

SUBMITTAL - 12KUBS1C

Job Name: _____

Date: _____

Location: _____

R32

Indoor Unit: **ACUH12KUAS**

Outdoor Unit: **AOUH12KUBS1**



FEATURES

INDOOR UNIT:

- Compact cassette 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 Wireless Remote Controller (UTY-LNTU)
 - 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
- Optional fresh air kit, designed to boost indoor air quality and comfort
- Cassette grille (front panel) fits seamlessly into standard grid-style office ceilings (sold separately)
- 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)
 - Multiple Auxiliary Heat logic options for optimized heating performance
 - Service monitoring functionality via compatible accessories (UTY-RVRU & UTY-RNRUZ-series)
 - Offers group control, allowing seamless management of multiple units simultaneously.

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.



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				ACUH12KUAS		
Outdoor Unit				AOUH12KUBS1		
System Name				12KUBS1C		
AHRI Reference #				217734521		
Efficiency	SEER2			Btu/hW	23.7	
	EER2				14.1	
	HSPF 2 (IV) / HSPF 2 (V)			kW/kW	11.5 / 9.2	
	COP2				3.6	
Energy Star ⁹				ES, ESCC, ESME		
Operation Range	Cooling			°F (°C)	-5 to 122*2 (-21 to 50*2)	
	Heating				-5 to 75 (-21 to 24)	
Capacity	Cooling		Rated	Btu/h	12,000	
			Min.—Max.		3,100—13,600	
	Heating	47°FDB (Outdoor temp.)	Rated		16,000	
			Min.—Max.		3,100—19,400	
		17°FDB (Outdoor temp.)* ¹	Rated		10,700	
			Max.		17,300	
		5°FDB (Outdoor temp.)* ²	Rated		15,500	
			Max.		15,500	
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 x W x D)	Net			in (mm)	9-5/8 x 22-7/16 x 22-7/16 (245 x 570 x 570)	
	Gross				10-7/16 x 28-3/4 x 24-5/8 (265 x 730 x 625)	
Indoor Weight	Net			lb (kg)	33 (15)	
	Gross				42 (19)	
Outdoor Dimensions (H x W x D)	Net			in (mm)	24-7/8 x 31-7/16 x 11-7/16 (632 x 799 x 290)	
	Gross				27-1/4 x 37 x 14-3/4 (692 x 940 x 375)	
Outdoor Weight	Net			lb (kg)	84 (38)	
	Gross				93 (42)	
Indoor Fan	Airflow rate	Cooling	High	CFM (m³3/h)	359 (610)	
			Med		312 (530)	
			Low		277 (470)	
			Quiet		241 (410)	
		Heating	High		359 (610)	
			Med		312 (530)	
			Low		277 (470)	
			Quiet		241 (410)	
	Type x Qty				Turbo fan x 1	
	Outdoor Fan	Airflow rate	Motor output		W	54
Cooling			CFM (m³/h)	1,171 (1,990)		
				Heating	1,089 (1,850)	
Type x Qty				Propeller fan x 1		
Indoor Sound Pressure Level*4	Motor output			W	49	
	Cooling		High	dB (A)	37	
			Med		34	
			Low		31	
			Quiet		29	
	Heating		High		37	
			Med		34	
			Low		31	
			Quiet		29	
	Outdoor Sound Pressure Level*4		Cooling			48
Heating			49			

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SPECIFICATIONS:

Refrigerant	Type		R32	
	Charge	lb oz	2 lb 4 oz	
		g	1020	
	Additional Charge Calculation	oz/ft	0.22	
g/m		20		
Refrigerant Oil	Type		RmM68AF	
	Amount	in 3 (cm3)	24.4 (400)	
Moisture removal		pints/h (L/h)	2.5 (1.2)	
Drain hose(IU)	Material		Polyvinyl chloride	
	Tip Diameter		I.D.: Ø1 (Ø25.0), O.D.: Ø1-1/4 (Ø32.0)	
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	3.8
		Heating		5.8
	Maximum Operating Current ^{*3}	Cooling		10.2
		Heating		11.7
	Outdoor Starting Current			5.8
	Minimum Circuit Ampacity ^{*5}			14.2
	Wiring spec. ^{*6}	MAX. CKT. BKR ^{*7}		15
Input Power	Cooling		Rated	0.85
			Min.—Max.	0.15—1.36
	Heating	47°FDB (Outdoor temp.)	Rated	1.3
			Min.—Max.	0.21—2.02
		17°FDB (Outdoor temp.) ^{*1}	Rated	1.05
			Max.	2.18
		5°FDB (Outdoor temp.) ^{*2}	Rated	2.25
			Max.	2.25
Power Factor	Cooling		%	97.3
	Heating			97.5

