

## SUBMITTAL - 12KZAH1

Job Name: \_\_\_\_\_

Date: \_\_\_\_\_

Location: \_\_\_\_\_

**R32**

Indoor Unit: **ASUH12KZAS**

Outdoor Unit: **AOUH12KZAH1**



**XLTH**

### FEATURES

#### INDOOR UNIT:

- Compact wall-mounted indoor unit providing superior comfort.
- Indoor unit with ProCore™ (High Corrosion Resistant Copper) coils for long-lasting protection against corrosion
- Whisper-quiet operation with sound levels as low as 23dB
- Multiple fan speed options: Auto, High, Med-High, Med, Med-Low, 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:
  - Backlit wireless remote controller included with the indoor unit
  - Built-in Wi-Fi connectivity for remote monitoring & control via the Airstage Mobile App
  - Occupancy sensor for enhanced energy savings
  - 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
- Dual-action Filtration: Apple-Catechin Filter & Ion Deodorizing Filter
- Additional premium features include, but are not limited to:
  - Built-in external input and output for interlocking systems with 3<sup>rd</sup> party devices (Ex: Fire Alarm, Door Switch, Humidifier, Aux. Heat & more)
  - Multiple Auxiliary Heat logic 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
- Base pan heater designed for the extreme cold climate region
- Compact outdoor unit with extended line set lengths up to 82ft (25m)
- Up to 33% higher rated heating capacity than nominal capacity
  - 16000 Btu/h Rated Heating Capacity for 12000 Btu/h system
  - Up to 24% higher heating capacity @ -5°F
- Low-noise outdoor unit operation mode
- Hydro 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>

Version: 20250106A

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## SPECIFICATIONS:

Indoor Unit					ASUH12KZAS		
Outdoor Unit					AOUH12KZAH1		
System Name					12KZAH1		
AHRI Number					214888802		
SEER2		Cooling		Btu/hW	30.5		
EER2					16		
HSPF2		Heating		kW/kW	12.7		
COP2					4.64		
Outdoor Operation Range		Cooling <sup>*8</sup>		°F (°C)	14 to 122 (-10 to 50)		
		Heating			-15 to 75 (-26 to 24)		
Indoor Capacity		Cooling		Rated	12000		
				Min.—Max.	3,100—16,000		
		Heating	47°FDB (Outdoor temp.)	Rated	16000		
				Min.—Max.	3,500—24,000		
			17°FDB (Outdoor temp.) <sup>*1</sup>	Rated	10000		
				Max.	18700		
			5°FDB (Outdoor temp.) <sup>*2</sup>	Rated	16600		
	Max.						
Outdoor Connection pipe		Size	Liquid		in (mm)	Ø1/4 (Ø6.35)	
			Gas			Ø3/8 (Ø9.52)	
		Method				FLARE	
		Pre-charge length				ft (m)	49 (15)
		Min. length					10 (3)
		Max. length					82 (25)
		Max. height difference					66 (20)
Indoor Dimensions (H × W × D)		Net		in (mm)	11 × 38-9/16 × 9-7/16 (280 × 980 × 240)		
		Gross			12-11/16 × 42-7/16 × 13-5/8 (322 × 1,078 × 346)		
Indoor Weight		Net		lb (kg)	28 (12.5)		
		Gross			36 (16.5)		
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)	86 (39)		
		Gross			95 (43)		
Indoor Fan		Airflow rate	Cooling	High	CFM (m³/h)	518 (880)	
				Med—High		453 (770)	
				Med		388 (660)	
				Med—Low		347 (590)	
				Low		300 (510)	
			Heating	Quiet		200 (340)	
				High		571 (970)	
				Med—High		471 (800)	
				Med		406 (690)	
				Med—Low		353 (600)	
				Low		300 (510)	
				Quiet		200 (340)	
				Type × Qty			
		Motor output				W	59
Airflow rate		Cooling		CFM (m³/h)	1,171 (1,990)		
		Heating			1,089 (1,850)		
Type × Qty				PROPELLER FAN × 1			
Motor output				W	49		
Indoor Sound Pressure Level <sup>*4</sup>		Cooling	High	dB (A)	43		
			Med—High		41		
			Med		37		
			Med—Low		34		
			Low		31		
			Quiet		23		
		Heating	High		44		
			Med—High		41		
			Med		37		
			Med—Low		34		
			Low		31		
			Quiet		23		
Outdoor Sound Pressure Level <sup>*4</sup>		Cooling			47		
		Heating					

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## SPECIFICATIONS:

