SUBMITTAL - 12KUAS1M

Job Name:_____ Date:_____

Location:_____

Indoor Unit: **AMUH12KUAS**

Outdoor Unit: **AOUH12KUAS1**





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 30 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 100% cooling capacity at 0°F (-17.8°C)
- Up to 33% 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.

ENERGY STAR

Intertek

LISTED

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: 20251124A

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SPECIFICATIONS:

Indoor Unit						**AMUH12KUAS**
Outdoor Unit						**AOUH12KUAS1**
System Name						12KUAS1M
AHRI Number						217290592
SEER2		Cooling			Btu/hW	19.9
EER2						13
HSPF 2 (IV) / HSPF 2 (V)		Heating				10.3 / 8.6
COP2					kW/kW	3.46
Outdoor Operation Range		Cooling			°F (°C)	-5 to 122 (-21 to 50)
		Heating				-5 to 75 (-21 to 24)
Indoor Capacity		Cooling		Rated	Btu/h	12000
				Min.—Max.		3,100—13,600
		Heating	47°FDB (Outdoor temp.)	Rated		16000
				Min.—Max.		3,400—17,800
			17°FDB (Outdoor temp.)*1	Rated		10600
				Max.		16900
			5°FDB (Outdoor temp.)*2	Rated		16100
				Max.		
Outdoor Connection pipe	Size	Liquid			in (mm)	Ø1/4 (Ø6.35)
		Gas				Ø3/8 (Ø9.52)
	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)	101 (45.8)
		Gross				112 (50.8)
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	Airflow rate	Cooling		High	CFM (m^3/h)	500 (850)
				Med		400 (680)
				Low		350 (595)
				Quiet		300 (510)
		Heating		High		500 (850)
				Med		400 (680)
				Low		350 (595)
				Quiet		300 (510)
	Type × Qty					SIROCCO FAN × 1
	Motor output				W	132
Static pressure range					inWG (Pa)	0.08 to 0.80 (20 to 200)
Outdoor Fan	Airflow rate	Cooling			CFM (m^3/h)	1,171 (1,990)
		Heating				1,089 (1,850)
	Type × Qty					PROPELLER FAN × 1
	Motor output				W	49
Indoor Sound Pressure Level*4		Cooling		High	dB (A)	42
				Med		38
				Low		35
				Quiet		31
		Heating		High		41
				Med		36
				Low		33
				Quiet		30
Outdoor Sound Pressure Level*4		Cooling				48
		Heating				49

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SPECIFICATIONS:

Outdoor Refrigerant	Type			R32
	Charge		lb oz	2 lb 4 oz
			g	1020
Additional Charge Calculation			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)	1.29 (2.7)
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		V	208/230
	Frequency		Hz	60
	Available voltage range		V	187—253
Current	Cooling	Rated	A	4.1
	Heating			6.1
Maximum Operating Current*3		Cooling		10.2
		Heating		11.7
Outdoor Starting Current				6.1
MCA*5				14.2
Wiring spec.*6	MAX. CKT. BKR*7			15
Indoor Input Power	Cooling	Rated	kW	0.92
	Heating	47°FDB (Outdoor temp.)		1.36
		17°FDB (Outdoor temp.)*1		1.17
			Max.	2.16
		5°FDB (Outdoor temp.)*2	Rated	2.29
			Max.	
Indoor Power Factor	Cooling		%	97.6
	Heating			96.9
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.

