

SUBMITTAL - 18KUAS1C

Job Name: _____

Date: _____

Location: _____

R32

Indoor Unit: **ACUH18KUAS**

Outdoor Unit: **AOUH18KUAS1**



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 20% 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>

Version: 20251015A

SUBMITTAL - 18KUAS1C

SPECIFICATIONS:

Indoor Unit				ACUH18KUAS				
Outdoor Unit				AOUH18KUAS1				
System Name				18KUAS1C				
AHRI Number				215434547				
SEER2		Cooling		Btu/hW	21.9			
EER2					12.6			
HSPF 2 (IV) / HSPF 2 (V)		Heating		kW/kW	11.3 / 8.7			
COP2					3.54			
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 Min.—Max.	18000			
					Heating	47°FDB (Outdoor temp.)	Rated Min.—Max.	3,100—20,100
		17°FDB (Outdoor temp.) ^{*1}	Rated Max.	21600				
				5°FDB (Outdoor temp.) ^{*2}		Rated Max.	3,100—23,900	
							14400	
				19300				
				17100				
		Outdoor Connection pipe		Size		Liquid	Ø1/4 (Ø6.35)	
Gas							Ø1/2 (Ø12.70)	
Method				FLARE				
Pre-charge length				66 (20)				
Min. length				16 (5)				
Max. length				98 (30)				
Max. height difference				49 (15)				
Indoor Dimensions (H × W × D)				Net		in (mm)	9-5/8 × 22-7/16 × 22-7/16 (245 × 570 × 570)	
		Gross					10-7/16 × 28-3/4 × 24-5/8 (265 × 730 × 625)	
Indoor Weight		Net		lb (kg)	35 (16)			
					Gross		44 (20)	
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		Cooling		High	441 (750)			
					Med	341 (580)		
						Low	288 (490)	
							Quiet	241 (410)
		Heating		High				471 (800)
					Med			400 (680)
						Low		341 (580)
							Quiet	265 (450)
		Type × Qty						TURBO FAN × 1
		Motor output						W
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 ^{*4}		Cooling		High	dB (A)	42		
						Med	36	
							Low	32
								Quiet
		Heating		High				
						Med		
							Low	
								Quiet
Outdoor Sound Pressure Level ^{*4}		Cooling			52			
		Heating			55			

SUBMITTAL - 18KUAS1C

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)	4.6 (2.2)
Indoor Drain hose		Material		POLYVINYL CHLORIDE
		Tip Diameter	in (mm)	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)
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		A	6.3
	Heating			7.8
Maximum Operating Current ^{*3}		Cooling		12.2
		Heating		14.8
Outdoor Starting Current				7.8
MCA ^{*5}				14.8
Wiring spec. ^{*6}				20
MAX. CKT. BKR ^{*7}				
Indoor Input Power	Cooling		Rated	1.42
			Min.—Max.	0.18—2.04
	Heating	47°FDB (Outdoor temp.)	Rated	1.78
			Min.—Max.	0.18—2.50
		17°FDB (Outdoor temp.) ^{*1}	Rated	1.43
			Max.	2.39
		5°FDB (Outdoor temp.) ^{*2}	Rated	2.28
			Max.	
Indoor Power Factor	Cooling		%	98
	Heating			99.2
Energy Star ^{*9}				ES, ESCC, ESME

NOTES:

- Cooling: Indoor temperature of 80°F (26.67°CDB)/67°FDB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FDB (23.9°CWB).
- Heating: Indoor temperature of 70°FDB (21.11°CDB)/60°FDB (15.56°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FDB (6.11°CWB).
- 17°FDB (Outdoor temp.),
- 5°FDB (Outdoor temp.)
- *1: Heating (17°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FDB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FDB (-9.44°CWB).
- *2: Heating (5°F): Indoor temperature of 70°FDB (21.11°CDB)/60°FDB (15.56°CWB), and outdoor temperature of 5°FDB (-15.0°CDB)/4°FDB (-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.

