

**Submittal Data: MULTI36HP230V1BO      36,000 BTU/H Wall Mounted Heat- Pump System**

<b>Job Name</b>	<b>Location</b>	<b>Date</b>
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<b>Purchaser</b>	<b>Engineer</b>
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<b>Submitted To</b>	<b>For</b> <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction
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<b>Unit Designation</b>	<b>Schedule No.</b>
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- GENERAL FEATURES**
- Up to 5 Indoor Units Comfort (5-Port)
  - G10 DC Inverter Technology
  - Quiet Operation - Both Indoor & Outdoor
  - Wireless Remote Controller
  - Gold Fin Coil Coating
  - Intelligent Defrost
  - Auto Restart on Power Outages
  - Mult-point Diagnostics
  - Limited 7 yr Compressor & 5 yr Parts Warranty



AHRI Certified Ref No: 8778973 (non-ducted) & 8778974 (ducted)

**System Ratings**

<b>Non-Ducted Indoor</b>		
Rated Cooling Capacity		34000 BTUH
Cooling Capacity (min-max)		8,871-35,826 BTUH
Rated Heating Capacity		42500 BTUH
Heating Capacity (min-max)		8,871-44,356 BTUH
SEER/EER		21/12.4
HSPF/COP		10.2/3.7
<b>Ducted Indoor</b>		
Rated Cooling Capacity		34000 BTUH
Cooling Capacity (min-max)		12,706-36,965 BTUH
Rated Heating Capacity		43500 BTUH
Heating Capacity (min-max)		7,231-44,745 BTUH
SEER/EER		14.8/10.1
HSPF/COP		9.9/3.0

<b>Operating Range</b>		
Cooling	(min-max)	0 ~ 118°F -18 ~ 48°C
Heating	(min-max)	-4 ~ 75°F -20 ~ 24°C






<b>Power Supply</b>		
Normal Operational Voltage		208/230 V, 1 Phase, 60 Hz
Voltage Range		187 - 253 V
Main Power Wire Size		8-2 AWG
Interconnecting Cable Wire Size		14-4 AWG
MCA		21.0 A
MOCP/Breaker Size		35 A

**Outdoor Unit Data**

<b>Compressor</b>	Type	DC Inverter Driven Rotary
	RLA	15.6 A
<b>Fan Motor</b>	Output Power	170 W
	FLA	0.8 A
	Air Flow (Max)	4,531 CFM
<b>Sound Pressure</b>		
	Cooling	61 db(A)
	Heating	61 db(A)
<b>Dimensions &amp; Weights</b>		
	Unit Dimensions (LxHxD)	42.8 x 43.4 x 17.3 -in
	Weight (Net/Shipping)	198/216 LBS
	Min. Number of Indoor Units	2
	Max. Number of Indoor Units	5

**Refrigerant Piping Data**

Refrigerant Type	R410A
Refrigerant Charge	128.8
Additional Charge Per Line Length	0.21-oz/ft
Connection Method	Flared
Factory Charge for Total Line Length	131-ft
Total Refrigerant Pipe Length	246-ft
Max Refrigerant Piping Length to any Indoor Unit	82-ft
Min Refrigerant Piping Length to any Indoor Unit	10-ft
Max Elevation between Indoor Units	25-ft
Max Lift from Outdoor to Indoor Unit	49-ft
Max Lift from Outdoor to Indoor Unit	49-ft

