

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.



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: 20250619A

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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		kW/kW	10.3 / 8.6	
COP2					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	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				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	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
Outdoor Fan		Static pressure range		inWG (Pa)	0.08 to 0.80 (20 to 200)	
		Airflow rate	Cooling		CFM (m³/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	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				
oz/ft	0.22				
Additional Charge Calculation			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		208/230	
		Frequency		60	
		Available voltage range		187—253	
Current	Cooling		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	Heating	Cooling		0.92	
		47°FDB (Outdoor temp.)		1.36	
		17°FDB (Outdoor temp.)* ¹		1.17	
				2.16	
		5°FDB (Outdoor temp.)* ²		2.29	
Indoor Power Factor		Cooling		97.6	
		Heating		96.9	
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.)
- 5°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).
- *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.
- 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-DUHGG2A	Hail Guard
UTZ-DUSHG2A	Snowhood
UTZ-DUWBG2A	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

NOTES:

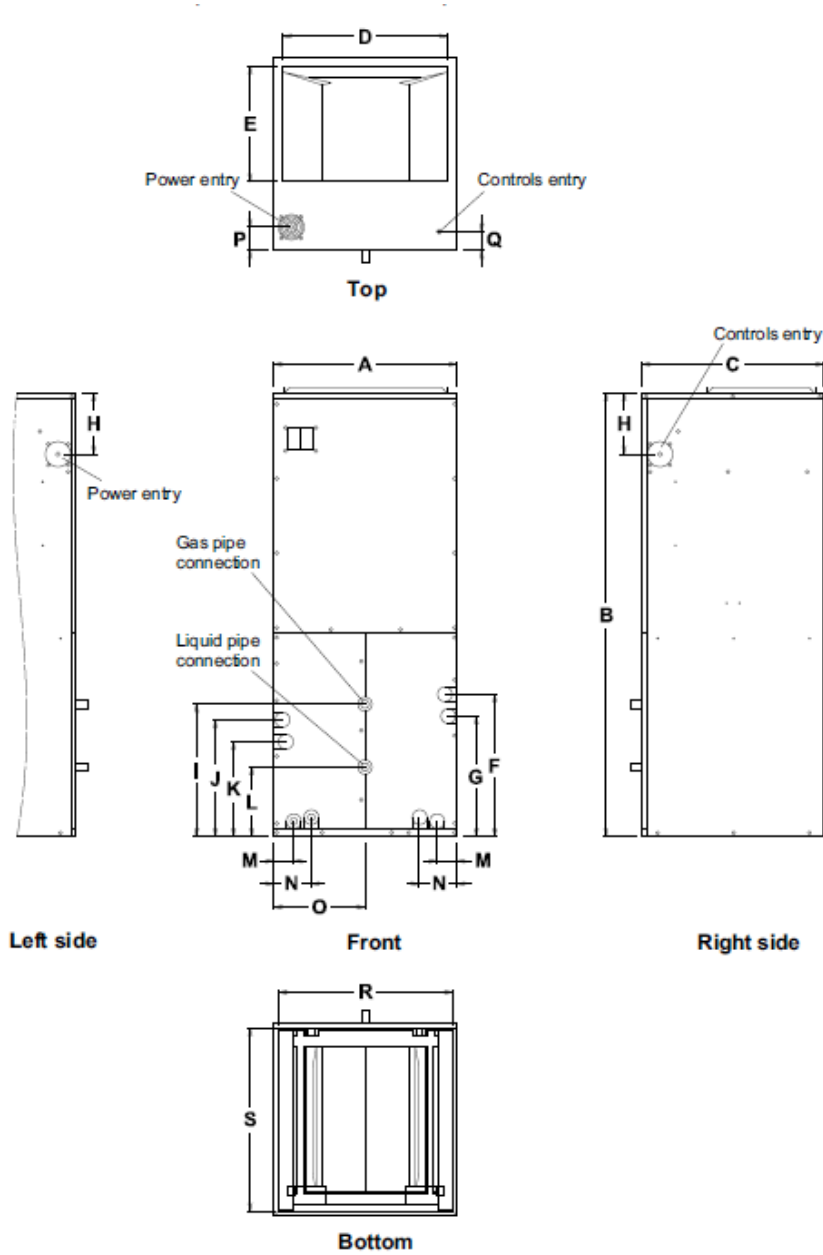
*1 -Requires IR receiver kit UTY-LBTUM to connect this device to IDU.

