



Submittal Data Sheet

Indoor Unit Model#: ACiQ-KE12W-W-HP230B

Outdoor Unit Model#: ACiQ-KE12Z-HP230B

ACiQ Essentials 12K (230V) R32 Single-Zone Mini-Split System

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

System Product Code: 810175553894
 Indoor Unit Product Code: 810175553795
 Outdoor Unit Product Code: 810175553849



INDOOR UNIT SPECIFICATIONS

Indoor Airflow (Turbo/Hi/Med/Lo/Mute)	CFM	294 / 264 / 235 / 206 / 159
Indoor Noise Level (cooling) (Turbo/Hi/Med/Lo/Mute)	dB(A)	45 / 42 / 39 / 35 / 33
Suitable Room Coverage Area	sq. ft.	Up to 280
Moisture Removal/Dehumidification	Liters/hr	1.3
Controller	Type	Remote
Unit Dimensions (W×D×H)	in	30.59 x 7.91 x 9.84
	mm	777 x 201 x 250
Packaging Dimensions (W×D×H)	inch	33.07 x 10.24 x 12.4
	mm	840 x 260 x 315
Net Weight	lbs	16.53
	kg	7.50
Gross Weight	lbs	20.94
	kg	9.50

OUTDOOR UNIT SPECIFICATIONS

Outdoor Noise Level	dB(A)	55
Unit Dimensions (including valve guard cover) (W×D×H)	in	30.98 x 11.42 x 19.61
	mm	787 x 290 x 498
Packing Dimensions (W×D×H)	in	32.99 x 13.31 x 21.26
	mm	838 x 338 x 540
Net Weight	lbs	55.12
	kg	25.00
Gross Weight (without line set)	lbs	58.42
Gross Weight (with 16 ft. line set)	lbs	61.73
	kg	28.00

ELECTRICAL SPECIFICATIONS

Power Supply	V, Ph, Hz	208/230V, 1 Ph, 60 Hz
Minimum Circuit Ampacity (MCA)	A	11
Max. Fuse Size	A	15
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	17.63
	g	500
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	3/8"
	mm	9.53
Included Line Set Length (not pre-charged w/ refrigerant)	ft	16
	m	4.88
Max. Piping Length	ft	49
	m	15
Max. Height Difference	ft	33
	m	10
Connection Method	Type	Flared Fitting

SYSTEM PERFORMANCE

Cooling Performance

Cooling Capacity Range	Btu/h	2050 ~ 12000
Rated Cooling Capacity at 95°F (35°C)	Btu/h	11500
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	1170
Rated Current	A	5.1

