

**Submittal Data: CROWN12HP230V1B** 12,000 BTU/H Wall Mounted Heat- Pump System

Job Name Location Date

Purchaser Engineer

Submitted To For  Reference  Approval  Construction

Unit Designation Schedule No.

- GENERAL FEATURES**
- Variable Speed (Inverter) Two-Stage Compressor
  - Low Ambient Heating ( down to -22° F)
  - Wi Fi Controls
  - 7 Indoor Fan Speeds
  - 4 Way Airflow Operation
  - Wireless Remote with LCD Display
  - I-FEEL Function
  - 5 year Limited Parts Warranty



**System Ratings**

<b>Cooling</b>	
Rated Capacity	12,000 BTU/H
Capacity Range	2,900 -15,354 BTU/H
Power Input (Max)	1,500 W
SEER	23.0
EER	12.7

<b>Heating at 47° F</b>	
Rated Capacity	13,000 BTU/H
Capacity Range	3,071 -18,766 BTU/H
Power Input (Max)	1,600 W
HSPF	10.5
COP	3.1

<b>Heating at 17° F</b>	
Rated Capacity	8,500 BTU/H
Capacity (Max)	12,240 BTU/H
Power Input (Max)	1,0436 W
COP	2.0

<b>Operating Range</b>	
Cooling (Max)	129°F (54 C)
(Min)	0°F (-18 C)
Heating (Max)	75°F (24 C)
(Min)	-22°F (-30 C)

<b>Power Supply</b>	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
Main Power Wire Size	12-2 AWG
Interconnecting Cable Wire Size	14-4 AWG
MCA	13 A
MOCP/Breaker Size	20 A

**Indoor Unit Data**

<b>Fan Motor</b>	Type	Cross-flow
	Output Power	20 W
	FLA	0.2 A
<b>Airflow</b>	(Low/High)	265/471 CFM
<b>Air Throw</b>	(Max)	29.5 ft
<b>Sound Pressure Level</b>		
	Cooling (Low/High)	23/42 db(A)
	Heating (Low/High)	23/42 db(A)
<b>Dehumidification</b>		3.0 pt/hr

**Outdoor Unit Data**

<b>Compressor</b>	Type	DC Inverter Driven 2-Stage Rotary
	FLA	9.5A
<b>Fan Motor</b>	Output Power	30 W
	FLA	0.36 A
<b>Sound Pressure</b>		55 db(A)

<b>Refrigerant Piping Data</b>	
Gas Pipe Size (OD)	1/2-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	R410a/49.4 oz
Additional Charge	0.21 oz/ft
Pre-Charge Length	25-ft
Max Refrigerant Pipe Length	66-ft
Min Refrigerant Pipe Length	10-ft
Min Refrigerant Pipe Height Difference	33-ft

<b>SYSTEM FEATURES</b>	
Inverter Type	G10
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type	High Eff. Two Stage Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	YES
Outdoor Fin Coating	Bule Fin
Intelligent Defrosting	YES
Intelligent Preheating	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Wired Controller Interface	NO
Wi-Fi Interface Capable	YES
Indoor Fan Type	Crossflow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Advance Filter	Optional (see Filter Kits)
Auxiliary Electrical Heater	NO
Ventilation (Outdoor Air)	NO

<b>REMOTE CONTROLLER FUNCTIONS</b>	
Auto Mode	YES
Auto Fan	YES
Auto Swing (Horizontal Auto Swing)	YES
Auto Swing (Vertical Auto Swing)	YES
Clock on Remote Controller	YES
Dry Mode	YES
Dry Anti-Mildew (X-Fan) Mode	YES
Energy Saving Mode	NO
Dirty Filter Alert	NO
I Feel Function	YES
Lock on Remote Controller	YES
Quiet Mode	YES
Room Temperature Display	NO
Sleep Mode	YES
4 Sleep Modes Options	YES
Timer Mode	YES
Turbo Mode	YES
Display On/Off Control	YES
Freeze Guard Mode	NO
Display On/Off Control	YES
Freeze Guard Mode	YES