Outdoor Refrigerant		Type		R32	
		Charge	lb oz	2 lb 9 oz	
			g	1150	
Additional Charge Calculation			oz/ft	0.22	
			g/m	20	
Outdoor Refrigerant Oil		Type		RMM68AF	
		Amount	in <sup>3</sup> (cm <sup>3</sup> )	24.4 (400)	
Indoor Moisture removal			pints/h (L/h)	4.0 (1.9)	
Indoor Drain hose		Material		POLYPROPYLENE + HIGH-DENSITY POLYETHYLENE	
		Tip Diameter		in (mm) Ø17/32 (Ø13.8) (I.D.), Ø19/32 to 21/32 (Ø15.0 to 16.8) (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	
		Frequency		Hz	
		Available voltage range		V	
Indoor Current		Cooling	Rated	3.8	
		Heating		4.7	
Maximum Operating Current <sup>*3</sup>			Cooling	9.4	
			Heating	11.9	
Outdoor Starting Current				4.7	
MCA <sup>*5</sup>				14.4	
Wiring spec. <sup>*6</sup>		MAX. CKT. BKR <sup>*7</sup>		15	
Indoor Input Power		Cooling		Rated	0.75
				Min.—Max.	0.11—1.22
		Heating		Rated	1.01
				Min.—Max.	0.20—2.25
				Rated	0.85
				Max.	
				Rated	2.25
				Max.	
Indoor Power Factor		Cooling		85.8	
		Heating		93.4	
Energy Star <sup>*9</sup>				ES, ESCC, ESME	

### NOTES

—Cooling: Indoor temperature of 80°F (26.7°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 (21.1°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 47°FDB (8.33°CDB)/43°FWB (6.11°CWB).  
 17°FDB (Outdoor temp.) —\*1: Heating (17°F): Indoor temperature of 70°FDB (21.1°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FWB (-9.44°CWB).  
 5°FDB (Outdoor temp.) —\*2: Heating (5°F): Indoor temperature of 70°FDB (21.1°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.

Indoor Sound Pressure Level, —\*4:  
 —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)

Wiring spec. —\*6: Selected sample based on Japan Electrotechnical Standards and Codes Committee ED005.

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 <sup>*1</sup>	KAGAMI - Touch Panel Wired Controller
UTY-RNRUZ5 <sup>*1</sup>	Touch Panel Wired Remote Controller
UTY-RHRY <sup>*1</sup>	Simple Wired Remote (Without Mode Function) - Hospitality
UTY-RSRY <sup>*1</sup>	Simple Wired Remote (With Mode Function)
UTY-TWRXZ2	Communication Kit - Wall Mount
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 <sup>*1</sup>	Network Converter - Convert H-Series Comm. Protocol to V/J-Series Comm.
FJ-AC-485-1	Intesis - BACnet MSTP & Modbus RTU Gateway
UTY-TERX <sup>*1</sup>	External Switch Controller
UTY-TTRXZ1 <sup>*1, 2</sup>	24V Thermostat Interface
TTRXZ1-KIT <sup>*1, 2</sup>	24V Thermostat Interface Kit (UTY-TTRXZ1, UTY-WiFi Plug & 24V Transformer)
UTY-XCSXZ2	External input and output PCB
UTY-XWZXZ5	External Connect Kit
UTY-DSGYZ2 <sup>*3</sup>	Airstage Edge Controller
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snowhood
UTZ-DUWBG3A	Wind Baffle

NOTES:

\*1 -Requires Communication kit UTY-TWRXZ2 to connect this device to IDU.

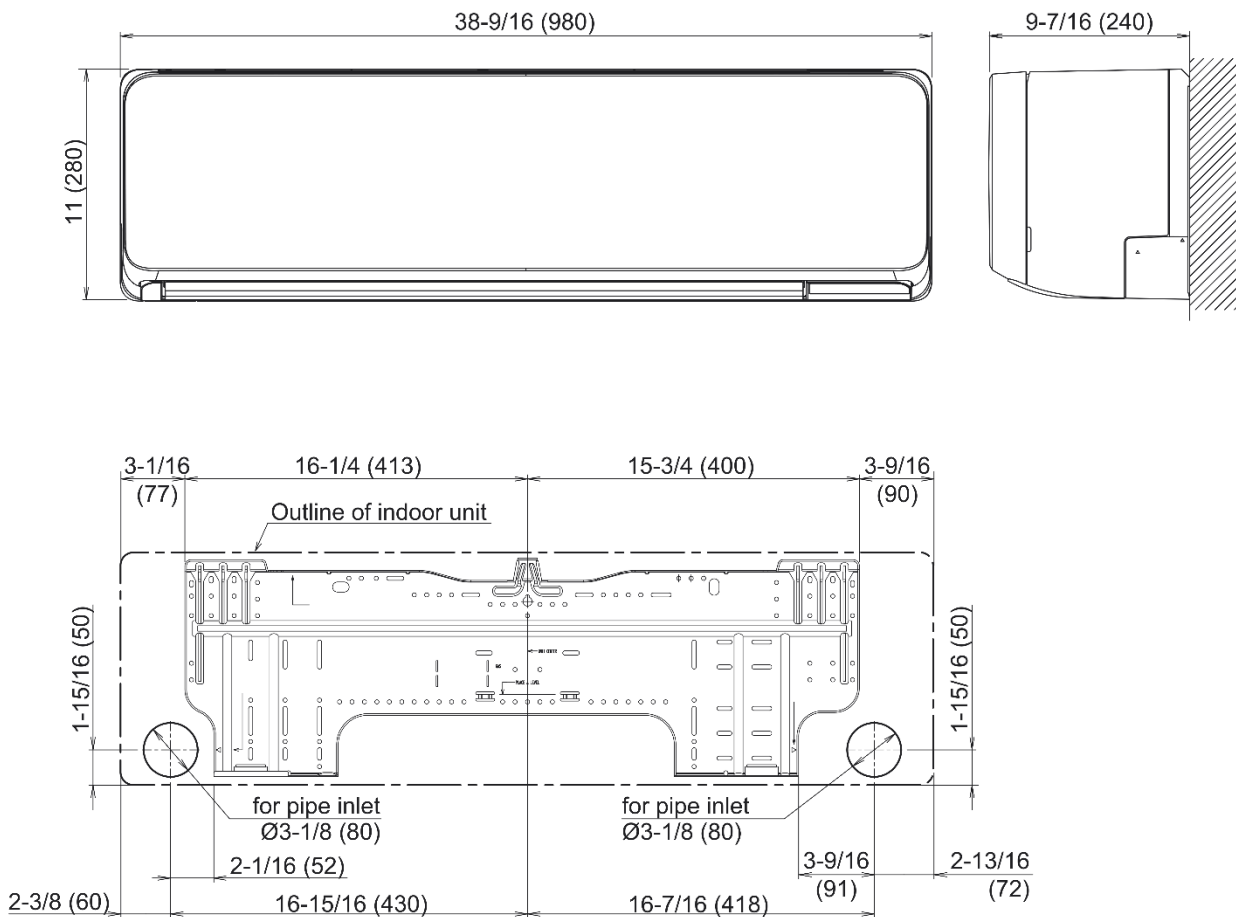
\*2 -This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