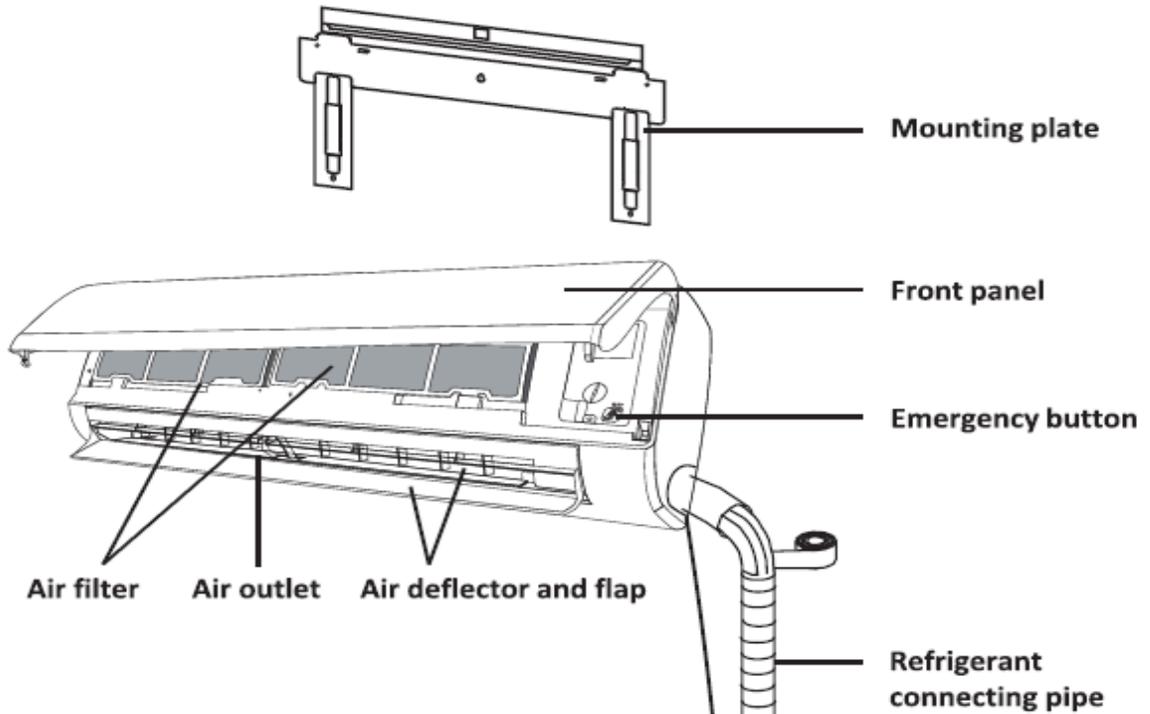
Heating Performance

Heating Capacity Range	Btu/h	2050 ~ 12500
Rated Heating Capacity at 47°F (8.3°C)	Btu/h	11500
Rated Heating Capacity at 17°F (-8.3°C)	Btu/h	8100
Max. Heating Capacity at 5°F (-15°C)	Btu/h	7000
Heating Ratio at 5°F (-15°C)	%	61
HSPF2-Region IV	Btu/W.h	8.5
HSPF2-Region V	Btu/W.h	7.1
COP2 at 47°F (8.3°C)	W/W	3.2
COP2 at 5°F (-15°C)	W/W	1.75
Rated Input Consumption	W	1100
Rated Current	A	4.8