*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:



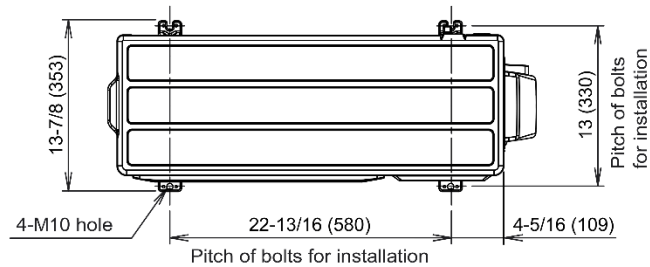
Unit: in(mm)

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)
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)

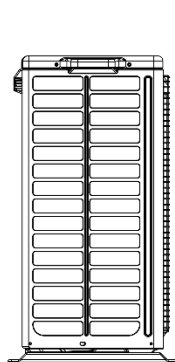
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OUTDOOR UNIT DIMENSIONS:

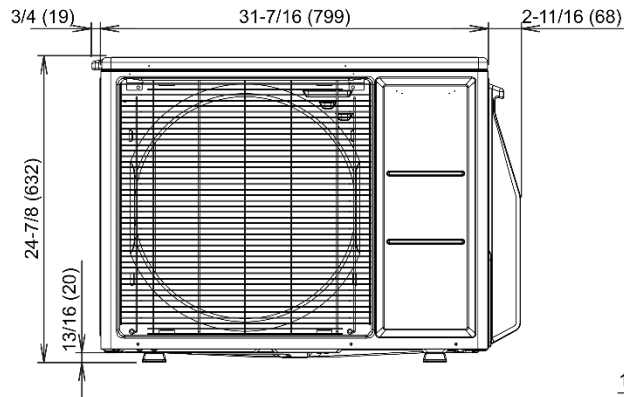
Unit: in (mm)



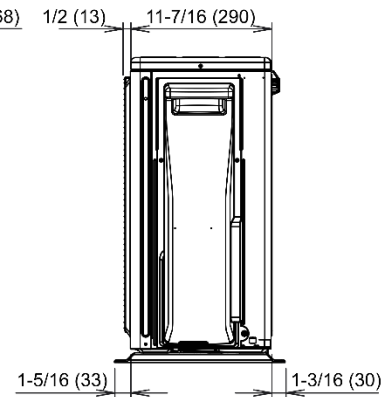
Top view



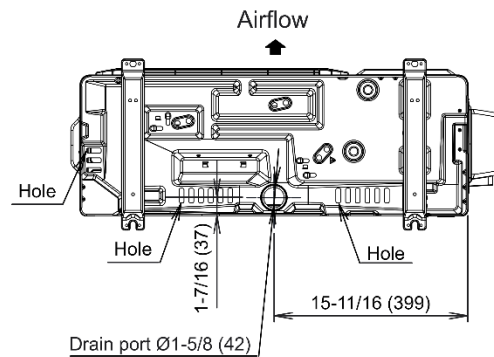
Side view



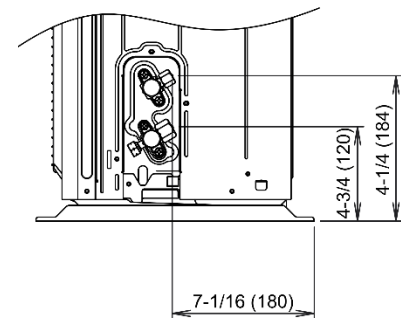
Front view



Side view



Bottom view



Side view (Valve part)

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