



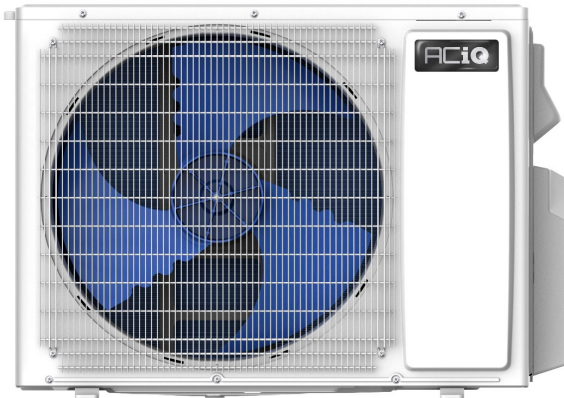
Submittal Data Sheet

Outdoor Unit Model#: ACiQ-18Z-E-M2*

18K (2-Zone) R32 Multi-Zone Heat Pump Condenser

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

Product Code: 810175553511



EFFICIENCY RATINGS

Cooling		Heating	
SEER2	22.0	HSPF2 (IV / V)	10.0 / 8.0
EER2	12.3	COP	3.8

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity @ 95°F (35°C)	17700
Min/Max Capacity	3800 ~ 19800
Rated Power Input (W)	1440
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)	18000
Min/Max Capacity	4200 ~ 22000
Rated Capacity @ 17°F (-8°C)	14700
Rated Capacity @ 5°F (-15°C)	14500
Rated Power Input @ 47°F (8°F)	1390
Ambient Temp. Operating Range °F(°C)	-13°F ~ 75°F (-25°C ~ 24°C)

COMPRESSOR SPECIFICATIONS

Compressor Type	Rotary
Compressor Quantity	1
Capacity (W)	4345
Input (W)	1100
Rated Current (A)	6.75
Frequency Range (Hz)	10 ~ 120
Refrigerant Oil	VG74
Refrigerant Oil Charge (mL)	420

OUTDOOR UNIT & FAN SPECIFICATIONS

Fan Motor Type		DC Inverter
Fan Motor Input Power (W)		120
Fan Motor Output Power (W)		40
Fan Quantity		1
Fan Material		Plastic
Fan Diameter (mm)		Ø440 x 332
Outdoor Fan Speed (Max) (rpm)		900
Outdoor Airflow (Max) (CFM)		1529
Outdoor Noise Power Level (dBA)		64
Outdoor Noise Pressure Level (dBA)		54
Dimension (W×D×H)	inch	34.65 x 13.90 x 21.93
	mm	880 x 353 x 557
Package (W×D×H)	inch	35.43 x 14.96 x 24.21
	mm	900 x 380 x 615
Net/Gross Weight	lbs	75.0 / 80.5
	kg	34.0 / 36.5

