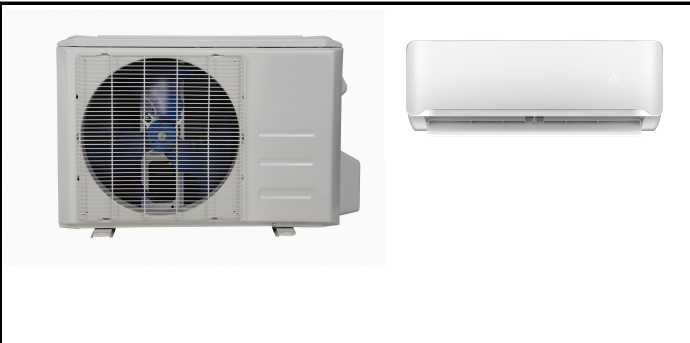


**Submittal Data: ACiQ-18W-HP230 / ACiQ-18Z-HP230**

Job Name	Location	Date
Purchaser	Engineer	
Submitted To	For	<input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction
Unit Designation	Schedule No.	

- General Features**
- Intelligently high efficiency design
  - Stealth and compact with quiet operation
  - Durable and reliable engineering
  - Golden Fin condenser coating
  - Heating and cooling down to -5°F
  - Included remote with LCD display
  - On-handler LED display
  - 5 year parts and 10 year limited compressor warranty with online registration



AHRI Certificate Reference No. 206315633

**System Performance Ratings**

<b>Cooling</b>		
Capacity	Btu/h	18000
Input	W	1645
Rated current	A	7.35
EER	Btu/w	11.0
SEER	Btu/w	19.0

<b>Heating at 47</b>		
Capacity	Btu/h	18000
Input	W	1700
Rated current	A	7.4
COP	WW	3.1
HSPF4		10.0
HSPF5		8.0

<b>Compressor</b>		
Model		KSN140D21UFZ
Type		Rotary
Brand		GMCC
Capacity	Btu/h	14910.44
Input	W	1135
Rated current(RLA)	A	7.5
Locked rotor Amp(LRA)	A	-
Thermal protector		-
Thermal protector position		-
Refrigerant oil/oil charge	ml	VG74/440

**Refrigerant Piping Data**

Design pressure	PSIG	550/340
Refrigerant type	oz	R410A/44.09
Refrigerant precharge	ft	25
Additional charge per ft.	oz	0.161
Liquid side/Gas side	mm(in)	φ6.35/φ12.7(1/4"/1/2")
Max. refrigerant pipe length	ft	98
Max. difference in level	ft.	66

**Indoor Unit Data**

<b>Indoor fan motor</b>		
Model		ZKFP-30-8-3
Brand		Welling
Input		36
RLA	A	0.11
LRA	A	-
Winding Resistance	Ω	-
Capacitor	uF	-
Speed(Hi/Mi/Lo)	r/min	1100/800/750

<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Lo)	CFM	449/97/393/262
Indoor noise level (Hi/Lo)	dB(A)	43/35/30.5

**Outdoor Unit Data**

<b>Outdoor fan motor</b>		
Model		ZKFN-34-8-1-3
Brand		Welling
Input		58
RLA	A	0.39
LRA	A	-
Winding Resistance	Ω	77.3
Capacitor	uF	-
Speed	r/min	800/750/650

<b>Air flow &amp; Noise level</b>		
Outdoor air flow	CFM	1176
Outdoor noise level	dB(A)	57.5

Power supply	Ph-V-Hz	208-230V, 1Ph, 60Hz
MINIMUM CIRCUIT AMPACITY	A	15.0
MAX. FUSE	A	20.0
Connection wiring		16*4 AWG

## Features & Function Summary

SYSTEM FEATURES	
Inverter Type	GMCC
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	High Eff. Rotary
Refrigerant Type	R410A
Outdoor Fin Coating	Golden Fin
Intelligent Defrosting	YES
Intelligent Preheating	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Multi Fan Speeds	3 Speeds
Indoor Unit Display	YES

REMOTE CONTROLLER FUNCTIONS	
Auto Mode	YES
Auto Fan	YES
Vertical Auto Swing	YES
Clock on Remote Controller	YES
Dry Mode	YES
Energy Saving Mode	YES
I Feel Function	YES
Lock on Remote Controller	YES
Room Temperature Display	YES
Sleep Mode	YES
Timer Mode	YES
Turbo Mode	YES
Display On/Off Control	YES
Freeze Guard Mode	YES
Display On/Off Control	YES
Freeze Guard Mode	YES



