# SUBMITTAL - 18KZAH1

Job Name: _____

Location: _____

Date: _____

**R32**

Indoor Unit: **ASUH18KZAS**

Outdoor Unit: **AOUH18KZAH1**

**XLTH**

**FEATURES**
**INDOOR UNIT:**
- Compact wall-mounted indoor unit providing superior comfort.
- Indoor unit with ProCore™ (High Corrosion Resistant Copper) coils for long-lasting protection against corrosion
- Whisper-quiet operation with sound levels as low as 30dB
- Multiple fan speed options: Auto, High, Med-High, Med, Med-Low, Low, and Quiet.
- Special Operation modes available:
  - Economy Mode / Energy Saving Mode / Powerful Mode / Minimum Heat Mode / Automatic defrosting operation / Auto-restart function
- Enhanced controls platform for seamless, intuitive operation:
  - Backlit wireless remote controller included with the indoor unit
  - Built-in Wi-Fi connectivity for remote monitoring & control via the Airstage Mobile App
  - Occupancy sensor for enhanced energy savings
  - Extended connectivity with support for third-party interface options
  - Compatible with BACnet and Modbus protocols for seamless integration with building management and Home Automation Systems
- Advanced scheduling and timer options offer greater control over unit operation:
  - Weekly Timer / 24-hr Timer / Sleep Function
- Dual-action Filtration: Apple-Catechin Filter & Ion Deodorizing Filter
- Additional premium features include, but are not limited to:
  - Built-in external input and output for interlocking systems with 3rd party devices (Ex: Fire Alarm, Door Switch, Humidifier, Aux. Heat & more)
  - Multiple Auxiliary Heat logic for optimized heating performance
  - Service monitoring functionality via compatible accessories (UTY-RVRU & UTY-RNRUZ-series)

**OUTDOOR UNIT:**
- Low GWP R-32 systems for reduced environmental impact
- INVERTER-driven compressor that offers superior performance, comfort, and energy savings
- Base pan heater designed for the extreme cold climate region
- Compact outdoor unit with extended line set lengths up to 98ft (30m)
- Up to 20% higher rated heating capacity than nominal capacity
  - 21600 Btu/h Rated Heating Capacity for 18000 Btu/h system
  - Up to 27% higher heating capacity @ -5°F
- Low-noise outdoor unit operation mode
- Hydro Fin-coated heat exchanger for improved corrosion resistance and coil durability

**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.

ENERGY STAR

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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: 20250116A

## SPECIFICATIONS:

| | | | | | ASUH18KZAS |
|---|---|---|---|---|---|
| Indoor Unit | | | | | ASUH18KZAS |
| Outdoor Unit | | | | | AOUH18KZAH1 |
| System Name | | | | | 18KZAH1 |
| AHRI Number | | | | | 215647921 |
| SEER2 | | Cooling | | Btu/hW | 25.5 |
| EER2 | | | | | 14 |
| HSPF2 | | Heating | | kW/kW | 12.5 |
| COP2 | | | | | 4.36 |
| Outdoor Operation Range | | Cooling | | °F (°C) | 14 to 122 (-10 to 50) |
| | | Heating | | | -15 to 75 (-26 to 24) |
| Indoor Capacity | | Cooling | Rated | Btu/h | 18000 |
| | | | Min.—Max. | | 7,000—26,200 |
| | Heating | 47°FDB (Outdoor temp.) | Rated | | 21600 |
| | | | Min.—Max. | | 8,000—31,800 |
| | | 17°FDB (Outdoor temp.)[*1] | Rated | | 13600 |
| | | | Max. | | 27200 |
| | | 5°FDB (Outdoor temp.)[*2] | Rated | | 24800 |
| | | | Max. | | 25400 |
| Outdoor Connection pipe | Size | Liquid | | in (mm) | Ø3/8 (Ø9.52) |
| | | Gas | | | Ø5/8 (Ø15.88) |
| | | Method | | | FLARE |
| | | Pre-charge length | | ft (m) | 66 (20) |
| | | Min. length | | | 16 (5) |
| | | Max. length | | | 164 (50) |
| | | Max. height difference | | | 98 (30) |
| Indoor Dimensions (H × W × D) | | Net | | in (mm) | 13-3/8 × 45-1/4 × 11 (340 × 1,150 × 280) |
| | | Gross | | | 15-15/16 × 50 × 17-11/16 (405 × 1,270 × 450) |
| Indoor Weight | | Net | | lb (kg) | 36 (16.5) |
| | | Gross | | | 49 (22.0) |
| Outdoor Dimensions (H × W × D) | | Net | | in (mm) | 31 × 37 × 12-5/8 (788 × 940 × 320) |
| | | Gross | | | 38-1/16 × 40-7/16 × 17-1/2 (966 × 1,027 × 445) |
| Outdoor Weight | | Net | | lb (kg) | 117 (53) |
| | | Gross | | | 134 (61) |
| Indoor Fan | Airflow rate | Cooling | High | CFM (m³/h) | 624 (1,060) |
| | | | Med—High | | 571 (970) |
| | | | Med | | 518 (880) |
| | | | Med—Low | | 471 (800) |
| | | | Low | | 430 (730) |
| | | | Quiet | | 371 (630) |
| | | Heating | High | | 677 (1,150) |
| | | | Med—High | | 583 (990) |
| | | | Med | | 518 (880) |
| | | | Med—Low | | 471 (800) |
| | | | Low | | 430 (730) |
| | | | Quiet | | 371 (630) |
| | | Type × Qty | | | CROSSFLOW FAN × 1 |
| | | Motor output | | W | 78 |
| Outdoor Fan | Airflow rate | Cooling | | CFM (m³/h) | 1,666 (2,830) |
| | | Heating | | | 1,725 (2,930) |
| | | Type × Qty | | | PROPELLER FAN × 1 |
| | | Motor output | | W | 100 |
| Indoor Sound Pressure Level[*4] | | Cooling | High | dB (A) | 44 |
| | | | Med—High | | 42 |
| | | | Med | | 39 |
| | | | Med—Low | | 36 |
| | | | Low | | 33 |
| | | | Quiet | | 30 |
| | | Heating | High | | 46 |
| | | | Med—High | | 42 |
| | | | Med | | 38 |
| | | | Med—Low | | 36 |
| | | | Low | | 34 |
| | | | Quiet | | 30 |
| Outdoor Sound Pressure Level[*4] | | Cooling | | | 47 |
| | | Heating | | | 50 |

