



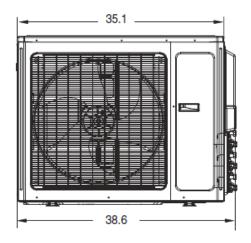
GREE			Multi-Room Ductless heat-pump systems			
Submittal Data: MULTI24HP230V1BO			24,000 BTU/H Wall Mounted Heat- Pump System			
Job Name			Location		Date	
Purchaser			Engineer			
Submitted To			For [	Reference	☐ Approval	☐ Construction
<b>Unit Designation</b>	1		Schedule N	No.		
GENERAL FEATURE	S					
-Up to 3 Indoor Units	Comfort (3-Port)			Comme		
-G10 DC Inverter Tec	hnology				GRO	
-Quiet Operation - Bo	oth Indoor & Outdoo	r				
-Wireless Remote Co				OF STREET		b
-Acrylic Resin/Anti-Co	rrosion Coil Protection	Inside & Out				
-Intelligent Defrost						
-Auto Restart on Pov	-			ETT.	m	
-Multi-point Diagnostic			AHRI Certifie	d Ref No: 871857	70 (non-ducted) & 87399	)20 (ducted)
-Limited 7 yr Compre		·				25 (0.000)
Non-Ducted Indoor	System Rati	ngs	Compressor	Type	door Unit Data	verter Driven Rotary
Rated Cooling Capaci		26000 BTUH	Compressor	RLA	DC III	17.0
Cooling Capacity (min	-	7,500-33,000 BTUH		NLA		17.07
Rated Heating Capaci	•	29000 BTUH	Fan Motor	Output Powe	r	90 W
Heating Capacity (min	•	7,500-35,000 BTUH		FLA	•	0.6 A
SEER/EER	,,	20.5/9.5		Air Flow (Max	x)	2354 CFM
HSPF/COP		10.2/3.7			,	
			Sound Press	ure		
Ducted Indoor			Cooling			59 db(A)
Rated Cooling Capaci	ty	26000 BUTH	Heating			59 db(A)
Cooling Capacity (min	-max)	7,500-33,000 BTUH				
Rated Heating Capaci	ty	29000 BTUH	Dimensions 8	& Weights		
Heating Capacity (min	-max)	7,500-35,000 BTUH		ions (LxHxD)	3	8.6 x 31.1 x 17.3 -ir
SEER/EER		14/9.5	Weight (Ne	t/Shipping)		153/164 LBS
HSPF/COP		9.0/3.0	L			
<u> </u>				of Indoor Units		2
Operating Range	(main man)	0 4400	Max. Number	of Indoor Units	want Dining Data	
Cooling	(min-max)	0 ~ 118°F -18 ~ 48°C	Refrigerant		erant Piping Data	R410 <i>A</i>
Heating	(min-max)	-4 ~ 75°F	Refrigerant	• •		77.6 oz
ricating	(IIIIII-IIIax)	-20 ~ 24°C		harge Per Line	l enath	0.21-oz/f
		20 21 0	Connection	•	2011941	Fared
Power Supply				rge for Total Lir	ne Lenath	98-f
Normal Operational	Voltage	208/230 V, 1 Phase, 60 Hz		erant Pipe Leng		197-f
Voltage Range	J	187 - 253 V	1		ngth to any Indoor Uni	
Main Power Wire Siz	ze	8-2 AWG	_		gth to any Indoor Unit	
Interconnecting Cable Wire Size 14-4 AWG		Max Elevation between Indoor Units			33-f	
MCA 22.0 A		Max Lift from	m Outdoor to In	door Unit	33-f	
MOCP/Breaker Size		35 A	Max Drop fi	om Outdoor to	Indoor Unit	33-f
YEAR	INVERTER	F241100A	AH	CERTIFIED WWW.abridizactory.org		<b>(II)</b>