**COOLING PERFORMANCE (BtuH)\***

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures							
	65°F DB		68°F DB		73°F DB		79°F DB	
	55°F WB		57°F WB		61°F WB		64°F WB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
5°F	6,690	5,240	7,290	5,720	7,730	6,060	8,260	6,480
14°F	6,990	5,480	7,660	6,000	8,090	6,340	8,640	6,770
23°F	7,800	6,120	8,390	6,580	8,970	7,040	9,560	7,500
32°F	8,220	6,440	8,830	6,930	9,450	7,410	10,060	7,890
41°F	8,870	6,950	9,500	7,460	10,150	7,960	10,730	8,410
50°F	9,320	7,300	9,970	7,830	10,640	8,340	11,200	8,780
59°F	9,460	7,420	10,170	7,980	10,880	8,530	11,590	9,090
68°F	10,800	8,470	11,520	9,040	12,240	9,600	12,720	9,980
77°F	10,660	8,360	11,380	8,930	12,110	9,500	12,600	9,880
86°F	10,110	7,930	10,820	8,490	11,540	9,060	12,120	9,510
95°F	9,530	7,480	10,240	8,030	10,960	8,590	11,670	9,160
104°F	9,030	7,080	9,750	7,650	10,460	8,200	11,170	8,760
113°F	8,530	6,690	9,250	7,250	9,960	7,810	10,680	8,370
122°F	8,280	6,490	9,000	7,060	9,600	7,530	10,320	8,100

**HEATING PERFORMANCE (BtuH)\***

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures							
	65°F DB		68°F DB		73°F DB		79°F DB	
	55°F WB		57°F WB		61°F WB		64°F WB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-22°F	10,100	10,100	9,800	9,800	9,700	9,700	9,600	9,600
-4°F	11,110	11,110	10,770	10,770	10,670	10,670	10,560	10,560
0°F	11,990	11,990	11,630	11,630	11,510	11,510	11,400	11,400
6°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
10°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
16°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
19°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
24°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
32°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
41°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
43°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
47°F	12,630	12,630	12,240	12,240	12,120	12,120	12,000	12,000
53°F	12,750	12,750	12,370	12,370	12,240	12,240	12,120	12,120
59°F	13,040	13,040	12,650	12,650	12,520	12,520	12,400	12,400
64°F	13,320	13,320	12,920	12,920	12,790	12,790	12,660	12,660
70°F	13,580	13,580	13,160	13,160	13,030	13,030	12,900	12,900
75°F	13,760	13,760	13,350	13,350	13,210	13,210	13,080	13,080
78°F	13,890	13,890	13,470	13,470	13,330	13,330	13,200	13,200

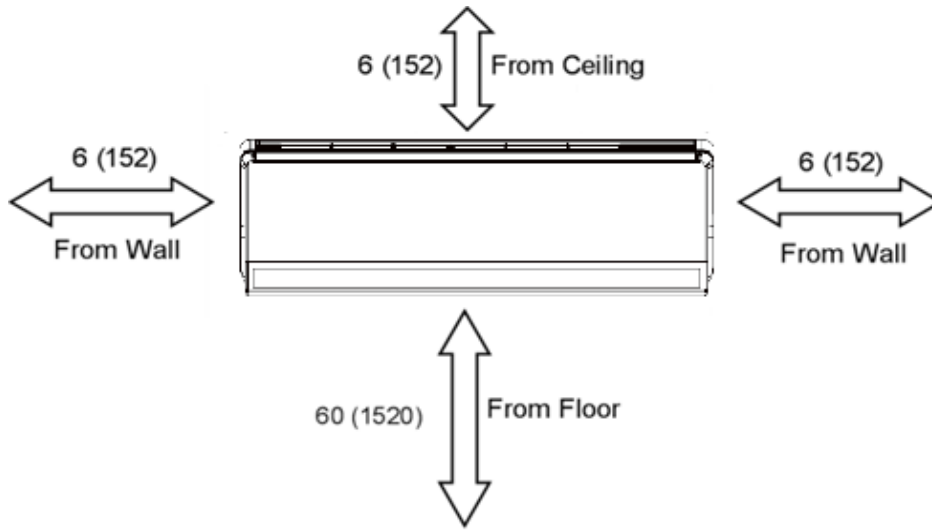
\* Maximum system capacity

TC- Total Capacity ( BtuH)  
 SHC- Sensible Capacity (BtuH)

