



VRF

High Efficiency Ceiling/Floor Mount Indoor Models - 60 Hz

VRF

VCFB

**COMMERCIAL  
PRODUCT SPECIFICATIONS**

Bulletin No. 210889  
April 2019

Ceiling and Floor Mount non-ducted models with digital display and multi-blade louvers that distributes air vertically and horizontally with a wide angle sweeping motion. Two installation options are available: horizontally against the ceiling or vertically against the floor/wall.



**APPROVALS**

- Units are ETL certified for the U.S. and Canada

**WARRANTY**

- **Components** - Limited ten years for qualifying installations
- See Warranty Certificate for details

**FEATURES**

- **Pre-Heat Function** - Delays the operation of the fan until the indoor coil has reached a selected temperature which prevents the discharge of cold air while the system is operating in the "heating" mode
- **Digital Readout/Infrared Receiver Panel** - Mounted on unit. LEDs display unit operation status, and codes for maintenance and servicing. Infrared receiver for use with a wireless remote control (not furnished)
- **Unit Addressing** - An optional wireless remote control (not furnished) can be used to inquire and modify each indoor unit's address



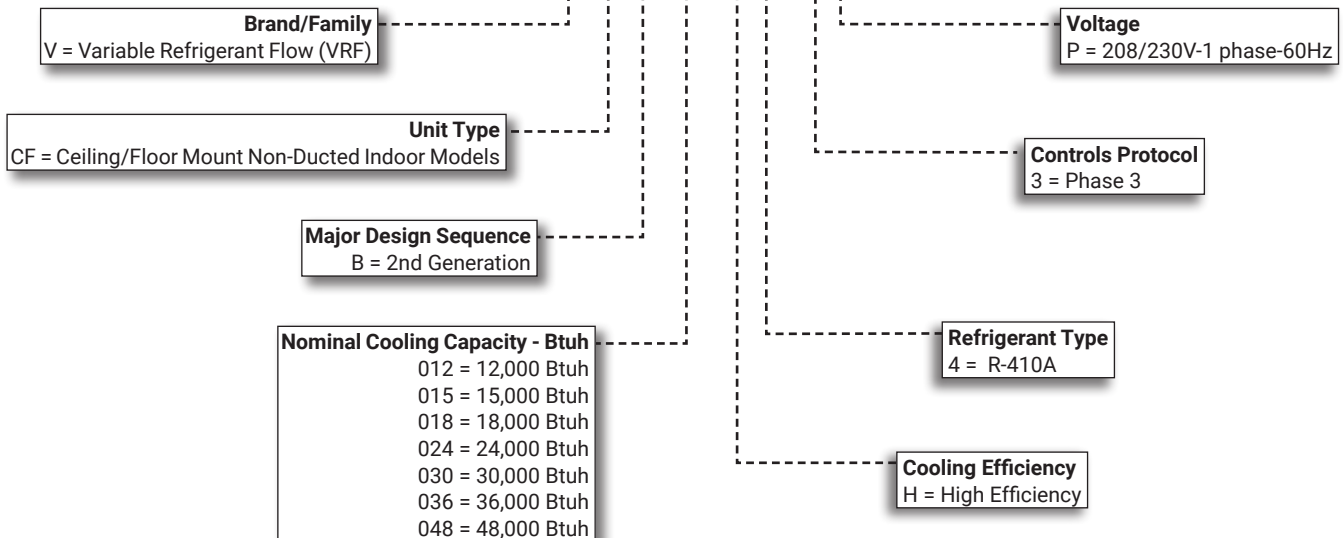
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- **Three-Stage Fan Speed (High Efficiency DC Motor)** - Fan functions at three levels: low, medium, high
- **Auto-Restart** - Automatically restores the previous function setting if power is interrupted
- **Condensate Pump Connection** - Control board has connection for condensate pump (not furnished)
- **Electronic Expansion Valve** - Assures optimal performance throughout the application range
- **Flare Connections** - Equipped with liquid and gas flare fittings for quick and secure piping
- **Multi-Refrigerant Outlet** - Allows right side, right/ bottom or right/rear access for refrigeration line connections
- **Air Filter** - Cleanable air filter is furnished as standard