## SPECIFICATIONS:

| | | | | |
|---|---|---|---|---|
| Outdoor Refrigerant | | Type | | R32 |
| | Charge | | lb oz | 3 lb 12 oz |
| | | | g | 1700 |
| Additional Charge Calculation | | | oz/ft | 0.43 |
| | | | g/m | 40 |
| Outdoor Refrigerant Oil | | Type | | RMM68AF |
| | | Amount | in³ (cm³) | 48.8 (800) |
| Indoor Moisture removal | | | pints/h (L/h) | 7.6 (3.6) |
| Indoor Drain hose | | Material | | POLYPROPYLENE + HIGH-DENSITY POLYETHYLENE |
| | | Tip Diameter | in (mm) | Ø17/32 (Ø13.8) (I.D.), Ø19/32 to 21/32 (Ø15.0 to 16.8) (O.D.) |
| Indoor Operation range | | Cooling | °F (°C) | 64 to 90 (18 to 32) |
| | | | %RH | 80 or less |
| | | Heating | °F (°C) | 86 or less (30 or less) |
| Power Supply | | | | 208/230 V~ 60 Hz |
| Available Voltage Range | | | | 187—253 |
| System power supply | | Voltage | V | 208/230 |
| | | Frequency | Hz | 60 |
| | | Available voltage range | V | 187—253 |
| Indoor Current | | Cooling | Rated | 5.9 |
| | | Heating | | 6.5 |
| Maximum Operating Current[*3] | | | Cooling | A | 15.4 |
| | | | Heating | | 15.9 |
| Outdoor Starting Current | | | | 6.5 |
| MCA[*5] | | | | 19.4 |
| Wiring spec.[*6] | | MAX. CKT. BKR[*7] | | 20 |
| Indoor Input Power | | Cooling | Rated | 1.29 |
| | | | Min.—Max. | 0.40—2.45 |
| | Heating | 47°FDB (Outdoor temp.) | Rated | 1.45 |
| | | | Min.—Max. | 0.43—2.90 |
| | | 17°FDB (Outdoor temp.)[*1] | Rated | kW | 1.2 |
| | | | Max. | 3.47 |
| | | 5°FDB (Outdoor temp.)[*2] | Rated | 3.5 |
| | | | Max. | 3.69 |
| Indoor Power Factor | | Cooling | | % | 95.1 |
| | | Heating | | 97 |
| Energy Star | | | | ES, ESCC, ESME |

NOTES:

17°FDB (Outdoor temp.),  
5°FDB (Outdoor temp.)
- – 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).
- – *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).
- – *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.

