound Pressure Level ⁴ | | Cooling | | 52 | | |
| | | Heating | | 55 | | |

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SPECIFICATIONS:

| | | | | |
|--|-------------------------|------------------------------------|---|------|
| Outdoor Refrigerant | Type | | R32 | |
| | Charge | lb oz | 2 lb 12 oz | |
| Additional Charge Calculation | | g | 1250 | |
| | | oz/ft | 0.22 | |
| | | g/m | 20 | |
| Outdoor Refrigerant Oil | Type | | RMM68AF | |
| | Amount | in ³ (cm ³) | 24.4 (400) | |
| Indoor Moisture removal | | pints/h (L/h) | 2.37 (5.0) | |
| Indoor Drain hose | Material | | LOW-DENSITY POLYETHYLENE | |
| | Tip Diameter | in (mm) | Ø1/2 (Ø13.0) (I.D.), Ø5/8 to Ø11/16 (Ø16.0 to Ø16.7) (O.D.) | |
| Indoor Operation range | Cooling | °F (°C) | 64 to 90 (18 to 32) | |
| | | %RH | 80 or less | |
| | Heating | °F (°C) | 60 to 86 (16 to 30) | |
| Power Supply | | | 208/230 V ~ 60 Hz | |
| Available Voltage Range | | | 187—253 | |
| System power supply | Voltage | | 208/230 | |
| | Frequency | | 60 | |
| | Available voltage range | | 187—253 | |
| Indoor Current | Cooling | Rated | 6.6 | |
| | Heating | | 8.4 | |
| Maximum Operating Current ³ | | Cooling | 12.2 | |
| | | Heating | 14.8 | |
| Outdoor Starting Current | | | 8.4 | |
| MCA ⁵ | | | 17.9 | |
| Wiring spec. ⁶ | | MAX. CKT. BKR ⁷ | 20 | |
| Indoor Input Power | Cooling | Rated | 1.48 | |
| | | | 47°FDB (Outdoor temp.) | 1.91 |
| | | | 17°FDB (Outdoor temp.) ¹ | 1.62 |
| | Heating | Max. | 2.32 | |
| | | | 5°FDB (Outdoor temp.) ² | 2.12 |
| Indoor Power Factor | Cooling | % | 97.5 | |
| | Heating | | 98.9 | |
| Energy Star | | | ES, ESCC, ESME | |

NOTES

- Cooling: Indoor temperature of 80°F (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).
- Heating: Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).
- 17°FDB (Outdoor temp.) - *1: Heating (17°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FWB (-9.44°CWB).
- 5°FDB (Outdoor temp.) - *2: Heating (5°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 5°FDB (-15.0°CDB)/4°FWB (-15.56°CWB).
- Test conditions are based on AHRI 210/240 2023.
- *4: Indoor Sound Pressure Level - Measured values in manufacturer's anechoic chamber.
- Outdoor Sound Pressure Level - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *3: Maximum Operating Current - Maximum current is maximum value when operated within the operation range.
- The total current of indoor unit and outdoor unit.
- MCA - *5: Minimum Circuit Ampacity (Calculation based on UL60335-2-40)
- *6: Selected sample based on Japan Electrotechnical Standards and Codes Committee ED005.
- Wiring spec. - *6: As the regulations of wire size and circuit breaker differ in each country or region, select appropriate devices complied to the regional standard.
- MAX. CKT. BKR - *7: Maximum Circuit Breaker
- System continues to operate below rated outdoor operation temperature range, subject to varying conditions. System has no low temperature cut out. Capacity is not tested outside of the rated temperature range.

HEATER KIT SPECIFICATIONS:

For 1.5 Ton System:

| Heater Kit | Description | Voltage (V) | Heater kW | Stage | Heater Amps | Min. Ckt. Amp (MCA) | Max. Ckt. Bkr (MCB) |
|--------------|---|-------------|-----------|-------|-------------|---------------------|---------------------|
| UTZ-EU03MSA | Heater Kit - 3kW, 1 Stage, 208/240V, Single Phase, With Breaker | 240 | 3 | 1 | 12.5 | 15.7 | 20 |
| UTZ-EU06MSB2 | Heater Kit - 6kW, 2 Stage, 208/240V, Single Phase | 240 | 6 | 2 | 12.5/12.5 | 15.7/15.7 | 20/20* |