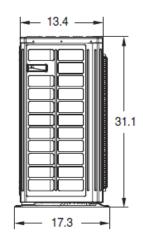
Units: inch

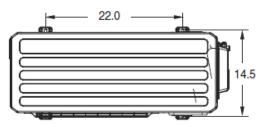
## **24,000 BTUH MODEL**

Model # MULTI24HP230V1BO 24,000 BTUH 230V









### Suction/Gas Line Port Size

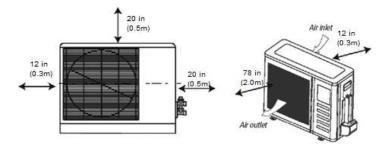
Port #1	3/8-in OD Flared		
Port #2	3/8-in OD Flared		
Port #3	3/8-in OD Flared		

#### **Liquid Line Port Size**

Port #1	1/4-in OD Flared
Port #2	1/4-in OD Flared
Port #3	1/4-in OD Flared

Units: inch (mm)

# **MINIMUM SPACING REQUIREMENTS**



#### Notes:

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

# **INDOOR DUCTLESS DIMENSIONAL SPECIFICATIONS**

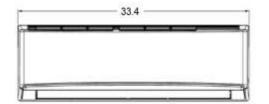
## **MULTI24HP230V1BO**

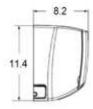
Units: inch



# 9,000 AND 12,000 BTUH MODELS

Model # VIR09HP230V1AH 9,000 BTUH 230V Model # VIR12HP230V1AH 12,000 BTUH 230V





9,000 BTU				
Liquid Line Valve 1/4-in OD Flared				
Suction/Gas Line Valve	3/8-in OD Flared			
Drain Connector	5/8-in OD			

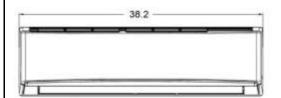
12,000 BTU				
Liquid Line Valve	1/4-in OD Flared			
Suction/Gas Line Valve	1/2-in OD Flared			
Drain Connector	5/8-in OD			

Note: Size Refrigerant lines based on evaporator port sizes.

Indoor Capacity Size	Rated Cooling	Rated Heating	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
9,000 BTUH	9,000	11,000	377	1.7	29/43
12,000 BTUH	12,000	13,000	400	3.0	29/45

# 18,000 BTUH MODEL

Model # VIR18HP230V1AH 18,000 BTUH 230V





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

Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Heating	Max. CFM	Dehumid. (Pt/Hr)	Min/Max Sound Power dB(A)**
18,000	19,800	559	3.8	39/47

\*\*Sound Power ratings are per AHRI 270 and AHRI 350

# **INDOOR DUCTLESS DIMENSIONAL SPECIFICATIONS**

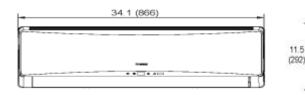
### **MULTI24HP230V1BO**

Units: inch (mm)

# 9,000 AND 12,000 BTUH MODELS

Model # TERRA09HP230V1AH 9,000 BTUH 230V Model # TERRA12HP230V1AH 12,000 BTUH 230V





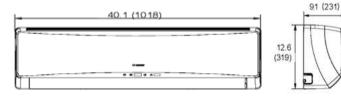
Liquid Line Valve	1/4-in OD Flared		
Suction/Gas Line Valve	1/2-in OD Flared		
Drain Connector	5/8-in OD		

Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Heating	Max. CFM	Dehumid. (Pt/Hr)	Min/Max Sound Power dB(A)**
9,000	9,800	418	1.9	23/43
12,000	13,000	453	3	24/44

# **18,000 BTUH MODEL**

Model # TERRA18HP230V1BH 18,000 BTUH 230V



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

Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Heating	Max. CFM	Dehumid. (Pt/Hr)	Min/Max Sound Power dB(A)**
18,000	19,000	559	3.8	33/51

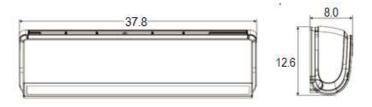
<sup>\*\*</sup>Sound Power ratings are per AHRI 270 and AHRI 350