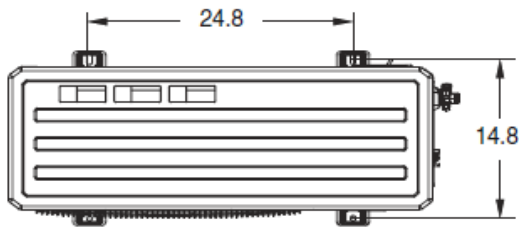
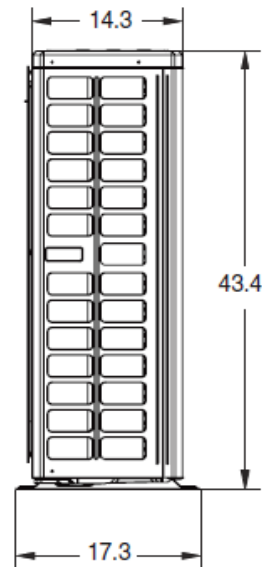
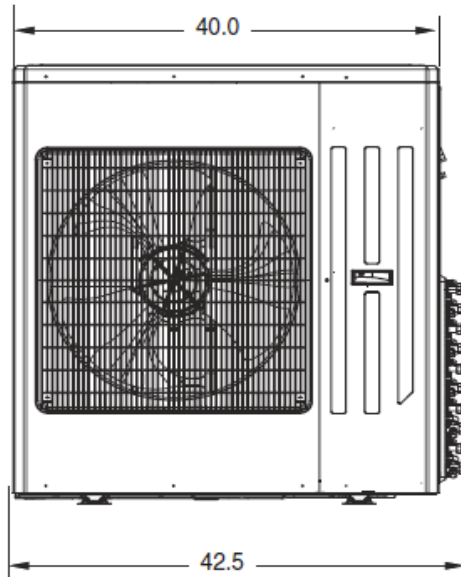
				
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Units: inch



**36,000 BTUH MODEL**

Model # MULTI36HP230V1BO 36,000 BTUH 230V



**Suction/Gas Line Port Size**

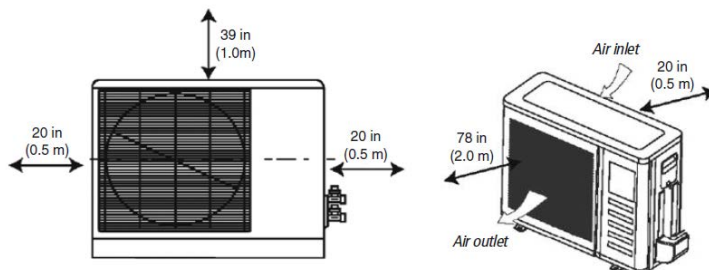
Port #1	3/8-in OD Flared
Port #2	3/8-in OD Flared
Port #3	3/8-in OD Flared
Port #4	3/8-in OD Flared
Port #5	3/8-in OD Flared

**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
Port #4	1/4-in OD Flared
Port #5	1/4-in OD Flared

**MINIMUM SPACING REQUIREMENTS**

Units: inch (mm)



**Notes:**

1. Recommended Interconnecting Cable Type Stranded Bare 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.



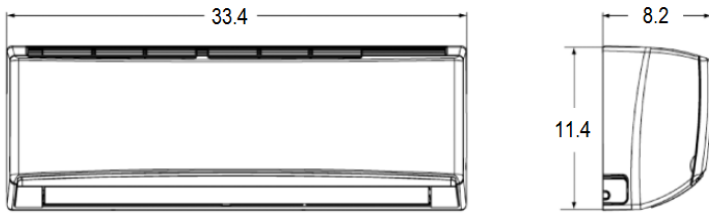
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Units: inch (mm)

**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	Fan (watts)	CFM (High)	Sound Power (Low/High)**
9,000 BTUH	20	377	29/43
12,000 BTUH	20	400	29/45

**18,000 BTUH MODEL**

Model # VIR18HP230V1AH 18,000 BTUH 230V



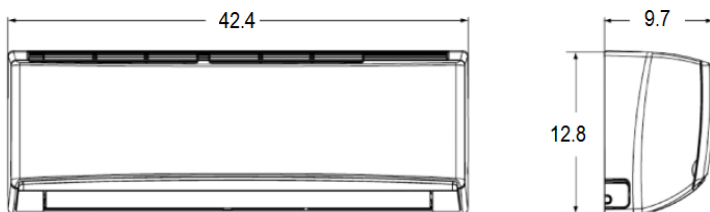
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

*Note: Size Refrigerant lines based on evaporator port sizes.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
18,000 BTUH	60	559	39/47

**24,000 BTUH MODEL**

Model # VIR24HP230V1AH 24,000 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.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
24,000 BTUH	60	706	36/48



