

SUBMITTAL - 12KUBS1M

Job Name: _____

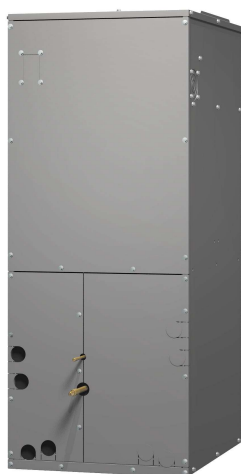
Date: _____

Location: _____

R32

Indoor Unit: **AMUH12KUAS**

Outdoor Unit: **AOUH12KUBS1**



FEATURES

INDOOR UNIT:

- Ducted Multi-Position Air Handling Unit ideal for whole home cooling and heating
- Multi-position configuration: Up flow, Left, Right, or Downflow (Optional Downflow kit required)
- Low-noise design with sound levels as low as 30 dB
- 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/ Automatic defrosting operation / 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 third-party interface connectivity for expanded integration
 - 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 electric heater kits for additional heat capacity
- Emergency heat supported via external output terminal and configurable through function settings
- Integrated backup heat control provides reliable operation in extreme conditions
- Service monitoring functionality via compatible accessories (UTY-RVRU & UTY-RNRUZ-series)
- Supports 24Vac thermostat connections for third-party control integration
- Ideal for installation in zero-clearance applications (e.g. mobile homes, manufactured homes)
- Low air leakage rate of less than 2%, tested per ASHRAE Standard 193
- 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
- Up to 100% cooling capacity at 0°F
- 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 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>

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SPECIFICATIONS:

Indoor Unit				AMUH12KUAS	
Outdoor Unit				AOUH12KUBS1	
System Name				12KUBS1M	
AHRI Reference #				217734523	
Efficiency	SEER2		Btu/hW	19.9	
	EER2			13	
	HSPF 2 (IV) / HSPF 2 (V)			10.3 / 8.6	
	COP2		kW/kW	3.46	
Energy Star ⁹				ES, ESCC, ESME	
Operation Range	Cooling		°F (°C)	-5 to 122*2 (-21 to 50*2)	
	Heating			-5 to 75 (-21 to 24)	
Capacity	Cooling		Rated	Btu/h	12,000
					Min.—Max.
	Heating	47°FDB (Outdoor temp.)	Rated		16,000
			Min.—Max.		3,400—17,800
		17°FDB (Outdoor temp.)* ¹	Rated		10,600
			Max.		16,900
		5°FDB (Outdoor temp.)* ²	Rated		16,100
			Max.		16,100
Connection pipe	Size		Liquid	in (mm)	Ø1/4 (Ø6.35)
			Gas		Ø3/8 (Ø9.52)
	Method			Flare	
	Pre-charge length		ft (m)	65 (20)	
	Min. length			17 (5)	
	Max. length			98 (30)	
Max. height difference		49 (15)			
Indoor Dimensions (H x W x D)	Net		in (mm)	43 x 17-1/2 x 21 (1,092 x 444 x 533)	
	Gross			45 x 19-3/4 x 26-3/4 (1,143 x 502 x 679)	
Indoor Weight	Net		lb (kg)	101 (45.8)	
	Gross			112 (50.8)	
Outdoor Dimensions (H x W x D)	Net		in (mm)	24-7/8 x 31-7/16 x 11-7/16 (632 x 799 x 290)	
	Gross			27-1/4 x 37 x 14-3/4 (692 x 940 x 375)	
Outdoor Weight	Net		lb (kg)	84 (38)	
	Gross			93 (42)	
Indoor Fan	Airflow rate	Cooling	High	CFM (m³/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 x Qty			Sirocco fan x 1	
	Motor output		W	132	
Static pressure range			inWG (Pa)	0.08 to 0.80 (20 to 200)	
Outdoor Fan	Airflow rate	Cooling	CFM (m³/h)	1,171 (1,990)	
		Heating		1,089 (1,850)	
	Type x Qty			Propeller fan x 1	
Indoor Sound Pressure Level*4	Motor output		W	49	
	Cooling	High	dB (A)	42	
		Med		38	
		Low		35	
		Quiet		31	
	Heating	High		41	
		Med		36	
		Low		33	
		Quiet		30	
		Cooling			48

