SUBMITTAL - 24KZAH1

Job Name: _____   Date: _____

Location: _____

R32

Indoor Unit: **ASUH24KZAS**

Outdoor Unit: **AOUH24KZAH1**

XLTH

FEATURES

INDOOR UNIT:

- Compact wall-mounted indoor unit providing superior comfort.
- Indoor unit with ProCore™ (High Corrosion Resistant Copper) coils for long-lasting protection against corrosion
- Whisper-quiet operation with sound levels as low as 30dB
- 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 included with the indoor unit
  - Built-in Wi-Fi connectivity for remote monitoring & control via the Airstage Mobile App
  - Occupancy sensor for enhanced energy savings
  - 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
- Base pan heater designed for the extreme cold climate region
- Compact outdoor unit with extended line set lengths up to 98ft (30m)
- Up to 5% higher rated heating capacity than nominal capacity
  - 25200 Btu/h Rated Heating Capacity for 24000 Btu/h system
- 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 Warranty Compressor & Parts
10 Year Compressor, 10 Year Parts Warranty when registered within 60 days of installation in a residence.

12 Year Warranty 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

ETL Intertek

UL LISTED

CSA

SUBMITTAL - 24KZAH1

SPECIFICATIONS:

					ASUH24KZAS
Indoor Unit					**ASUH24KZAS**
Outdoor Unit					**AOUH24KZAH1**
System Name					24KZAH1
AHRI Number					215647924
SEER2		Cooling		Btu/hW	24
EER2		Cooling		Btu/hW	12.5
HSPF2		Heating		kW/kW	11.9
COP2		Heating		kW/kW	3.96
Outdoor Operation Range		Cooling		°F (°C)	14 to 122 (-10 to 50)
Outdoor Operation Range		Heating		°F (°C)	-15 to 75 (-26 to 24)
Indoor Capacity		Cooling	Rated	Btu/h	22000
Indoor Capacity		Cooling	Min.—Max.	Btu/h	9,100—28,900
Indoor Capacity	Heating	47°FDB (Outdoor temp.)	Rated	Btu/h	25200
Indoor Capacity	Heating	47°FDB (Outdoor temp.)	Min.—Max.	Btu/h	8,200—36,800
Indoor Capacity	Heating	17°FDB (Outdoor temp.)[*1]	Rated	Btu/h	15900
Indoor Capacity	Heating	17°FDB (Outdoor temp.)[*1]	Max.	Btu/h	28900
Indoor Capacity	Heating	5°FDB (Outdoor temp.)[*2]	Rated	Btu/h	25200
Indoor Capacity	Heating	5°FDB (Outdoor temp.)[*2]	Max.	Btu/h	25800
Outdoor Connection pipe	Size	Liquid		in (mm)	Ø3/8 (Ø9.52)
Outdoor Connection pipe	Size	Gas		in (mm)	Ø5/8 (Ø15.88)
Outdoor Connection pipe		Method			FLARE
Outdoor Connection pipe		Pre-charge length		ft (m)	66 (20)
Outdoor Connection pipe		Min. length		ft (m)	16 (5)
Outdoor Connection pipe		Max. length		ft (m)	164 (50)
Outdoor Connection pipe		Max. height difference		ft (m)	98 (30)
Indoor Dimensions (H × W × D)		Net		in (mm)	13-3/8 × 45-1/4 × 11 (340 × 1,150 × 280)
Indoor Dimensions (H × W × D)		Gross		in (mm)	15-15/16 × 50 × 17-11/16 (405 × 1,270 × 450)
Indoor Weight		Net		lb (kg)	36 (16.5)
Indoor Weight		Gross		lb (kg)	49 (22.0)
Outdoor Dimensions (H × W × D)		Net		in (mm)	31 × 37 × 12-5/8 (788 × 940 × 320)
Outdoor Dimensions (H × W × D)		Gross		in (mm)	38-1/16 × 40-7/16 × 17-1/2 (966 × 1,027 × 445)
Outdoor Weight		Net		lb (kg)	117 (53)
Outdoor Weight		Gross		lb (kg)	134 (61)
Indoor Fan	Airflow rate	Cooling	High	CFM (m³/h)	624 (1,060)
Indoor Fan	Airflow rate	Cooling	Med—High	CFM (m³/h)	571 (970)
Indoor Fan	Airflow rate	Cooling	Med	CFM (m³/h)	518 (880)
Indoor Fan	Airflow rate	Cooling	Med—Low	CFM (m³/h)	471 (800)
Indoor Fan	Airflow rate	Cooling	Low	CFM (m³/h)	430 (730)
Indoor Fan	Airflow rate	Cooling	Quiet	CFM (m³/h)	371 (630)
Indoor Fan	Airflow rate	Heating	High	CFM (m³/h)	706 (1,200)
Indoor Fan	Airflow rate	Heating	Med—High	CFM (m³/h)	612 (1,040)
Indoor Fan	Airflow rate	Heating	Med	CFM (m³/h)	518 (880)
Indoor Fan	Airflow rate	Heating	Med—Low	CFM (m³/h)	471 (800)
Indoor Fan	Airflow rate	Heating	Low	CFM (m³/h)	430 (730)
Indoor Fan	Airflow rate	Heating	Quiet	CFM (m³/h)	371 (630)
Indoor Fan		Type × Qty			CROSSFLOW FAN × 1
Indoor Fan		Motor output		W	78
Outdoor Fan	Airflow rate	Cooling		CFM (m³/h)	1,919 (3,260)
Outdoor Fan	Airflow rate	Heating		CFM (m³/h)	2,172 (3,690)
Outdoor Fan		Type × Qty			PROPELLER FAN × 1
Outdoor Fan		Motor output		W	100
Indoor Sound Pressure Level[*4]		Cooling	High	dB (A)	44
Indoor Sound Pressure Level[*4]		Cooling	Med—High	dB (A)	42
Indoor Sound Pressure Level[*4]		Cooling	Med	dB (A)	39
Indoor Sound Pressure Level[*4]		Cooling	Med—Low	dB (A)	36
Indoor Sound Pressure Level[*4]		Cooling	Low	dB (A)	33
Indoor Sound Pressure Level[*4]		Cooling	Quiet	dB (A)	30
Indoor Sound Pressure Level[*4]		Heating	High	dB (A)	47
Indoor Sound Pressure Level[*4]		Heating	Med—High	dB (A)	43
Indoor Sound Pressure Level[*4]		Heating	Med	dB (A)	38
Indoor Sound Pressure Level[*4]		Heating	Med—Low	dB (A)	36
Indoor Sound Pressure Level[*4]		Heating	Low	dB (A)	34
Indoor Sound Pressure Level[*4]		Heating	Quiet	dB (A)	30
Outdoor Sound Pressure Level[*4]		Cooling			51
Outdoor Sound Pressure Level[*4]		Heating			54