Units: inch

## 9,000 BTUH MODELS

Model # CROWN09HP230V1AH 9,000 BTUH 230V





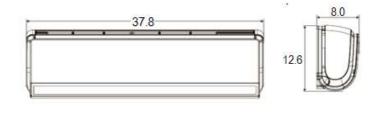
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Max. CFM		Dehumid.	Min/Max Sound	
Rated Cooling (Blun)	Heating	IVIAX. CFIVI	(Pt/Hr)	Power dB(A)**	
9,000	9,000	412	1.7	22/41	

# 12,000 BTUH MODEL

Model # CROWN12HP230V1BH 12,000 BTUH 230V



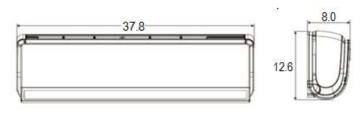
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

Note: Size Refrigerant lines based on evaporator port sizes.

Pated Cooling (PtuH)	Rated Max. CFM		Dehumid.	Min/Max Sound	
Rated Cooling (BtuH)	Heating	IVIAX. CFIVI	(Pt/Hr)	Power dB(A)**	
12,000	13,000	471	3.0	23/42	

# **18,000 BTUH MODEL**

Model # CROWN18HP230V1AH 18,000 BTUH 230V



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

Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Heating	Max. CFM	Dehumid. (Pt/Hr)	Min/Max Sound Power dB(A)**	
18,000	19,000	530	3.8	26/48	

<sup>\*\*</sup>Sound Power ratings are per AHRI 270 and AHRI 350

# **COOLING CAPACITY (BTUH)**

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K + 9K	18,000	9,000	9,000	NA	NA
9K + 12K	21,000	9,000	12,000	NA	NA
9K + 18K	25,000	8,400	16,600	NA	NA
12K + 12K	24,000	12,000	12,000	NA	NA
12K + 18K	25,000	10,000	15,000	NA	NA
18K + 18K	25,500	12,750	12,750	NA	NA
9K + 9K + 9K	26,001	8,667	8,667	8,667	NA
9K + 9K + 12K	26,000	8,000	8,000	10,000	NA
9K + 9K + 18K	26,000	7,000	7,000	12,000	NA
9K + 12K + 12K	26,000	6,000	10,000	10,000	NA
12K + 12K + 12K	26,001	8,667	8,667	8,667	NA

# **HEATING CAPACITY (BTUH)**

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9K + 9K	19,000	9,500	9,500	NA	NA
9K + 12K	22,500	9,500	13,000	NA	NA
9K + 18K	27,000	9,000	18,000	NA	NA
12K + 12K	26,000	13,000	13,000	NA	NA
12K + 18K	28,000	11,200	16,800	NA	NA
18K + 18K	28,500	14,250	14,250	NA	NA
9K + 9K + 9K	29,001	9,667	9,667	9,667	NA
9K + 9K + 12K	29,000	9,000	9,000	11,000	NA
9K + 9K + 18K	29,000	6,000	6,000	17,000	NA
9K + 12K + 12K	29,000	6,000	11,500	11,500	NA
12K + 12K + 12K	29,001	9,667	9,667	9,667	NA

Capacity data is based on the following conditions:

Cooling Nominal Test Conditions Heating Nominal Test Conditions

Indoor: 80°F DB/67°F WB Indoor: 70°F DB/60°F WB Outdoor: 95°F DB/75°F WB Outdoor: 47°F DB/43°F W

