

SUBMITTAL - 18KUAS1R

Job Name: _____

Date: _____

Location: _____

R32

Indoor Unit: **ARUH18KUAS**

Outdoor Unit: **AOUH18KUAS1**



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 20% 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.



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SPECIFICATIONS:

Indoor Unit					ARUH18KUAS			
Outdoor Unit					AOUH18KUAS1			
System Name					18KUAS1R			
AHRI Number					215434557			
SEER2		Cooling			Btu/hW	18.6		
EER2						11.7		
HSPF2		Heating			kW/kW	10.3		
COP2						3.64		
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	18000		
				Min.—Max.		3,100—20,100		
		Heating	47°FDB (Outdoor temp.)	Rated		21600		
				Min.—Max.		3,100—25,600		
			17°FDB (Outdoor temp.) ¹	Rated		14400		
				Max.		19300		
			5°FDB (Outdoor temp.) ²	Rated		17100		
				Max.				
Outdoor Connection pipe	Size	Liquid			in (mm)	Ø1/4 (Ø6.35)		
		Gas				Ø1/2 (Ø12.70)		
	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 × 39-3/8 × 27-9/16 (300 × 1,000 × 700)		
		Gross				15-3/4 × 48-3/4 × 34-7/16 (400 × 1,238 × 875)		
Indoor Weight		Net			lb (kg)	90 (41)		
		Gross				108 (49)		
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)	618 (1,050)		
				Med		494 (840)		
				Low		430 (730)		
				Quiet		371 (630)		
		Heating		High		618 (1,050)		
				Med		494 (840)		
				Low		430 (730)		
				Quiet		371 (630)		
		Type × Qty					SIROCCO FAN × 2	
		Motor output				W	197	
	Static pressure range					inWG (Pa)	0.12 to 0.80 (30 to 200)	
	Outdoor Fan	Airflow rate	Cooling			CFM (m³/h)	1,318 (2,240)	
Heating			1,154 (1,960)					
Type × Qty					PROPELLER FAN × 1			
Motor output				W	49			
Indoor Sound Pressure Level ¹⁴		Cooling		High	dB (A)	34		
				Med		29		
				Low		26		
				Quiet		24		
		Heating		High		34		
				Med		29		
				Low		26		
				Quiet		24		
Outdoor Sound Pressure Level ¹⁴		Cooling				52		
		Heating				55		

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SPECIFICATIONS:

Outdoor Refrigerant		Type		R32	
		Charge	lb oz	2 lb 12 oz	
			g	1250	
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)	3.4 (1.6)	
Indoor Drain hose		Material		POLYVINYL CHLORIDE	
		Tip Diameter		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		208/230	
		Frequency		60	
		Available voltage range		187—253	
Indoor Current	Cooling		A	6.8	
	Heating			7.6	
Maximum Operating Current ^{*3}				Cooling	12.2
				Heating	14.8
Outdoor Starting Current				7.6	
MCA ^{*5}				14.8	
Wiring spec. ^{*6}		MAX. CKT. BKR ^{*7}		20	
Indoor Input Power	Heating	Cooling		kW	1.53
		47°FDB (Outdoor temp.)			1.73
		17°FDB (Outdoor temp.) ^{*1}			1.45
		5°FDB (Outdoor temp.) ^{*2}			2.44
					2.32
Indoor Power Factor	Cooling			%	97.8
	Heating				99
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.).
- *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).
- 5°FDB (Outdoor temp.).
- *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 E0005.
- 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
- 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-LFNB	Long Life Filter (18/24/30k 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.

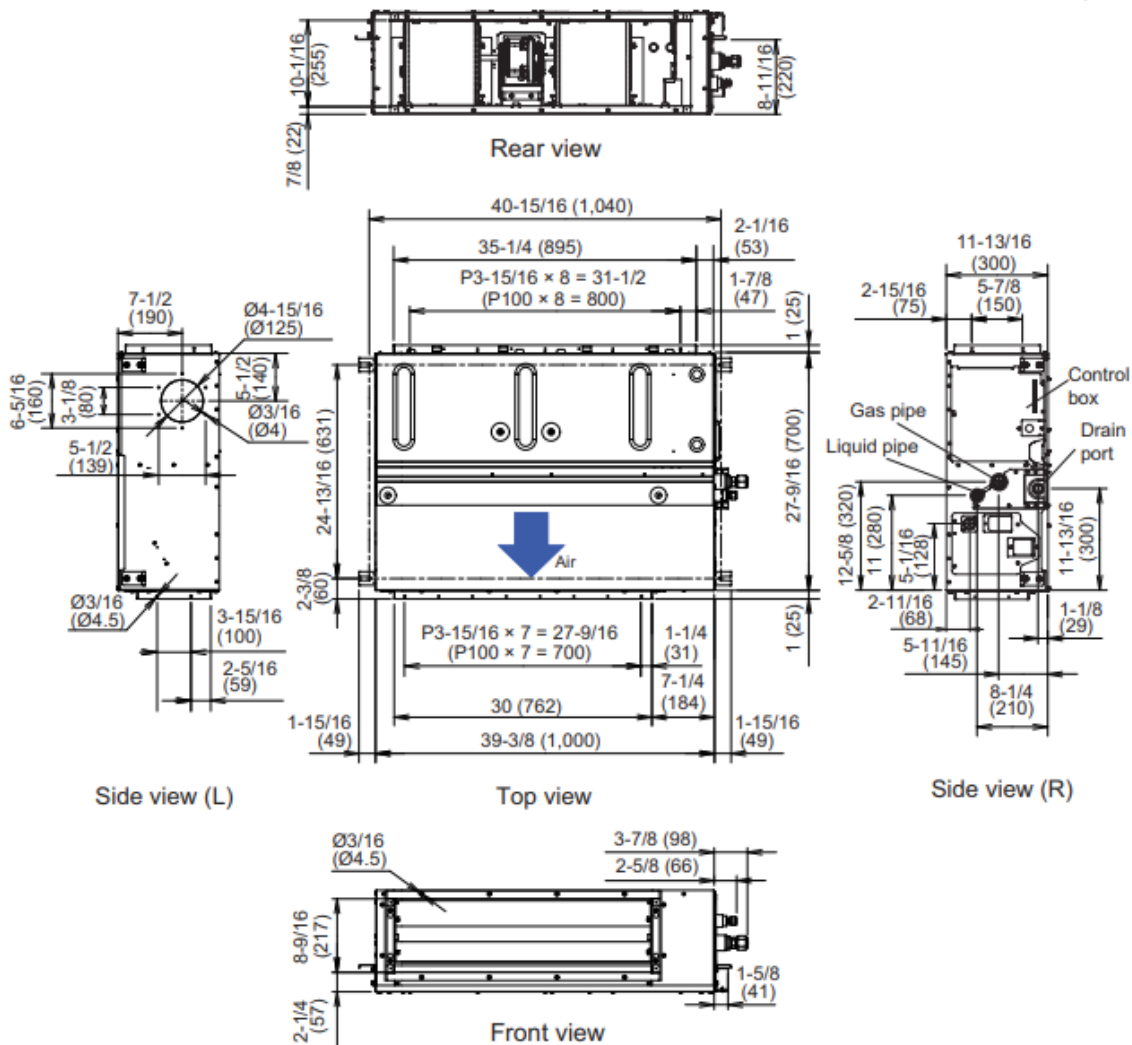
*2 -This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