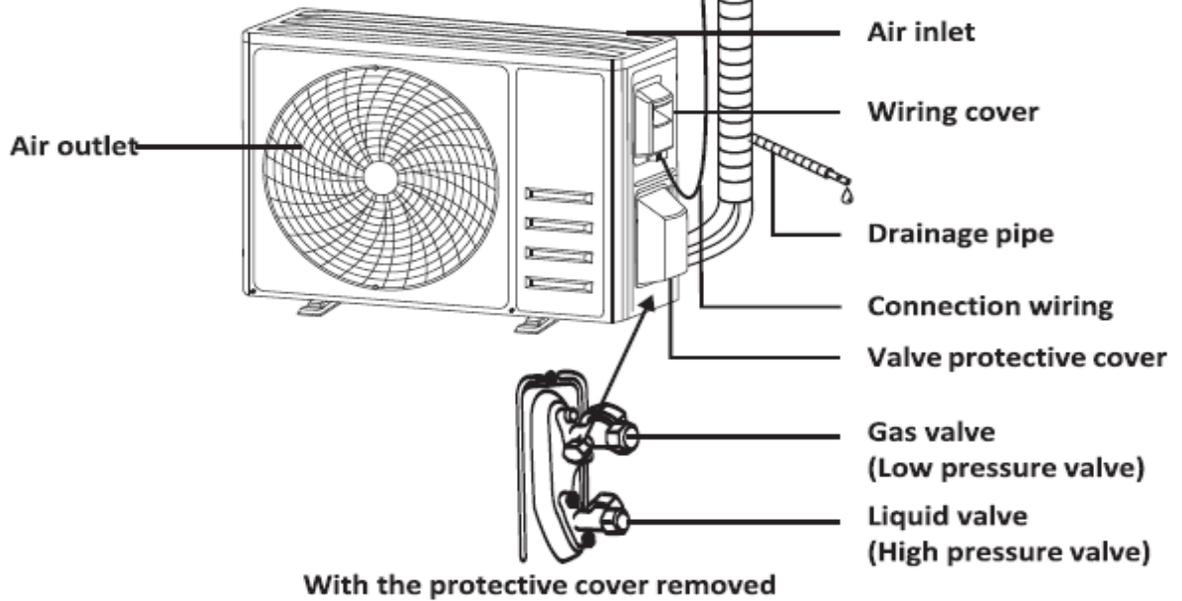
OPERATING & AMBIENT TEMPERATURE RANGE

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

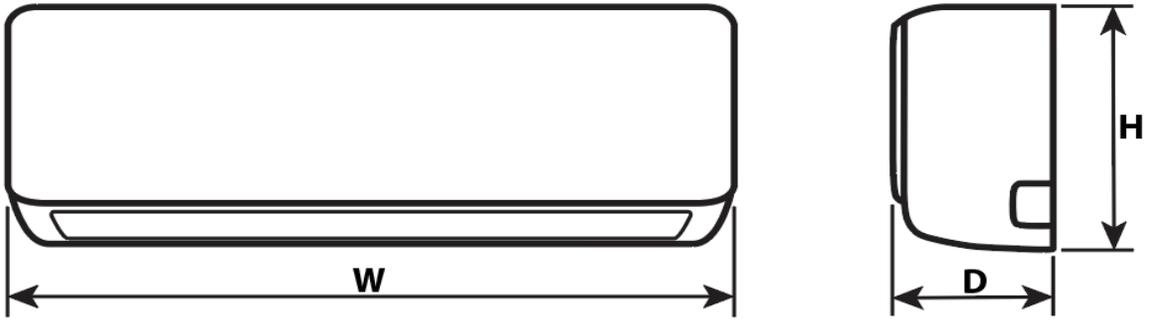
Indoor Unit



Outdoor Unit



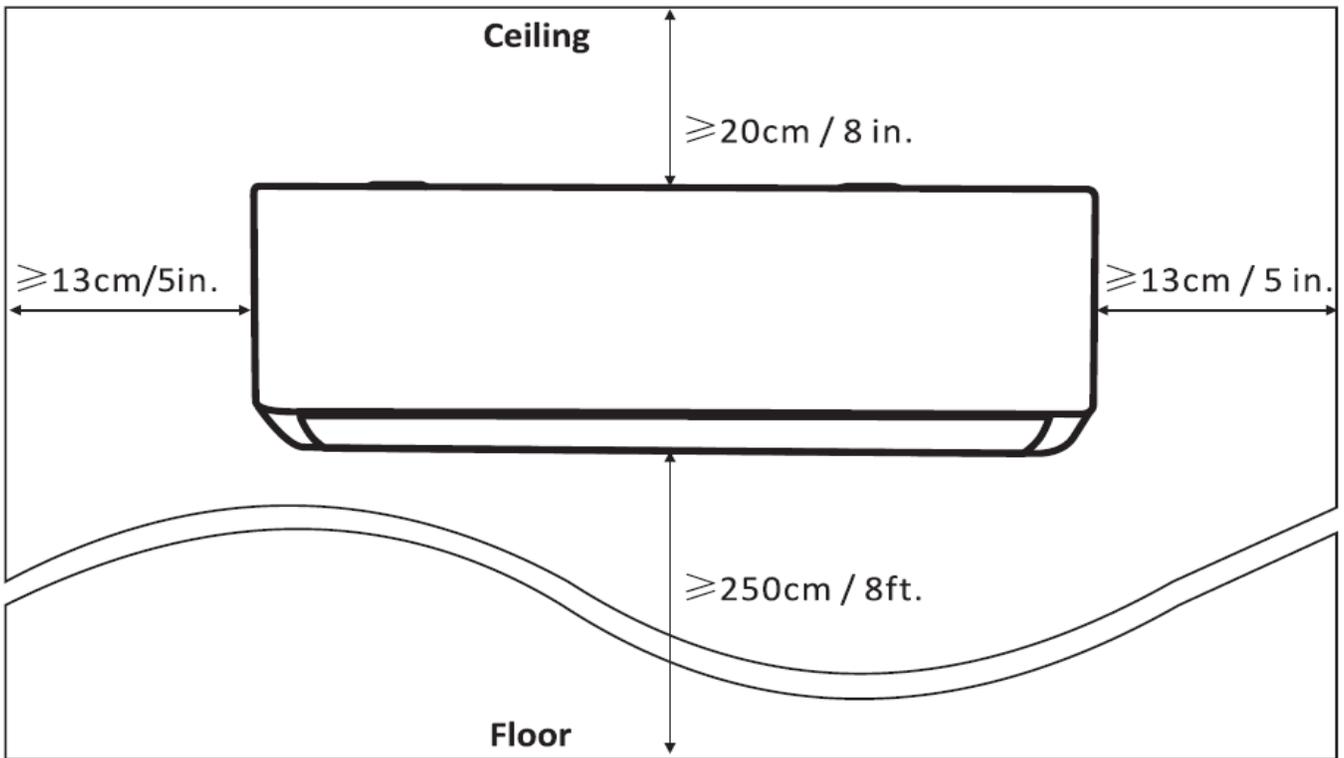
Indoor Unit Dimensions



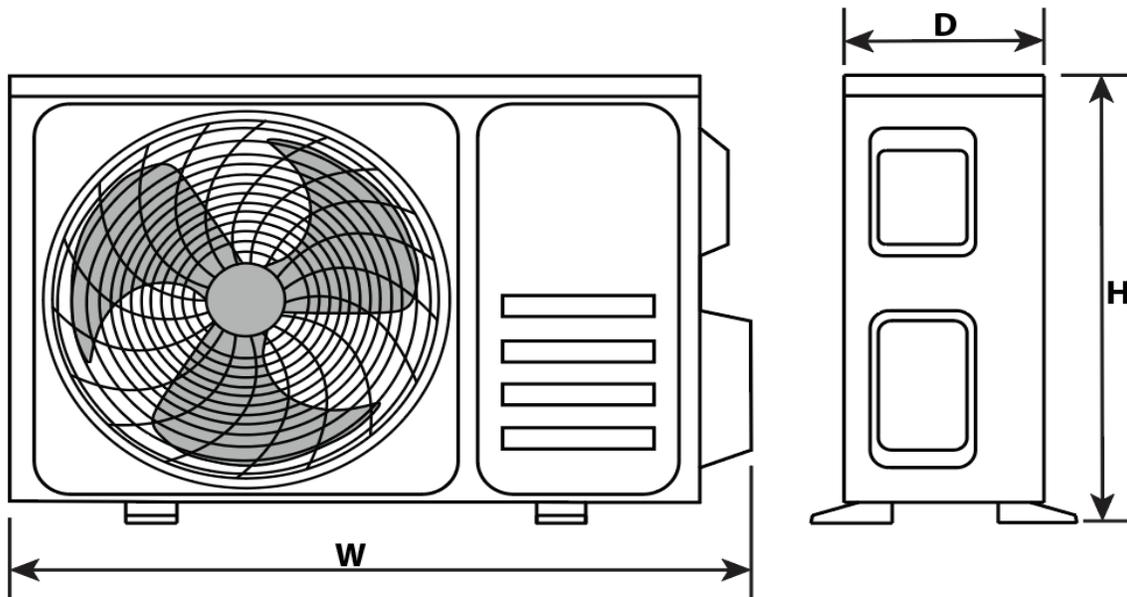
Capacity	W (Width)	D (Depth)	H (Height)
12K	30.59 in (777 mm)	7.91 in (201 mm)	9.84 in (250 mm)
18K	35.83 in (910 mm)	8.11 in (206 mm)	11.57 in (294 mm)
24K	39.76 in (1010 mm)	8.66 in (220 mm)	12.40 in (315 mm)
36K	46.89 in (1191 mm)	10.16 in (258 mm)	14.17 in (360 mm)

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

