FUJITSU

AIRSTAGE Altair 500

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

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

12 Year Compressor & Parts — 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 ETL LISTED · UL LISTED · CSA

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

SPECIFICATIONS:

					ASUH12KPAS
Indoor Unit					ASUH12KPAS
Outdoor Unit					AOUH12KPAS1
System Name					12KPAS1
AHRI Number					215212610
SEER2		Cooling		Btu/hW	24
EER2					11.7
HSPF2		Heating		kW/kW	10.5
COP2					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 (m³/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 (m³/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			

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	in³ (cm³)	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	4.8
	Heating		5
Maximum Operating Current[*3]		Cooling	6.9
		Heating (A)	7.9
Outdoor Starting Current			5
MCA[*5]			9.7
Wiring spec.[*6]	MAX. CKT. BKR[*7]		15
Indoor Input Power	Cooling	Rated	1.03
		Min.—Max.	0.13—1.35
	Heating · 47°FDB (Outdoor temp.)	Rated	1.08
		Min.—Max. (kW)	0.13—1.43
	Heating · 17°FDB (Outdoor temp.)[*1]	Rated	0.89
		Max.	1.2
	Heating · 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.
- −*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)

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.
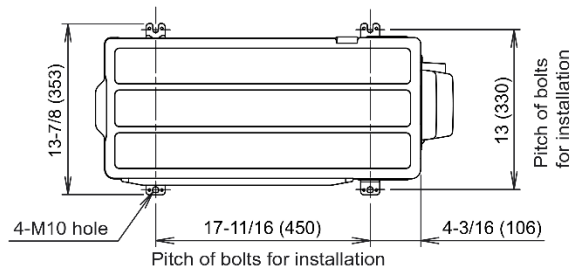
SUBMITTAL - 12KPAS1

INDOOR UNIT DIMENSIONS:
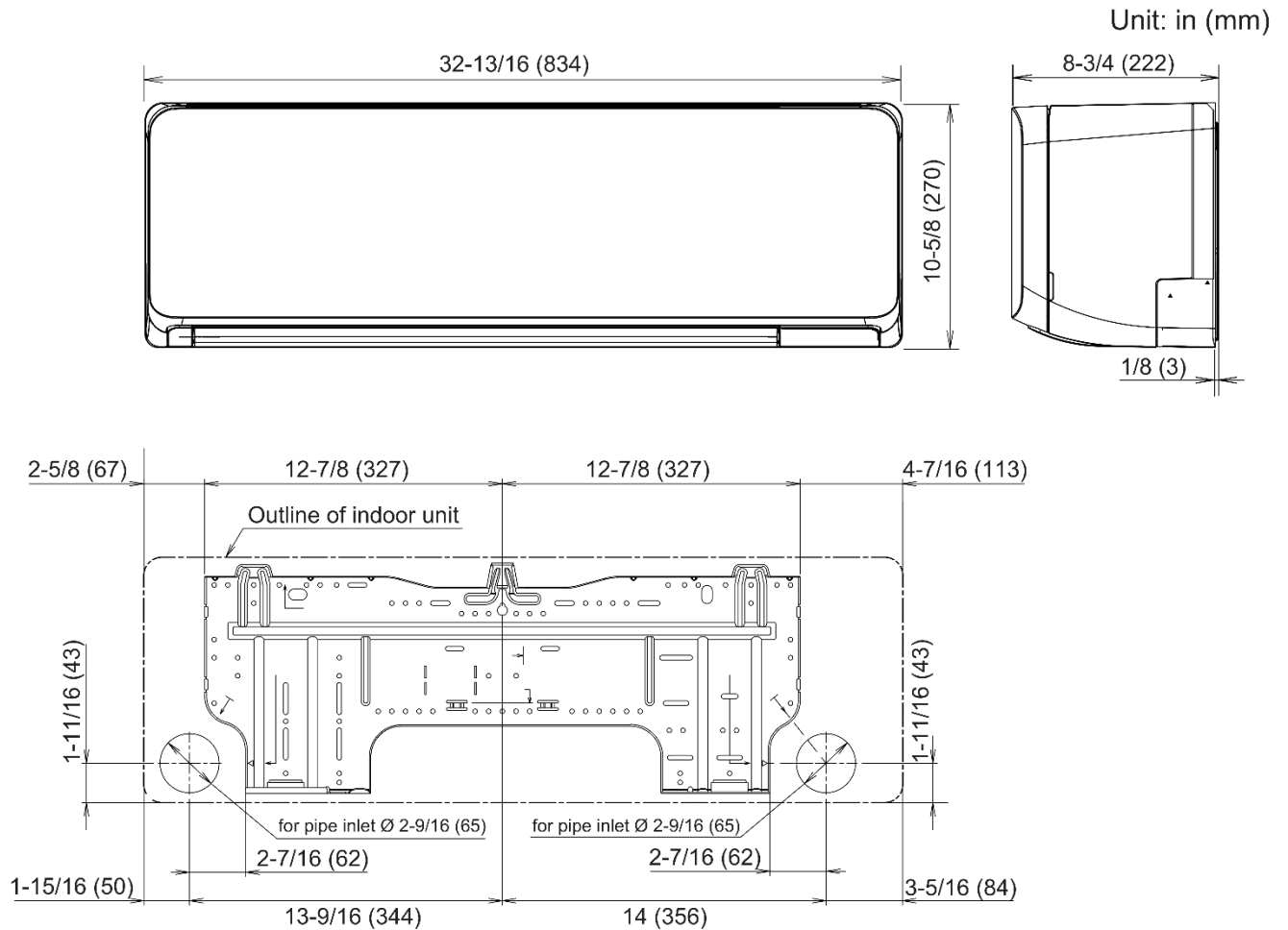
Unit: in (mm)

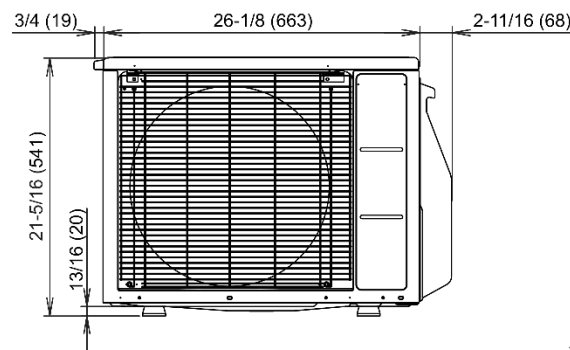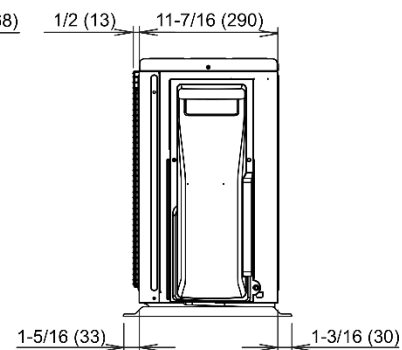**OUTDOOR UNIT DIMENSIONS:**

Unit: in (mm)

Top view

Side view

Front view

Side view
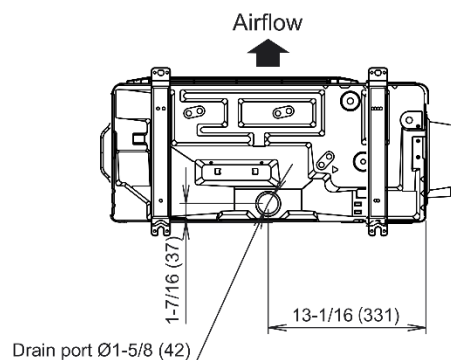
Bottom view

Side view (Valve part)

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