

SUBMITTAL - 48KUAH1M

Job Name: _____

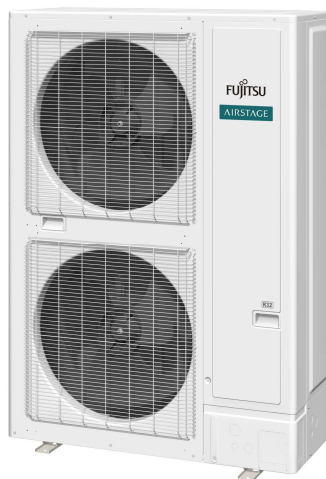
Date: _____

Location: _____

R32

Indoor Unit: **AMUH48KUAS**

Outdoor Unit: **AOUH48KUAH1**



FEATURES

INDOOR UNIT:

- Ducted Multi-Position Air Handling Unit ideal for whole home cooling and heating
- Multi-position configuration: Up flow, Left, Right, or Downflow (Optional Downflow kit required)
- Low-noise design with sound levels as low as 34 dB
- Built-in refrigerant leak detection sensor
- Multiple fan speed options; Auto, High, Med, Low, and Quiet
- Wide external static pressure (ESP) range: up to 0.8 inWG
- Special Operation modes available:
 - Economy Mode/ Automatic defrosting operation / Auto-restart function
- Enhanced control platform:
 - Wireless control available via optional IR receiver and wireless remote (UTY-LBTUM)
 - Optional Wi-Fi module enables remote access through the Airstage Mobile App
 - Supports third-party interface connectivity for expanded integration
 - BACnet and Modbus protocol compatibility for Building Management and Home Automation systems
- Advanced scheduling and timer options with Weekly Timer / 24-hr Timer / Sleep Function
- Built-in I/O terminals support integration with third-party devices (e.g. fire alarms, door switches, humidifiers, auxiliary heat, and ERV/HRV systems)
- Optional electric heater kits for additional heat capacity
- Emergency heat supported via external output terminal and configurable through function settings
- Integrated backup heat control provides reliable operation in extreme conditions
- Service monitoring functionality via compatible accessories (UTY-RVRU & UTY-RNRUZ-series)
- Supports 24Vac thermostat connections for third-party control integration
- Ideal for installation in zero-clearance applications (e.g. mobile homes, manufactured homes)
- Low air leakage rate of less than 2%, tested per ASHRAE Standard 193.
- Compatible with Airzone third-party communicating zoning system.

OUTDOOR UNIT:

- Low GWP R-32 systems for reduced environmental impact
- Common Outdoor Unit compatible with all non-wall-mounted indoor unit types
- INVERTER-driven compressor that offers superior performance, comfort, and energy savings
- Built-in base pan heater for low ambient conditions
- Factory pre-charged for up to 98 ft (30 m) of refrigerant piping
- Extended line set length up to 246ft (75m)
- Low ambient operation with heating down to -15°F and cooling down to -5°F
- Exceeds 100% heating capacity at 5°F and 75% at -15°F (Dry bulb)
- Blue 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>

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SPECIFICATIONS:

Indoor Unit				AMUH48KUAS			
Outdoor Unit				AOUH48KUAH1			
System Name				48KUAH1M			
AHRI Reference #				217895718			
Efficiency	SEER2		Btu/hW	19			
	EER2			11.2			
	HSPF 2 (IV) / HSPF 2 (V)			10.2 / 8.4			
	COP2		kW/kW	3.72			
Energy Star ⁹				ES, ESCC, ESME			
Operation Range	Cooling		°F (°C)	-5 to 122* ⁸ (-21 to 50* ⁸)			
	Heating			-15 to 75 (-26 to 24)			
Capacity	Cooling		Btu/h	45,500			
				15,400-50,000			
	Heating	47°FDB (Outdoor temp.)		Rated	51,000		
				Min.—Max.	16,000—55,000		
		17°FDB (Outdoor temp.)* ¹		Rated	34,000		
					Max.	52,100	
				5°FDB (Outdoor temp.)* ²	Rated	51,000	
						Max.	51,000
Connection pipe	Size		in (mm)	03/8 (09.52)			
				05/8 (015.88)			
	Method			Flare			
	Pre-charge length		ft (m)	98 (30)			
	Min. length			17 (5)			
	Max. length			246 (75)			
Max. height difference		98 (30)					
Indoor Dimensions (H x W x D)	Net		in (mm)	48 x 21 x 21 (1,219 x 533 x 533)			
	Gross			52 x 23 x 26-3/4(1,321 x 584 x 679)			
Indoor Weight	Net		lb (kg)	137 (62.1)			
	Gross			150 (68.0)			
Outdoor Dimensions (H x W x D)	Net		in (mm)	55-13/16 x 38-3/16 x 14-9/16 (1,418 x 970 x 370)			
	Gross			62-9/16 x 41-5/8 x 19-1/2 (1,589 x 1,057 x 495)			
Outdoor Weight	Net		lb (kg)	225 (102)			
	Gross			249 (113)			
Indoor Fan	Airflow rate	Cooling	High	CFM (m³/h)	1,600 (2,718)		
			Med		1,201 (2,040)		
			Low		971 (1,650)		
			Quiet		842 (1,430)		
		Heating	High		1,600 (2,718)		
			Med		1,201 (2,040)		
			Low		971 (1,650)		
			Quiet		842 (1,430)		
	Type x Qty			Sirocco fan x 1			
	Outdoor Fan	Motor output		W	624		
Airflow rate		Cooling	CFM (m³/h)	4,179 (7,100)			
		Heating		3,649 (6,200)			
Type x Qty			Propeller fan x 2				
Indoor Sound Pressure Level* ⁴	Motor output		W	120 x 2			
	Cooling	High	dB (A)	49			
		Med		44			
		Low		37			
		Quiet		34			
	Heating	High		51			
		Med		44			
		Low		39			
		Quiet		36			
		Outdoor Sound Pressure Level* ⁴		Cooling	54		
Heating				54			

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SPECIFICATIONS:

Refrigerant	Type		R32			
	Charge	lb oz	8 lb 6 oz			
		g	3800			
	Additional Charge Calculation	oz/ft	0.43			
g/m		40				
Refrigerant Oil	Type		RmM68AF			
	Amount	in 3 (cm3)	70.2 (1,150)			
Moisture removal		pints/h (L/h)	9.9 (4.70)			
Drain hose(IU)	Material		0			
	Tip Diameter		0			
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)			
Electrical	System Power Supply	Voltage	V	208/230		
		Frequency	Hz	60		
		Available voltage range		V	187-253	
	Current	Cooling	Rated	A	18	
		Heating			17.8	
	Maximum Operating Current ^{*3}	Cooling	25.1			
		Heating	37.1			
	Outdoor Starting Current				18	
	Minimum Circuit Ampacity ^{*5}				37.5	
	Wiring spec. ^{*6}	MAX. CKT. BKR ^{*7}			45	
Input Power	Cooling		kW		4.06	
					Min.—Max.	5.26
	Heating	47°FDB (Outdoor temp.)			Rated	4.02
				Min.—Max.	4.55	
		17°FDB (Outdoor temp.) ^{*1}		Rated	3.48	
				Max.	6.75	
		5°FDB (Outdoor temp.) ^{*2}		Rated	7.63	
				Max.	7.63	
Power Factor	Cooling		%	98.1		
	Heating			98.2		

Notes:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 80°FDB/67°F WB (26.67°CDB/19.44°CWB), and outdoor temperature of 95°FDB/75°F WB (35°CDB/23.9°CWB).
 - Heating: Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 47°FDB/43°F WB (8.33°CDB/6.11°CWB).
 - *1: Heating (17°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 17°FDB/15°F WB (-8.33°CDB/-9.44°CWB).
 - *2: Heating (5°F): Indoor temperature of 70°FDB/60°F WB (21.11°CDB/15.56°CWB), and outdoor temperature of 5°FDB/4°F WB (-15.0°CDB/-15.56°CWB).
 - Test conditions are based on AHRI 210/240 2023.
 - Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)
- *3: Maximum current:
 - The maximum value when operated within the operation range.
 - The total current of indoor unit and outdoor unit.
- *4: 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
- *5: Minimum Circuit Ampacity (Calculation based on UL60335-2-40)
- *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.

- *7: Maximum Circuit Breaker
- *8: Suction Temperature of the Outdoor Unit
- *9: Energy Star: 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	KAGAMI - Wired Remote Controller
UTY-RNRUZ-Series	Wired Remote Controller
UTY-RHRYZ-Series	Wired Remote Controller - Hospitality
UTY-RSRYZ-Series	Simple Wired Remote Controller
UTY-LBTUM	IR Receiver Kit w/ Wireless Remote Controller
UTY-TFSXJ4	Wi-Fi adapter (WiFi Interface Module UART Type)
FJ-AC-WIFI-1	Intesis Wi-Fi Device: Wired Module
FJ-IR-WIFI-1NA * ¹	Intesis IR Wireless AC Cloud Control Interface
UTY-VMSX	Modbus Converter
UTY-VTGX	Network Converter - Convert H-Series Comm. Protocol to V/J-Series Comm. Protocol (Pink Wire)
FJ-AC-485-1	Intesis - BACnet MSTP & Modbus RTU Gateway,
UTY-TERX	External Switch Controller
UTY-TTRXZ1 * ²	24V Thermostat Interface
TTRXZ1-KIT * ²	24V Thermostat Interface Kit (UTY-TTRXZ1, UTY-WiFi Plug & 24V Transformer)
UTY-XSZXZ1	Remote Temperature Sensor
UTY-XCSX	External input and output PCB
UTY-XWZXZG	External Connect Kit
UTY-XWZXZJ	Wire Kit - External Input and Output
UTZ-GXRA	External input and output PCB box
UTY-XWZXZK	External 3rd Party Auxiliary Heater Wire Kit (1-stage)
UTY-XWZXZP	External 3rd Party Auxiliary Heater Wire Kit (2-stage)
UTZ-EU05MMA	Heater Kit - 5kW, 1 Stage, 208/240V, Single Phase
UTZ-EU08MMA	Heater Kit - 8kW, 1 Stage, 208/240V, Single Phase
UTZ-EU16MMB2	Heater Kit - 16kW, 2 Stage, 208/240V, Single Phase
UTD-DFMMB1	Downflow Configuration Kit, Medium Cabinet: 30k, 36k, 48k
86ET0001	20 x 20 Filter Base, Medium Cabinet: 30k, 36k, 48k

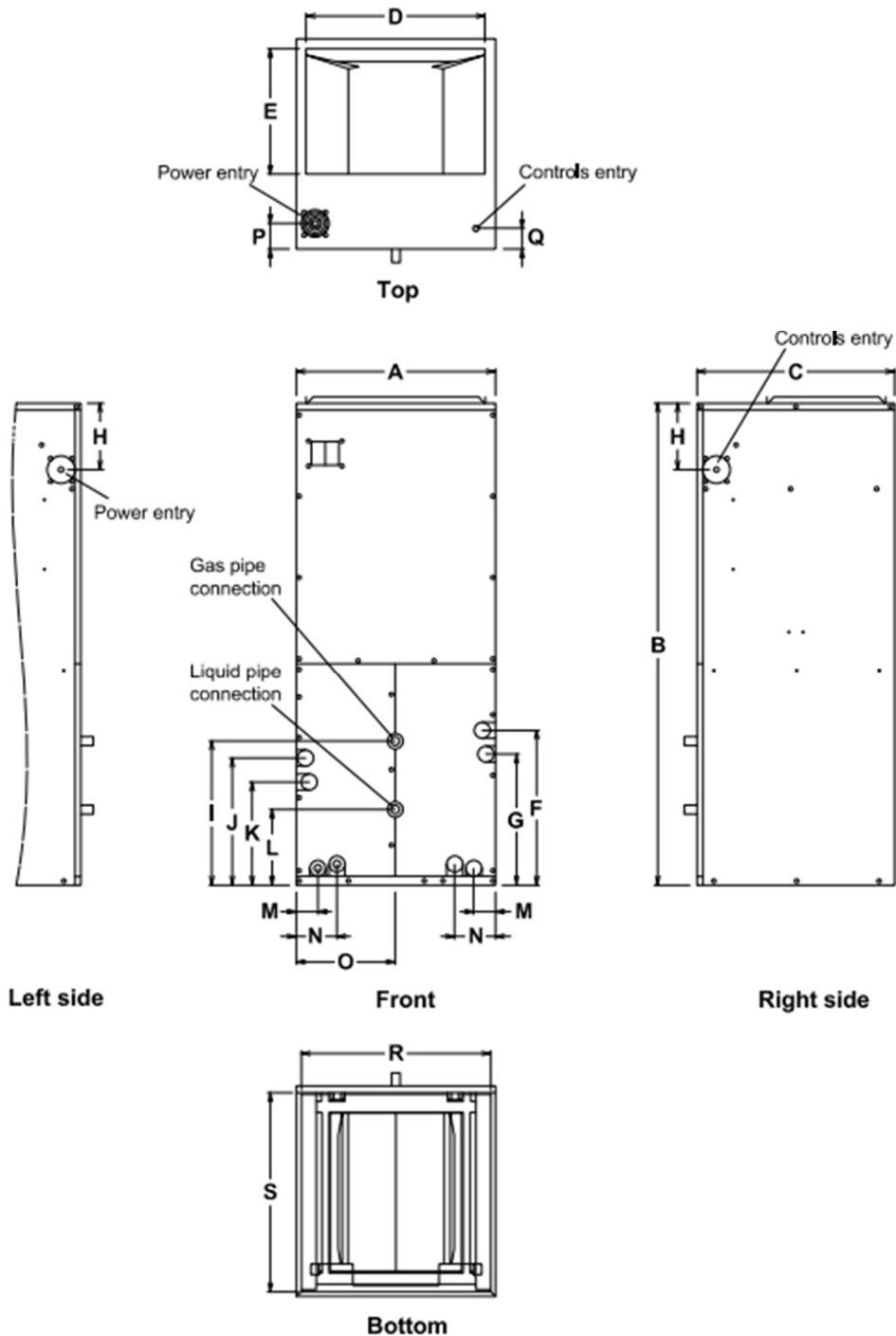
NOTES:

*¹ Requires IR receiver kit UTY-LBTUM 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).

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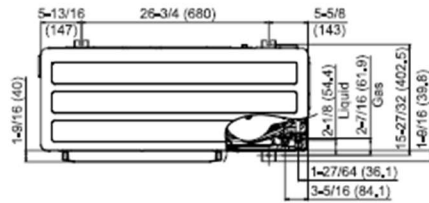
INDOOR UNIT DIMENSIONS:



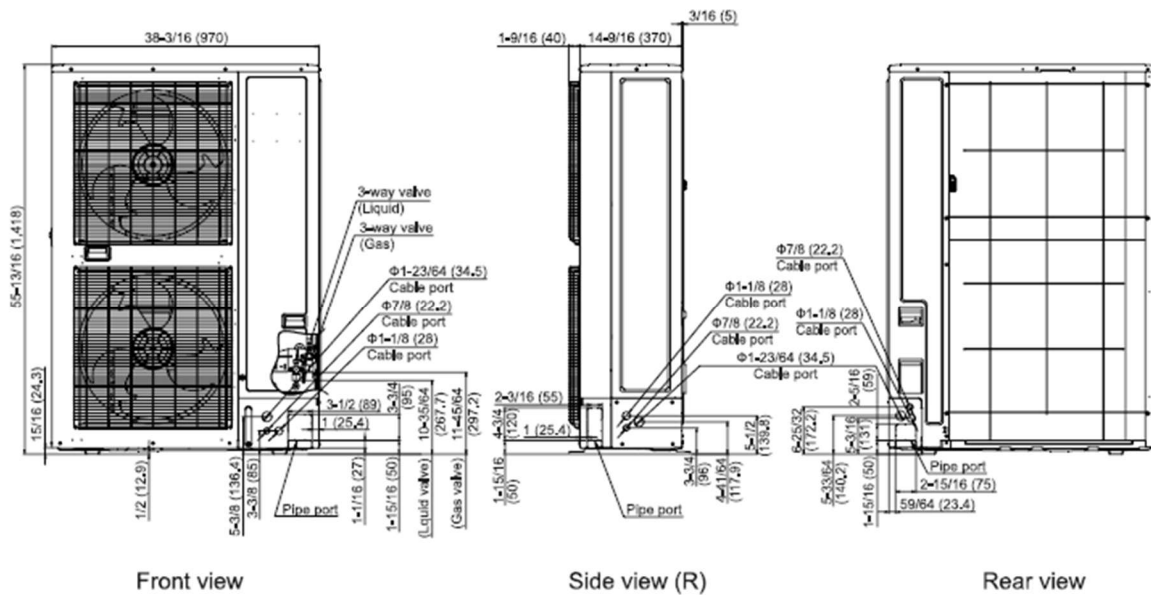
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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)



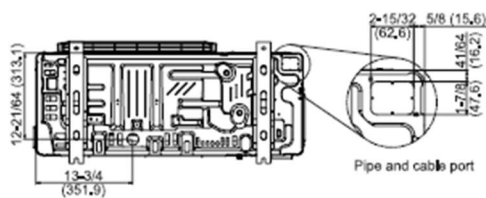
Top view



Front view

Side view (R)

Rear view



Bottom view