## EXTENDED RATINGS

### COOLING PERFORMANCE (BtuH)\*

Indoor			-5F (-20.6C)	5F (-15C)	15F (-9.4C)	35F (1.7C)	45F (7.2C)	75F (23.9C)	85F (29.4C)	95F (35C)	122F (50C)
DB	WB										
65F (18.3C)	54F	TC	15.50	16.98	17.00	16.75	16.54	16.21	16.00	15.81	12.42
		SC	10.98	12.31	12.75	11.75	12.04	11.80	11.82	12.49	11.55
70F (21.1C)	59F	TC	16.40	17.97	18.00	17.63	17.41	17.06	16.85	16.93	13.00
		SC	11.62	13.03	13.50	12.36	12.67	12.43	12.45	13.38	12.09
75F (23.9C)	63F	TC	17.13	18.87	18.90	18.40	18.38	18.01	17.79	17.78	13.73
		SC	12.13	13.67	14.18	12.91	13.37	13.12	13.15	14.04	12.76
80F (26.7C)	67F	TC	18.12	19.86	20.00	19.48	19.35	18.96	18.83	18.71	14.52
		SC	12.84	14.39	15.00	13.66	14.08	13.81	13.91	14.78	13.51

### HEATING PERFORMANCE (BtuH)\*

Indoor (DB)			-5F (-20.6C)	5F (-15C)	17F (-8.3C)	32F (0C)	39.2F (4C)	44.6F (7C)	47F (8.3C)	53.6F (12C)	57F (13.9C)
60F (15.6C)		TC	8.30	10.25	11.92	13.84	16.28	18.33	19.81	21.20	21.79
		Input	1.25	1.37	1.42	1.49	1.64	1.78	1.86	1.90	1.88
65F (18.3C)		TC	7.97	9.81	11.42	13.29	15.58	17.54	18.88	20.20	20.85
		Input	1.27	1.40	1.44	1.51	1.66	1.81	1.89	1.93	1.91
70F (21.1C)		TC	7.69	9.50	11.04	12.80	15.05	16.93	18.28	19.54	20.12
		Input	1.29	1.42	1.47	1.53	1.69	1.84	1.92	1.96	1.94
75F (23.9C)		TC	7.38	9.21	10.54	12.29	14.45	16.08	17.27	18.56	19.32
		Input	1.30	1.44	1.49	1.55	1.72	1.87	1.95	1.99	1.97

\* Maximum system capacity

DB - Dry Bulb

WB - Wet Bulb

put - Total Power (kW)

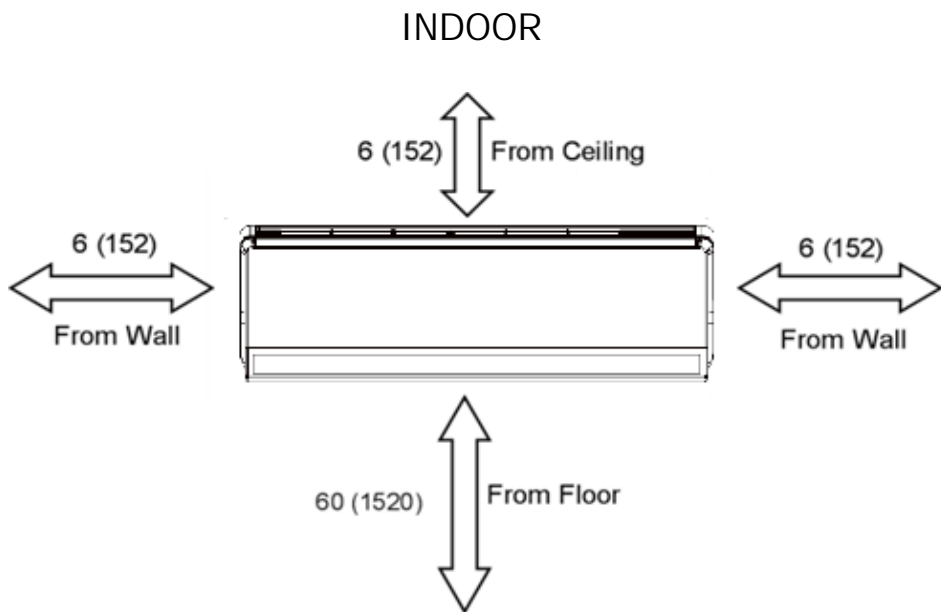
TC - Total Net Capacity (1,000 BTU/hour)