SUBMITTAL - 18KUAS1C

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-LNTU	Wireless Remote Controller (Compact Cassette)
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 (Intesis Home app)
BM101WA	Cielo - Breez Max IR Controller w/ WiFi (Black)
BM102WA	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 ^{*1}	24V Thermostat Interface
TTRXZ1-KIT ^{*1}	24V Thermostat Interface Kit (UTY-TTRXZ1, UTY-WIFI Plug & 24V Transformer)
UTY-XCSX	External input and output PCB
UTY-XWZXZG	External Connect Kit
UTZ-GXEA	External input and output PCB box
UTZ-KXGC	High Humidity Insulation Kit
UTR-YDZB	Air Outlet Shutter Plate
UTZ-VXAA	Fresh Air Intake Kit
UTY-DSGYZ2 ^{*2}	Airstage Edge Controller
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snowhood
UTZ-DUWBG3A	Wind Baffle
UTG-CCGFGA	Cassette Grille

NOTES:

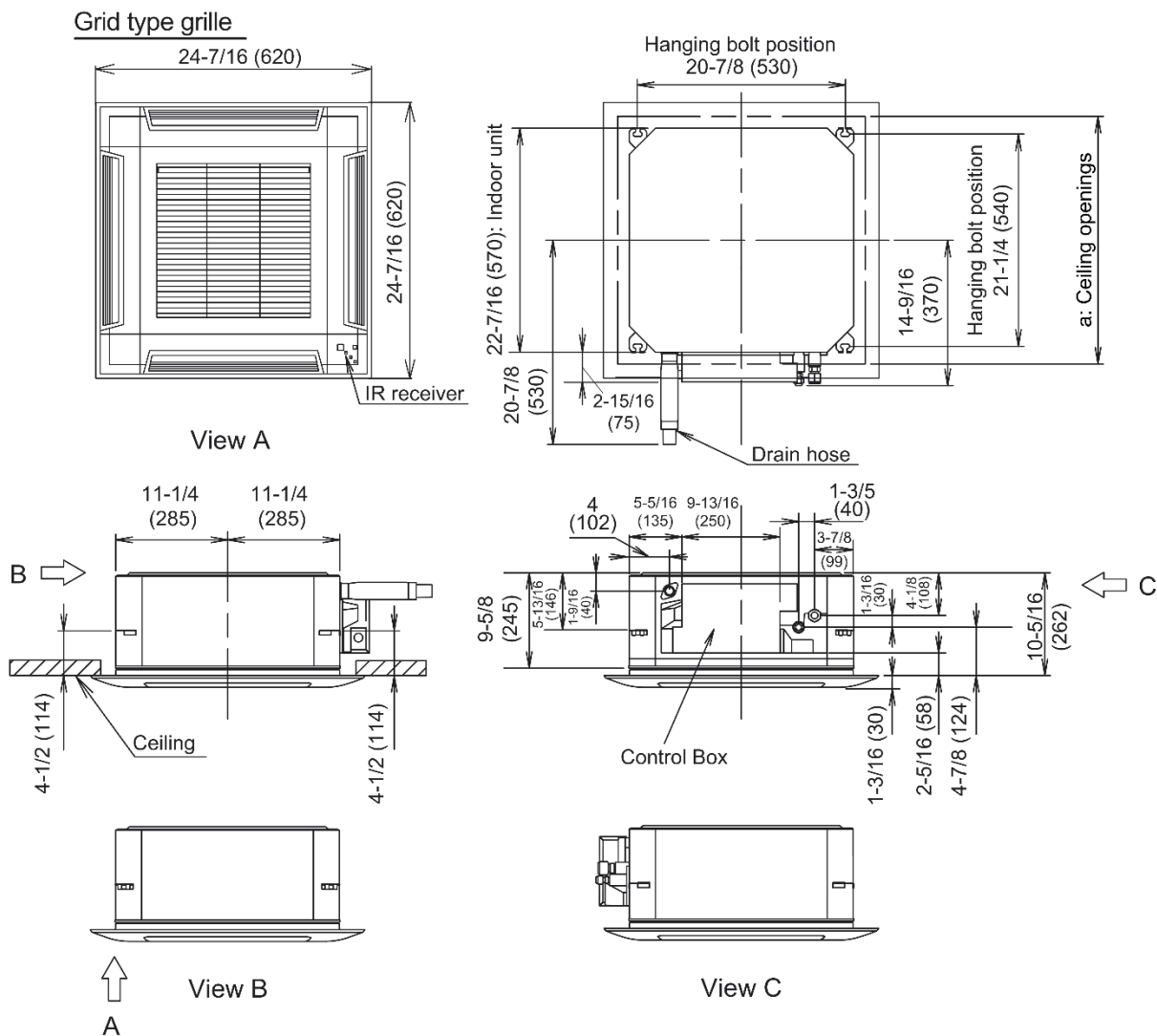
*1 -This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

