

SUBMITTAL - 12KUBS1R

Job Name: _____

Date: _____

Location: _____

R32

Indoor Unit: **ARUH12KUAS**

Outdoor Unit: **AOUH12KUBS1**



FEATURES

INDOOR UNIT:

- Mid Static Duct indoor unit delivering superior comfort and energy-efficient performance
- Indoor unit with ProCore™ (High Corrosion Resistant Copper) coils for long-lasting protection against corrosion
- Whisper-quiet operation with sound levels as low as 24dB
- Multiple fan speed options; Auto, High, Med, 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:
 - Seamless control using the optional IR Receiver and Wireless Remote Controller kit (UTY-LBTUM)
 - Optional Wi-Fi connectivity enables remote monitoring through the Airstage Mobile App
 - 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
- Built-in drain pump for efficient water removal making installation and maintenance easier
- Features automatic static pressure detection for optimal airflow and system efficiency
- Wide external static pressure range of up to 0.8 inWG for adaptable performance
- Offers group control, allowing seamless management of multiple units simultaneously
- Equipped with a built-in refrigerant leak detection sensor for enhanced safety and reliability.
- 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)
 - Supports compatibility with the Airzone third-party communicating zoning system for optimized zoning control
 - Multiple Auxiliary Heat logic options for optimized heating performance
 - Service monitoring functionality via compatible accessories (UTY-RVRU & UTY-RNRUZ-series)
 - Flexible intake configuration with side or bottom options to meet installation requirements.

OUTDOOR UNIT:

- Low GWP R-32 systems for reduced environmental impact
- INVERTER-driven compressor that offers superior performance, comfort, and energy savings
- Compact outdoor unit with extended line set lengths up to 98ft (30m)
- Up to 33% higher rated heating capacity than nominal capacity
- 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				ARUH12KUAS	
Outdoor Unit				AOUH12KUBS1	
System Name				12KUBS1R	
AHRI Reference #				217734522	
Efficiency	SEER2		Btu/hW	19.1	
	EER2			12.7	
	HSPF 2 (IV) / HSPF 2 (V)			10.5 / 8.9	
	COP2		kW/kW	3.76	
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		Btu/h	12,000	
				3,100—13,600	
	Heating	47°FDB (Outdoor temp.)		16,000	
				3,400—19,400	
		17°FDB (Outdoor temp.)* ¹		10,700	
				17,300	
		5°FDB (Outdoor temp.)* ²		15,500	
				15,500	
Connection pipe	Size		in (mm)	Ø1/4 (Ø6.35)	
				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)	11-13/16 × 27-9/16 × 27-9/16 (300 × 700 × 700)	
	Gross			15-3/4 × 36-15/16 × 34-7/16 (400 × 938 × 875)	
Indoor Weight	Net		lb (kg)	66 (30)	
	Gross			82 (37)	
Outdoor Dimensions (H x W x 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		347 (590)
		Quiet	300 (510)		
		Heating	High		500 (850)
			Med		400 (680)
			Low		347 (590)
			Quiet		300 (510)
	Type x Qty			Sirocco fan × 1	
	Motor output		W	154	
Static pressure range			inWG (Pa)	0.12 to 0.80 (30 to 200)	
Outdoor Fan	Airflow rate	Cooling	CFM (m ³ /h)	1,171 (1,990)	
		Heating		1,089 (1,850)	
	Type x Qty			Propeller fan × 1	
	Motor output		W	49	
Indoor Sound Pressure Level* ⁴	Cooling	High	dB (A)	35	
		Med		30	
		Low		27	
		Quiet		24	
	Heating	High		35	
		Med		30	
		Low		27	
		Quiet		24	
Outdoor Sound Pressure Level* ⁴	Cooling			48	

SUBMITTAL - 12KUBS1R

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)		1.5 (0.7)	
Drain hose(IU)	Material				Polyvinyl chloride	
	Tip Diameter		in (mm)		I.D.: Ø13/16 (Ø20.7), O.D.: Ø1-1/16 (Ø26.6)	
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	4.2	
		Heating			5.5	
	Maximum Operating Current* ³	Cooling			10.2	
		Heating			11.7	
	Outdoor Starting Current					5.5
	Minimum Circuit Ampacity* ⁵					14.2
	Wiring spec.* ⁶		MAX. CKT. BKR* ⁷		15	
Input Power	Cooling		Rated	kW	0.94	
			Min.—Max.		1.45	
	Heating	47°FDB (Outdoor temp.)	Rated		1.25	
		17°FDB (Outdoor temp.)* ¹	Min.—Max.		1.84	
			Rated		1.07	
		5°FDB (Outdoor temp.)* ²	Max.		2.12	
			Rated		2.25	
			Max.		2.25	
Power Factor	Cooling		%	97.3		
	Heating			98.8		

