FUJITSU

AIRSTAGE Altair 500

SUBMITTAL - 18KPAS1

Job Name:_____ Date:_____

Location:_____

R32

Indoor Unit: **ASUH18KPAS**

Outdoor Unit: **AOUH18KPAS1**





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 26dB
- 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:

- Low GWP R-32 systems for reduced environmental impact
- INVERTER-driven compressor that offers superior performance, comfort, and energy savings
- Special Cooling Operation extends cooling operation down to -4°F (-20°C)
- Compact outdoor unit with extended line set lengths up to 98ft (30m)
- 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

Version: 20250409A

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SPECIFICATIONS:

Indoor Unit						**ASUH18KPAS**
Outdoor Unit						**AOUH18KPAS1**
System Name						18KPAS1
AHRI Number						215441046
SEER2		Cooling			Btu/hW	22
EER2						12.5
HSPF 2 (IV) / HSPF 2 (V)		Heating				10.5 / 8.3
COP2					kW/kW	4.2
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	18000
				Min.—Max.		4,000—20,000
		Heating	47°FDB (Outdoor temp.)	Rated		18000
				Min.—Max.		4,150—24,000
			17°FDB (Outdoor temp.)*[1]	Rated		11300
				Max.		21700
			5°FDB (Outdoor temp.)*[2]	Rated		18500
				Max.		
Outdoor Connection pipe	Size	Liquid			in (mm)	Ø1/4 (Ø6.35)
		Gas				Ø1/2 (Ø12.70)
	Method					FLARE
	Pre-charge length				ft (m)	49 (15)
	Min. length					10 (3)
	Max. length					98 (30)
	Max. height difference					82 (25)
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				93 (42)
Indoor Fan	Airflow rate	Cooling		High	CFM (m^3/h)	536 (910)
				Med—High		506 (860)
				Med		483 (820)
				Med—Low		430 (730)
				Low		377 (640)
				Quiet		259 (440)
		Heating		High		506 (860)
				Med—High		465 (790)
				Med		430 (730)
				Med—Low		388 (660)
				Low		347 (590)
				Quiet		277 (470)
	Type × Qty					CROSSFLOW FAN × 1
	Motor output				W	59
Outdoor Fan	Airflow rate	Cooling			CFM (m^3/h)	1,218 (2,070)
		Heating				1,348 (2,290)
	Type × Qty					PROPELLER FAN × 1
	Motor output				W	49
Indoor Sound Pressure Level*[4]		Cooling		High	dB (A)	44
				Med—High		43
				Med		42
				Med—Low		40
				Low		37
				Quiet		26
		Heating		High		43
				Med—High		41
				Med		39
				Med—Low		37
				Low		34
				Quiet		28
Outdoor Sound Pressure Level*[4]		Cooling				50
		Heating				

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SPECIFICATIONS:

Outdoor Refrigerant		Type			R32
		Charge		lb oz	2 lb 10 oz
				g	1200
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			POLYPROPYLENE + HIGH-DENSITY POLYETHYLENE
		Tip Diameter		in (mm)	Ø17/32 (Ø13.8) (I.D.), Ø19/32 to 21/32 (Ø15 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	6.7
	Heating				5.6
Maximum Operating Current*3			Cooling		9.9
			Heating		11.9
Outdoor Starting Current					5.6
MCA*5					11.9
Wiring spec.*6	MAX. CKT. BKR*7				15
Indoor Input Power	Cooling		Rated	kW	1.44
			Min.—Max.		0.20—1.90
	Heating	47°FDB (Outdoor temp.)	Rated		1.26
			Min.—Max.		0.21—2.10
		17°FDB (Outdoor temp.)*1	Rated		1.01
			Max.		2.45
		5°FDB (Outdoor temp.)*2	Rated		
			Max.		
Indoor Power Factor	Cooling			%	97.3
	Heating				98
Energy Star*9					ES, ESCC, ESME

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 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.

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
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
UTZ-DUHGG3A	Hail Guard
UTZ-DUSHG3A	Snowhood
UTZ-DUWBG3A	Wind Baffle

NOTES:

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

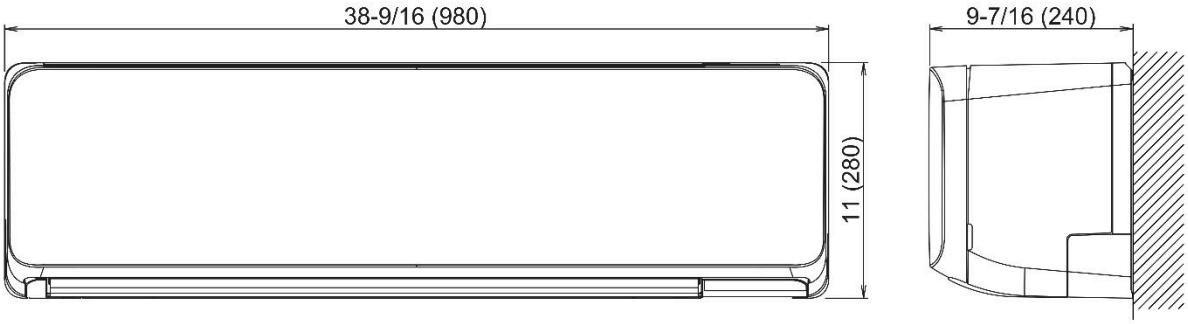
*2 –This device may not be used with any other type of controls (central controller, wire/wireless RC, WiFi adapter, BMS interface).