**MODEL NUMBER IDENTIFICATION**

**V C F B 012 H 4 - 3 P**



**SPECIFICATIONS**
**012 - 024**

General Data		Nominal kBtuh	12	15	18	24
		Model Number	VCFB012H4	VCFB015H4	VCFB018H4	VCFB024H4
<sup>1</sup> Cooling Performance	Net Cooling Capacity - Btuh		12,000	15,000	18,000	24,000
	Total Unit Power Input (W)		18	38	42	72
	Rated current (A)		0.4	0.5	0.6	0.8
<sup>1</sup> Heating Performance	Net Heating Capacity - Btuh		13,500	17,000	21,000	27,000
	Total Unit Power Input (W)		17	37	40	71
	Rated current (A)		0.4	0.5	0.55	0.8
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A
Indoor Fan Motor	Input - W		24	47	53	80
	Speed (high / medium / low) - rpm		800 / 720 / 650	1050 / 990 / 880	1100 / 1020 / 950	1326 / 1242 / 1160
Indoor Coil	Number of rows		2	3	3	3
	Fin spacing - in.		1/16	1/16	1/16	1/16
	Coil length x height x width - in.		31-5/8 x 10 x 1-3/4	31-5/8 x 10 x 2-5/8	31-5/8 x 10 x 2-5/8	31-5/8 x 10 x 2-5/8
	Number of circuits		3	3	3	3
	Tube outside diameter and type - in.		1/4 - Rifled Copper Tubing			
	Fin type		Hydrophilic Coated Aluminum			
	Expansion device type		Electronic Expansion Valve			
	Design Pressure (high / low)- psig		650 / 250			
Indoor Coil Connections	Liquid pipe o.d. - in. (flare)		1/4	1/4	3/8	3/8
	Gas pipe o.d. - in. (flare)		1/2	1/2	5/8	5/8
	Drain connection o.d. - in.		(1) 5/8	(1) 5/8	(1) 5/8	(1) 5/8
Indoor Blower	Airflow (high / medium / low) - cfm		335 / 294 / 259	441 / 412 / 359	471 / 424 / 394	571 / 529 / 494
	Sound data (high / medium / low) dBA		47 / 45 / 41	47 / 46 / 42	49 / 46 / 44	53 / 52 / 50
Control Wiring (AWG)		2-Core Shielded, Stranded, Polarity Sensitive, 18 AWG				
Weight Data	Unit weight (net / shipping) - lbs.		57/71	62 / 75	62 / 75	62 / 75
<b>ELECTRICAL DATA</b>						
	Line voltage data - 60 Hz - 1ph		208/230V	208/230V	208/230V	208/230V
	<sup>2</sup> Maximum overcurrent protection (amps)		15	15	15	15
	<sup>3</sup> Minimum circuit ampacity		0.44	0.73	0.87	1.2
	Indoor Blower Motor - Full load amps		0.345	0.575	0.69	0.92

<sup>1</sup> Nominal capacities are based on the following conditions (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

- Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

<sup>2</sup> HACR type circuit breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**SPECIFICATIONS**

**030 - 048**

General Data		Nominal kBtuh	30	36	48
		Model Number	VCFB030H4	VCFB036H4	VCFB048H4
<sup>1</sup> Cooling Performance	Net Cooling Capacity - Btuh		30,000	36,000	48,000
	Total Unit Power Input (W)		90	112	187
	Rated current (A)		0.9	1.1	1.6
<sup>1</sup> Heating Performance	Net Heating Capacity - Btuh		34,000	40,000	54,000
	Total Unit Power Input (W)		88	112	192
	Rated current (A)		0.9	1.1	1.6
Refrigerant	Type		R-410A	R-410A	R-410A
Indoor Fan Motor	Input - W		107	(2) 67	(2) 115
	Speed (high / medium / low) - rpm		1326 / 1242 / 1160	1164 / 1058 / 990	1370 / 1058 / 990
Indoor Coil	Number of rows		3	3	3
	Fin spacing - in.		1/16	1/16	1/16
	Coil length x height x width - in.		43-1/8 x 10 x 2-5/8	53-1/2 x 10 x 2-5/8	53-1/2 x 10 x 2-5/8
	Number of circuits		5	7	7
	Tube outside diameter and type - in.		1/4 - Rifled Copper Tubing		
	Fin type		Hydrophilic Coated Aluminum		
	Expansion device type		Electronic Expansion Valve		
Indoor Coil Connections	Design Pressure (high / low)- psig		650 / 250		
	Liquid pipe o.d. - in. (flare)		3/8	3/8	3/8
	Gas pipe o.d. - in. (flare)		5/8	5/8	5/8
	Drain connection o.d. - in.		(1) 5/8	(1) 5/8	(1) 5/8
Indoor Blower	Airflow (high / medium / low) - cfm		729 / 676 / 624	1094 / 976 / 906	1353 / 1000 / 929
	Sound data (high / medium / low) dBA		55 / 53 / 51	54 / 50 / 49	58 / 51 / 49
Control Wiring (AWG)		2-Core Shielded, Stranded, Polarity Sensitive, 18 AWG			
Weight Data	Unit weight (net / shipping) - lbs.		77 / 90	106 / 128	106 / 128
<b>ELECTRICAL DATA</b>					
	Line voltage data - 60 Hz - 1ph		208/230V	208/230V	208/230V
	<sup>2</sup> Maximum overcurrent protection (amps)		15	15	15
	<sup>3</sup> Minimum circuit ampacity		1.4	1.8	2.8
	Indoor Blower Motor - Full load amps		1.1	(2) 0.69	(2) 1.1

<sup>1</sup> Nominal capacities are based on the following conditions (with 25 ft. of connecting refrigerant lines);

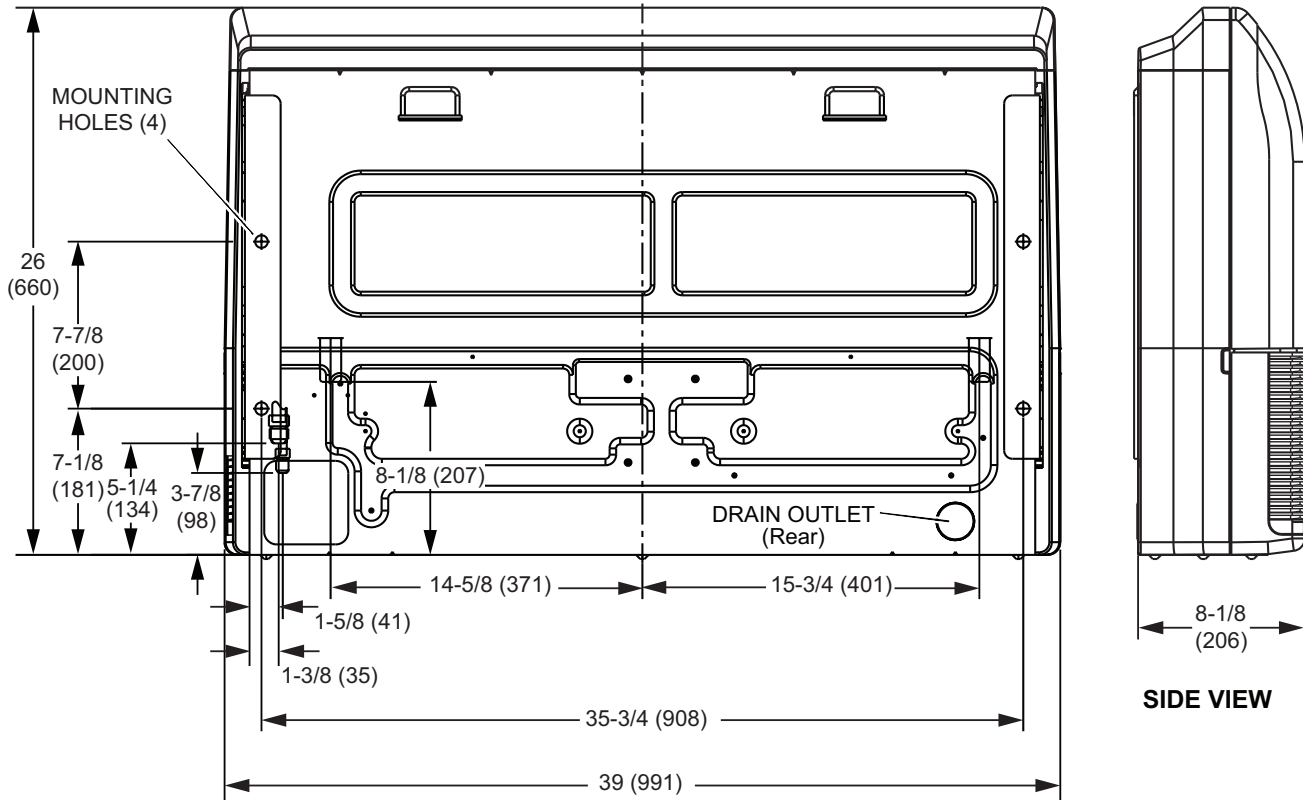
- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

