



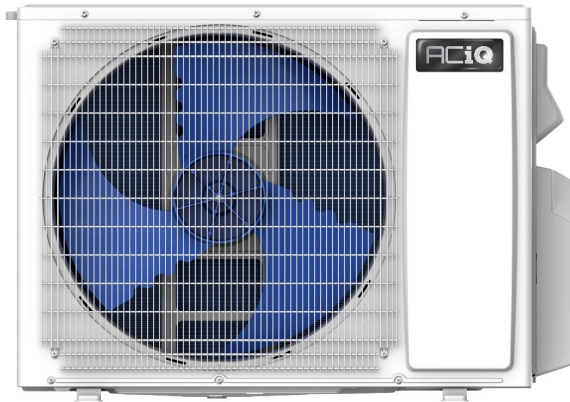
Submittal Data Sheet

Outdoor Unit Model#: ACiQ-24Z-E-M3*

24K (3-Zone) R32 Multi-Zone Heat Pump Condenser

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

Product Code: 81017553528



EFFICIENCY RATINGS

Cooling		Heating	
SEER2	23.0	HSPF2 (IV / V)	10.0 / 8.5
EER2	12.5	COP	4.0

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity @ 95°F (35°C)	24000
Min/Max Capacity	4900 ~ 31400
Rated Power Input (W)	1920
Ambient Temp. Operating Range °F(°C)	-13°F ~ 125°F (-25°C ~ 52°C)

HEATING PERFORMANCE

Heating (Btu/hr)	
Rated Capacity @ 47°F (8°C)	24000
Min/Max Capacity	5200 ~ 32000
Rated Capacity @ 17°F (-8°C)	23600
Rated Capacity @ 5°F (-15°C)	21600
Rated Power Input @ 47°F (8°F)	1760
Ambient Temp. Operating Range °F(°C)	-13°F ~ 75°F (-25°C ~ 24°C)

COMPRESSOR SPECIFICATIONS

Compressor Type	Rotary
Compressor Quantity	1
Capacity (W)	6600
Input (W)	1825
Rated Current (A)	8.3
Frequency Range (Hz)	12 ~ 120
Refrigerant Oil	VG74
Refrigerant Oil Charge (mL)	450

OUTDOOR UNIT & FAN SPECIFICATIONS

Fan Motor Type		DC Inverter
Fan Motor Input Power (W)		126
Fan Motor Output Power (W)		65
Fan Quantity		1
Fan Material		Plastic
Fan Diameter (mm)		Ø553 x 126
Outdoor Fan Speed (Max) (rpm)		850
Outdoor Airflow (Max) (CFM)		2235
Outdoor Noise Power Level (dBA)		67
Outdoor Noise Pressure Level (dBA)		57
Dimension (W×D×H)	inch	38.58 x 15.28 x 27.56
	mm	980 x 388 x 700
Package (W×D×H)	inch	39.96 x 16.73 x 30.00
	mm	1015 x 425 x 762
Net/Gross Weight	lbs	102.5 / 109.1
	kg	46.5 / 49.5

ELECTRICAL SPECIFICATIONS

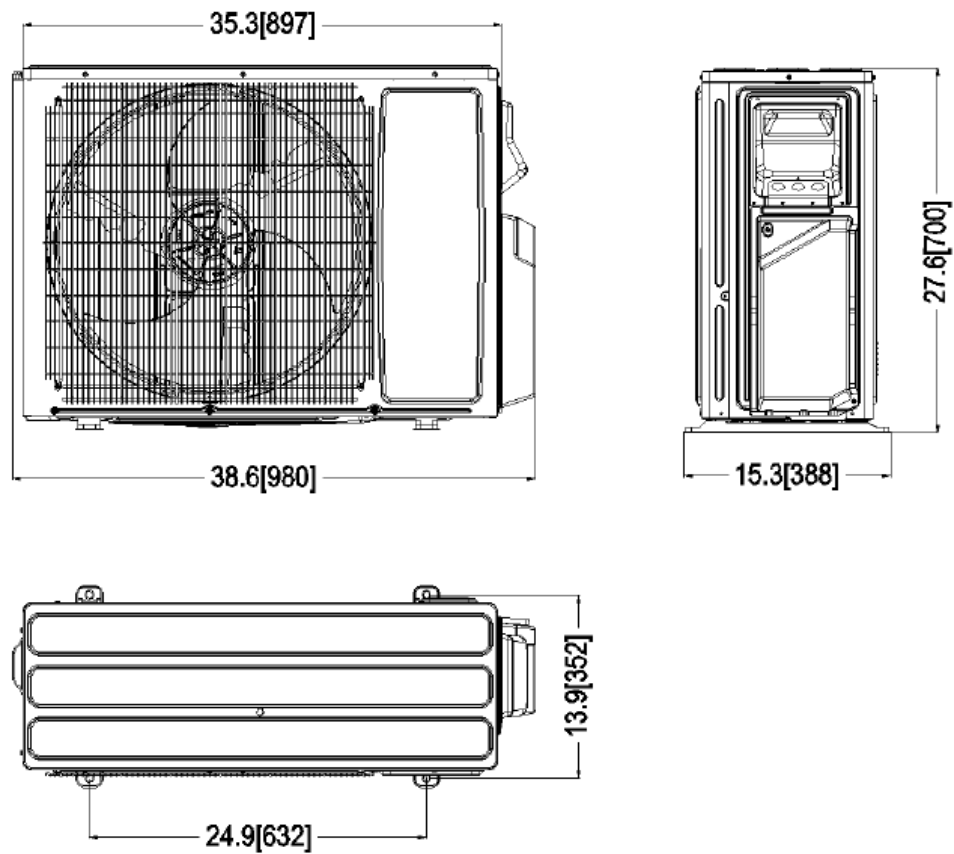
Power Supply (V, Hz, Ph)	208/230V, 60Hz, 1 Ph
System MCA (A)	20
System MOP/Max. Fuse (A)	30
Max. Power (kW)	3.0
System Power Input @ Cooling (W)	1920
System Power Input @ Heating (W)	1760
Max. Input Current (A)	14
System Rated Current @ Cooling (A)	8.52
System Rated Current @ Heating (A)	7.76
Recommended Power Wiring for Outdoor Unit (AWG)	3 x 12
Recommended Connection Wiring for Indoor & Outdoor Units (AWG)	4 x 18
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
AWG: America Wire Gauge	W: Watts (W)