### **COOLING PERFORMANCE**

			Indoor Ambient Temperature											
	DB		70°F (21°C)			75°F (24°C)			80°F (27°C)			90°F (32°C)		
	WB		59°F (15°	(C)		63°F (17°	C)		67°F (19°	C)		73°F (23°	°C)	
		TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	
	-0.4°F (-18°C)	14,670	11,510	1,180	16,550	12,980	1,250	17,500	13,720	1,300	19,720	15,460	1,390	
	5°F (-15°C)	15,050	11,800	1,180	16,970	13,320	1,260	18,160	14,240	1,300	20,220	15,860	1,390	
	14°F (-10°C)	16,590	13,010	1,200	17,710	14,680	1,270	19,780	15,510	1,320	22,290	17,480	1,410	
nO	23°F (-5°C)	18,170	14,260	1,200	20,700	16,240	1,270	22,270	17,470	1,310	24,500	19,220	1,400	
tdoc	32°F (0°C)	19,103	14,986	1,196	21,764	14,466	1,265	22,379	17,543	1,309	25,759	20,204	1,404	
r An	41°F (5°C)	20,083	15,754	1,257	22,880	15,208	1,330	23,527	18,442	1,376	27,080	21,240	1,476	
Outdoor Ambient Temperature	50°F (10°C)	20,919	16,411	1,310	23,833	15,841	1,386	24,507	19,211	1,433	28,209	22,125	1,538	
nt Te	59°F (15°C)	22,040	17,290	1,380	25,110	16,690	1,460	25,820	20,240	1,510	29,720	23,310	1,620	
mpe	68°F (20°C)	24,961	19,577	2,028	26,521	20,797	2,092	28,341	22,228	2,219	32,501	25,494	2,375	
eratu	77°F (25°C)	24,666	19,349	2,082	26,235	20,578	2,146	28,081	22,026	2,283	32,241	25,283	2,448	
	86°F (30°C)	23,453	18,392	2,329	25,013	19,621	2,402	27,301	21,412	2,548	31,245	24,502	2,731	
(DB)	95°F (35°C)	22,196	17,409	2,503	23,748	18,620	2,576	26,001	20,394	2,740	29,927	23,475	2,932	
	104°F (40°C)	21,122	16,566	2,585	22,664	17,777	2,667	25,325	19,867	2,831	28,853	22,623	3,032	
	113°F (45°C)	20,038	15,714	2,640	21,581	16,926	2,722	24,250	19,015	2,895	27,769	21,781	3,096	
	118°F (48°C)	19,501	15,293	2,667	20,801	16,311	2,749	23,401	18,357	2,923	26,781	21,008	3,124	

### **HEATING PERFORMANCE**

			Indoor Ambient Temperature										
	DB 70°F (21°C)				75°F (24°C)			80°F (27°C)			90°F (32°C)		
	WB		59°F (15°	'C)		63°F (17°	C)		67°F (19°	C)		73°F (23°	(C)
	DB	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
	-4°F (-20°C)	15,660	15,660	1,440	15,220	15,220	1,470	15,070	15,070	1,490	14,550	14,550	1,550
9	0°F (-18°C)	16,974	16,974	1,577	16,485	16,485	1,609	16,177	16,177	1,669	15,751	15,751	1,708
Outdoor	5°F (-15°C)	17,442	17,442	1,613	16,939	16,939	1,645	16,622	16,622	1,706	16,187	16,187	1,746
r Am	7°F (-14°C)	17,909	17,909	1,648	17,393	17,393	1,682	17,067	17,067	1,744	16,622	16,622	1,784
bier	17°F (-8°C)	19,224	19,224	1,719	18,662	18,662	1,754	18,308	18,308	1,819	17,828	17,828	1,861
Ambient Temperature	28°F (-2°C)	21,716	21,716	1,832	21,145	21,145	1,869	20,538	20,538	1,938	20,293	20,293	1,983
mpe	38°F (3°C)	27,000	27,000	2,108	26,429	26,429	2,151	25,831	25,831	2,230	25,577	25,577	2,282
ratu	47°F (8°C)	30,517	30,517	2,192	29,592	29,592	2,237	29,003	29,003	2,320	28,206	28,206	2,374
ге (Г	57°F (14°C)	31,523	31,523	2,235	30,571	30,571	2,281	29,964	29,964	2,365	29,130	29,130	2,420
(DB)	68°F (20°C)	32,810	32,810	2,310	31,810	31,810	2,360	31,180	31,180	2,450	30,310	30,310	2,500
	77°F (25°C)	33,570	33,570	2,370	32,550	32,550	2,420	31,900	31,900	2,510	31,020	31,020	2,570

#### LEGEND

DB --- Dry Bulb TC --- Total Net Cooling Capacity (BtuH)

WB --- Wet Bulb SC --- Sensible Capacity (BtuH)

Input Power---(Watts)

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