<sup>2</sup> HACR type circuit breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

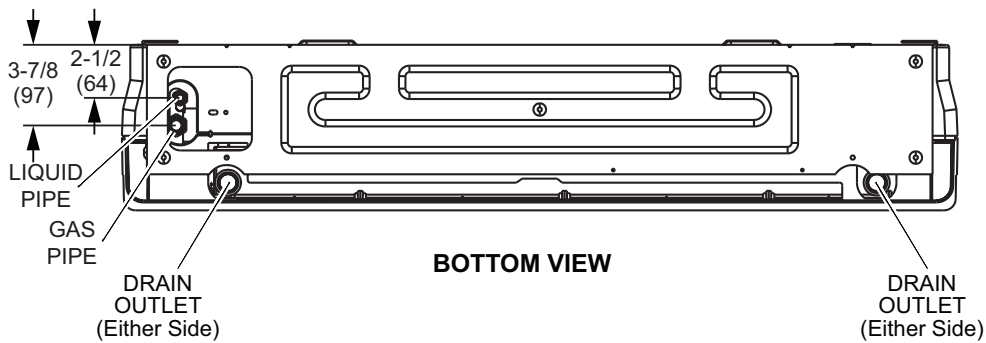
# DIMENSIONS

## VCFB012H4, VCFB015S4, VCFB018H4, VCFB024H4



REAR VIEW