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INDOOR UNIT DIMENSIONS:

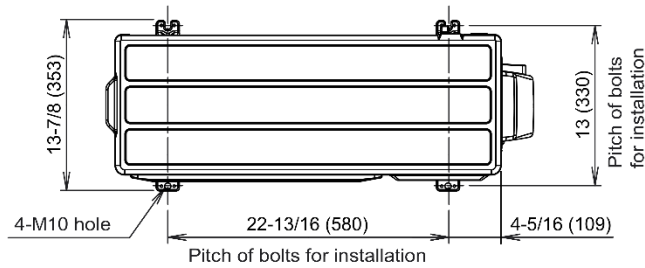
Unit: in (mm)



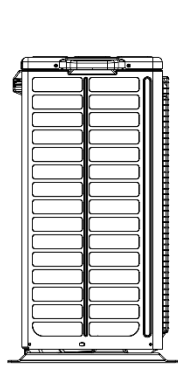
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OUTDOOR UNIT DIMENSIONS:

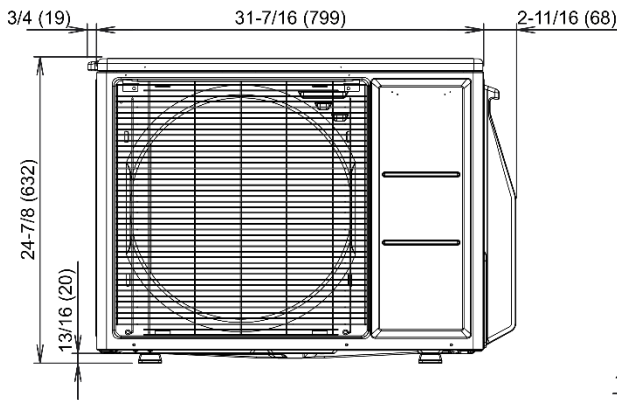
Unit: in (mm)



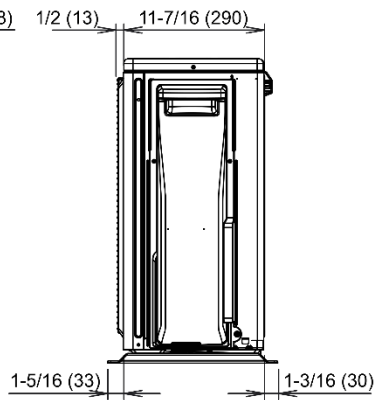
Top view



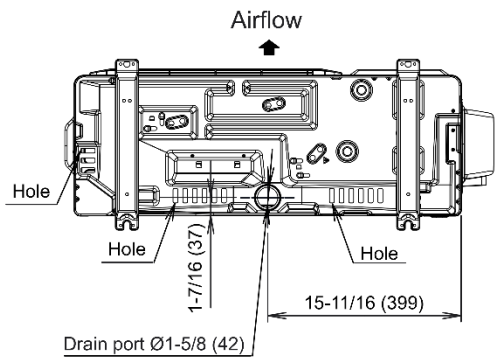
Side view



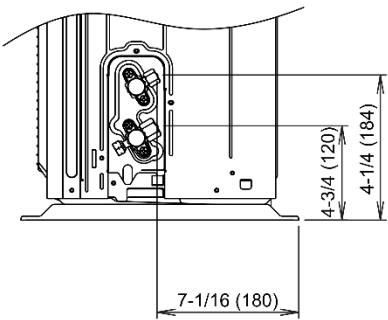
Front view



Side view



Bottom view



Side view (Valve part)

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