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

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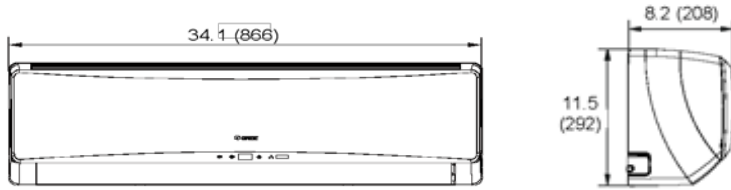
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Units: inch (mm)

**9,000 AND 12,000 BTUH MODELS**



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

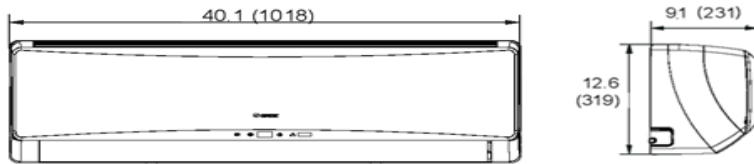


Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
9,000 BTUH	10	418	33/42
12,000 BTUH	10	453	33/42

**18,000 BTUH MODEL**

Model # TERRA18HP230V1BH 18,000 BTUH 230V



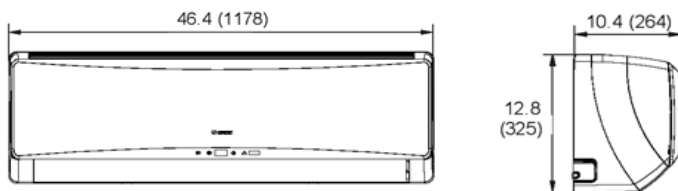
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	5/8-in OD Flared
Drain Connector	5/8-in OD

*Note: Size Refrigerant lines based on evaporator port sizes.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
18,000 BTUH	25	589	33/51

**24,000 BTUH MODEL**

Model # TERRA24HP230V1AH 24,000 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.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
24,000 BTUH	70	647	38/52



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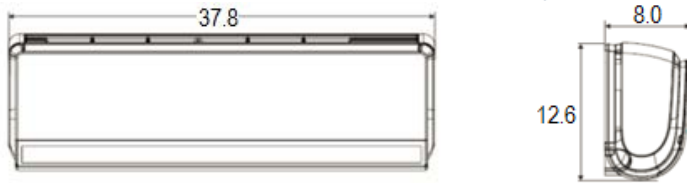
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Units: inch (mm)

**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.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
9,000 BTUH	20	412	22/41

**12,000 BTUH MODEL**

Model # CROWN12HP230V1BH 12,000 BTUH 230V



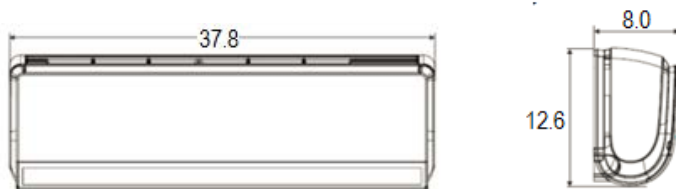
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

*Note: Size Refrigerant lines based on evaporator port sizes.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
12,000 BTUH	20	471	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.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
18,000 BTUH	20	530	26/48



