

SUBMITTAL - 18KUAS1B

Job Name: _____

Date: _____

Location: _____

R32

Indoor Unit: **ABUH18KUAS**

Outdoor Unit: **AOUH18KUAS1**



FEATURES

INDOOR UNIT:

- Ceiling-suspended 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 31dB
- 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
 - 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
- Optional drain pump unit for efficient water removal and flexible installation
- Offers group control, allowing seamless management of multiple units simultaneously
- 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)

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

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SPECIFICATIONS:

Indoor Unit					ABUH18KUAS	
Outdoor Unit					AOUH18KUAS1	
System Name					18KUAS1B	
AHRI Number					215434548	
SEER2	Cooling			Btu/hW	23.4	
EER2					12.9	
HSPF 2 (IV) / HSPF 2 (V)	Heating			kW/kW	11.2 / 8.7	
COP2					3.64	
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—25,600	
		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			ft (m)	66 (20)	
	Min. length				16 (5)	
	Max. length				98 (30)	
	Max. height difference				49 (15)	
Indoor Dimensions (H × W × D)	Net		in (mm)	9-1/4 × 42-1/2 × 27-3/4 (235 × 1,080 × 705)		
	Gross			13 × 45-7/8 × 32-1/2 (330 × 1,165 × 825)		
Indoor Weight	Net		lb (kg)	53 (24)		
	Gross			73 (33)		
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 (m ³ /h)	494 (840)	
			Med		465 (790)	
			Low		418 (710)	
			Quiet		383 (650)	
		Heating	High		494 (840)	
			Med		465 (790)	
			Low		418 (710)	
			Quiet		383 (650)	
	Type × Qty				SIROCCO FAN × 2	
	Outdoor Fan	Airflow rate	Cooling		CFM (m ³ /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)	38	
			Med		36	
			Low		33	
			Quiet		31	
	Heating		High		38	
			Med		36	
			Low		33	
			Quiet		31	
Outdoor Sound Pressure Level ^{*4}	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)	4.9 (2.3)	
Indoor Drain hose		Material		POLYVINYL CHLORIDE	
		Tip Diameter		in (mm)	Ø13/16 (Ø20.7) (I.D.), Ø1-1/16 (Ø26.6) (O.D.)
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	6.2
	Heating				7.6
Maximum Operating Current* ³			Cooling		12.2
			Heating		14.8
Outdoor Starting Current			7.6		
MCA* ⁵			14.8		
Wiring spec.* ⁶		MAX. CKT. BKR* ⁷			20
Indoor Input Power	Cooling		Rated		kW
			Min.—Max.	0.18—2.01	
	Heating	Rated	1.73		
		Min.—Max.	0.15—2.86		
		Rated	1.45		
		Max.	2.4		
		Rated	2.22		
		Max.			
Indoor Power Factor	Cooling		%	97.5	
	Heating			99	
Energy Star* ⁹				ES, ESCC, ESME	

NOTES

- Cooling: Indoor temperature of 80°F (26.6°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.).
- 5°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).
- *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-LBTUH	IR Receiver Kit w/ Wireless Remote Controller (Ceiling Susp.)
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-XCSX	External input and output PCB
UTY-XWZXZG	External Connect Kit
UTZ-GXEA	External input and output PCB box
UTY-DSGYZ2 ^{*3}	Airstage Edge Controller
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snowhood
UTZ-DUWBG3A	Wind Baffle

NOTES:

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

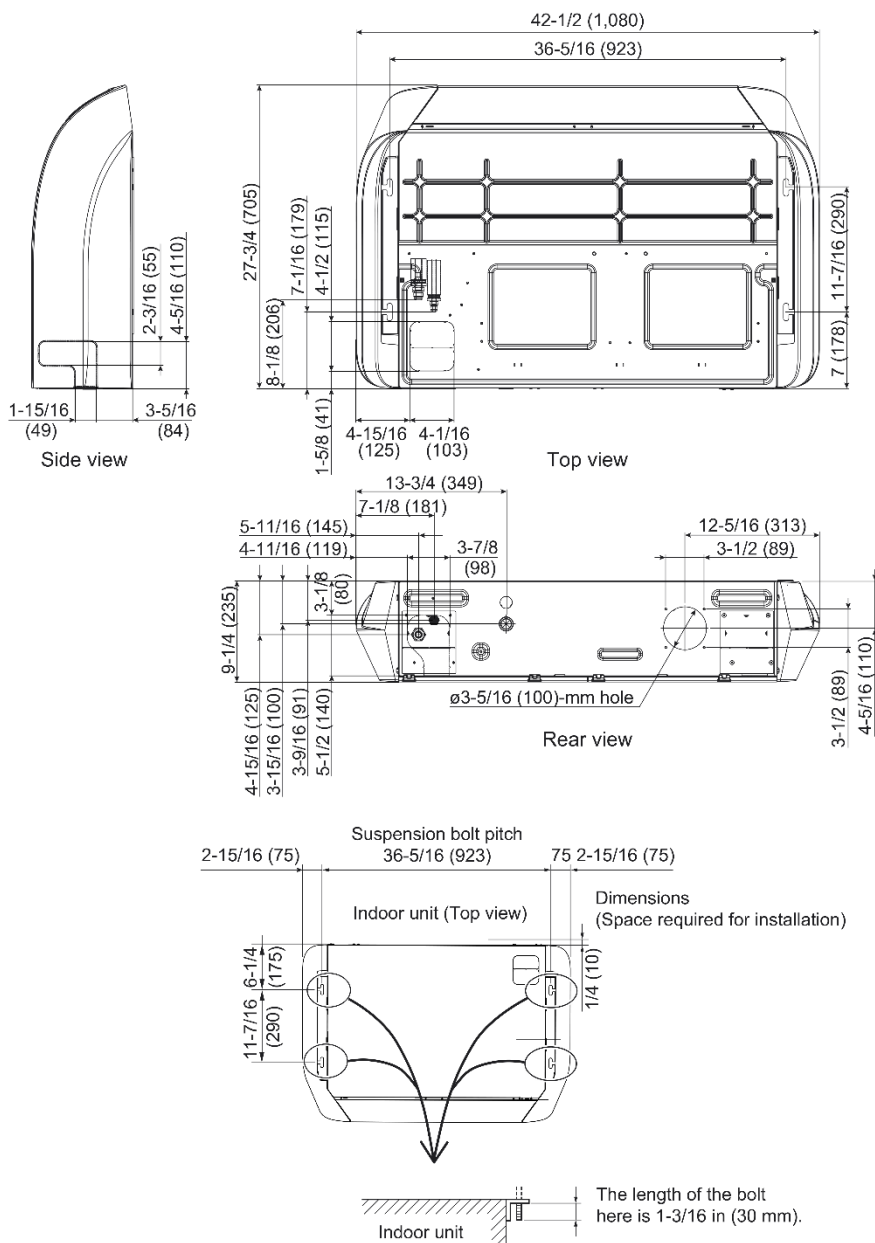
*2 -This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

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INDOOR UNIT DIMENSIONS:

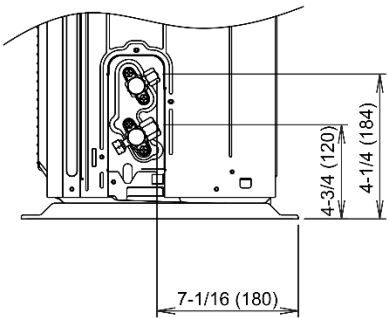
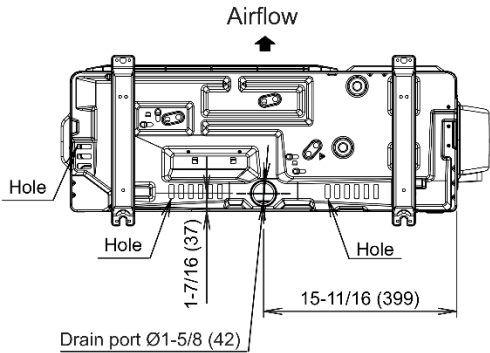
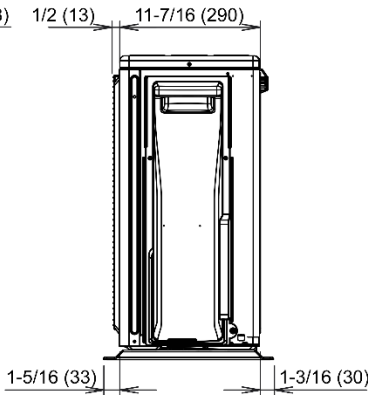
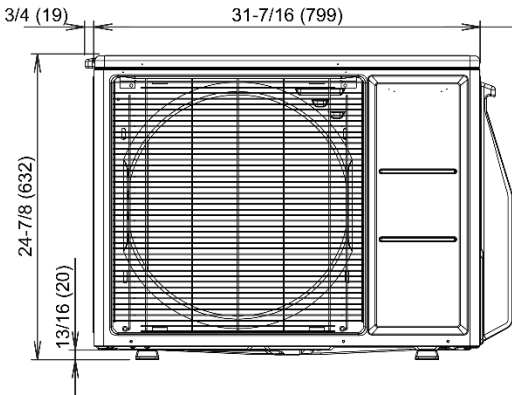
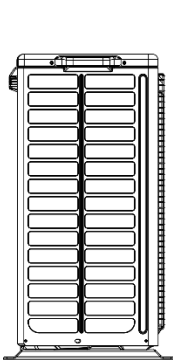
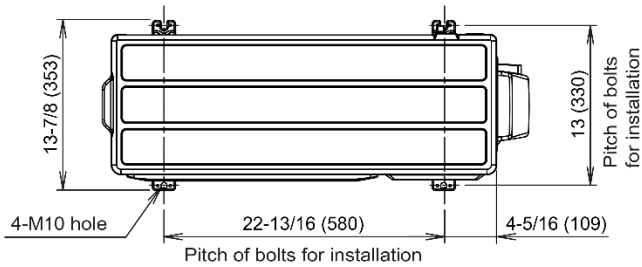
Unit: in (mm)



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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)



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