REFRIGERANT & PIPING SPECIFICATIONS

Refrigerant Type	R32
Refrigerant Charge Volume (oz/kg)	51.2 / 1.45
Additional Refrigerant Charge (oz/ft) / (g/m)	0.16 / 15
Refrigerant Precharge Length (ft/m)	73.8 / 22.5
Liquid Size (in/mm)	3 x 1/4" (6.35)
Gas Size (in/mm)	3 x 3/8" (9.52)
Max. Piping Length for all rooms (ft/m)	197 / 60
Max. Piping Length for one IDU (ft/m)	98 / 30
Max. Height Difference of IDU and ODU (ft/m)	49 / 15
Max. Height Difference between all IDUs (ft/m)	33 / 10
Connection Method	Flared

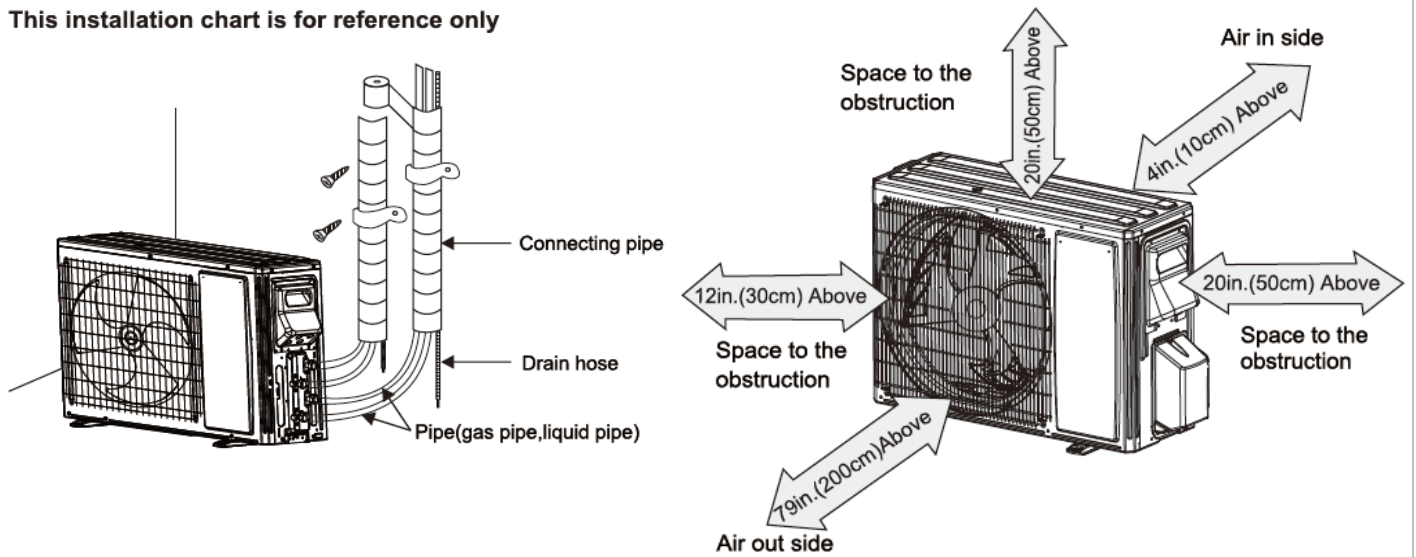
*System performance figures & efficiency ratings above achieved by testing condenser with (3) Non-ducted air handlers

Outdoor Unit Dimensions



Multi-Zone Condenser Installation Instructions

This installation chart is for reference only



Indoor Unit Capacity / Condenser Zone Compatibility

Two Units

9K+9K	9K+18K
9K+12K	12K+18K
12K+12K	18K+18K

Three Units

9K+9K+9K	9K+12K+12K
9K+9K+12K	12K+12K+12K
9K+9K+18K	-

Features

- Uses environmentally friendly R32 refrigerant
- Wide ambient temperature operating range: Cooling = -13°F~125°F (-25°C~52°C); Heating = -13°F~75°F (-25°C~24°C)
- High Efficiency: 22~23 SEER2 Rating, meets AHRI energy efficiency standards, and Energy Star Certified
- System allows for extended refrigerant piping length (up to 197 ft total piping length., depending on application & system/unit capacities)
- 180° Sine Wave Control: Variable speed technology allows for more accurate control of DC Inverter Compressor, results in smoother motor operation, extended service life, and reduced noise levels
- Multiple protection features/functions to prevent system damage, ensure normal operation and long system life:
 - System Monitors & Protects Against:
 - Excessive Discharge Temperature
 - Excessive Condenser Temperature
 - High & Low Pressure Levels
 - Temperature Sensor Damage
 - Compressor Overload
 - Phase Sequence Disruption
 - Communication Failure
 - System Freezing in Low Temperatures
 - Anti-Cold Air Protection
 - Drive Module Monitors & Protects Against:
 - Excessive Power Consumption
 - Over-Current
 - Overheating
 - High or Low Voltage