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SPECIFICATIONS:

	Heating				49	
Refrigerant	Type				R32	
	Charge		lb oz	2 lb 4 oz		
			g	1020		
	Additional Charge Calculation		oz/ft	0.22		
g/m			20			
Refrigerant Oil	Type			RmM68AF		
	Amount		in 3 (cm3)	24.4 (400)		
Moisture removal			pints/h (L/h)	1.29 (2.7)		
Drain hose(IU)	Material			0		
	Tip Diameter			in (mm)	0	
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)	
Electrical	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	
	Minimum Circuit Ampacity* ⁵				14.2	
	Wiring spec.* ⁶				15	
MAX. CKT. BKR* ⁷						
Input Power	Cooling		Rated		kW	0.92
			Min.—Max.			1.47
	Heating	47°FDB (Outdoor temp.)		Rated		1.36
				Min.—Max.		1.9
		17°FDB (Outdoor temp.)* ¹		Rated		1.17
				Max.		2.16
		5°FDB (Outdoor temp.)* ²		Rated		2.29
				Max.		2.29
Power Factor	Cooling			%	97.6	
	Heating				96.9	

Notes:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 80°FDB/67°FWB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°FWB (35°CDB/23.9°CWB).
 - Heating: Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°FWB (8.33°CDB/6.11°CWB).
 - *1: Heating (17°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°FWB (-8.33°CDB/-9.44°CWB).
 - *2: Heating (5°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°FWB (-15.0°CDB/-15.56°CWB).
 - Test conditions are based on AHRI 210/240 2023.
 - Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)
- *3: Maximum current:
 - The maximum value when operated within the operation range.
 - The total current of indoor unit and outdoor unit.
- *4: Sound pressure level:
 - 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
- *5: Minimum Circuit Ampacity (Calculation based on UL60335-2-40)
- *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.

- *7: Maximum Circuit Breaker
- *8: Suction Temperature of the Outdoor Unit
- *9: Energy Star: ES = Energy Star, ESCC = Energy Star Cold Climate, ESME = Energy Star Most Efficient

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

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ACCESSORIES:

Model Number	Description
UTY-RVRU	KAGAMI - Wired Remote Controller
UTY-RNRUZ-Series * ^{3, 5}	Wired Remote Controller
UTY-RHRYZ-Series * ^{4, 5}	Wired Remote Controller - Hospitality
UTY-RSRYZ-Series * ^{4, 5}	Simple Wired Remote Controller
AR-REJ1U * ⁶	Wireless Remote Controller
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
UTY-VMSX	Modbus Converter
UTY-VTGX	Network Converter - Convert H-Series Comm. Protocol to V/J-Series Comm. Protocol (Pink Wire)
FJ-AC-485-1	Intesis - BACnet MSTP & Modbus RTU Gateway,
UTY-TERX	External Switch Controller
UTY-TTRXZ-Series * ²	24V Thermostat Interface
TTRXZ1-KIT * ²	24V Thermostat Interface Kit (UTY-TTRXZ1, UTY-WIFI Plug & 24V Transformer)
UTY-XSZXZ1	Remote Temperature Sensor
UTZ-GXRA	External input and output PCB box
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, Single Phase
UTZ-EU04MSB2	Heater Kit - 4kW, 2 Stage, 208/240V, Single Phase
UTD-DFMSB1	Downflow Configuration Kit , Small Cabinet : 12k ,18k, 24k
86ET0002	16 x 20 Filter Base, Small Cabinet: 12k, 18k, 24k
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snow Hood
UTZ-DUWBG3A	Wind Baffle
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snow Hood
UTZ-DUWBG3A	Wind Baffle

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 Refrigerant Leak Detection function is only available when using version Z6 or later