SPECIFICATIONS:

Outdoor Refrigerant	Type		R32
	Charge	lb oz	3 lb 12 oz
		g	1700
Additional Charge Calculation		oz/ft	0.43
		g/m	40
Outdoor Refrigerant Oil	Type		RMM68AF
	Amount	in³ (cm³)	48.8 (800)
Indoor Moisture removal		pints/h (L/h)	8.7 (4.1)
Indoor Drain hose	Material		POLYPROPYLENE + HIGH-DENSITY POLYETHYLENE
	Tip Diameter	in (mm)	Ø17/32 (Ø13.8) (I.D.), Ø19/32 to 21/32 (Ø15.0 to 16.8) (O.D.)
Indoor Operation range	Cooling	°F (°C)	64 to 90 (18 to 32)
		%RH	80 or less
	Heating	°F (°C)	86 or less (30 or less)
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	7.8
	Heating		8.3
Maximum Operating Current*3	Cooling	A	15.4
	Heating		15.9
Outdoor Starting Current			8.3
MCA*5			19.4
Wiring spec.*6	MAX. CKT. BKR*7		20
Indoor Input Power	Cooling	Rated	1.76
		Min.—Max.	0.40—3.05
	Heating	47°FDB (Outdoor temp.) Rated	1.86
		47°FDB (Outdoor temp.) Min.—Max.	0.43—3.55
		17°FDB (Outdoor temp.)*1 Rated	1.5
		17°FDB (Outdoor temp.)*1 Max.	3.63
		5°FDB (Outdoor temp.)*2 Rated	3.45
		5°FDB (Outdoor temp.)*2 Max.	3.67
Indoor Power Factor	Cooling	%	98.1
	Heating		97.4
Energy Star			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 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

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.