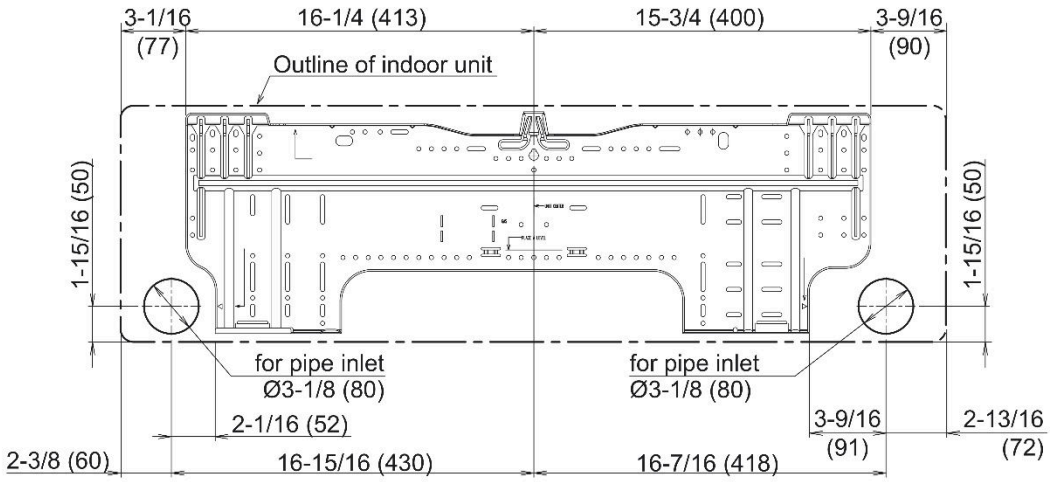
*3 –Connection to AIRSTAGE Cloud requires a compatible AIRSTAGE Mobile adapter connected to the IDU.

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INDOOR UNIT DIMENSIONS:

Unit: in (mm)

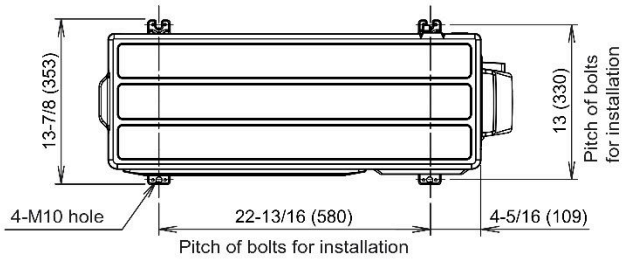




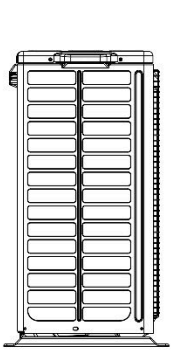
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OUTDOOR UNIT DIMENSIONS:

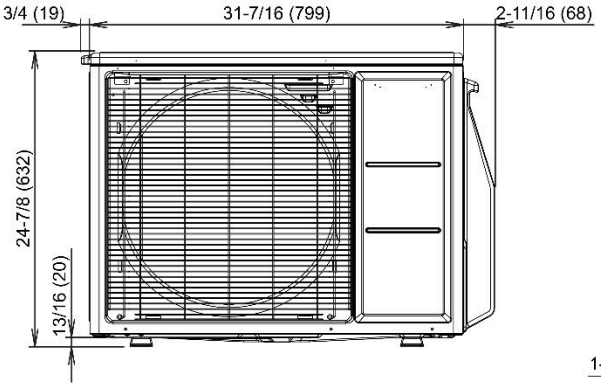
Unit: in (mm)



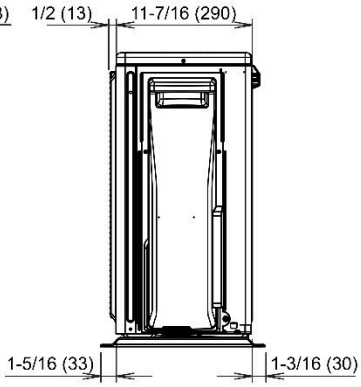
Top view



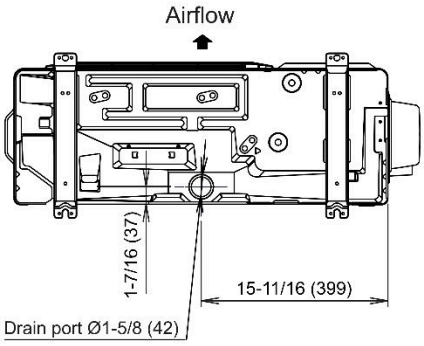
Side view



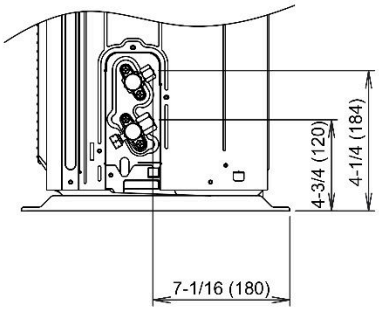
Front view



Side view



Bottom view



Side view (Valve part)

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