



Submittal Data Sheet

Indoor Unit Model#: ACiQ-KE24W-W-HP230B

Outdoor Unit Model#: ACiQ-KE24Z-HP230B

ACiQ Essentials 24K (230V) R32 Single-Zone Mini-Split System

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

System Product Code: 810175553917
 Indoor Unit Product Code: 810175553818
 Outdoor Unit Product Code: 810175553863



INDOOR UNIT SPECIFICATIONS

Indoor Airflow (Turbo/Hi/Med/Lo/Mute)	CFM	676 / 629 / 505 / 412 / 352
Indoor Noise Level (cooling) (Turbo/Hi/Med/Lo/Mute)	dB(A)	50 / 48 / 46 / 40 / 37
Suitable Room Coverage Area	sq. ft.	Up to 480
Moisture Removal/Dehumidification	Liters/hr	2.4
Controller	Type	Remote
Unit Dimensions (W×D×H)	in	39.76 x 8.66 x 12.40
	mm	1010 x 220 x 315
Packaging Dimensions (W×D×H)	inch	43.15 x 11.69 x 15.35
	mm	1096 x 297 x 390
Net Weight	lbs	26.46
	kg	12.00
Gross Weight	lbs	33.07
	kg	15.00

OUTDOOR UNIT SPECIFICATIONS

Outdoor Noise Level	dB(A)	56
Unit Dimensions (including valve guard cover) (W×D×H)	in	33.98 x 13.74 x 23.70
	mm	863 x 349 x 602
Packing Dimensions (W×D×H)	in	35.43 x 15.94 x 25.39
	mm	900 x 405 x 645
Net Weight	lbs	70.55
	kg	32.00
Gross Weight (without line set)	lbs	78.26
Gross Weight (with 16 ft. line set)	lbs	81.57
	kg	37.00

ELECTRICAL SPECIFICATIONS

Power Supply	V, Ph, Hz	208/230V, 1 Ph, 60 Hz
Minimum Circuit Ampacity (MCA)	A	17
Max. Fuse Size	A	25
Recommended Connection Wiring	Size x Core No.	4 x 16 AWG
Recommended Power Wiring	Core No.	14 AWG

REFRIGERANT PIPING SPECIFICATIONS

Refrigerant	Type	R32
Refrigerant Charge Amount	oz	36.68
	g	1040
Additional Charge of Refrigerant	oz/ft	0.11
	g/m	10
Max. Operation Pressure	Mpa	5
Liquid Piping Size	in	1/4"
	mm	6.35
Gas Piping Size	in	1/2"
	mm	12.70
Included Line Set Length (not pre-charged w/ refrigerant)	ft	16
	m	4.88
Max. Piping Length	ft	65
	m	20
Max. Height Difference	ft	49
	m	15
Connection Method	Type	Flared Fitting

SYSTEM PERFORMANCE

Cooling Performance

Cooling Capacity Range	Btu/h	5120 ~ 24500
Rated Cooling Capacity at 95°F (35°C)	Btu/h	23000
SEER2 at 95°F (35°C)	Btu/W.h	17.0
EER2 at 95°F (35°C)	Btu/W.h	9.5
Rated Input Consumption	W	2365
Rated Current	A	10.3