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### INDOOR UNIT DIMENSIONS:

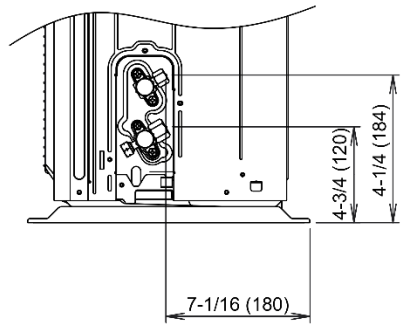
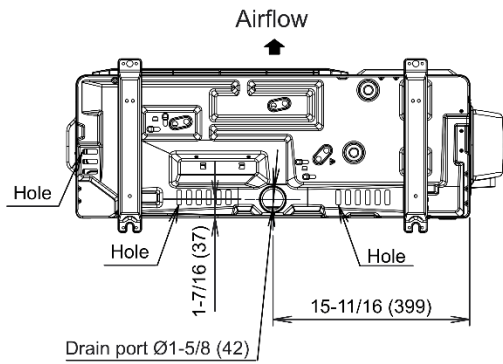
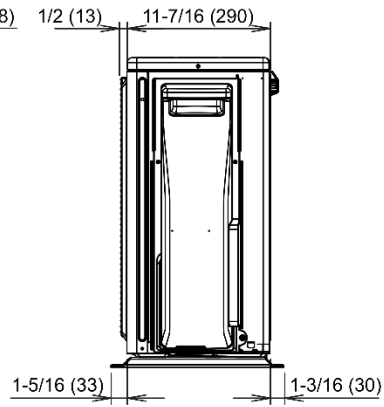
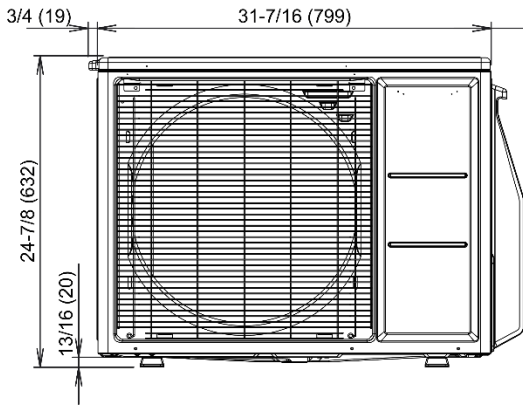
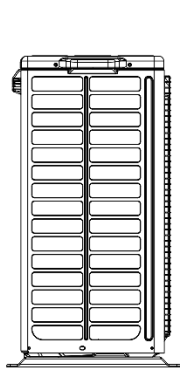
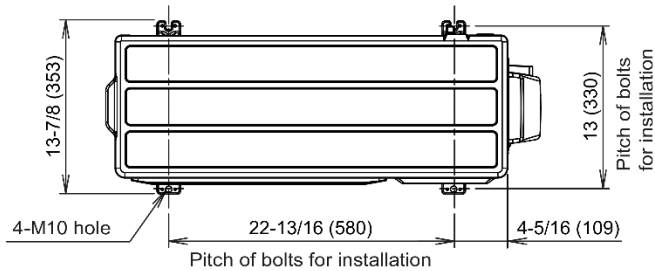
Unit: in (mm)



# SUBMITTAL - 12KZAH1

## OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)



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