

SUBMITTAL - 42KUAH1R

Job Name: _____

Date: _____

Location: _____

R32

Indoor Unit: **ARUH42KUAS**

Outdoor Unit: **AOUH42KUAH1**



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 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:

- Low GWP R-32 systems for reduced environmental impact
- Common Outdoor Unit compatible with all non-wall-mounted indoor unit types
- INVERTER-driven compressor that offers superior performance, comfort, and energy savings
- Built-in base pan heater for low ambient conditions
- Factory pre-charged for up to 98 ft (30 m) of refrigerant piping
- Extended line set length up to 246ft (75m)
- Low ambient operation with heating down to -15°F and cooling down to -5°F
- Exceeds 100% heating capacity at 5°F and 75% at -15°F (dry bulb)
- Blue Fin-coated heat exchanger for improved corrosion resistance and coil durability



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				ARUH42KUAS		
Outdoor Unit				AOUH42KUAH1		
System Name				42KUAH1R		
AHRI Reference #				217895714		
Efficiency	SEER2			Btu/hW	19.5	
	EER2				12.5	
	HSPF 2 (IV) / HSPF 2 (V)				10.2 / 8.4	
	COP2			kW/kW	3.84	
Energy Star ⁹				ES, ESCC, ESME		
Operation Range	Cooling			°F (°C)	-5 to 122*8 (-21 to 50*8)	
	Heating				-15 to 75 (-26 to 24)	
Capacity	Cooling		Rated	Btu/h	42,000	
			Min.—Max.		13,600—45,000	
	Heating	47°FDB (Outdoor temp.)	Rated		47,000	
			Min.—Max.		14,300—51,000	
		17°FDB (Outdoor temp.)* ¹	Rated		31,600	
			Max.		48,900	
			5°FDB (Outdoor temp.)* ²		Rated	48,000
					Max.	48,000
Connection pipe	Size		Liquid	in (mm)	Ø3/8 (Ø9.52)	
			Gas		Ø5/8 (Ø15.88)	
	Method				Flare	
	Pre-charge length			ft (m)	98 (30)	
	Min. length				17 (5)	
	Max. length				246 (75)	
Max. height difference			98 (30)			
Indoor Dimensions (H x W x D)	Net			in (mm)	11-13/16 x 55-1/8 x 27-9/16 (300 x 1,400 x 700)	
	Gross				15-3/4 x 64-1/2 x 34-7/16 (400 x 1,638 x 875)	
Indoor Weight	Net			lb (kg)	121 (55)	
	Gross				141 (64)	
Outdoor Dimensions (H x W x D)	Net			in (mm)	55-13/16 x 38-3/16 x 14-9/16 (1,418 x 970 x 370)	
	Gross				62-9/16 x 41-5/8 x 19-1/2 (1,589 x 1,057 x 495)	
Outdoor Weight	Net			lb (kg)	225 (102)	
	Gross				249 (113)	
Indoor Fan	Airflow rate	Cooling	High	CFM (m³/h)	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)	
			Low		971 (1,650)	
			Quiet		842 (1,430)	
	Type x Qty				Sirocco fan x 3	
	Outdoor Fan	Motor output		W	375	
Airflow rate		Cooling	CFM (m³/h)	3,826 (6,500)		
		Heating		3,649 (6,200)		
Type x Qty				Propeller fan x 2		
Motor output			W	120 x 2		
Indoor Sound Pressure Level*4	Cooling		High	dB (A)	40	
			Med		35	
			Low		33	
			Quiet		29	
	Heating		High		40	
			Med		35	
			Low		33	
			Quiet		29	
Cooling					52	
Heating					52	

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SPECIFICATIONS:

Refrigerant	Type		R32	
	Charge	lb oz	8 lb 6 oz	
		g	3800	
	Additional Charge Calculation	oz/ft	0.43	
g/m		40		
Refrigerant Oil	Type		RmM68AF	
	Amount	in 3 (cm3)	70.2 (1,150)	
Moisture removal		pints/h (L/h)	5.5 (2.6)	
Drain hose(IU)	Material		Polyvinyl chloride	
	Tip Diameter		in (mm) (Ø20.7), O.D.: Ø1-1/16 (Ø26.6) I.D.: Ø13/16	
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
	Current	Cooling	A	14.7
		Heating		15.7
	Maximum Operating Current*3	Cooling		21.7
		Heating		30.7
	Outdoor Starting Current			15.7
	Minimum Circuit Ampacity*5			37.5
	Wiring spec.*6	MAX. CKT. BKR*7		40
Input Power	Cooling		Rated	3.36
			Min.—Max.	3.78
	Heating	47°FDB (Outdoor temp.)	Rated	3.59
			Min.—Max.	3.99
		17°FDB (Outdoor temp.)*1	Rated	3.17
			Max.	6.22
		5°FDB (Outdoor temp.)*2	Rated	7.11
			Max.	7.11
	Power Factor	Cooling		%
Heating		99.4		

Notes:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 80°FDB/67°FWB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°FWB (35°CDB/23.9°CWB).
 - Heating: Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°FWB (8.33°CDB/6.11°CWB).
 - *1: Heating (17°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°FWB (-8.33°CDB/-9.44°CWB).
 - *2: Heating (5°F): Indoor temperature of 70°FDB/60°FWB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°FWB (-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	Wired Remote Controller
UTY-RHRYZ-Series	Wired Remote Controller - Hospitality
UTY-RSRYZ-Series	Simple Wired 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-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

NOTES:

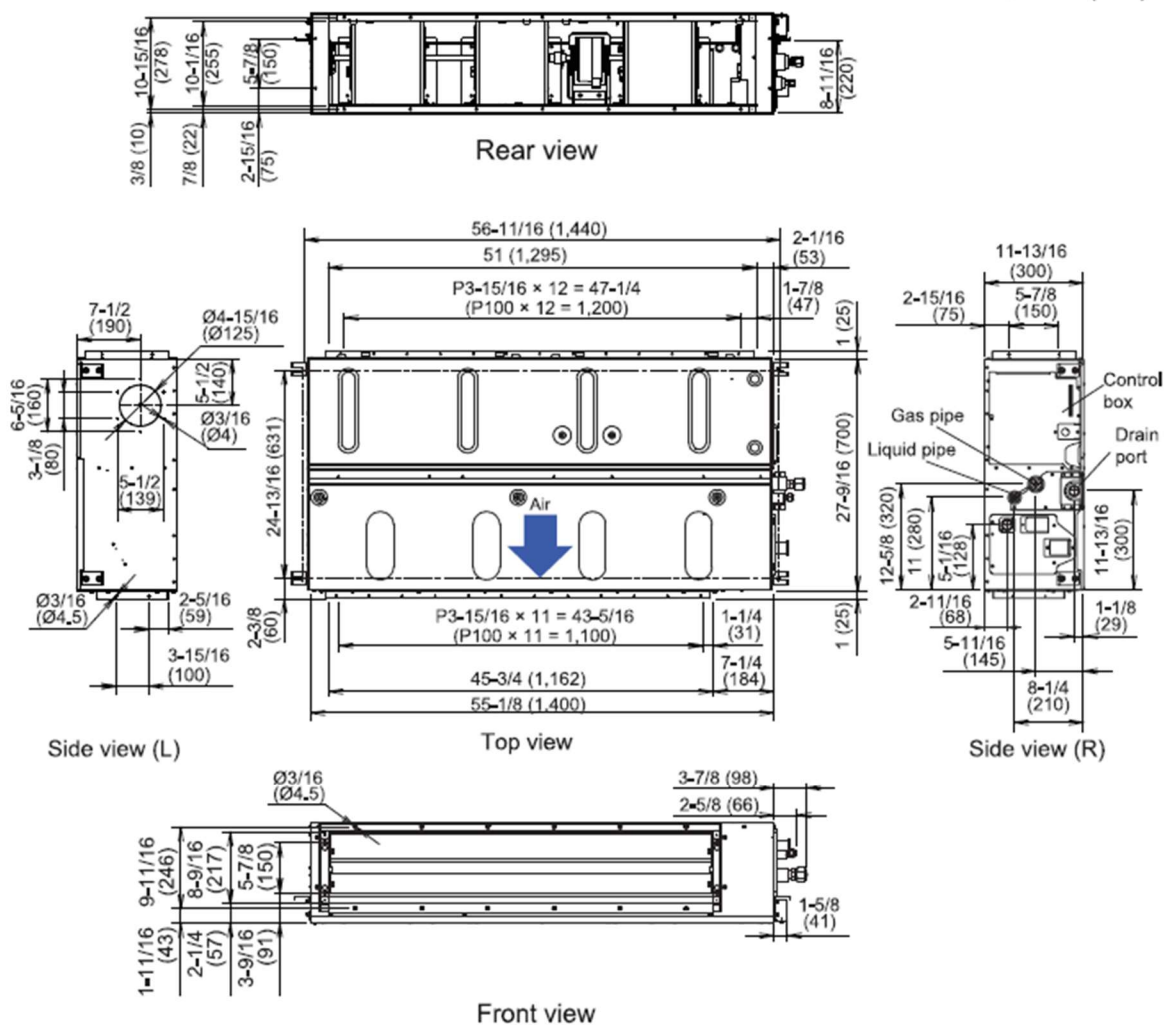
*¹ Requires IR receiver kit UTY-LBTUM to connect this device to IDU.