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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)	Indoor Unit E (BtuH)
9+9	18,000	9,000	9,000	NA	NA	NA
9+12	21,000	9,000	12,000	NA	NA	NA
9+18	25,500	8,000	17,500	NA	NA	NA
9+24	26,300	7,000	19,300	NA	NA	NA
12+12	24,000	12,000	12,000	NA	NA	NA
12+18	28,400	11,400	17,000	NA	NA	NA
12+24	30,000	10,000	20,000	NA	NA	NA
18+18	30,600	15,300	15,300	NA	NA	NA
18+24	33,100	14,200	18,900	NA	NA	NA
24+24	33,600	16,800	16,800	NA	NA	NA
9+9+9	24,600	8,200	8,200	8,200	NA	NA
9+9+12	24,900	7,500	7,500	9,900	NA	NA
9+9+18	29,700	7,200	7,200	15,300	NA	NA
9+9+24	30,900	6,600	6,600	17,700	NA	NA
9+12+12	29,600	8,000	10,800	10,800	NA	NA
9+12+18	31,900	7,400	9,800	14,700	NA	NA
9+12+24	34,100	6,800	9,100	18,200	NA	NA
9+18+18	33,900	6,500	13,700	13,700	NA	NA
12+12+12	31,200	10,400	10,400	10,400	NA	NA
12+12+18	32,720	9,360	9,360	14,000	NA	NA
12+12+24	32,900	8,300	8,300	16,300	NA	NA
12+18+18	32,760	8,160	12,300	12,300	NA	NA
9+9+9+9	34,000	8,500	8,500	8,500	8,500	NA
9+9+9+12	34,290	7,830	7,830	7,830	10,800	NA
9+9+9+18	34,072	6,824	6,824	6,824	13,600	NA
9+9+12+12	34,040	7,300	7,300	9,720	9,720	NA
9+9+12+18	34,600	6,500	6,500	8,640	12,960	NA
9+12+12+12	34,440	6,840	9,200	9,200	9,200	NA
12+12+12+12	35,040	8,760	8,760	8,760	8,760	NA
9+9+9+9+9	27,600	6,900	6,900	6,900	6,900	6,900
9+9+9+9+12	32,640	6,500	6,500	6,500	6,500	6,640

Note:

- 1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.
- 2) 24K size is reserved for Ceiling Cassettes, Concealed Ducts, and Floor/Ceilings units only. Not Wall Mount units.



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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)	Indoor Unit E (BtuH)
9+9	19,000	9,500	9,500	NA	NA	NA
9+12	22,500	9,500	13,000	NA	NA	NA
9+18	27,800	9,300	18,500	NA	NA	NA
9+24	29,600	8,000	21,600	NA	NA	NA
12+12	26,000	13,000	13,000	NA	NA	NA
12+18	29,500	12,000	17,500	NA	NA	NA
12+24	33,200	11,200	22,000	NA	NA	NA
18+18	35,000	17,500	17,500	NA	NA	NA
18+24	36,000	15,000	21,000	NA	NA	NA
24+24	38,000	19,000	19,000	NA	NA	NA
9+9+9	27,000	9,000	9,000	9,000	NA	NA
9+9+12	28,800	9,000	9,000	10,800	NA	NA
9+9+18	35,000	8,800	8,800	17,400	NA	NA
9+9+24	36,600	7,800	7,800	21,000	NA	NA
9+12+12	33,000	9,000	12,000	12,000	NA	NA
9+12+18	35,150	8,650	11,200	15,300	NA	NA
9+12+24	37,640	7,900	9,240	20,500	NA	NA
9+18+18	37,960	7,560	15,200	15,200	NA	NA
12+12+12	36,000	12,000	12,000	12,000	NA	NA
12+12+18	37,200	10,600	10,600	16,000	NA	NA
12+12+24	38,000	9,500	9,500	19,000	NA	NA
12+18+18	38,300	9,300	14,500	14,500	NA	NA
9+9+9+9	42,000	10,500	10,500	10,500	10,500	NA
9+9+9+12	42,000	9,600	9,600	9,600	13,200	NA
9+9+9+18	41,940	8,400	8,400	8,400	16,740	NA
9+9+12+12	42,000	9,000	9,000	12,000	12,000	NA
9+9+12+18	42,680	8,000	8,000	10,680	16,000	NA
9+12+12+12	40,800	8,100	10,900	10,900	10,900	NA
12+12+12+12	42,720	10,680	10,680	10,680	10,680	NA
9+9+9+9+9	42,750	8,550	8,550	8,550	8,550	8,550
9+9+9+9+12	42,240	7,920	7,920	7,920	7,920	10,560

Note:

- 1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.
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**COOLING PERFORMANCE**

