FUJITSU

AIRSTAGE Altair 500

SUBMITTAL - 12KPAS1

Job Name:_____ Date:_____

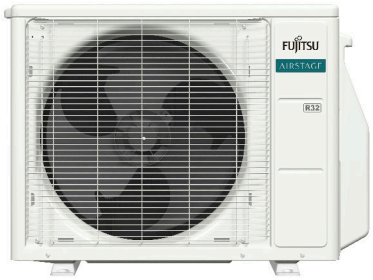
Location:_____

R32

Indoor Unit: **ASUH12KPAS**

Outdoor Unit: **AOUH12KPAS1**





FEATURES

INDOOR UNIT:

- Compact wall-mounted 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 19dB
- 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 with luminous buttons for easy visibility, included with the indoor unit
  - Wi-Fi connectivity with Airstage Mobile App monitoring via compatible USB WLAN adapter
  - 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 FEATURES

- 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 66ft (20m)
- Up to 16% higher rated heating capacity than nominal capacity
- Low-noise outdoor unit operation mode
- Hydro Fin-coated heat exchanger for improved corrosion resistance and coil durability

7 Year Compressor, 5 Year Parts Warranty. 7 Year Compressor, 5 Year Parts out-of-the-box Warranty.

10 Year Compressor & Parts Warranty. 10 Year Compressor, 10 Year Parts Warranty when registered within 60 days of installation in a residence.

12 Year Compressor & Parts Warranty. 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

SUBMITTAL - 12KPAS1

SPECIFICATIONS:

Indoor Unit						**ASUH12KPAS**
Outdoor Unit						**AOUH12KPAS1**
System Name						12KPAS1
AHRI Number						215212610
SEER2		Cooling			Btu/hW	24
EER2						11.7
HSPF 2 (IV) / HSPF 2 (V)		Heating				10.5 / 7.9
COP2					kW/kW	3.8
Outdoor Operation Range		Cooling			°F (°C)	14 to 122*[8] (-10 to 50*[8])
		Heating				5 to 75 (-15 to 24)
Indoor Capacity		Cooling		Rated	Btu/h	12000
				Min.—Max.		3,100—13,600
		Heating	47°FDB (Outdoor temp.)	Rated		14000
				Min.—Max.		2,700—17,000
			17°FDB (Outdoor temp.)*[1]	Rated		8700
				Max.		11000
			5°FDB (Outdoor temp.)*[2]	Rated		8500
				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					66 (20)
	Max. height difference					49 (15)
Indoor Dimensions (H × W × D)		Net			in (mm)	10-5/8 × 32-13/16 × 8-3/4 (270 × 834 × 222)
		Gross				10-7/8 × 36 × 13-1/16 (277 × 914 × 332)
Indoor Weight		Net			lb (kg)	21 (9.5)
		Gross				26 (12.0)
Outdoor Dimensions (H × W × D)		Net			in (mm)	21-5/16 × 26-1/8 × 11-7/16 (541 × 663 × 290)
		Gross				23-11/16 × 31-5/8 × 14-3/4 (602 × 804 × 375)
Outdoor Weight		Net			lb (kg)	57 (26)
		Gross				62 (28)
Indoor Fan	Airflow rate	Cooling		High	CFM (m^3/h)	430 (730)
				Med—High		365 (620)
				Med		318 (540)
				Med—Low		283 (480)
				Low		247 (420)
				Quiet		153 (260)
		Heating		High		436 (740)
				Med—High		394 (670)
				Med		365 (620)
				Med—Low		330 (560)
				Low		300 (510)
				Quiet		188 (320)
	Type × Qty					CROSSFLOW FAN × 1
	Motor output				W	30
Outdoor Fan	Airflow rate	Cooling			CFM (m^3/h)	959 (1,630)
		Heating				818 (1,390)
	Type × Qty					PROPELLER FAN × 1
	Motor output				W	23
Indoor Sound Pressure Level*[4]		Cooling		High	dB (A)	42
				Med—High		38
				Med		34
				Med—Low		32
				Low		29
				Quiet		19
		Heating		High		42
				Med—High		39
				Med		38
				Med—Low		35
				Low		33
				Quiet		21
Outdoor Sound Pressure Level*[4]		Cooling				48
		Heating				

SUBMITTAL - 12KPAS1

SPECIFICATIONS:

Outdoor Refrigerant		Type			R32
		Charge		lb oz	1 lb 9 oz
				g	700
Additional Charge Calculation				oz/ft	0.22
				g/m	20
Outdoor Refrigerant Oil		Type			RB74AF
		Amount		in^3 (cm^3)	14.6 (240)
Indoor Moisture removal				pints/h (L/h)	3.40 (1.59)
Indoor Drain hose		Material			POLYPROPYLENE + HIGH-DENSITY POLYETHYLENE
		Tip Diameter		in (mm)	I.D.: Ø17/32 (Ø13.8), O.D.: Ø19/32 to Ø21/32 (Ø15.0 to Ø16.8)
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	4.8
	Heating				5
Maximum Operating Current*3			Cooling		6.9
			Heating		7.9
Outdoor Starting Current					5
MCA*5					9.7
Wiring spec.*6	MAX. CKT. BKR*7				15
Indoor Input Power	Cooling		Rated	kW	1.03
			Min.—Max.		0.13—1.35
	Heating	47°FDB (Outdoor temp.)	Rated		1.08
			Min.—Max.		0.13—1.43
		17°FDB (Outdoor temp.)*1	Rated		0.89
			Max.		1.2
		5°FDB (Outdoor temp.)*2	Rated		1.095
			Max.		
Indoor Power Factor	Cooling			%	93.3
	Heating				93.9
Energy Star*9					ES

NOTES:

17°FDB (Outdoor temp.), 5°FDB (Outdoor temp.)
– 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).
– 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.

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.

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 - 12KPAS1

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
UTY-TFSXH4	Wi-Fi Adapter (WiFi Interface Module USB 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*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-XWZX	External Wire Kit
UTY-XWZXZ5	External Connect Kit
UTY-DSGYZ2*3	Airstage Edge Controller

NOTES:

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

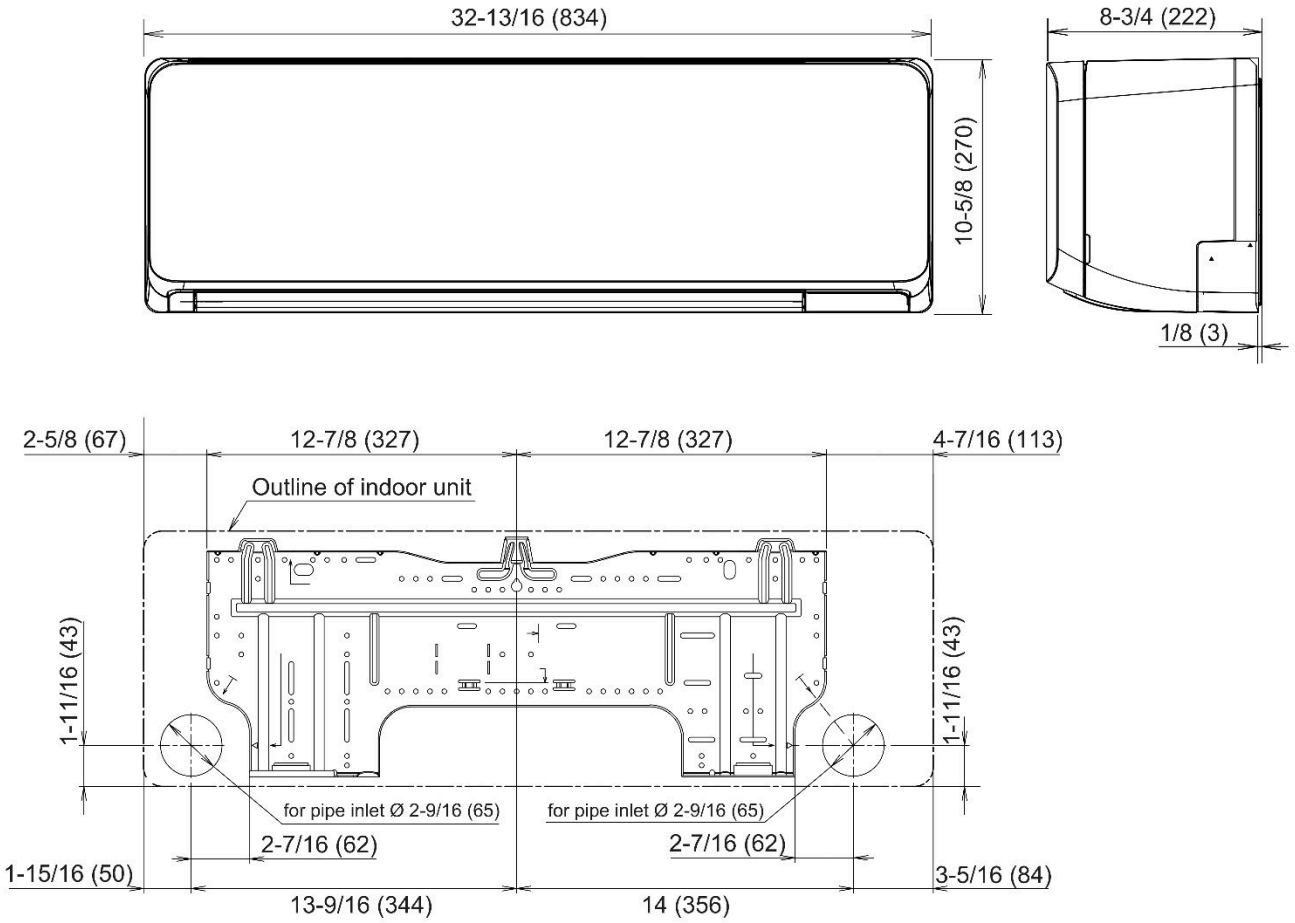
*2 –This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

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

SUBMITTAL - 12KPAS1

INDOOR UNIT DIMENSIONS:

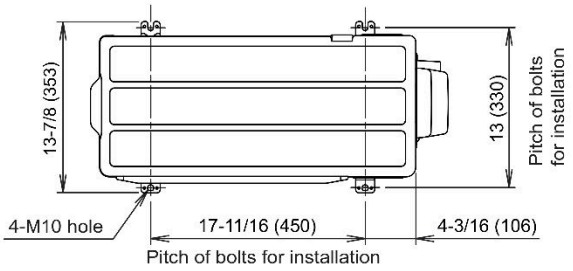
Unit: in (mm)



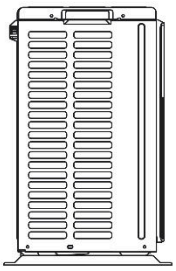
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OUTDOOR UNIT DIMENSIONS:

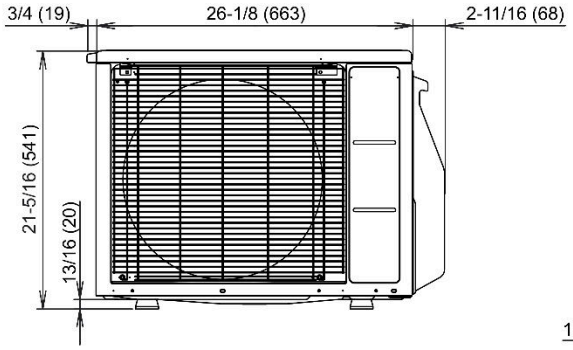
Unit: in (mm)



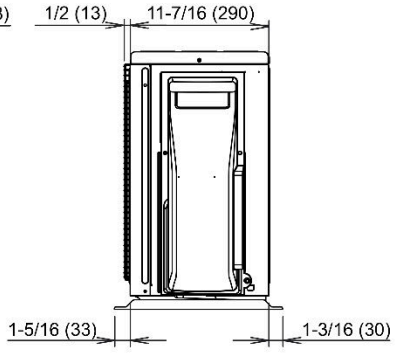
Top view



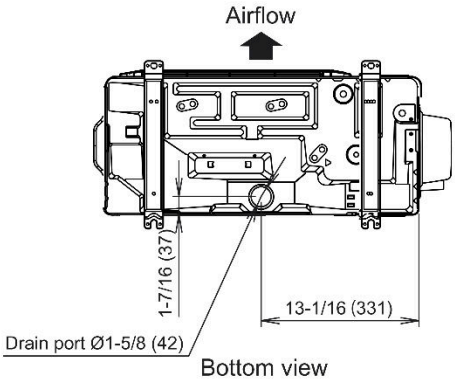
Side view



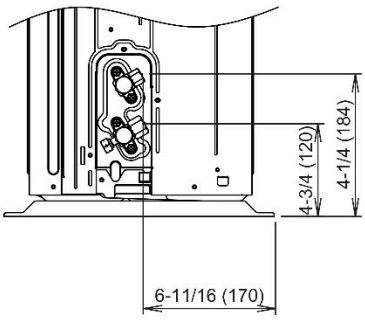
Front view



Side view



Bottom view



Side view (Valve part)

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