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

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INDOOR UNIT DIMENSIONS:

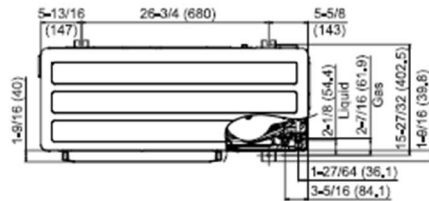
Unit: in (mm)



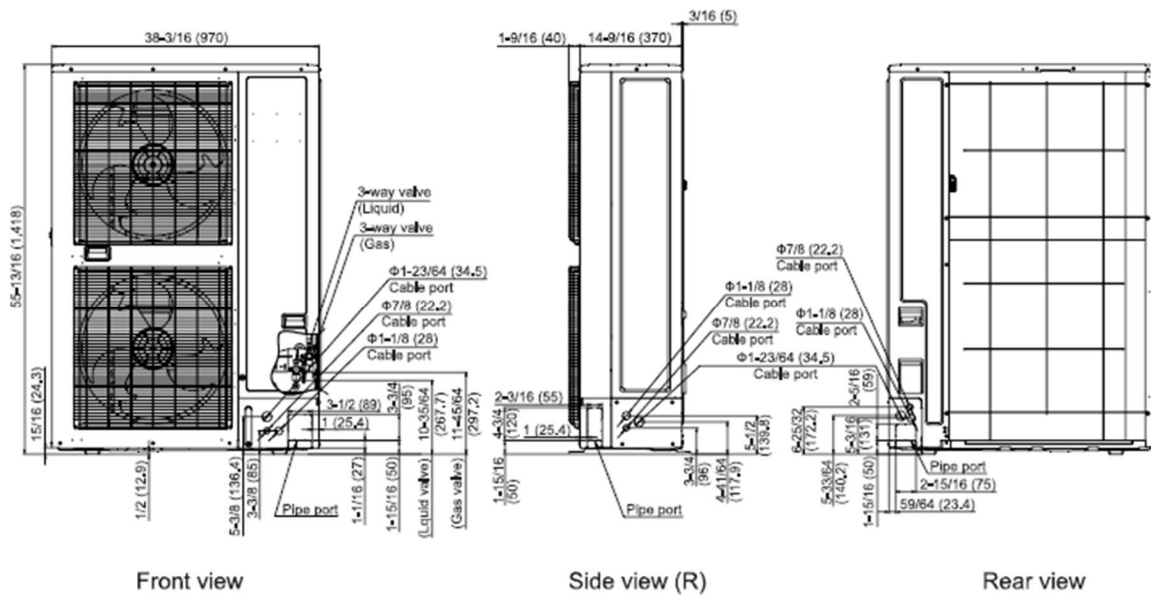
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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)



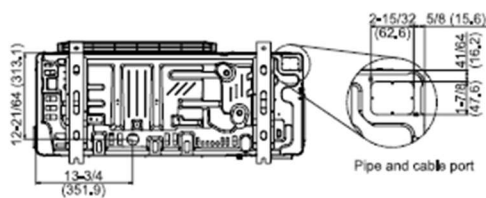
Top view



Front view

Side view (R)

Rear view



Bottom view