SUBMITTAL - 18KUAS1C

INDOOR UNIT DIMENSIONS:

Unit: in (mm)

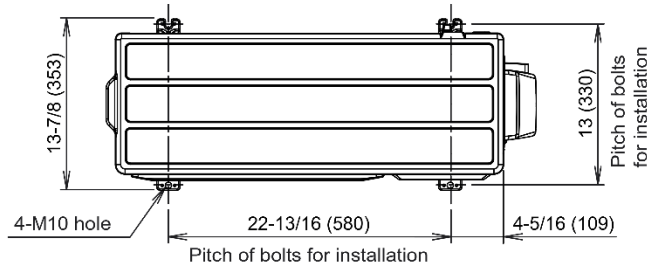


a: Ceiling openings			
Cassette grille	Grid type	in (mm)	22-13/16 to 24 (580 to 610)

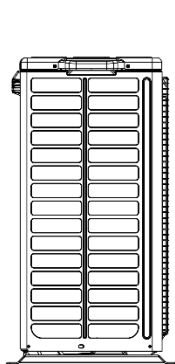
SUBMITTAL - 18KUAS1C

OUTDOOR UNIT DIMENSIONS:

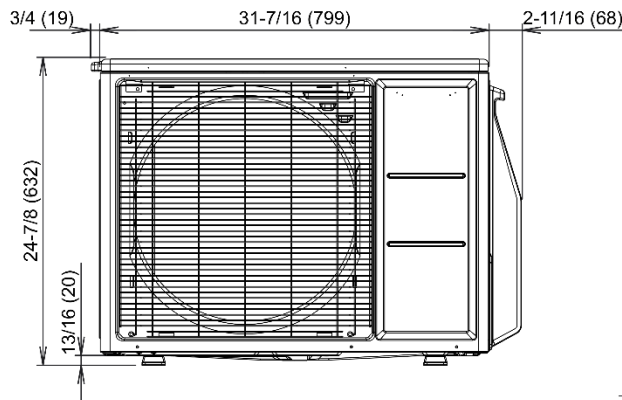
Unit: in (mm)



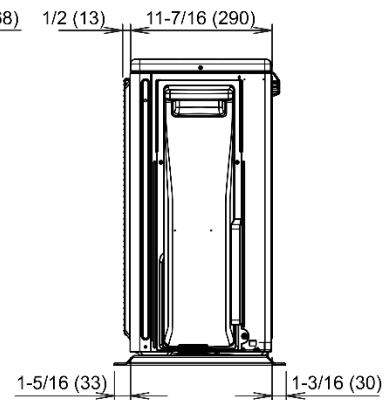
Top view



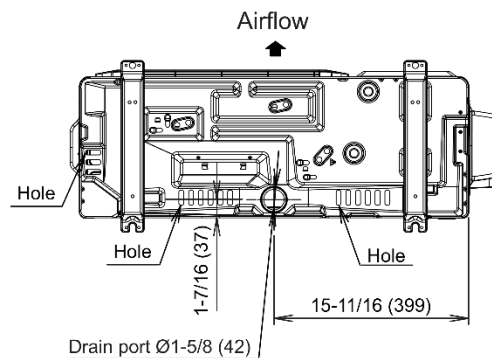
Side view



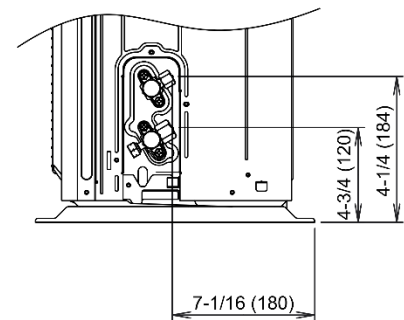
Front view



Side view



Bottom view



Side view (Valve part)