SC - Sensible Capacity (1,000 BTU/hour) In-

COP - W/W

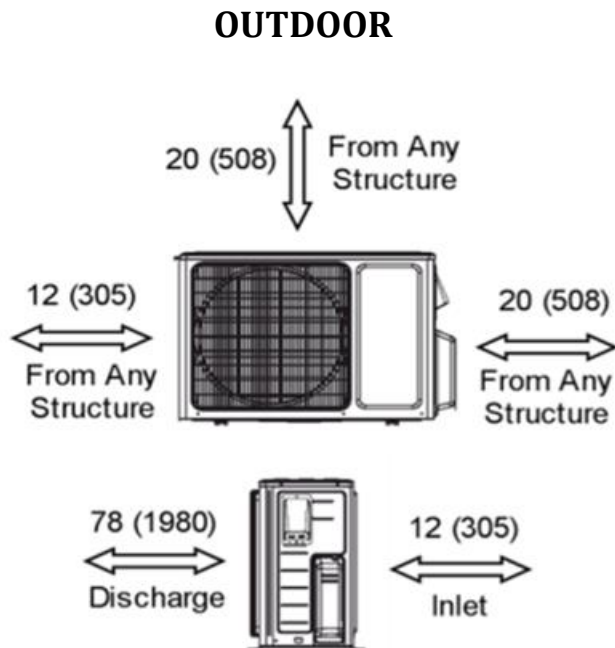
MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



ACiQ-18Z-HP230

Units: inch (mm)

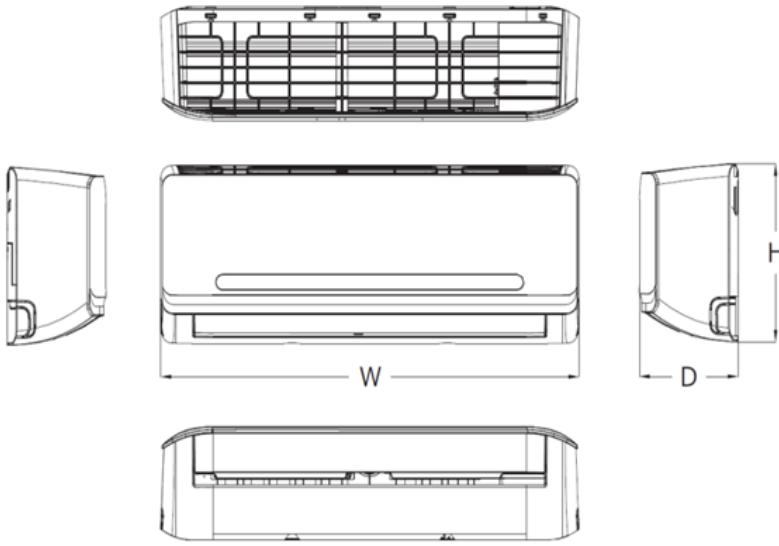


## DIMENSIONAL SPECIFICATIONS

### INDOOR UNIT DIMENSIONS

Units: inch

Model No: ACiQ-18W-HP230



Dimensions	
W	37.99
D	8.46
H	12.56

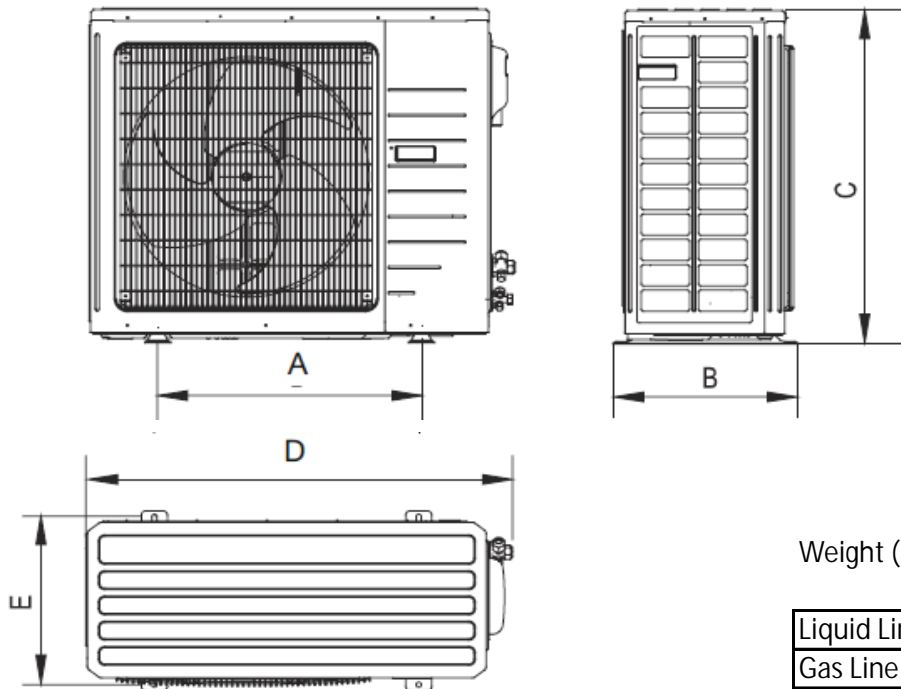
Weight (Net/Gross) 18.96/24.91 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

### OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: ACiQ-18Z-HP230



Dimensions	
A	20.24
B	13.39
C	31.50
D	34.25
E	13.11

Weight (Net/Gross) 67/72.75 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared