FUJITSU

AIRSTAGE Centauri

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 WARRANTY
7 Year Compressor, 5 Year Parts out-of-the-box Warranty.

10 Year WARRANTY Compressor & Parts
10 Year Compressor, 10 Year Parts Warranty when registered within 60 days of installation in a residence.

12 Year WARRANTY Compressor & Parts
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

ETL Intertek

UL LISTED

CSA

Version: 20250106A

SPECIFICATIONS:

Indoor Unit					**ARUH12KUAS**
Outdoor Unit					**AOUH12KUAS1**
System Name					12KUAS1R
AHRI Number					215434556
SEER2		Cooling		Btu/hW	19.1
EER2					12.7
HSPF2		Heating		kW/kW	10.5
COP2					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
			47°FDB (Outdoor temp.) Min.—Max.		3,400—19,400
			17°FDB (Outdoor temp.)[1] Rated		10700
			17°FDB (Outdoor temp.)[1] Max.		17300
			5°FDB (Outdoor temp.)[2] Rated		15500
			5°FDB (Outdoor temp.)[2] 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 (m³/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 (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	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

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		in³ (cm³)	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.) Rated		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:

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

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.

Version: 20250106A

3

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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-DUHGG2A	Hail Guard
UTZ-DUSHG2A	Snowhood
UTZ-DUWBG2A	Wind Baffle

NOTES:

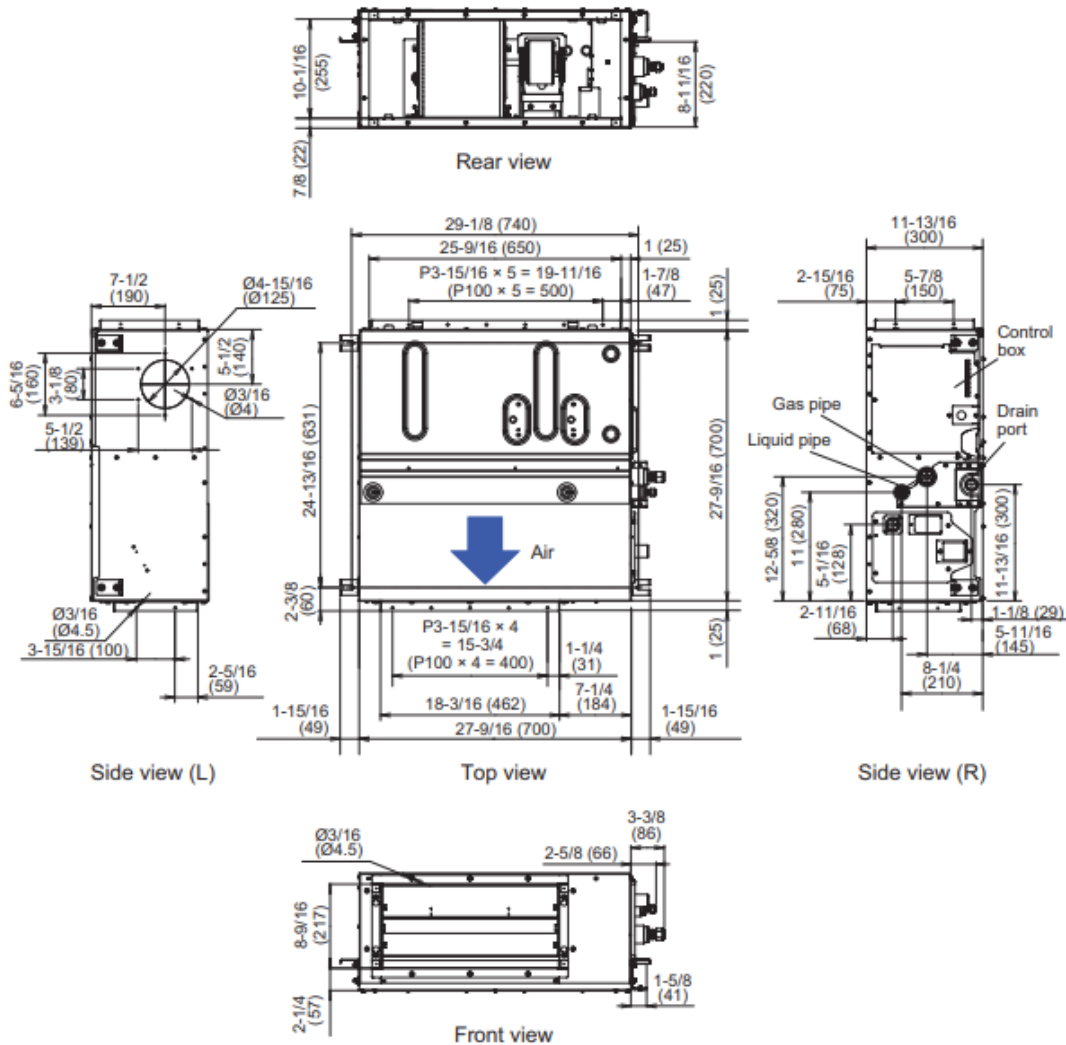*1 –Requires IR receiver kit UTY-LBTUM to connect this device to IDU.

*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.

INDOOR UNIT DIMENSIONS:

Unit: in (mm)

Rear view

Side view (L)

Top view

Side view (R)

Front view

Version: 20250106A

5

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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)

Top view

Side view

Front view

Side view

Airflow

Hole
Hole
Hole
1-7/16 (37)
15-11/16 (399)
Drain port Ø1-5/8 (42)

Bottom view

4-3/4 (120)
4-1/4 (184)
7-1/16 (180)

Side view (Valve part)

Version: 20250106A