Notes:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 80°FDB/67°FDB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°FDB (35°CDB/23.9°CWB).
 - Heating: Indoor temperature of 70°FDB/60°FDB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°FDB (8.33°CDB/6.11°CWB).
 - *1: Heating (17°F): Indoor temperature of 70°FDB/60°FDB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°FDB (-8.33°CDB/-9.44°CWB).
 - *2: Heating (5°F): Indoor temperature of 70°FDB/60°FDB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°FDB (-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-GXNA	External input and output PCB Bracket
UTD-LFNC	Long Life Filter
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

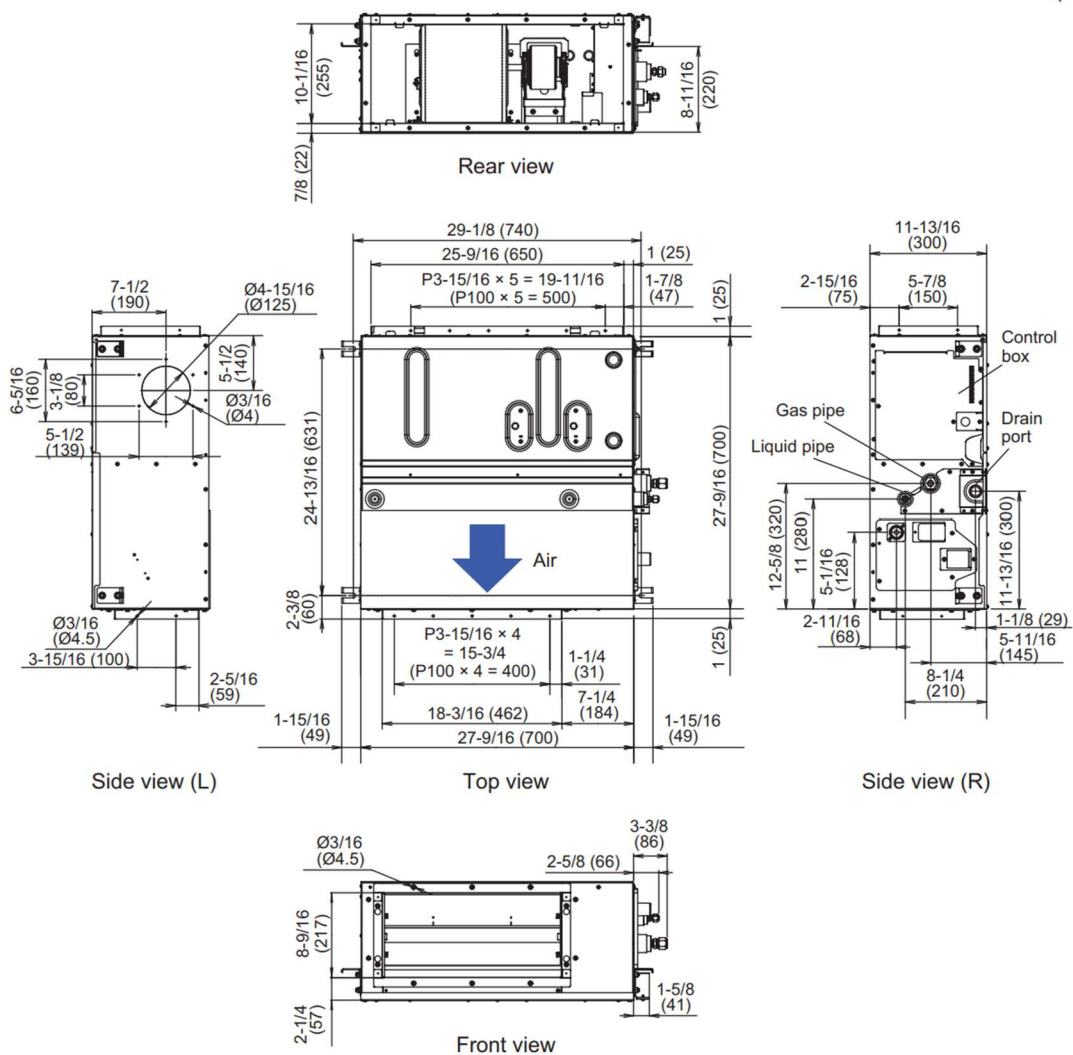
*⁵ No buzzer sound.

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

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INDOOR UNIT DIMENSIONS:

Unit: in (mm)



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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)