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

NOTES:

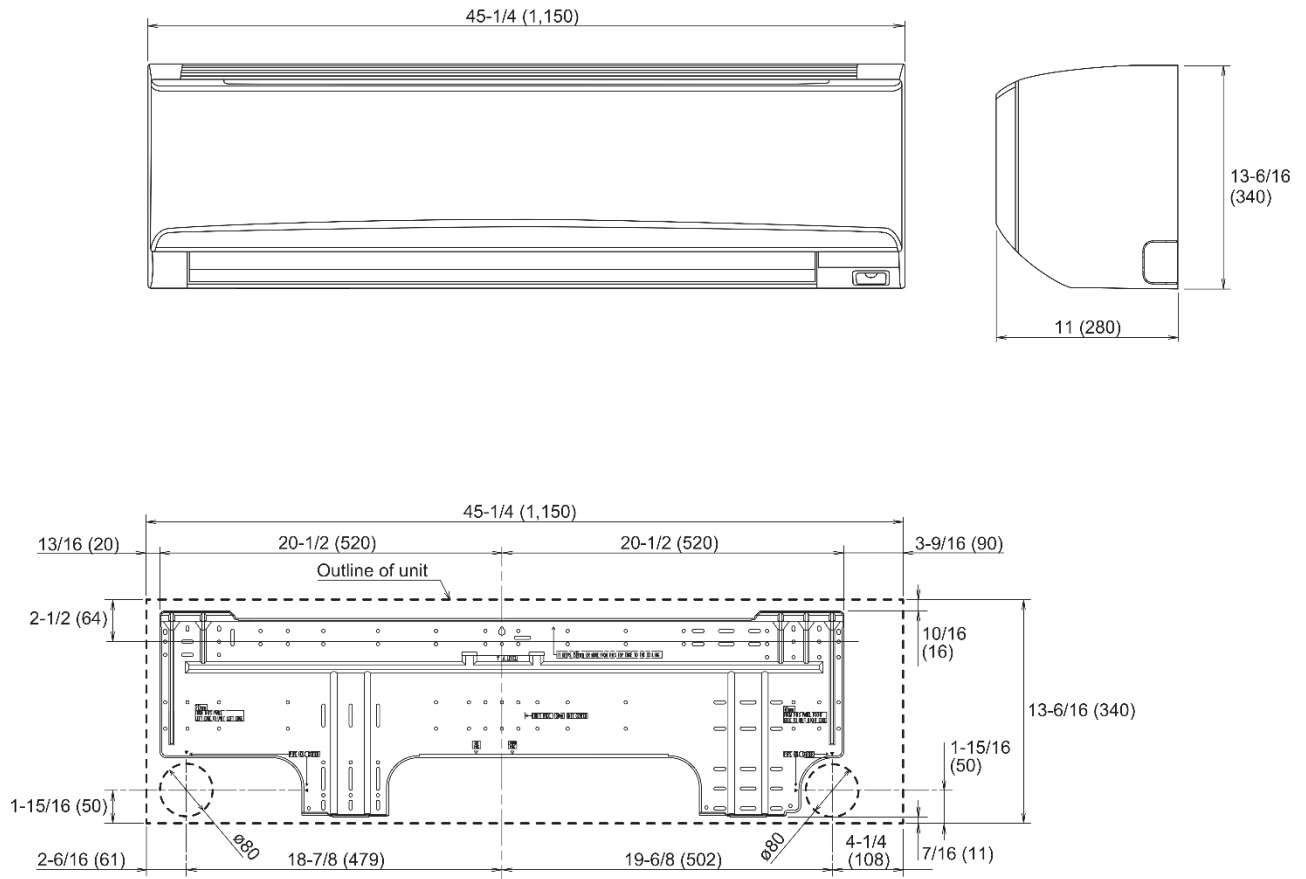[1] –Requires Communication kit UTY-TWRXZ2 to connect this device to IDU.