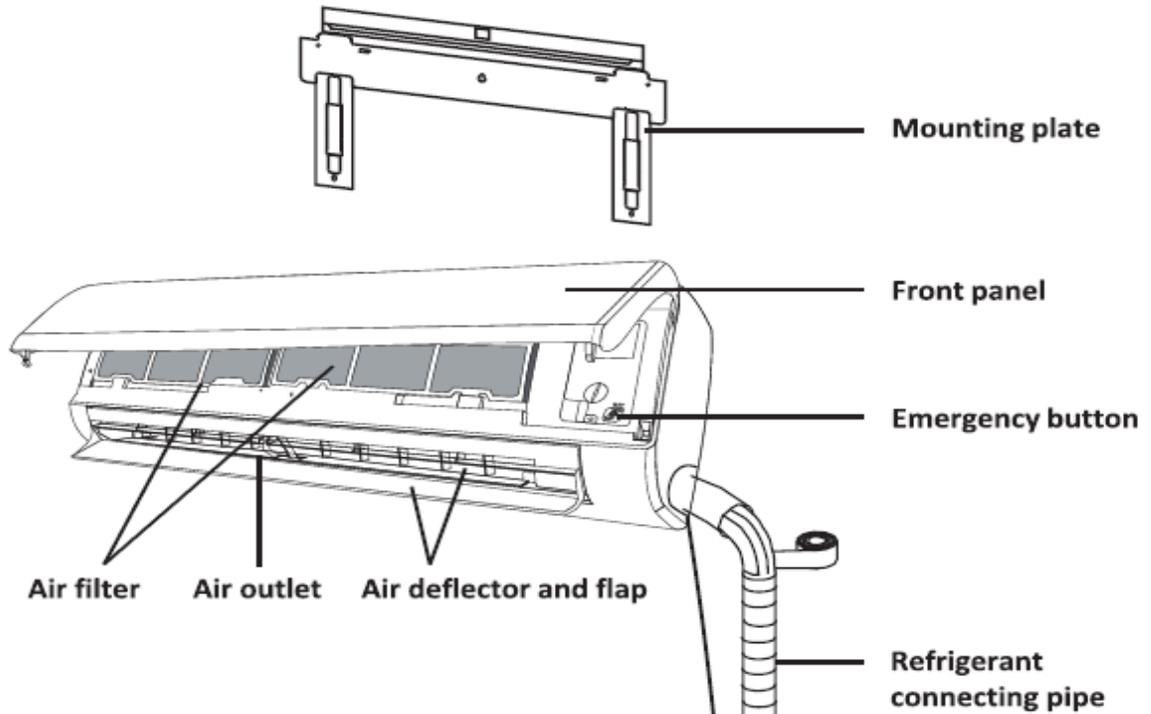
Heating Performance

Heating Capacity Range	Btu/h	5120 ~ 24500
Rated Heating Capacity at 47°F (8.3°C)	Btu/h	22400
Rated Heating Capacity at 17°F (-8.3°C)	Btu/h	13500
Max. Heating Capacity at 5°F (-15°C)	Btu/h	12000
Heating Ratio at 5°F (-15°C)	%	54
HSPF2-Region IV	Btu/W.h	9.5
HSPF2-Region V	Btu/W.h	8.5
COP2 at 47°F (8.3°C)	W/W	3.3
COP2 at 5°F (-15°C)	W/W	1.8
Rated Input Consumption	W	1900
Rated Current	A	8.4

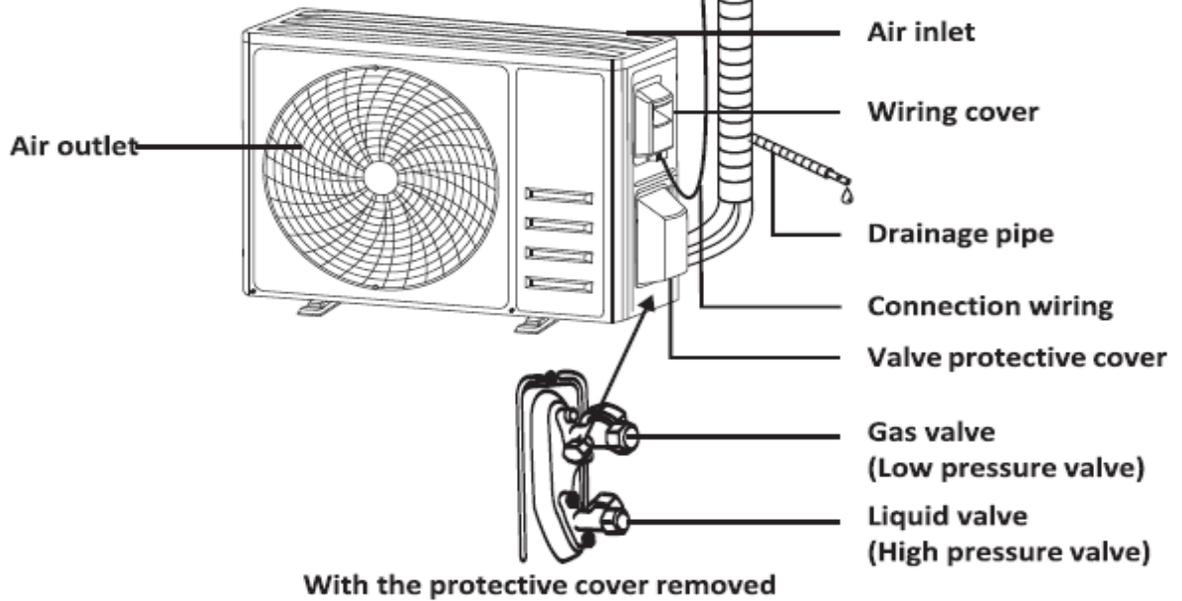
OPERATING & AMBIENT TEMPERATURE RANGE

Operating Temperature Range	°F	60.8 ~ 87.8
	°C	16 ~ 31
Ambient Temperature Range (Cooling Operation)		
Indoor Unit	°F	≥ 62
	°C	≥ 17
Outdoor Unit	°F	53.6 ~ 122
	°C	12 ~ 50
Ambient Temperature Range (Heating Operation)		
Indoor Unit	°F	≤ 86
	°C	≤ 30
Outdoor Unit	°F	5 ~ 86
	°C	-15 ~ 30

