SUBMITTAL - 12KUAS1R

Job Name:_____ Date:_____

Location:_____

R32

Indoor Unit: **ARUH12KUAS**

Outdoor Unit: **AOUH12KUAS1**





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.

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: 20251015A

FUJITSU

AIRSTAGE Centauri

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SPECIFICATIONS:

Indoor Unit						**ARUH12KUAS**
Outdoor Unit						**AOUH12KUAS1**
System Name						12KUAS1R
AHRI Number						215434556
SEER2		Cooling			Btu/hW	19.1
EER2						12.7
HSPF 2 (IV) / HSPF 2 (V)		Heating				10.5 / 8.9
COP2					kW/kW	3.76
Outdoor Operation Range		Cooling			°F (°C)	-5 to 122*8 (-21 to 50*8)
		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—19,400
			17°FDB (Outdoor temp.)*1	Rated		10700
				Max.		17300
			5°FDB (Outdoor temp.)*2	Rated		15500
				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)	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 × 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		347 (590)
				Quiet		300 (510)
		Heating		High		500 (850)
				Med		400 (680)
				Low		347 (590)
				Quiet		300 (510)
	Type × 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 × 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
		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)	1.5 (0.7)
Indoor Drain hose	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)
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	A	4.2
	Heating			5.5
Maximum Operating Current[*3]		Cooling		10.2
		Heating		11.7
Outdoor Starting Current				5.5
MCA[*5]				11.7
Wiring spec.[*6]	MAX. CKT. BKR[*7]			15
Indoor Input Power	Cooling	Rated	kW	0.94
	Heating	47°FDB (Outdoor temp.)		1.25
		17°FDB (Outdoor temp.)[*1]		1.07
			Max.	2.12
		5°FDB (Outdoor temp.)[*2]	Rated	2.25
			Max.	
Indoor Power Factor	Cooling		%	97.3
	Heating			98.8
Energy Star[*9]				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.

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

Operation Range – *8: Suction temperature of the outdoor unit.

Energy Star – *9 : 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 - 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 (Mid-Static Ducted)
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
UTZ-GXNA	External input and output PCB Bracket
UTD-LFNC	Long Life Filter (12k units)
UTY-DSGYZ2*3	Airstage Edge Controller
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snowhood
UTZ-DUWBG3A	Wind Baffle

NOTES:

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

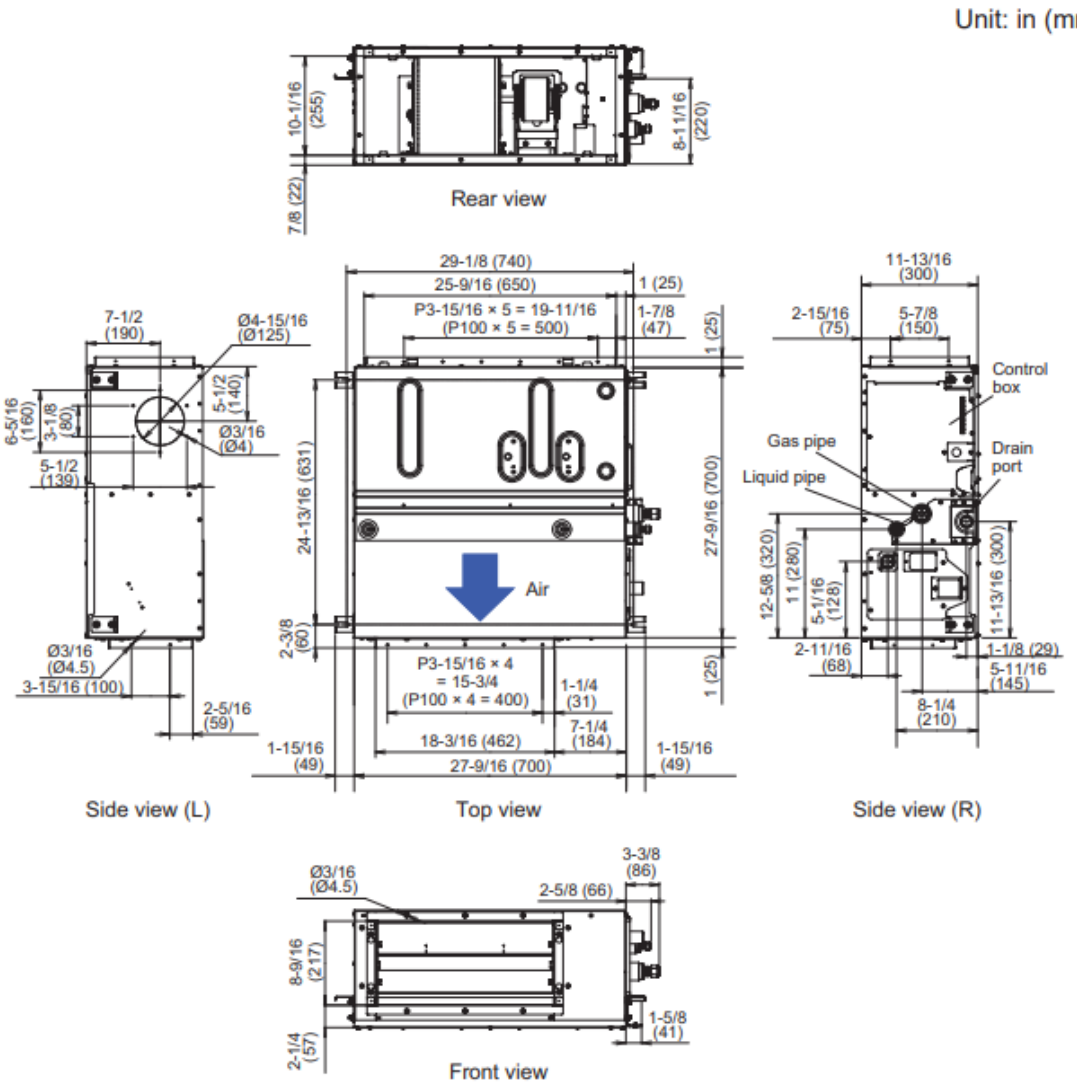
*2 –This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

