SUBMITTAL - 09KMAS1

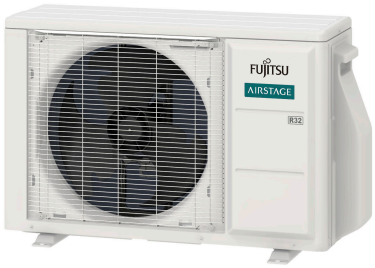
Job Name:_____ Date:_____

Location:_____

R32

Indoor Unit: **ASUH09KMAS**

Outdoor Unit: **AOUH09KMAS1**



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, 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:
  - Wireless Remote Controller provided with the indoor unit
  - Built-in Wi-Fi connectivity with remote monitoring via the Airstage Mobile App
  - 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
- Compact outdoor unit with extended line set lengths up to 66ft (20m)
- Up to 33% 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 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						**ASUH09KMAS**
Outdoor Unit						**AOUH09KMAS1**
System Name						09KMAS1
AHRI Number						214390707
SEER2		Cooling			Btu/hW	30
EER2						16.4
HSPF2		Heating				12.6
COP2					kW/kW	4.64
Outdoor Operation Range		Cooling			°F (°C)	14 to 122 (-10 to 50)
		Heating				5 to 75 (-15 to 24)
Indoor Capacity		Cooling		Rated	Btu/h	9000
				Min.—Max.		3,100—12,100
		Heating	47°FDB (Outdoor temp.)	Rated		12000
				Min.—Max.		2,800—18,100
			17°FDB (Outdoor temp.)*1	Rated		7400
				Max.		12600
			5°FDB (Outdoor temp.)*2	Rated		10300
				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)	22 (10)
		Gross				28 (12.5)
Outdoor Dimensions (H × W × D)		Net			in (mm)	21-5/16 × 31-7/16 × 11-7/16(542 × 799 × 290)
		Gross				23-11/16 × 37 × 14-3/4(602 × 940 × 375)
Outdoor Weight		Net			lb (kg)	71 (32)
		Gross				77 (35)
Indoor Fan	Airflow rate	Cooling		High	CFM (m^3/h)	400 (680)
				Med		324 (550)
				Low		253 (430)
				Quiet		153 (260)
		Heating		High		441 (750)
				Med		371 (630)
				Low		300 (510)
				Quiet		188 (320)
	Type × Qty					CROSSFLOW FAN × 1
	Motor output				W	49
Outdoor Fan	Airflow rate	Cooling			CFM (m^3/h)	901 (1,530)
		Heating				889 (1,510)
	Type × Qty					PROPELLER FAN × 1
	Motor output				W	23
Indoor Sound Pressure Level*4		Cooling		High	dB (A)	40
				Med		35
				Low		30
				Quiet		19
		Heating		High		42
				Med		38
				Low		33
				Quiet		21
Outdoor Sound Pressure Level*4		Cooling				44
		Heating				47

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SPECIFICATIONS:

Outdoor Refrigerant	Type			R32
	Charge		lb oz	1 lb 14 oz
			g	850
Additional Charge Calculation			oz/ft	0.22
			g/m	20
Outdoor Refrigerant Oil	Type			RB68A
	Amount		in^3 (cm^3)	20.7 (340)
Indoor Moisture removal			pints/h (L/h)	2.9 (1.38)
Indoor Drain hose	Material			POLYVINYL CHLORIDE
	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	2.9
	Heating			3.8
Maximum Operating Current[*3]		Cooling		6.4
		Heating		9.4
Outdoor Starting Current				3.8
MCA[*5]				11.5
Wiring spec.[*6]	MAX. CKT. BKR[*7]			15
Indoor Input Power	Cooling	Rated	kW	0.55
		Min.—Max.		0.13—0.94
	Heating	47°FDB (Outdoor temp.) Rated		0.76
		47°FDB (Outdoor temp.) Min.—Max.		0.14—1.61
		17°FDB (Outdoor temp.)[*1] Rated		0.67
		17°FDB (Outdoor temp.)[*1] Max.		1.41
		5°FDB (Outdoor temp.)[*2] Rated		1.3
		5°FDB (Outdoor temp.)[*2] Max.		
Indoor Power Factor	Cooling		%	82.5
	Heating			87
Energy Star*[8]				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