**MINIMUM SPACING REQUIREMENTS**

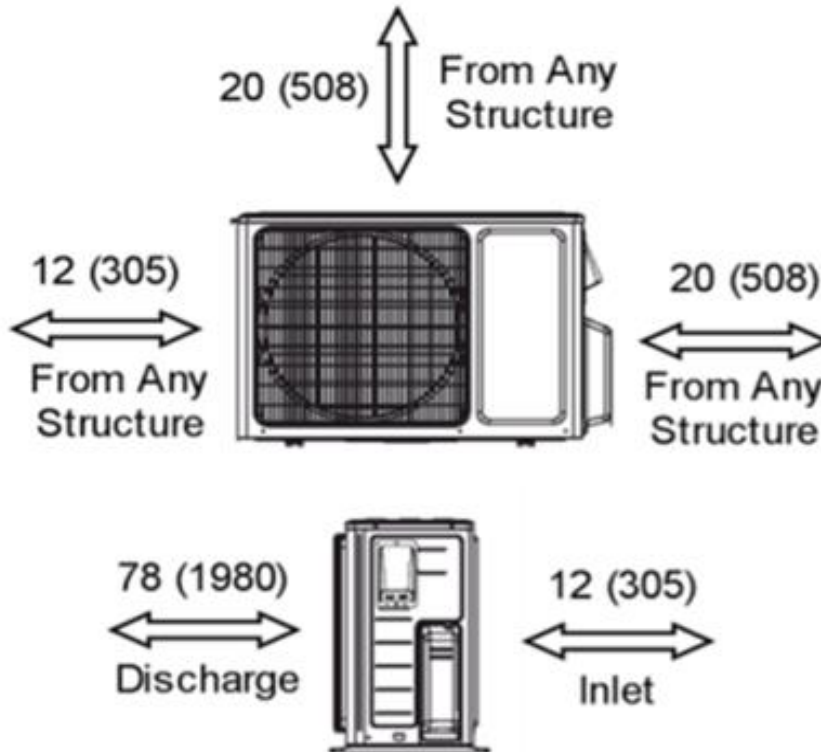
Units: inch (mm)

**INDOOR**



Units: inch (mm)

**OUTDOOR**



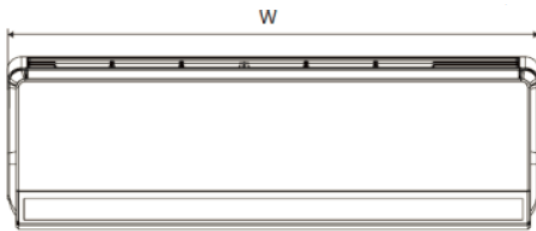
## DIMENSIONAL SPECIFICATIONS

## CROWN12HP230V1B

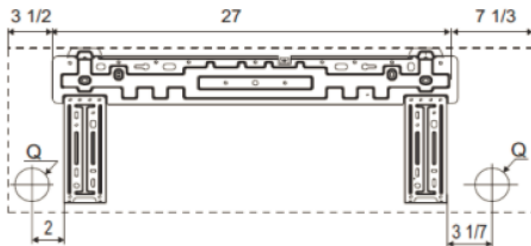
### INDOOR UNIT DIMENSIONS

Units: inch

Model No: CROWN12HP230V1BH



Dimensions	
W	37.8
H	12.6
D	8.1



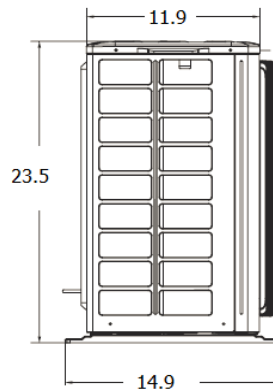
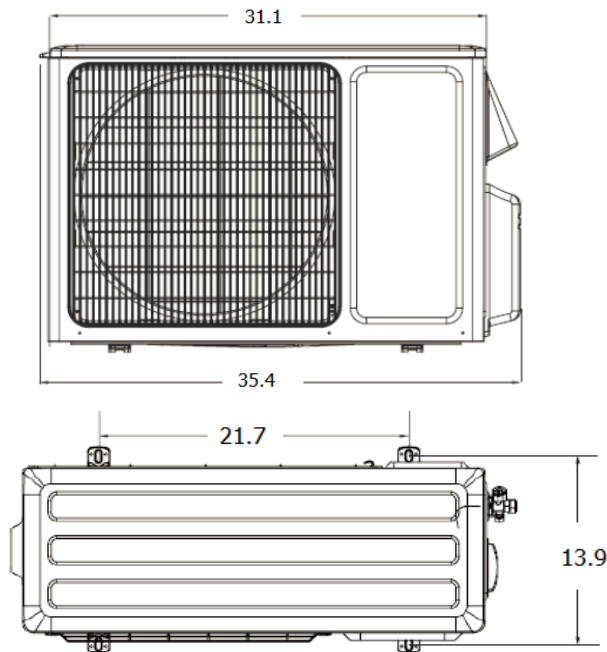
Weight (Net/Shipping) 30.9/37.5 LBS

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: CROWN12HP230V1BO



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

Weight (Net/Shipping) 97.0/103.6 LBS

**Notes:**

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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