Notes:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 80°FDB/67°F WB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°F WB (35°CDB/23.9°CWB).
 - Heating: Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°F WB (8.33°CDB/6.11°CWB).
 - *1: Heating (17°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°F WB (-8.33°CDB/-9.44°CWB).
 - *2: Heating (5°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°F WB (-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 * ^{3, 5}	Wired Remote Controller
UTY-RHRYZ-Series * ^{4, 5}	Wired Remote Controller - Hospitality
UTY-RSRYZ-Series * ^{4, 5}	Simple Wired Remote Controller
UTY-LNTU	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	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-TTRXZ-Series * ¹	24V Thermostat Interface
TTRXZ1-KIT * ¹	24V Thermostat Interface Kit (UTY-TTRXZ1, UTY-WiFi Plug & 24V Transformer)
UTZ-KXGC	High Humidity Insulation Kit
UTR-YDZB	Air Outlet Shutter Plate
UTZ-VXAA	Fresh Air Intake Kit
UTG-CCGFGA	Cassette Grille (Compact Cassette)
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snow Hood
UTZ-DUWBG3A	Wind Baffle
UTY-SGZUZ-Series * ²	Gas Sensor Kit
UTY-XWZXZL	UART Cable - For Gas Sensor Kit
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snow Hood
UTZ-DUWBG3A	Wind Baffle

NOTES:

*¹ This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

*² Requires UART Cable UTY-XWZXZL to connect this device to IDU.

*³ Refrigerant Leak Detection function is only available when using version Z6 or later

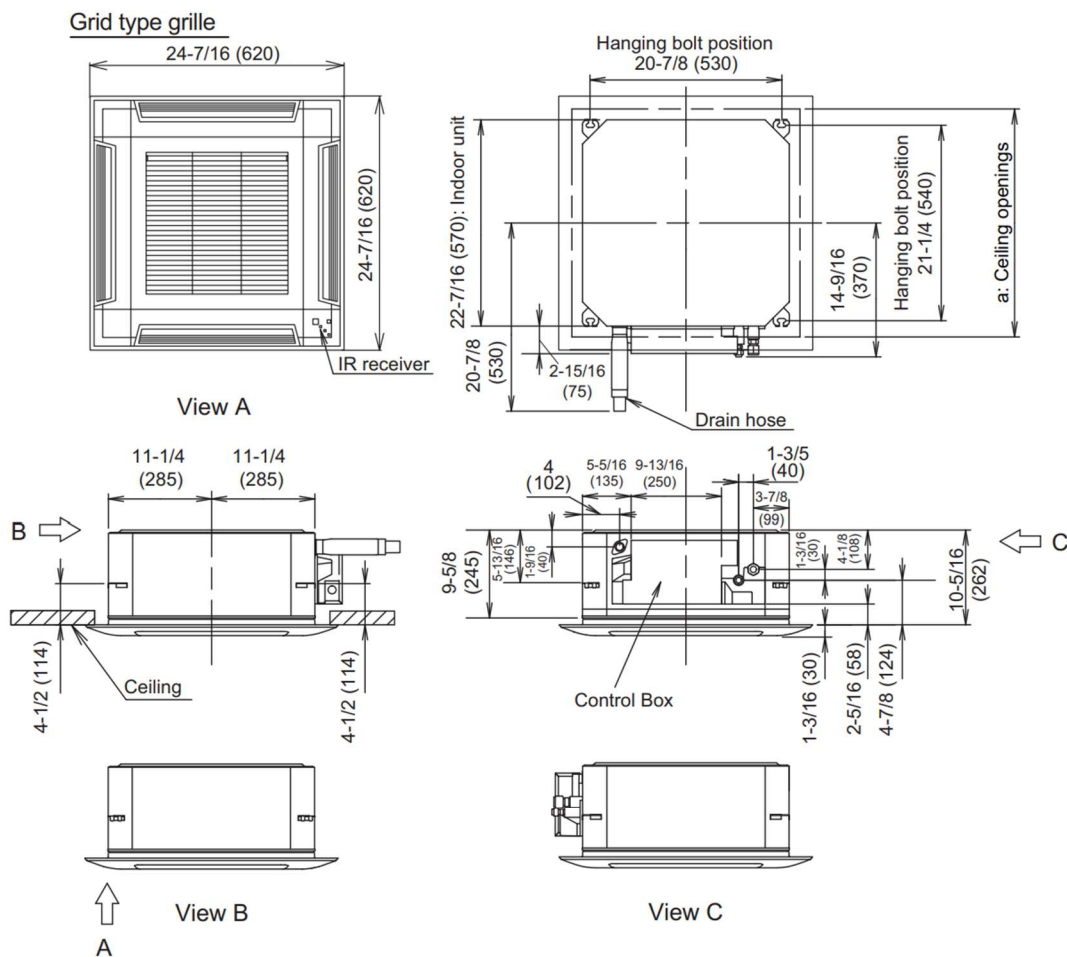
*⁴ Refrigerant Leak Detection function is only available when using version Z1 or later

*⁵ No buzzer sound.

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INDOOR UNIT DIMENSIONS:

Unit: in (mm)



a: Ceiling openings			
Cassette grille	Grid type	in (mm)	22-13/16 to 24 (580 to 610)

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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)