*: Breaker not included; to be field supplied

SUBMITTAL - 18KUAS1M

ACCESSORIES:

| Model Number | Description |
|------------------------------|--|
| UTY-RVRU | KAGAMI - Touch Panel Wired Controller |
| UTY-RNRUZ5 | Touch Panel Wired Remote Controller |
| UTY-RHRY | Simple Wired Remote (Without Mode Function) - Hospitality |
| UTY-RSRY | Simple Wired Remote (With Mode Function) |
| UTY-LBTUM | IR Receiver Kit w/ Wireless Remote Controller (Mid-Static Ducted) |
| UTY-TFSXJ4 | Wi-Fi adapter (WiFi Interface Module UART Type) |
| FJ-AC-WIFI-1 | Intesis Wi-Fi Device: Wired Module |
| FJ-IR-WIFI-1NA ^{*1} | Intesis IR Wireless AC Cloud Control Interface (Intesis Home app) |
| BM101WA ^{*1} | Cielo Breez MAX IR Controller w/ WiFi (Black) |
| BM102WA ^{*1} | Cielo Breez MAX IR Controller w/ WiFi (White) |
| UTY-VMSX | Modbus Converter |
| UTY-VTGX | Network Converter - Convert H-Series Comm. Protocol to V/J-Series Comm. |
| FJ-AC-485-1 | Intesis - BACnet MSTP & Modbus RTU Gateway |
| UTY-TERX | External Switch Controller |
| UTY-TTRXZ1 ^{*2} | 24V Thermostat Interface |
| TTRXZ1-KIT ^{*2} | 24V Thermostat Interface Kit (UTY-TTRXZ1, UTY-WIFI Plug & 24V Transformer) |
| UTY-XSZXZ1 | Remote Temperature Sensor |
| UTY-XCSX | External Input and Output PCB |
| UTY-XWZXZG | External Connect Kit |
| UTY-XWZXZJ | Wire Kit - External Input and Output |
| UTZ-GXRA | External Input and Output PCB box |
| UTY-DSGYZ2 ^{*3} | Airstage Edge Controller |
| UTZ-DUHGG2A | Hail Guard |
| UTZ-DUSHG2A | Snowhood |
| UTZ-DUWBG2A | Wind Baffle |
| UTY-XWZXZP | External Output Wire |
| UTZ-EU03MSA | Heater Kit - 3kW, 1 Stage, 208/240V |
| UTZ-EU06MSB2 | Heater Kit - 6kW, 2 Stage, 208/240V |
| UTD-DFMSB1 | Downflow Configuration Kit |

NOTES:

*1 -Requires IR receiver kit UTY-LBTUM to connect this device to IDU.

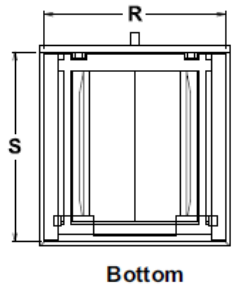
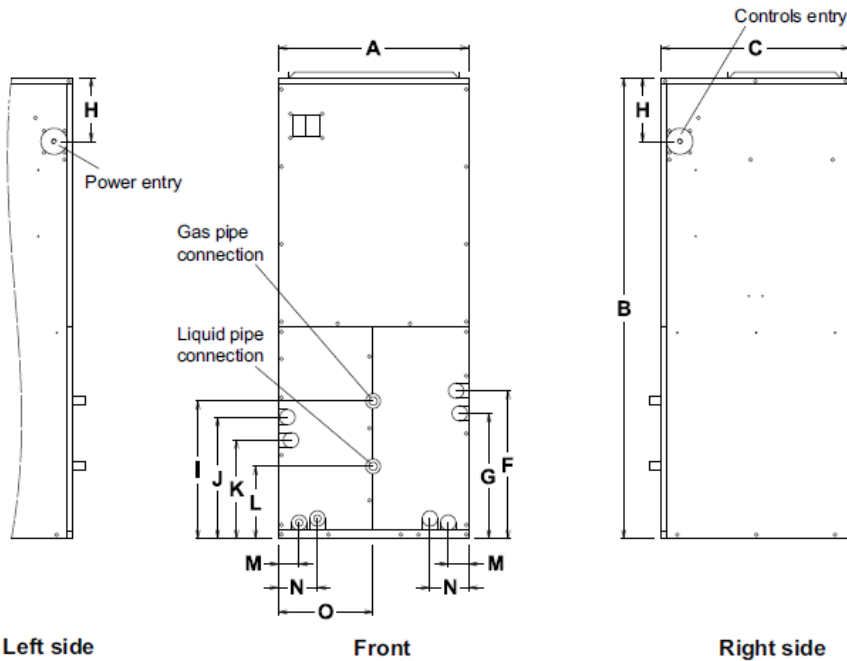
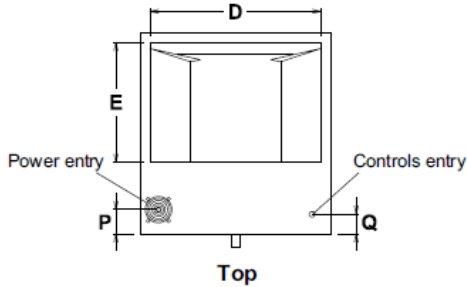
*2 -This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

*3 -Connection to AIRSTAGE Cloud requires a compatible AIRSTAGE Mobile adapter connected to the IDU.