HEATER KIT SPECIFICATIONS:

For 1 Ton System:

Heater Kit	Description	Voltage (V)	Heater kW	Stage	Heater Amps	Min. Ckt. Amp (MCA)	Max. Ckt. Bkr (MCB)
UTZ-EU02MSA	Heater Kit - 2kW, 1 Stage, 208/240V , Single Phase	240	2	1	8.4	10.5	15*
UTZ-EU04MSB2	Heater Kit - 4kW, 2 Stage, 208/240V , Single Phase	240	4	2	8.4/8.4	10.5/10.5	15/15*

*: Breaker not included; to be field supplied

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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
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-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snowhood
UTZ-DUWBG3A	Wind Baffle
UTY-XWZXZK	External 3rd Party Auxiliary Heater Wire Kit (1-stage)
UTY-XWZXZP	External 3rd Party Auxiliary Heater Wire Kit (2-stage)
UTZ-EU02MSA	Heater Kit - 2kW, 1 Stage, 208/240V
UTZ-EU04MSB2	Heater Kit - 4kW, 2 Stage, 208/240V
UTD-DFMSB1	Downflow Configuration Kit
86ET0002	16 x 20 Filter Base, Small Cabinet 12k, 18k, 24k

NOTES:

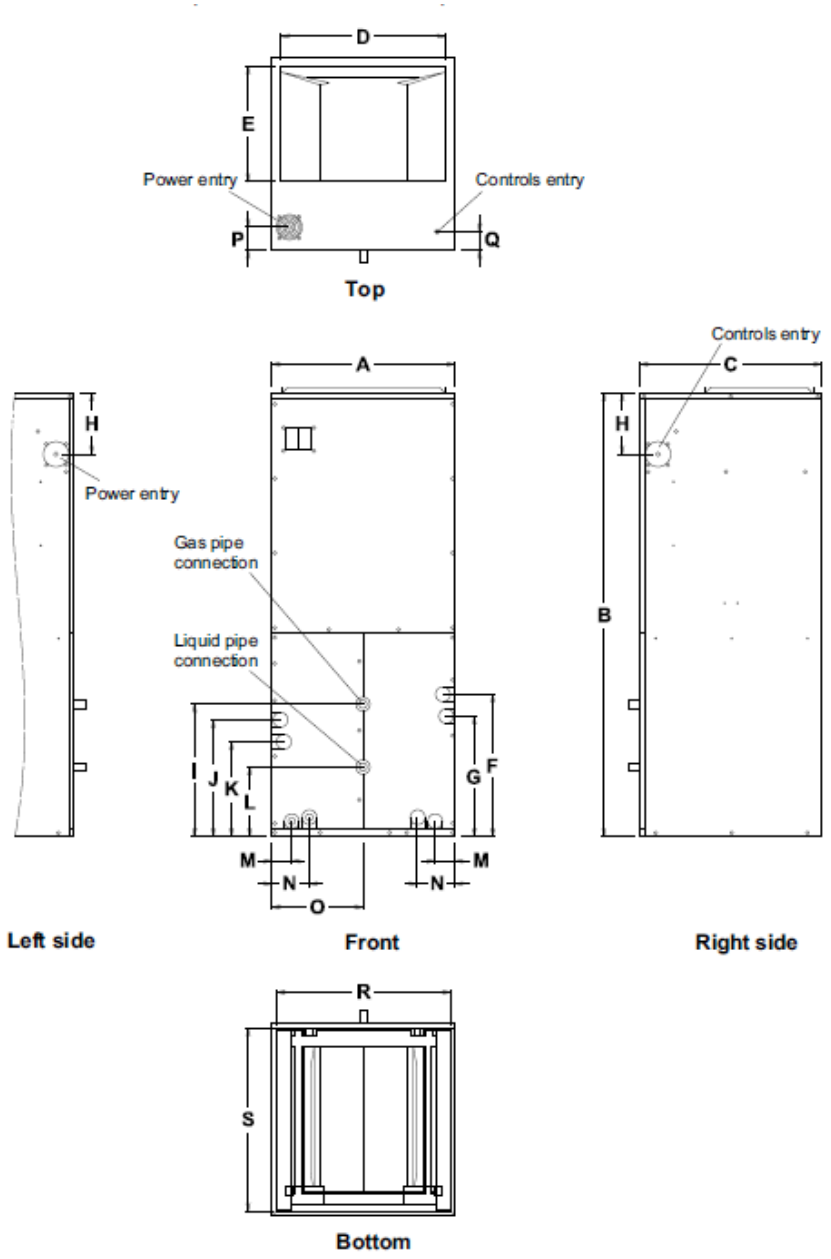
*1 –Requires IR receiver kit UTY-LBTUM to connect this device to IDU.

