FUJITSU

AIRSTAGE Orion XLTH

SUBMITTAL - 12KZAH1

Job Name:_____ Date:_____

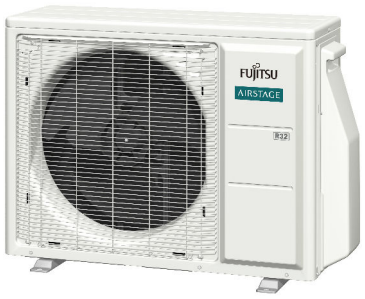
Location:_____

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 3rd 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.

ENERGY STAR

Intertek

LISTED

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: 20250409A

SUBMITTAL - 12KZAH1

SPECIFICATIONS:

Indoor Unit						**ASUH12KZAS**
Outdoor Unit						**AOUH12KZAH1**
System Name						12KZAH1
AHRI Number						214888802
SEER2		Cooling			Btu/hW	30.5
EER2						16
HSPF 2 (IV) / HSPF 2 (V)		Heating				12.7 / 10.1
COP2					kW/kW	4.64
Outdoor Operation Range		Cooling[*8]			°F (°C)	14 to 122 (-10 to 50)
		Heating				-15 to 75 (-26 to 24)
Indoor Capacity		Cooling		Rated	Btu/h	12000
				Min.—Max.		3,100—16,000
		Heating	47°FDB (Outdoor temp.)	Rated		16000
				Min.—Max.		3,500—24,000
			17°FDB (Outdoor temp.)[*1]	Rated		10000
				Max.		18700
			5°FDB (Outdoor temp.)[*2]	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 (m^3/h)	518 (880)
				Med—High		453 (770)
				Med		388 (660)
				Med—Low		347 (590)
				Low		300 (510)
				Quiet		200 (340)
		Heating		High		571 (970)
				Med—High		471 (800)
				Med		406 (690)
				Med—Low		353 (600)
				Low		300 (510)
				Quiet		200 (340)
	Type × Qty					CROSSFLOW FAN × 1
	Motor output				W	59
Outdoor Fan	Airflow rate	Cooling			CFM (m^3/h)	1,171 (1,990)
		Heating				1,089 (1,850)
	Type × Qty					PROPELLER FAN × 1
	Motor output				W	49
Indoor Sound Pressure Level[*4]		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[*4]		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^3 (cm^3)	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	208/230
		Frequency		Hz	60
		Available voltage range		V	187—253
Indoor Current	Cooling		Rated	A	3.8
	Heating				4.7
Maximum Operating Current*3			Cooling		9.4
			Heating		11.9
Outdoor Starting Current					4.7
MCA*5					14.4
Wiring spec.*6	MAX. CKT. BKR*7				15
Indoor Input Power	Cooling		Rated	kW	0.75
			Min.—Max.		0.11—1.22
	Heating	47°FDB (Outdoor temp.)	Rated		1.01
			Min.—Max.		0.20—2.25
		17°FDB (Outdoor temp.)*1	Rated		0.85
			Max.		2.25
		5°FDB (Outdoor temp.)*2	Rated		
			Max.		
Indoor Power Factor	Cooling			%	85.8
	Heating				93.4
Energy Star*9					ES, ESCC, ESME

NOTES:

– Cooling: Indoor temperature of 80°F (26.67°CDB)/67°FWB (19.44°CWB), and outdoor temperature of 95°FDB (35°CDB)/75°FWB (23.9°CWB).
17°FDB (Outdoor temp.), 5°FDB (Outdoor temp.) – 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).
– *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.
Indoor Sound Pressure Level, Outdoor Sound Pressure Level – *4:
– 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.
Maximum Operating Current – *3:
– 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 E0005.
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*1	KAGAMI - Touch Panel Wired Controller
UTY-RNRUZ5*1	Touch Panel Wired Remote Controller
UTY-RHRY*1	Simple Wired Remote (Without Mode Function) - Hospitality
UTY-RSRY*1	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*1	Network Converter - Convert H-Series Comm. Protocol to V/J-Series Comm.
FJ-AC-485-1	Intesis - BACnet MSTP & Modbus RTU Gateway
UTY-TERX*1	External Switch Controller
UTY-TTRXZ1*1, 2	24V Thermostat Interface
TTRXZ1-KIT*1, 2	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*3	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.

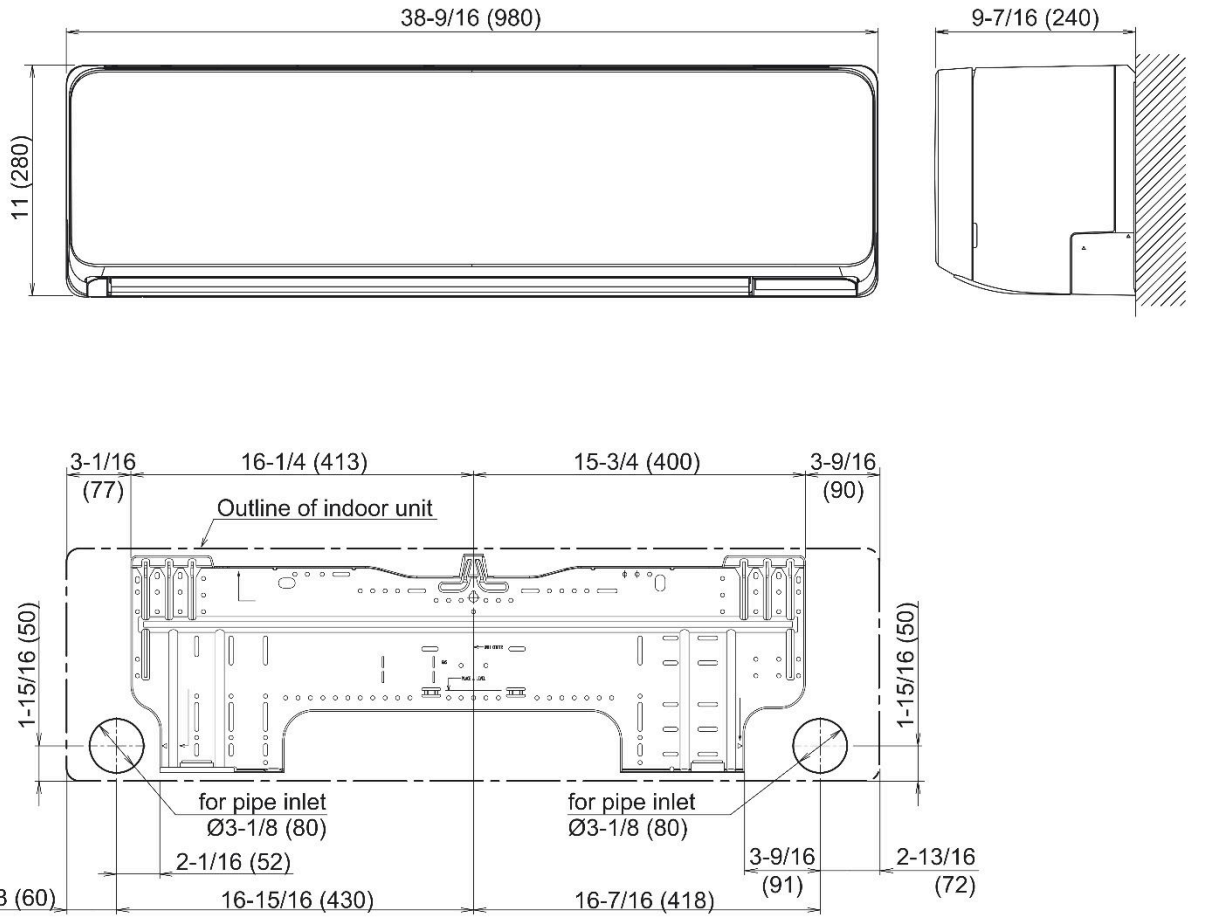
*2 –This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

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INDOOR UNIT DIMENSIONS:

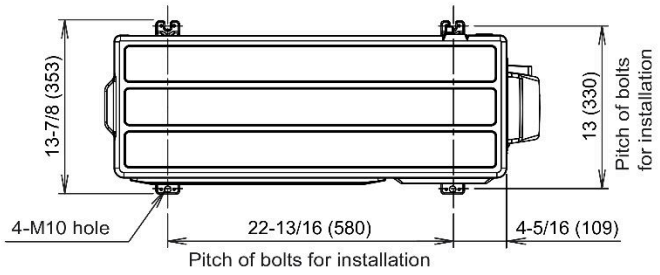
Unit: in (mm)



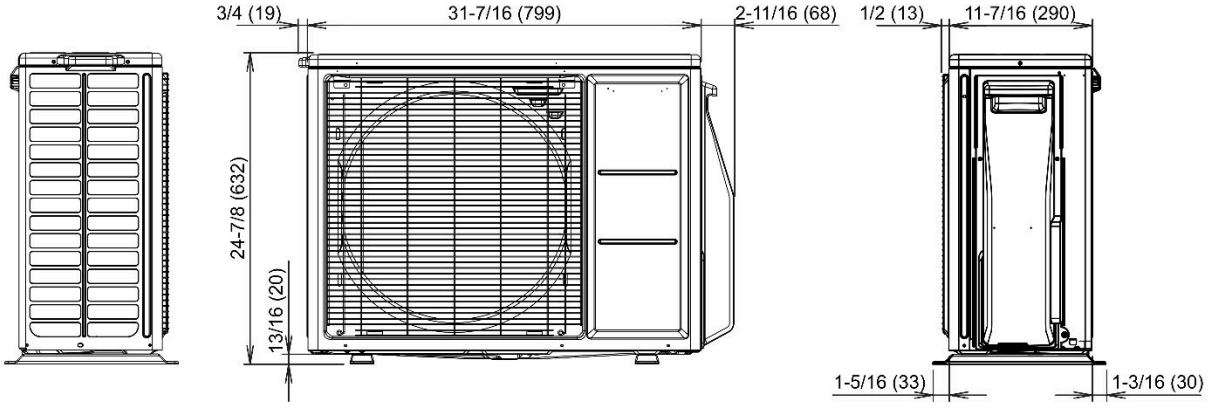
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OUTDOOR UNIT DIMENSIONS:

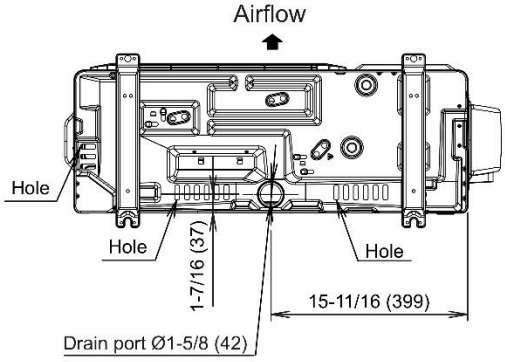
Unit: in (mm)



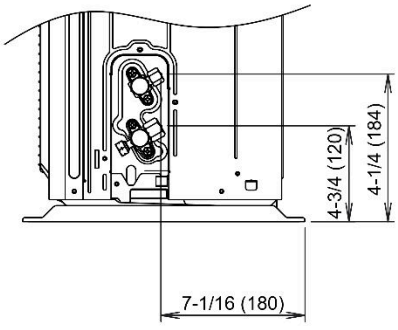
Top view



Side view | Front view | Side view



Bottom view



Side view (Valve part)

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