SUBMITTAL - 18KUAS1M

INDOOR UNIT DIMENSIONS:

Unit: in(mm)

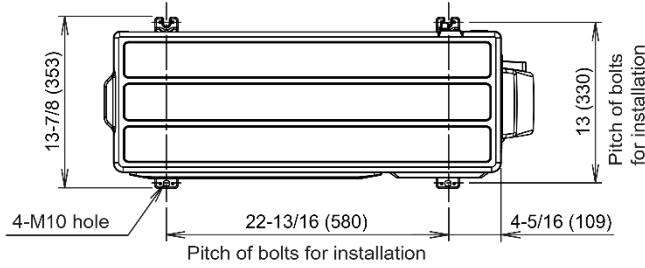


| Dimensions | Value |
|------------|----------------|
| A | 17.50 (444.5) |
| B | 43.00 (1092.2) |
| C | 21.00 (533.4) |
| D | 15.63 (397.0) |
| E | 12.50 (318.5) |
| F | 13.50 (342.9) |
| G | 11.00 (279.4) |
| H | 6.75 (171.5) |
| I | 10.74 (272.8) |
| J | 11.00 (279.4) |
| K | 10.75 (273.1) |
| L | 7.74 (196.6) |
| M | 1.50 (38.1) |
| N | 2.00 (50.8) |
| Q | 7.47 (189.7) |
| R | 5.00 (127.0) |
| S | 2.12 (53.8) |
| R | 16.10 (408.9) |
| S | 20.20 (513.1) |

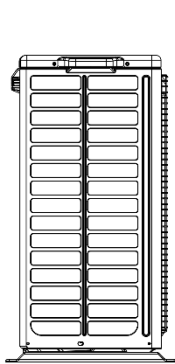
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OUTDOOR UNIT DIMENSIONS:

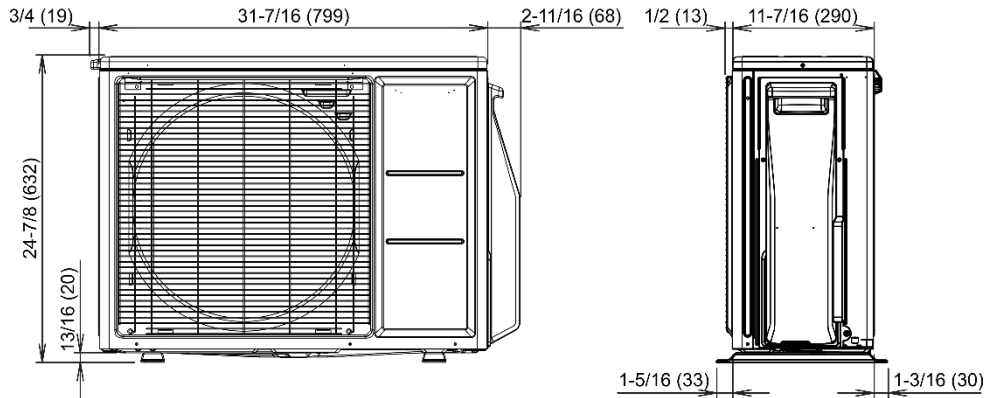
Unit: in (mm)



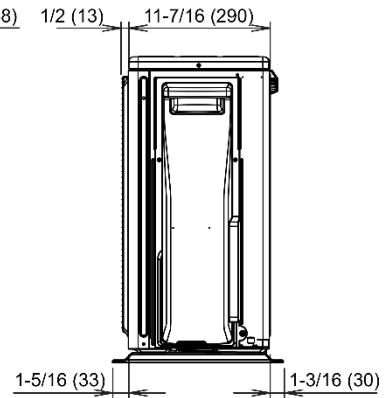
Top view



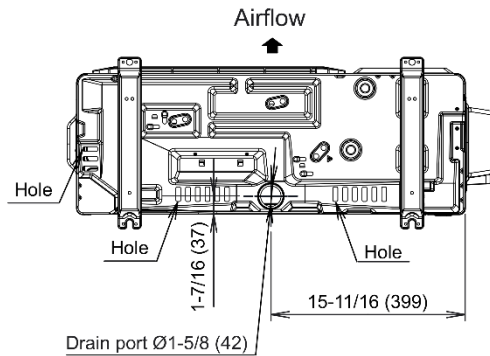
Side view



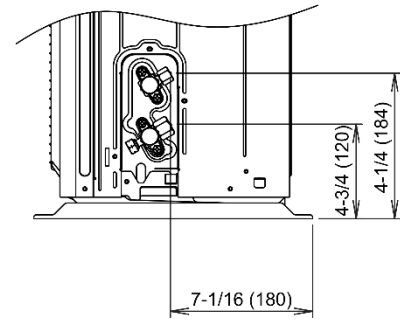
Front view



Side view



Bottom view



Side view (Valve part)

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