

SUBMITTAL - 48KUAS1R

Job Name: _____

Date: _____

Location: _____

Indoor Unit:



R32

ARUH48KUAS

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 29dB
- 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:



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.

AOUH48KUAS1

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 246ft (75m)
- Provides low ambient cooling and heating down to -5°F for dependable performance in extreme conditions.
- Blue Fin-coated heat exchanger for improved corrosion resistance and coil durability



Due to continuous product improvements, specifications are subject to change without notice.

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SPECIFICATIONS:

Indoor Unit			ARUH48KUAS	
Outdoor Unit			AOUH48KUAS1	
System Name			48KUAS1R	
AHRI Number			215812203	
SEER2	Cooling	Btu/hW	16.4	
EER2			9.8	
HSPF 2 (IV) / HSPF 2 (V)			10 / 8	
COP2	Heating	kW/kW	3.42	
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	46000	
		Min.—Max.	15,400—48,000	
	Heating	47°FDB (Outdoor temp.)	Rated	51000
		17°FDB (Outdoor temp.) ¹¹	Min.—Max.	16,000—56,000
			Rated	36000
		5°FDB (Outdoor temp.) ¹²	Max.	43200
	Rated		38500	
Outdoor Connection pipe	Size	Liquid	Ø3/8 (Ø9.52)	
		Gas	Ø5/8 (Ø15.88)	
	Method		FLARE	
	Pre-charge length		ft (m)	98 (30)
	Min. length			16 (5)
	Max. length			246 (75)
Max. height difference			98 (30)	
Indoor Dimensions (H × W × D)	Net	in (mm)	11-13/16 × 55-1/8 × 27-9/16 (300 × 1,400 × 700)	
			Gross	15-3/4 × 64-1/2 × 34-7/16 (400 × 1,638 × 875)
Indoor Weight	Net	lb (kg)	121 (55)	
			Gross	141 (64)
Outdoor Dimensions (H × W × D)	Net	in (mm)	39-5/16 × 37 × 12-5/8 (998 × 940 × 320)	
			Gross	46-5/16 × 40-7/16 × 17-1/2 (1,176 × 1,027 × 445)
Outdoor Weight	Net	lb (kg)	157 (71)	
			Gross	176 (80)
Indoor Fan	Airflow rate	Cooling	High	1,501 (2,550)
			Med	1,201 (2,040)
			Low	971 (1,650)
		Heating	Quiet	842 (1,430)
			High	1,501 (2,550)
			Med	1,201 (2,040)
	Type × Qty	SIROCCO FAN × 3	Low	971 (1,650)
			Quiet	842 (1,430)
			Motor output	375
			Static pressure range	0.12 to 0.72 (30 to 180)
Outdoor Fan	Airflow rate	CFM (m ³ /h)	2,619 (4,450)	
			Heating	
	Type × Qty		PROPELLER FAN × 1	
	Motor output		120	
Indoor Sound Pressure Level ¹⁴	Cooling	dB (A)	High	40
			Med	35
			Low	33
			Quiet	29
	Heating	High	40	
		Med	35	
		Low	33	
		Quiet	29	
Outdoor Sound Pressure Level ¹⁴	Cooling		57	
	Heating		59	

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SPECIFICATIONS:

Outdoor Refrigerant	Type		R32		
	Charge	lb oz	5 lb 15 oz		
		g	2700		
Additional Charge Calculation		oz/ft	0.43		
		g/m	40		
Outdoor Refrigerant Oil	Type		RMM68AF		
	Amount	in ³ (cm ³)	70.2 (1,150)		
Indoor Moisture removal		pints/h (L/h)	8.2 (3.9)		
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		V		
	Frequency		Hz		
	Available voltage range		V		
Indoor Current	Cooling	Rated	20.6		
	Heating		19.2		
Maximum Operating Current ^{*3}		Cooling	A		
		Heating		25	
Outdoor Starting Current			20.6		
MCA ^{*5}			25		
Wiring spec. ^{*6}			30		
MAX. CKT. BKR ^{*7}			4.69		
Indoor Input Power	Cooling	Rated	47°FDB (Outdoor temp.)		
			17°FDB (Outdoor temp.) ^{*1}		
	Heating	Max.	kW	3.84	
				Rated	5.1
					Max.
Indoor Power Factor		%	99		
Energy Star ^{*9}			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-LFNA	Long Life Filter (36/42/48k units)
UTY-DSGYZ2 ^{*3}	Airstage Edge Controller

NOTES:

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

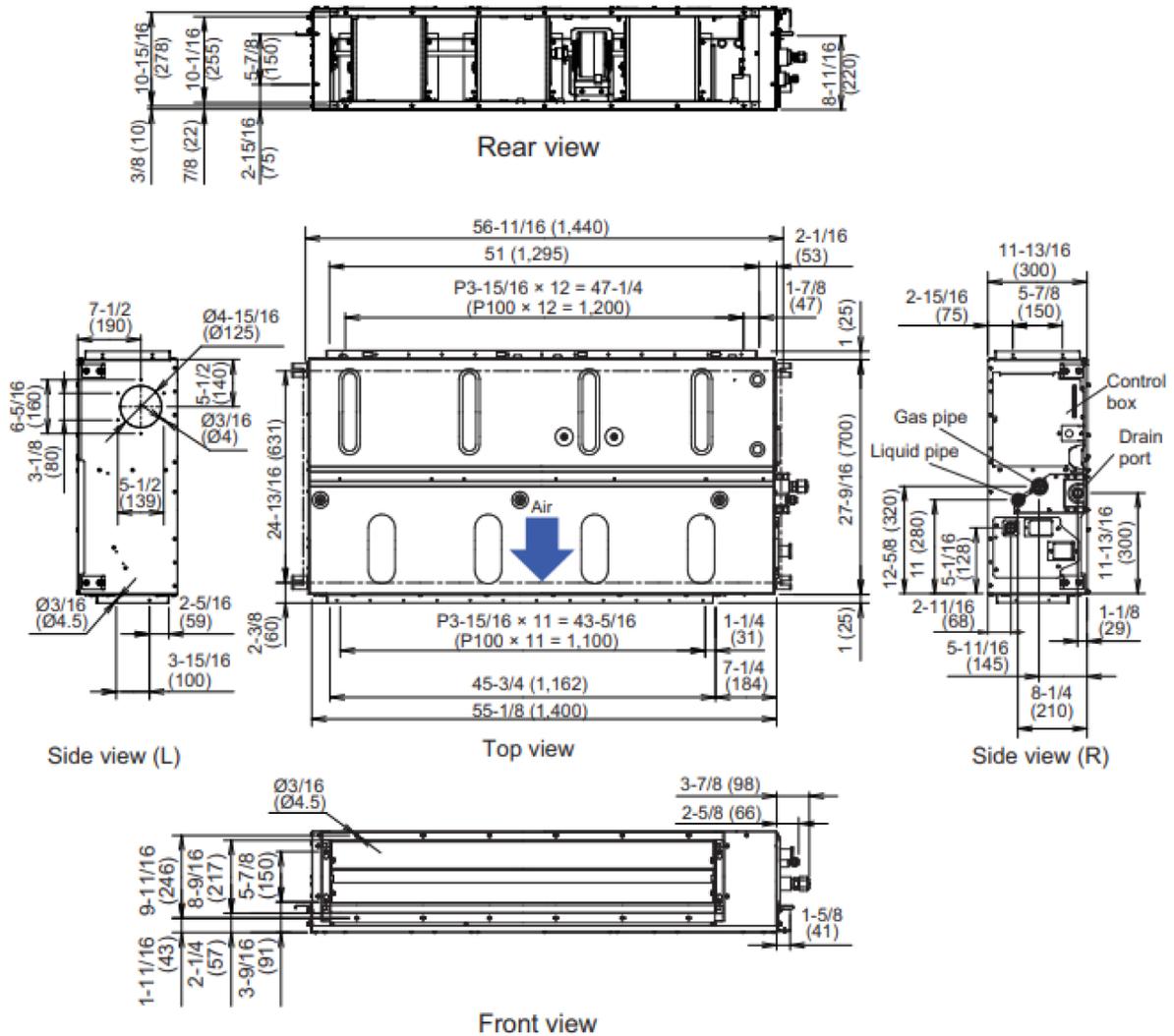
*2 -This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

SUBMITTAL - 48KUAS1R

INDOOR UNIT DIMENSIONS:

Unit: in (mm)



SUBMITTAL - 48KUAS1R

OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)

