

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.



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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	Btu/h	18000
			Min.—Max.		3,100—20,100
	Heating	47°FDB (Outdoor temp.)	Rated		21600
			Min.—Max.		3,100—23,900
		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				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	Airflow rate	Cooling	High	CFM (m³/h)	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	54
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)	42
			Med		36
			Low		32
			Quiet		29
		Heating	High		44
			Med		40
			Low		36
			Quiet		30
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)	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	208/230
		Frequency		Hz	60
		Available voltage range		V	187—253
Indoor Current	Cooling		Rated	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	kW	1.42
			Min.—Max.		0.18—2.04
	Heating	47°FDB (Outdoor temp.)	Rated		1.78
		17°FDB (Outdoor temp.) ^{*1}	Min.—Max.		0.18—2.50
			Rated		1.43
		5°FDB (Outdoor temp.) ^{*2}	Max.		2.39
			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).
- *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, Outdoor 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.

- *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-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-DUHGG2A	Hail Guard
UTZ-DUSHG2A	Snowhood
UTZ-DUWBG2A	Wind Baffle
UTG-CCGFGA	Cassette Grille

NOTES:

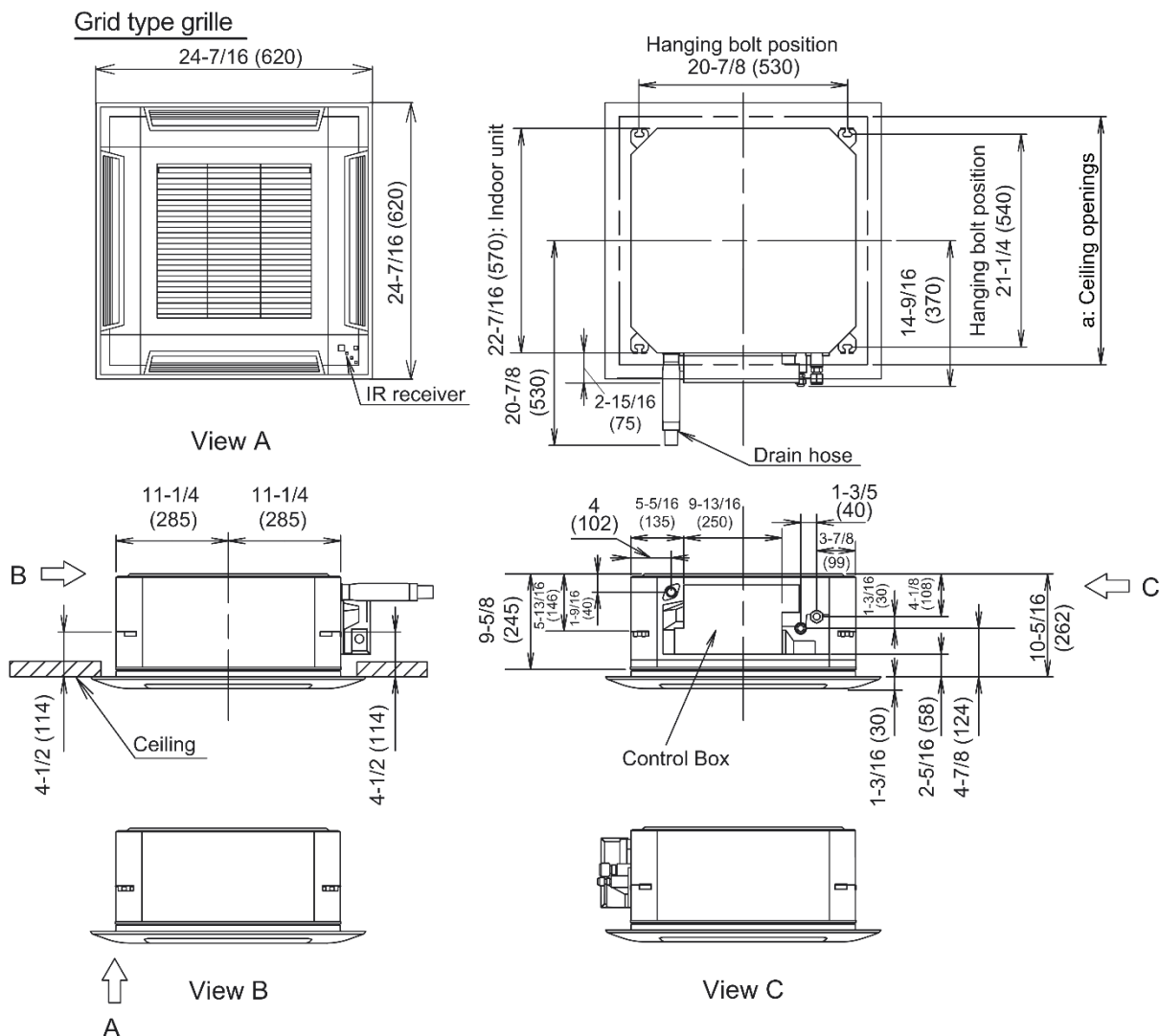
*1 -This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

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INDOOR UNIT DIMENSIONS:

Unit: in (mm)

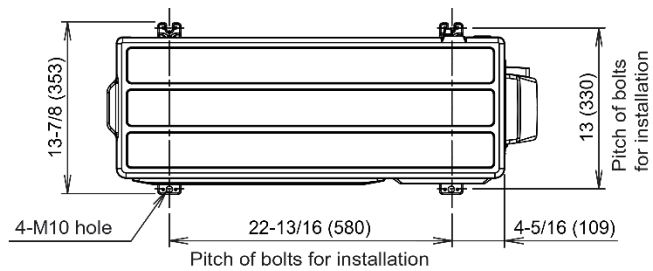


a: Ceiling openings			
Cassette grille	Grid type	in (mm)	22-13/16 to 24 (580 to 610)

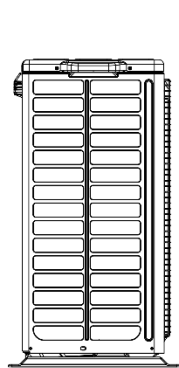
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OUTDOOR UNIT DIMENSIONS:

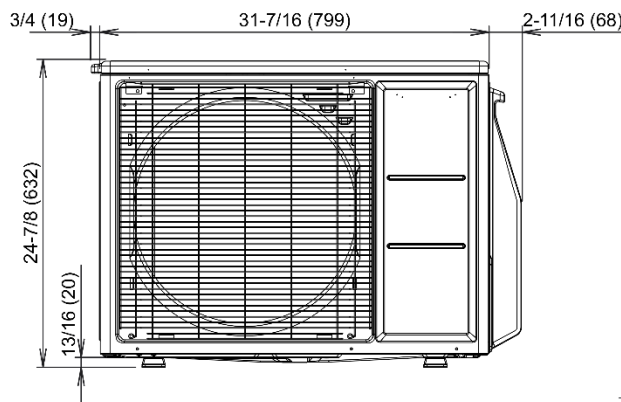
Unit: in (mm)



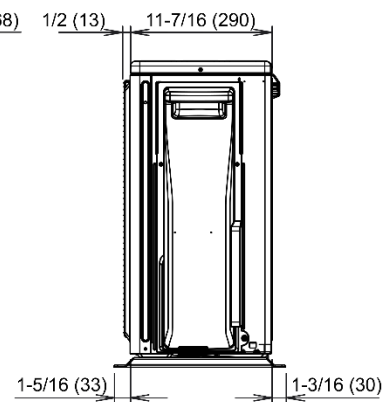
Top view



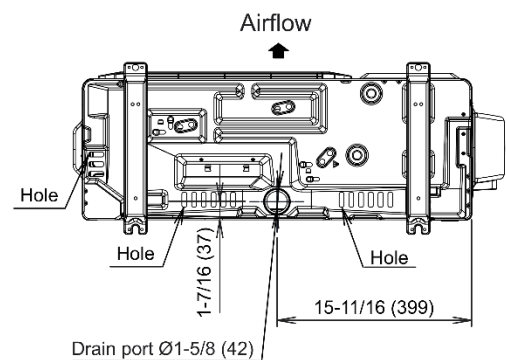
Side view



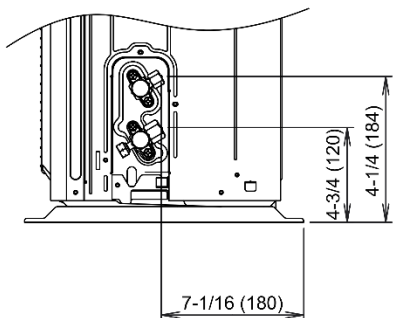
Front view



Side view



Bottom view



Side view (Valve part)

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