Indoor Sound Pressure Level,  
Outdoor Sound Pressure Level
- – *4:
- – Measured values in manufacturer's anechoic chamber.
- – Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

Maximum Operating Current
- – *3:
- – 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)

Wiring spec.
- – *6: Selected sample based on Japan Electrotechnical Standards and Codes Committee E0005.
  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.

## ACCESSORIES:

| Model Number | Description |
|---|---|
| UTY-RVRU[*1] | KAGAMI - Touch Panel Wired Controller |
| UTY-RNRUZ5[*1] | Touch Panel Wired Remote Controller |
| UTY-RHRY[*1] | Simple Wired Remote (Without Mode Function) - Hospitality |
| UTY-RSRY[*1] | Simple Wired Remote (With Mode Function) |
| UTY-TWRXZ2 | Communication Kit - Wall Mount |
| FJ-AC-WIFI-1 | Intesis Wi-Fi Device: Wired Module |
| FJ-IR-WIFI-1NA | Intesis IR Wireless AC Cloud Control Interface (Intesis Home app) |
| BM101WA | Cielo Breez MAX IR Controller w/ WiFi (Black) |
| BM102WA | Cielo Breez MAX IR Controller w/ WiFi (White) |
| UTY-VMSX | Modbus Converter |
| UTY-VTGX[*1] | Network Converter - Convert H-Series Comm. Protocol to V/J-Series Comm. |
| FJ-AC-485-1 | Intesis - BACnet MSTP & Modbus RTU Gateway |
| UTY-TERX[*1] | External Switch Controller |
| UTY-TTRXZ1[*1, 2] | 24V Thermostat Interface |
| TTRXZ1-KIT[*1, 2] | 24V Thermostat Interface  Kit (UTY-TTRXZ1, UTY-WIFi Plug & 24V Transformer) |
| UTY-XCSXZ2 | External input and output PCB |
| UTY-XWZX | External Wire Kit |
| UTY-XWZXZ5 | External Connect Kit |
| UTY-DSGYZ2[*3] | Airstage Edge Controller |

NOTES:

*1 –Requires Communication kit UTY-TWRXZ2 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.
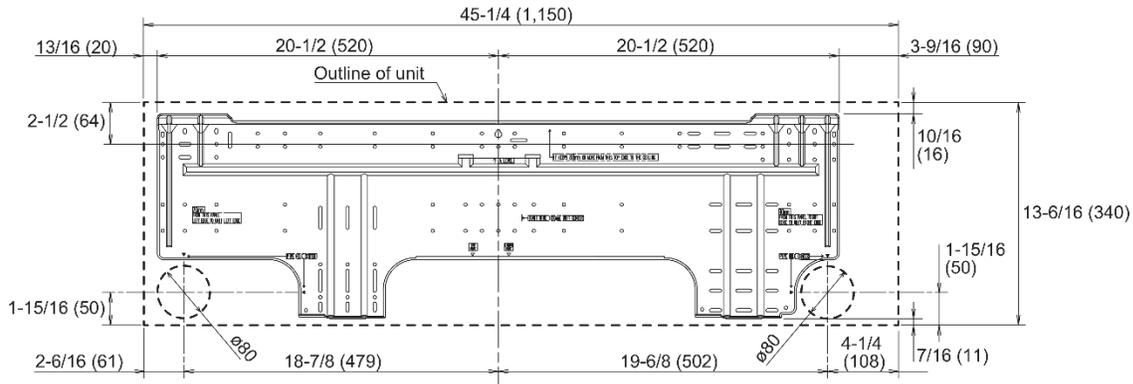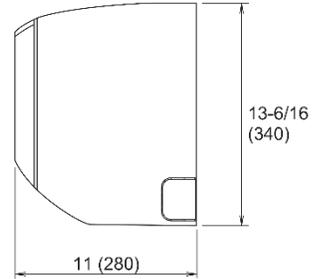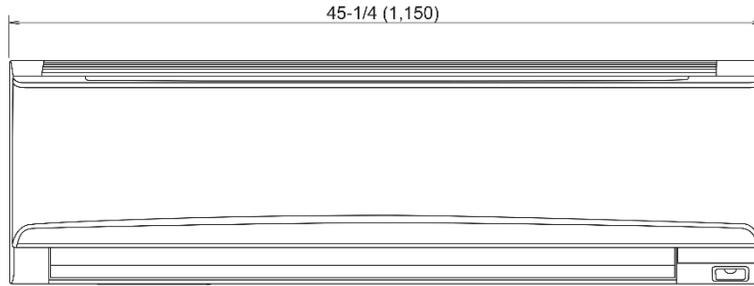
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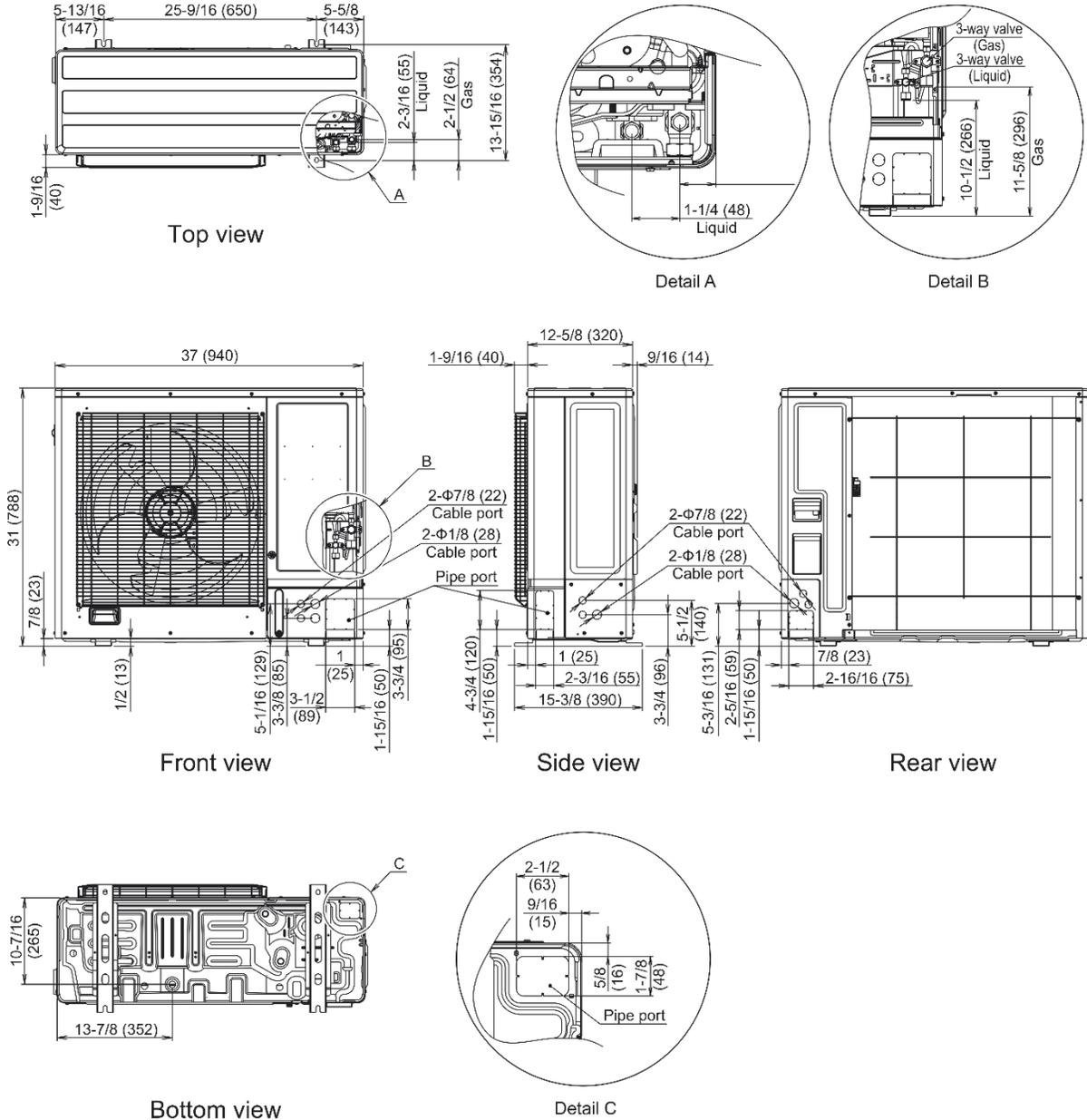
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AIRSTAGE Orion XLTH

## INDOOR UNIT DIMENSIONS:

Unit: in (mm)



45-1/4 (1,150)

13-6/16 (340)

11 (280)



45-1/4 (1,150)

13/16 (20)  20-1/2 (520)  20-1/2 (520)  3-9/16 (90)

Outline of unit

2-1/2 (64)

10/16 (16)

13-6/16 (340)

1-15/16 (50)

1-15/16 (50)

ø80  ø80

4-1/4 (108)

7/16 (11)

2-6/16 (61)  18-7/8 (479)  19-6/8 (502)

## OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)



Top view



Detail A



Detail B



Front view



Side view



Rear view



Bottom view



Detail C