*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.

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INDOOR UNIT DIMENSIONS:



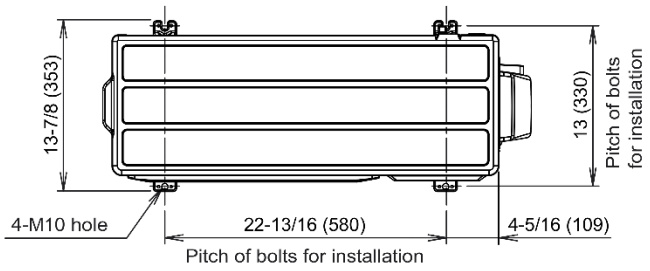
Unit: in (mm)

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)
O	7.47 (189.7)
P	5.00 (127.0)
Q	2.12 (53.8)
R	16.10 (408.9)
S	20.20 (513.1)

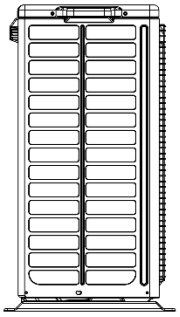
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OUTDOOR UNIT DIMENSIONS:

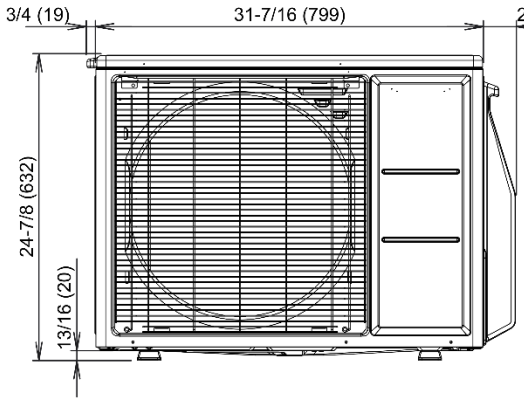
Unit: in (mm)



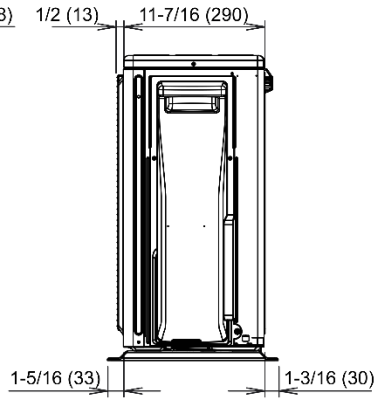
Top view



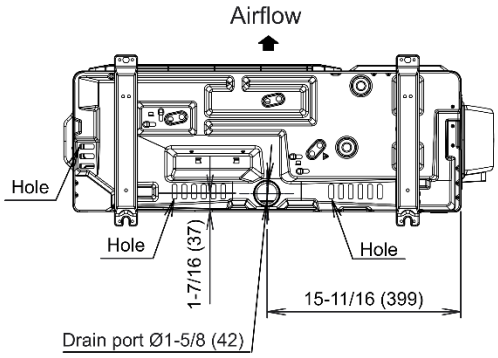
Side view



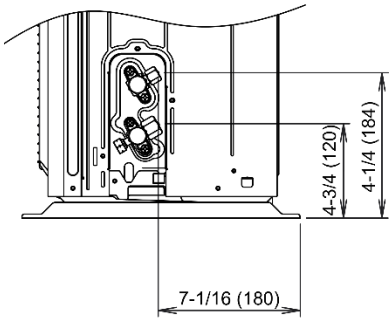
Front view



Side view



Bottom view



Side view (Valve part)

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