SUBMITTAL - 12KNAS1

Job Name:_____ Date:_____

Location:_____

R32

Indoor Unit: **ASLH12KNAS**

Outdoor Unit: **AOLH12KNAS1**





FEATURES

INDOOR UNIT:

- 115V System for applications with limited electrical service
- Compact wall-mounted indoor unit providing superior comfort and a premium aesthetic
- Indoor unit with ProCore™ (High Corrosion Resistant Copper) coils for long-lasting protection against corrosion
- Whisper-quiet operation with sound levels as low as 20dB
- Multiple fan speed options; Auto, High, Med, Low, and Quiet.
- Special Operation modes available:
  - Economy Mode
  - Energy Saving Mode
  - Powerful Mode
  - Minimum Heat Mode (accessible via WLAN only)
  - Auto-restart function
  - Auto Changeover
- Enhanced controls platform for seamless, intuitive operation:
  - Wireless remote controller included with the indoor unit
  - Wi-Fi connectivity with Airstage Mobile App monitoring and control via compatible USB WLAN adapter
  - Extended connectivity with support for third-party interface options

OUTDOOR UNIT:

- Low GWP R-32 systems for reduced environmental impact
- INVERTER-driven compressor delivering high efficiency and comfort.
- Compact outdoor unit with extended line set lengths up to 66ft (20m)

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.

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

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SPECIFICATIONS:

Indoor Unit						**ASLH12KNAS**
Outdoor Unit						**AOLH12KNAS1**
System Name						12KNAS1
AHRI Number						215422284
SEER2		Cooling			Btu/hW	17
EER2		Cooling			kW/kW	2.97
		Cooling			Btu/hW	10.15
HSPF 2 (IV) / HSPF 2 (V)		Heating				9 / 7.2
COP2		Heating			kW/kW	3.35
		Heating			Btu/hW	11.43
Outdoor Operation Range		Cooling			°F (°C)	50 to 126 (10 to 52)
		Heating				5 to 75 (-15 to 24)
Indoor Capacity		Cooling		Rated	Btu/h	12000
				Min.—Max.		3,100—12,500
		Heating	47°FDB (Outdoor temp.)	Rated		12000
				Min.—Max.		3,100—13,900
			17°FDB (Outdoor temp.)*1	Rated		7500
				Max.		10100
			5°FDB (Outdoor temp.)*2	Rated		8200
				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)	9-13/16 × 30-5/16 × 8-9/16 (250 × 770 × 218)
		Gross				10-13/16 × 33-1/16 × 12-3/16 (274 × 840 × 310)
Indoor Weight		Net			lb (kg)	17 (7.5)
		Gross				21 (9.5)
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)	55 (25)
		Gross				62 (28)
Indoor Fan	Airflow rate	Cooling		High	CFM (m^3/h)	365 (620)
				Med		288 (490)
				Low		218 (370)
				Quiet		141 (240)
		Heating		High		377 (640)
				Med		288 (490)
				Low		235 (400)
				Quiet		153 (260)
	Type × Qty					CROSSFLOW FAN × 1
	Motor output				W	27
Outdoor Fan	Airflow rate	Cooling			CFM (m^3/h)	1,001 (1,700)
		Heating				865 (1,470)
	Type × Qty					PROPELLER FAN × 1
	Motor output				W	23
Indoor Sound Pressure Level*4		Cooling		High	dB (A)	41
				Med		35
				Low		28
				Quiet		20
		Heating		High		41
				Med		35
				Low		30
				Quiet		22
Outdoor Sound Pressure Level*4		Cooling				48
		Heating				

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SPECIFICATIONS:

Outdoor Refrigerant		Type			R32
		Charge		lb oz	1 lb 7 oz
				g	650
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)	3.3 (1.57)
Indoor Drain hose		Material			POLYPROPYLENE + HIGH-DENSITY POLYETHYLENE
		Tip Diameter		in (mm)	I.D.: Ø17/32 (Ø13.8)O.D.: Ø19/32 to 21/32 (Ø15 to 16.8)
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					115 V~ 60 Hz
Available Voltage Range					103.5—126.5
System power supply		Voltage		V	115
		Frequency		Hz	60
		Available voltage range		V	103.5—126.5
Indoor Current	Cooling		Rated	A	10.9
	Heating				11
Maximum Operating Current[*3]			Cooling		14.7
			Heating		
Outdoor Starting Current					11
MCA[*5]					18.3
Wiring spec.[*6]	MAX. CKT. BKR[*7]				20
Indoor Input Power	Cooling		Rated	kW	1.18
			Min.—Max.		0.23—1.44
	Heating	47°FDB (Outdoor temp.)	Rated		1.05
			Min.—Max.		0.21—1.66
		17°FDB (Outdoor temp.)[*1]	Rated		0.84
			Max.		1.24
		5°FDB (Outdoor temp.)[*2]	Rated		1.1
			Max.		
Indoor Power Factor	Cooling			%	94
	Heating				83

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

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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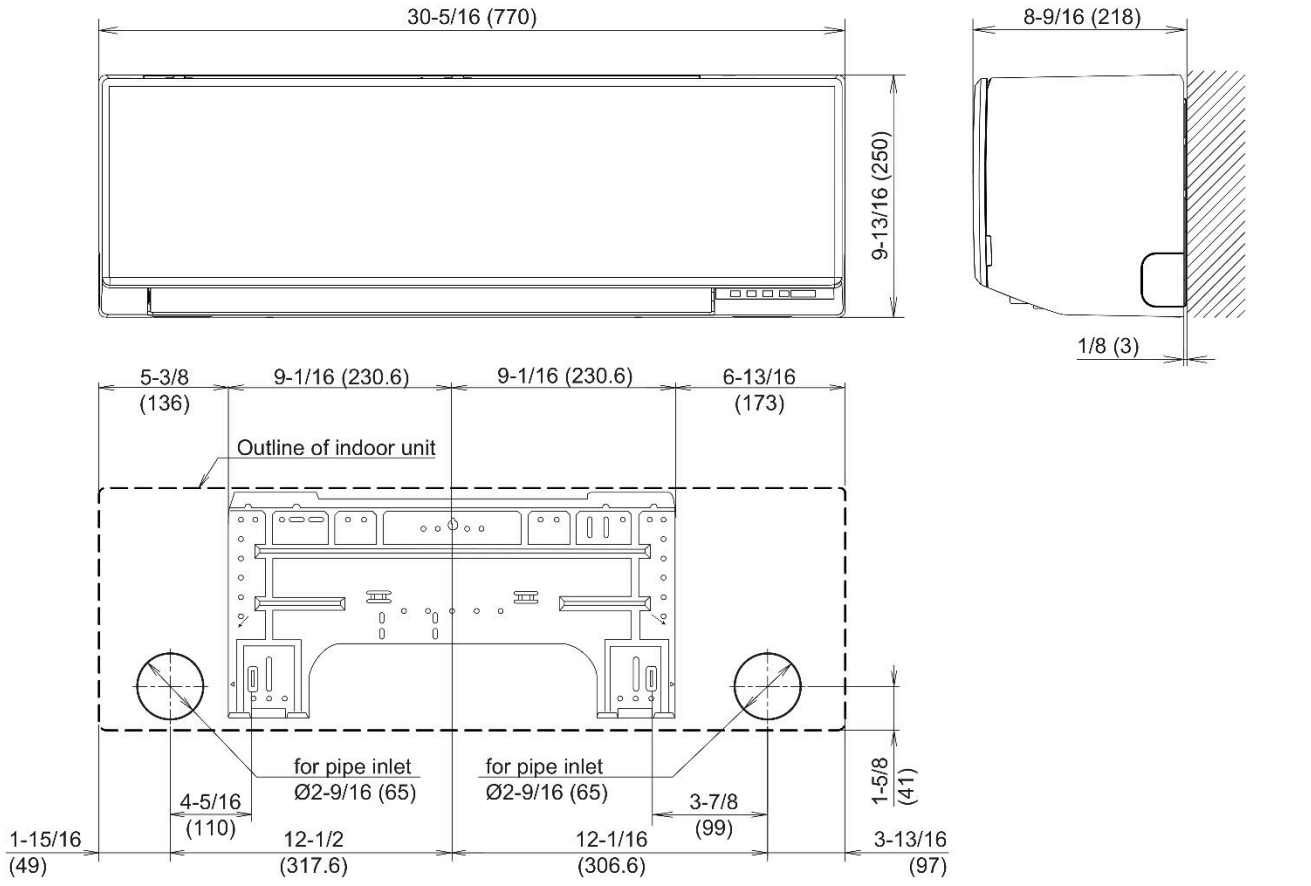
ACCESSORIES:

Model Number	Description
UTY-TFSXH4	Wi-Fi Adapter (WiFi Interface Module USB Type)
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)

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INDOOR UNIT DIMENSIONS:

Unit: in (mm)

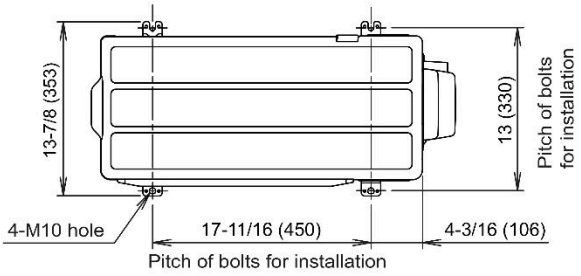


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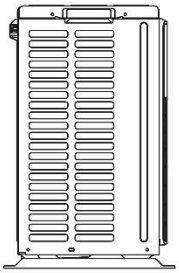
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OUTDOOR UNIT DIMENSIONS:

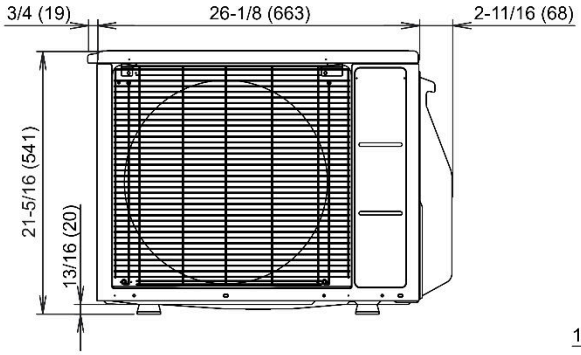
Unit: in (mm)



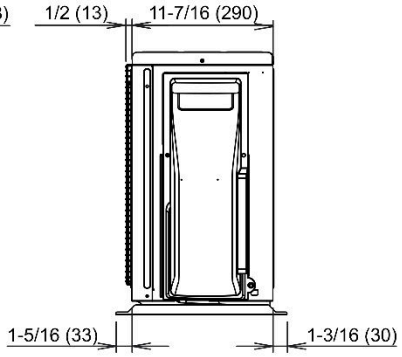
Top view



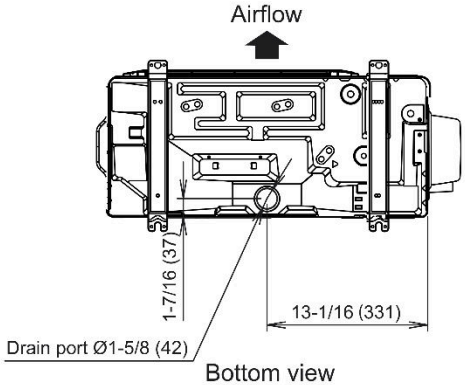
Side view



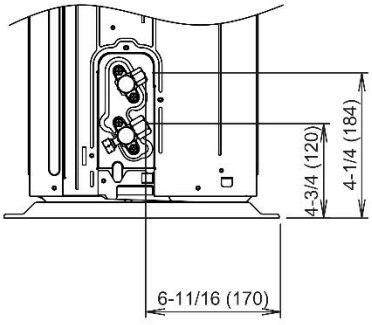
Front view



Side view



Bottom view



Side view (Valve part)

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