[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.
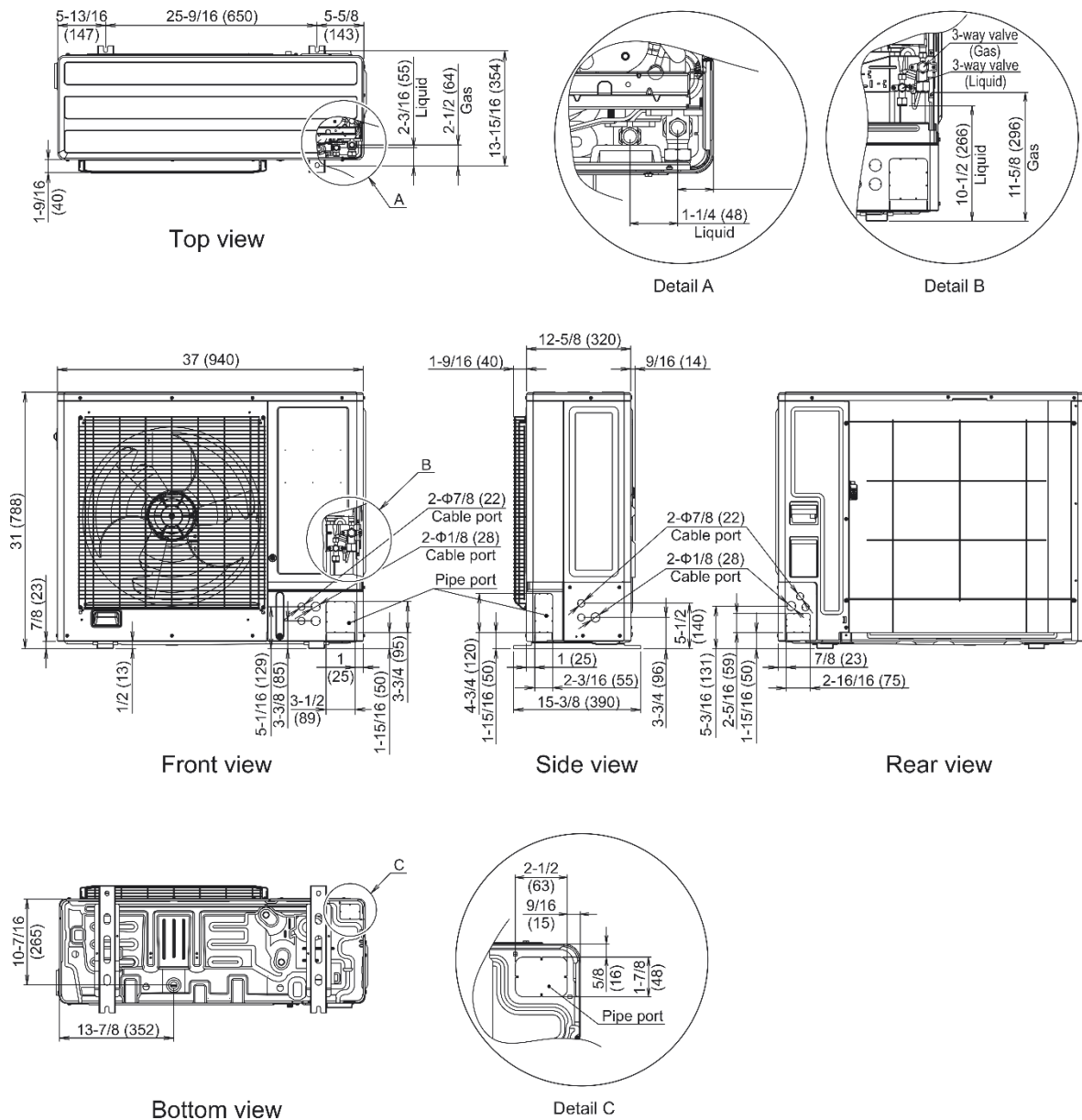
Orion XLTH

INDOOR UNIT DIMENSIONS:

Unit: in (mm)

45-1/4 (1,150)

13-6/16 (340)

11 (280)

45-1/4 (1,150)

13/16 (20) | 20-1/2 (520) | 20-1/2 (520) | 3-9/16 (90)

Outline of unit

2-1/2 (64)

10/16 (16)

13-6/16 (340)

1-15/16 (50)

1-15/16 (50)

ø80

ø80

2-6/16 (61) | 18-7/8 (479) | 19-6/8 (502) | 4-1/4 (108) | 7/16 (11)

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OUTDOOR UNIT DIMENSIONS:

Unit: in (mm)

Top view

Detail A

Detail B

Front view

Side view

Rear view

Bottom view

Detail C

Version: 20250116A