*3 –Connection to AIRSTAGE Cloud requires a compatible AIRSTAGE Mobile adapter connected to the IDU.

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INDOOR UNIT DIMENSIONS:

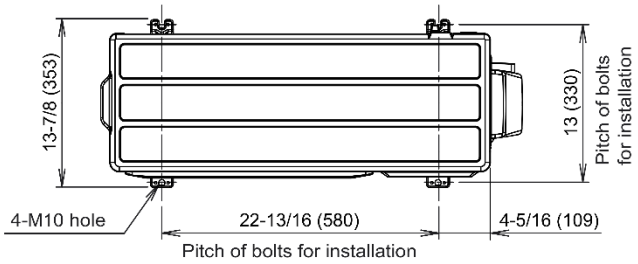
Unit: in (mm)



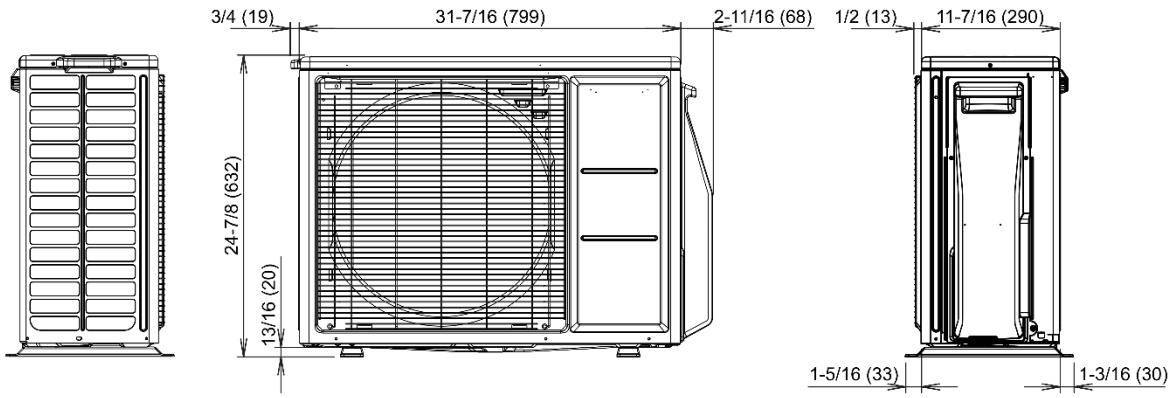
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OUTDOOR UNIT DIMENSIONS:

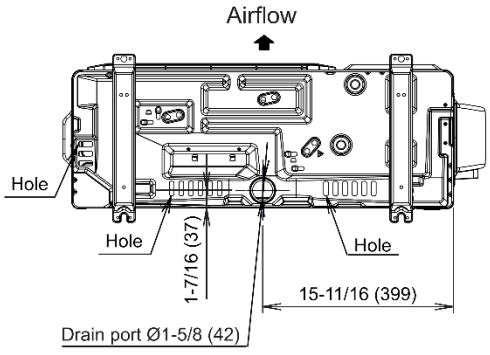
Unit: in (mm)



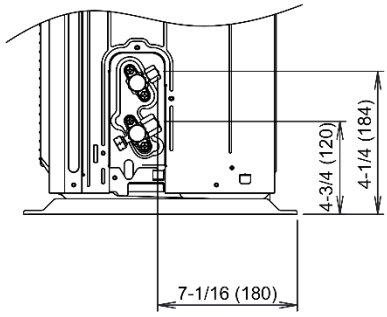
Top view



Side view | Front view | Side view



Bottom view



Side view (Valve part)

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