DB WB		Indoor Ambient Temperature											
		70°F (21°C) 59°F (15°C)			75°F (24°C) 63°F (17°C)			80°F (27°C) 67°F (19°C)			90°F (32°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)
Outdoor Ambient Temperature (DB)	-0.4°F (-18°C)	20,420	16,010	1,200	23,030	18,060	1,270	24,340	19,090	1,320	27,430	21,510	1,410
	5°F (-15°C)	20,940	16,420	1,200	23,620	18,530	1,280	25,270	19,820	1,320	28,130	22,030	1,410
	14°F (-10°C)	21,690	17,010	1,220	24,470	19,190	1,300	25,860	20,280	1,340	29,150	22,860	1,440
	23°F (-5°C)	23,770	18,640	1,220	27,080	21,240	1,300	29,130	22,840	1,330	32,040	25,130	1,430
	32°F (0°C)	24,979	19,588	1,222	28,455	22,319	1,291	29,261	22,943	1,335	33,681	25,057	1,395
	41°F (5°C)	26,260	20,593	1,285	29,914	23,463	1,358	30,762	24,119	1,403	35,409	26,342	1,467
	50°F (10°C)	27,355	21,451	1,338	31,161	24,441	1,414	32,043	25,124	1,462	36,884	27,440	1,528
	59°F (15°C)	28,820	22,600	1,410	32,830	25,750	1,490	33,760	26,470	1,540	38,860	28,910	1,610
	68°F (20°C)	32,620	29,556	2,010	33,422	30,044	1,995	34,582	31,733	2,010	41,526	33,695	2,025
	77°F (25°C)	35,145	30,300	2,450	39,240	31,409	2,435	38,796	32,791	2,440	45,040	34,872	2,430
	86°F (30°C)	35,486	30,368	3,120	38,438	32,364	3,125	38,984	33,012	3,160	45,211	34,650	3,185
	95°F (35°C)	32,176	28,781	3,300	35,827	31,255	3,400	36,083	31,921	3,335	41,014	34,275	3,405
	104°F (40°C)	27,451	26,444	3,075	30,095	28,543	3,085	30,795	29,856	3,115	35,452	32,671	3,145
113°F (45°C)	23,544	23,203	2,765	25,642	24,926	2,790	26,956	25,779	2,800	29,686	28,833	2,825	
118°F (48°C)	16,382	16,232	1,856	17,504	17,242	1,911	19,040	18,354	1,986	20,186	19,923	2,023	

**HEATING PERFORMANCE**

DB WB		Indoor Ambient Temperature									
		70°F (21°C) 59°F (15°C)			75°F (24°C) 63°F (17°C)			80°F (27°C) 67°F (19°C)			
DB	WB	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	
Outdoor Ambient Temperature (DB)	-4°F (-20°C)	3.2°F (-16°C)	17,060	17,060	1,500	16,580	16,580	1,530	16,260	16,260	1,580
	0°F (-18°C)	3.2°F (-16°C)	18,500	18,500	1,650	17,960	17,960	1,680	17,630	17,630	1,740
	5°F (-15°C)	3.2°F (-16°C)	19,510	19,510	1,720	18,950	18,950	1,750	18,590	18,590	1,820
	7°F (-14°C)	5°F (-15°C)	20,010	20,010	1,750	19,050	19,050	1,790	19,360	19,360	1,870
	17°F (-8°C)	15°F (-9°C)	20,940	20,940	1,790	20,330	20,330	1,830	19,950	19,950	1,900
	28°F (-2°C)	25°F (-4°C)	23,660	23,660	1,910	23,040	23,040	1,950	22,380	22,380	2,020
	38°F (3°C)	35°F (2°C)	29,420	29,420	2,200	28,800	28,800	2,240	28,140	28,140	2,330
	47°F (8°C)	43°F (6°C)	33,250	33,250	2,290	32,240	32,240	2,330	31,600	31,600	2,420
	57°F (14°C)	55°F (13°C)	34,350	34,350	2,330	33,310	33,310	2,380	32,650	32,650	2,470
	68°F (20°C)	59°F (15°C)	35,750	35,750	2,410	34,660	34,660	2,460	33,970	33,970	2,550
	77°F (25°C)	59°F (15°C)	36,580	36,580	2,470	35,470	35,470	2,520	34,760	34,760	2,620

LEGEND

- DB --- Dry Bulb
- WB --- Wet Bulb
- TC --- Total Net Cooling Capacity (BtuH)
- SC --- Sensible Capacity (BtuH)
- Input Power---(Watts)



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