Energy Star ï *8 : 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-XWZX	External Wire Kit
UTY-XWZXZ5	External Connect Kit
UTY-DSGYZ2*3	Airstage Edge Controller
UTZ-DUHGG2A	Hail Guard
UTZ-DUSHG2A	Snowhood
UTZ-DUWBG2A	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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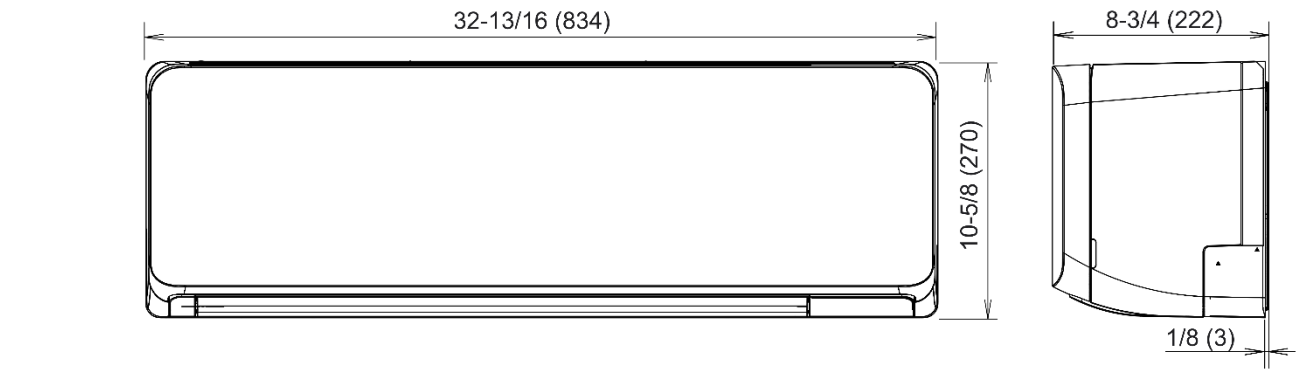
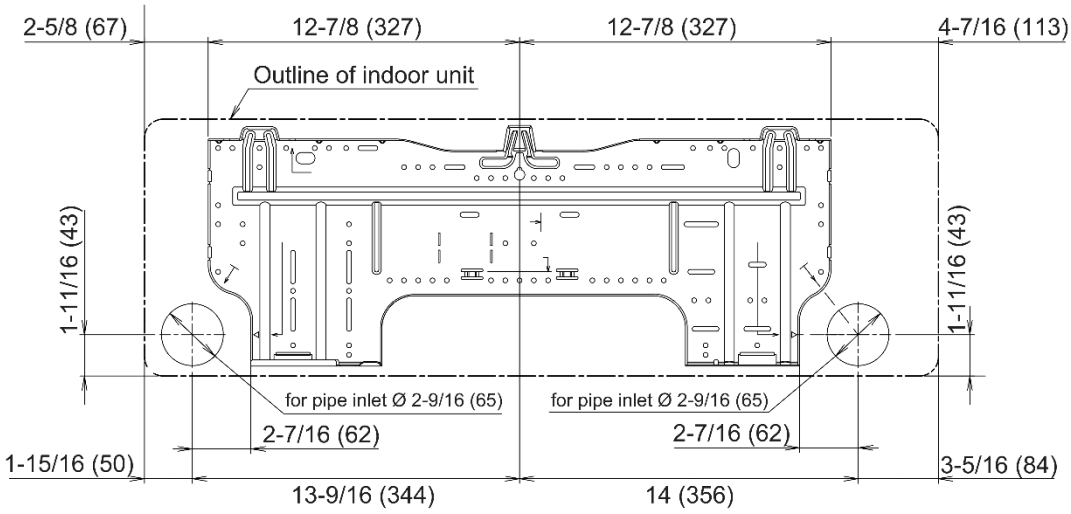
INDOOR UNIT DIMENSIONS:

Unit: in (mm)





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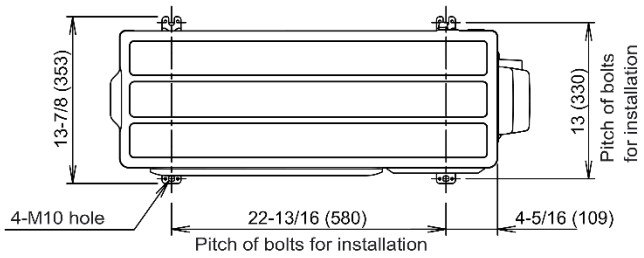
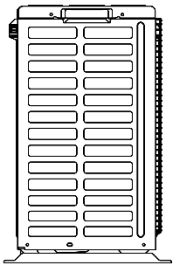
OUTDOOR UNIT DIMENSIONS:

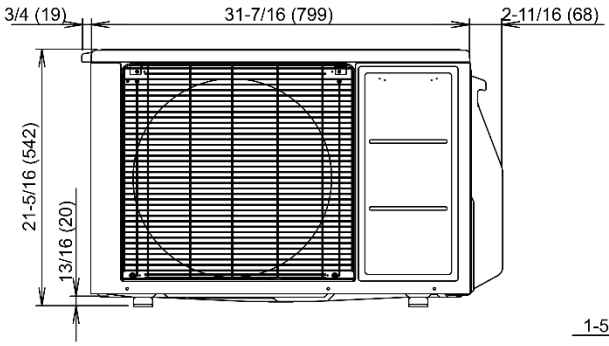
Unit: in (mm)



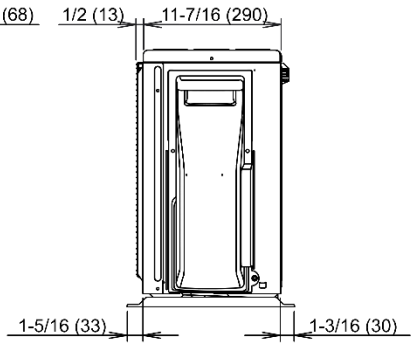
Top view



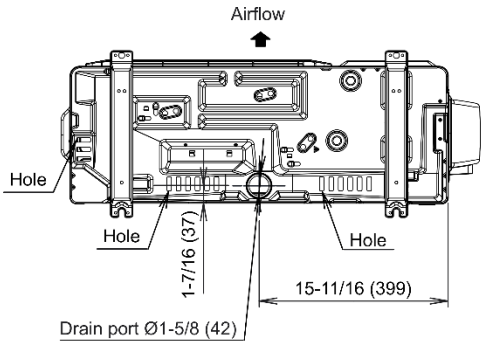
Side view



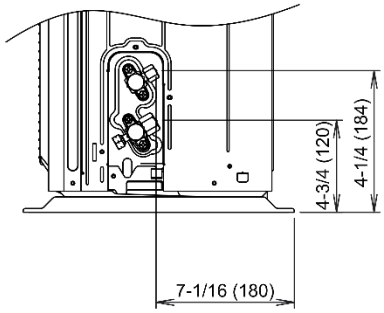
Front view



Side view



Bottom view



Side view (Valve part)

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