ELECTRICAL SPECIFICATIONS

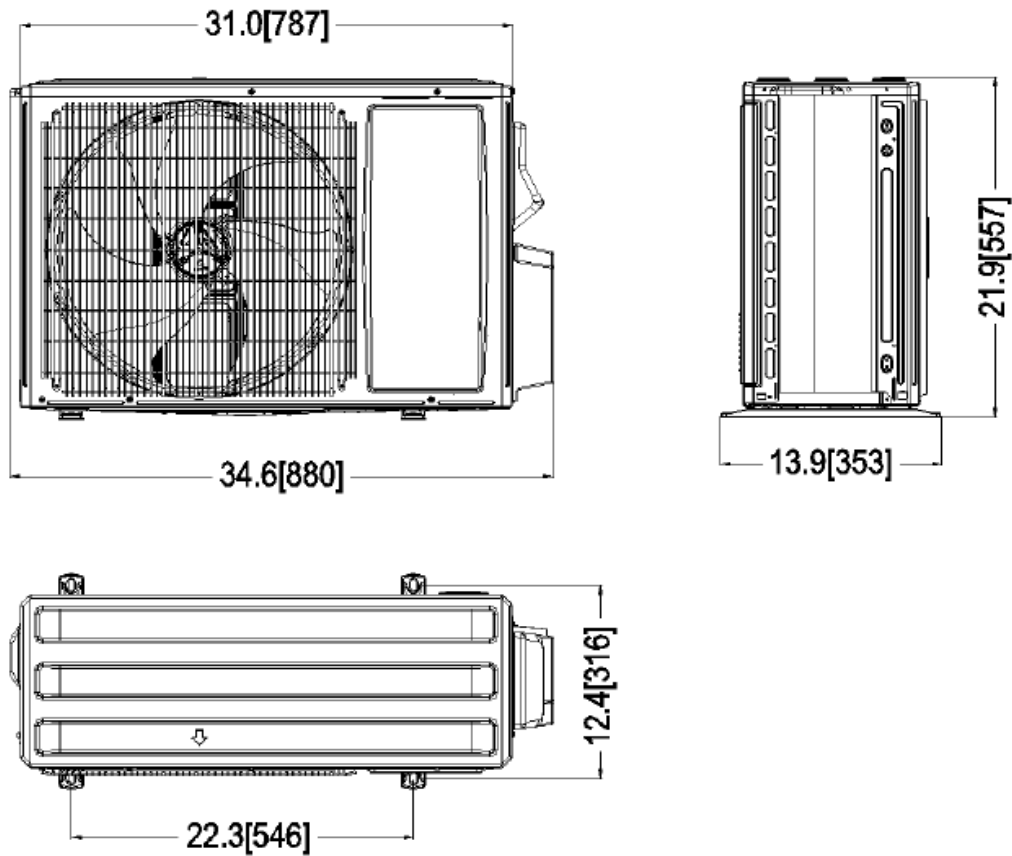
Power Supply (V, Hz, Ph)	208/230V, 60Hz, 1 Ph
System MCA (A)	15
System MOP/Max. Fuse (A)	20
Max. Power (kW)	2.7
System Power Input @ Cooling (W)	1440
System Power Input @ Heating (W)	1390
Max. Input Current (A)	13
System Rated Current @ Cooling (A)	6.39
System Rated Current @ Heating (A)	6.17
Recommended Power Wiring for Outdoor Unit (AWG)	3 x 14
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)	38.8 / 1.1
Additional Refrigerant Charge (oz/ft) / (g/m)	0.16 / 15
Refrigerant Precharge Length (ft/m)	49.2 / 15
Liquid Size (in/mm)	2 x 1/4" (6.35)
Gas Size (in/mm)	2 x 3/8" (9.52)
Max. Piping Length for all rooms (ft/m)	131 / 40
Max. Piping Length for one IDU (ft/m)	82 / 25
Max. Height Difference of IDU and ODU (ft/m)	49 / 15
Max. Height Difference between all IDUs (ft/m)	33 / 10
Connection Method	Flared

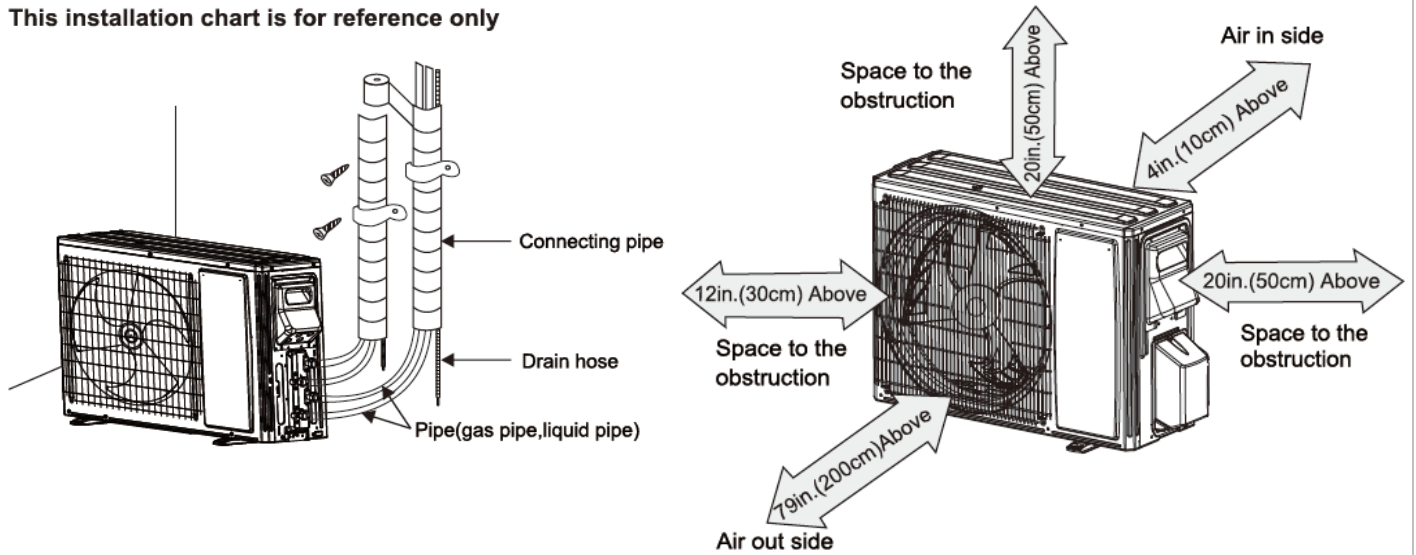
*System performance figures & efficiency ratings above achieved by testing condenser with (2) Non-ducted air handlers

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+12K

12K+12K

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