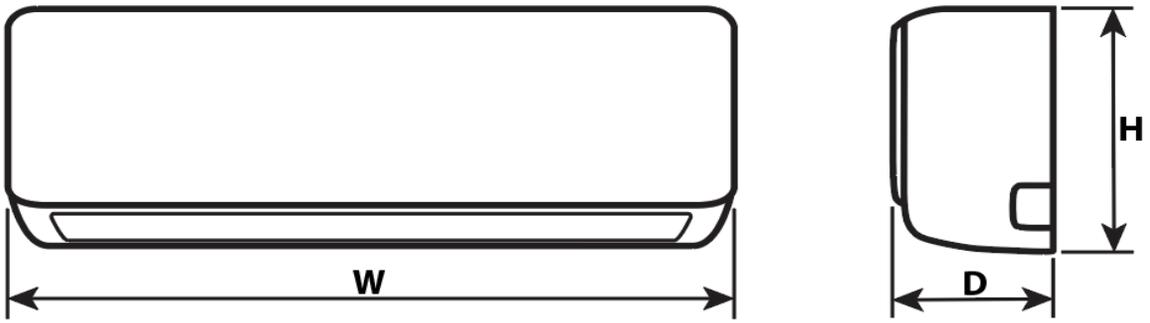
Indoor Unit



Outdoor Unit



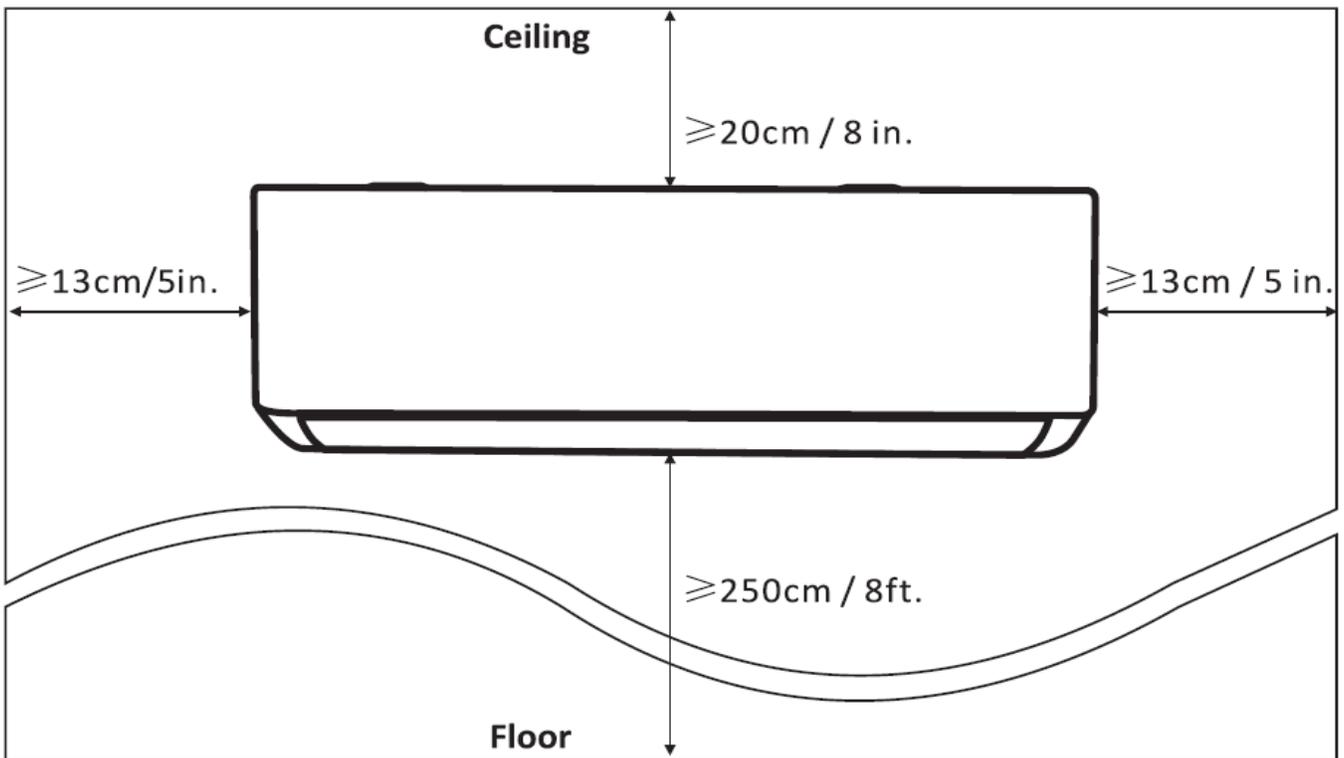
Indoor Unit Dimensions



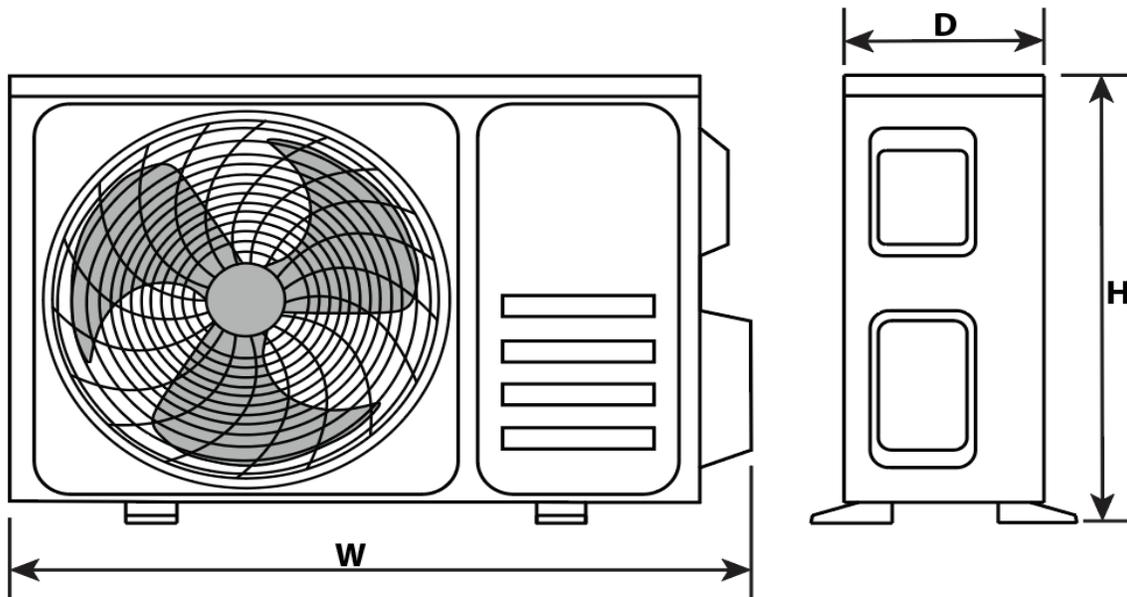
Capacity	W (Width)	D (Depth)	H (Height)
12K	30.59 in (777 mm)	7.91 in (201 mm)	9.84 in (250 mm)
18K	35.83 in (910 mm)	8.11 in (206 mm)	11.57 in (294 mm)
24K	39.76 in (1010 mm)	8.66 in (220 mm)	12.40 in (315 mm)
36K	46.89 in (1191 mm)	10.16 in (258 mm)	14.17 in (360 mm)

Units: Inch (Millimeter)

Indoor Unit Installation Clearance Requirements



Outdoor Unit Dimensions



Capacity	W (Width)	D (Depth)	H (Height)
12K	30.98 in (787 mm)	11.42 in (290 mm)	19.61 in (498 mm)
18K	31.89 in (810 mm)	12.01 in (305 mm)	21.61 in (549 mm)
24K	33.98 in (863 mm)	13.74 in (349 mm)	23.70 in (602 mm)
36K	38.50 in (978 mm)	16.57 in (421 mm)	31.61 in (803 mm)

Units: Inch (Millimeter)

Outdoor Unit Installation Clearance Requirements