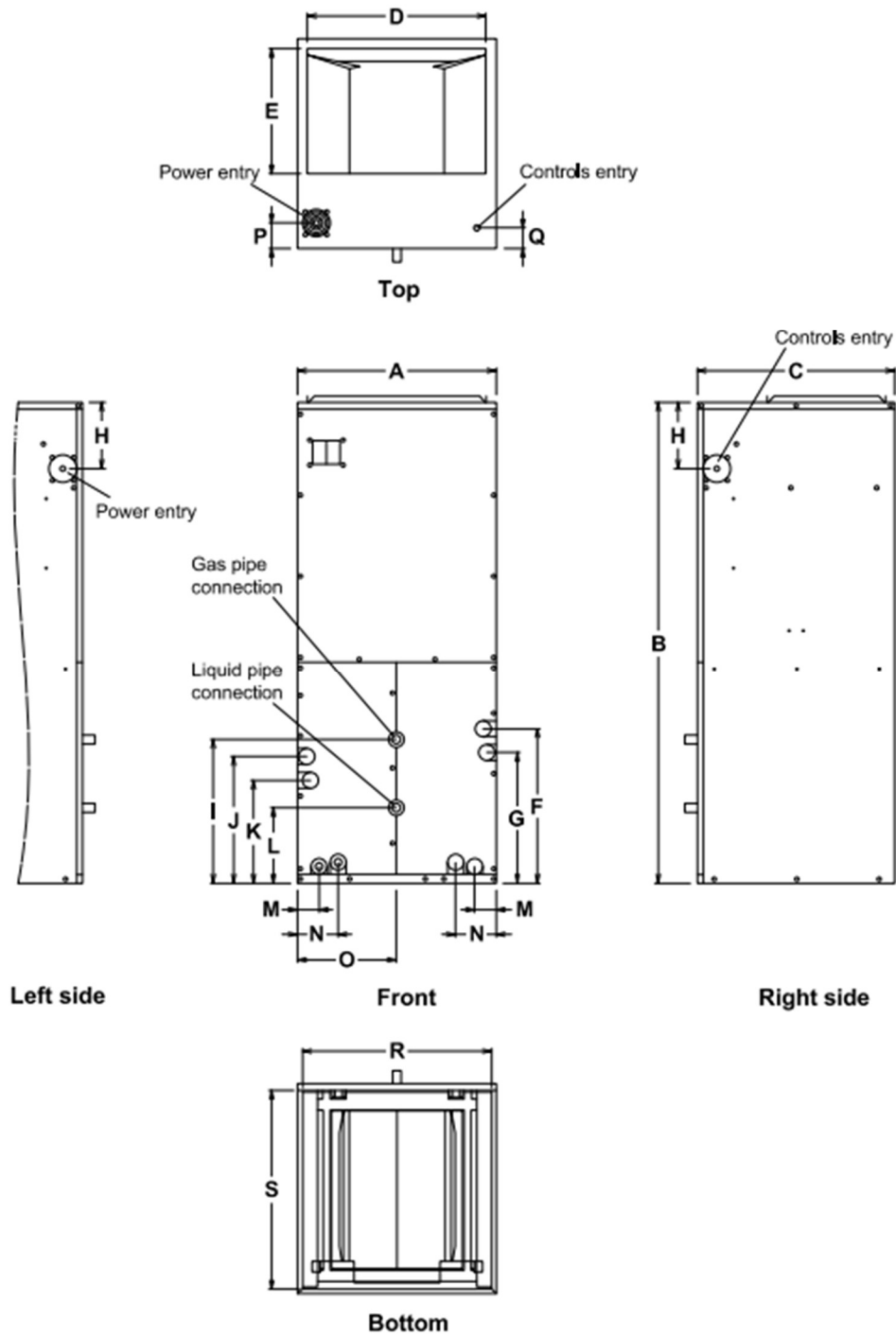
*⁴ Refrigerant Leak Detection function is only available when using version Z1 or later

*⁵ No buzzer sound.

*⁶ Included in IR Receiver Kit with Wireless Remote Controller.

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INDOOR UNIT DIMENSIONS:



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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)