SIDE VIEW

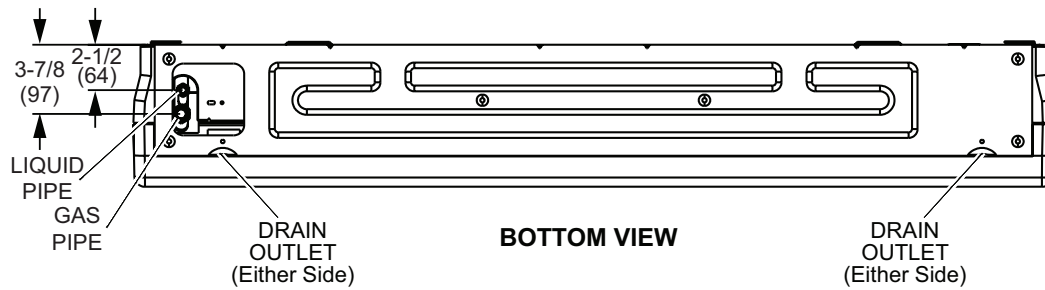
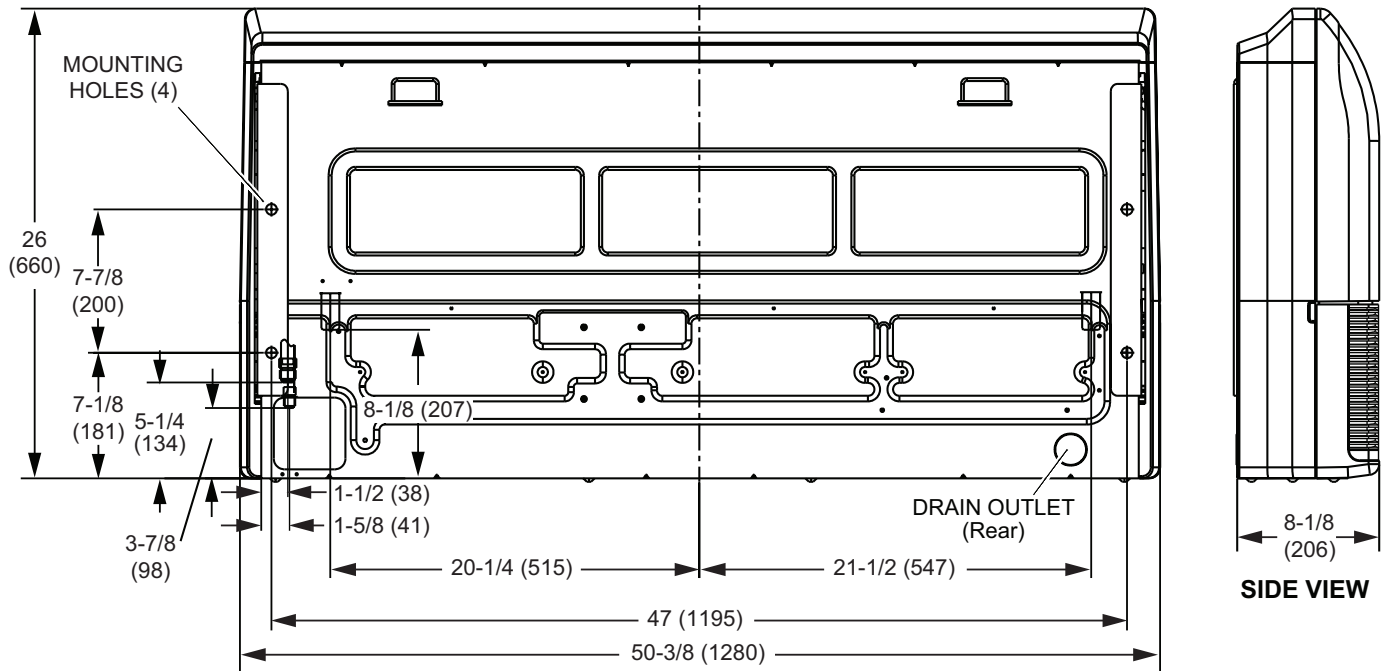


BOTTOM VIEW

DRAIN OUTLET (Either Side)

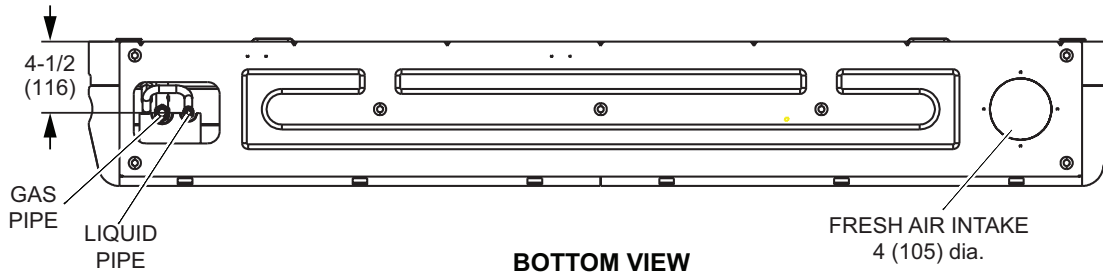
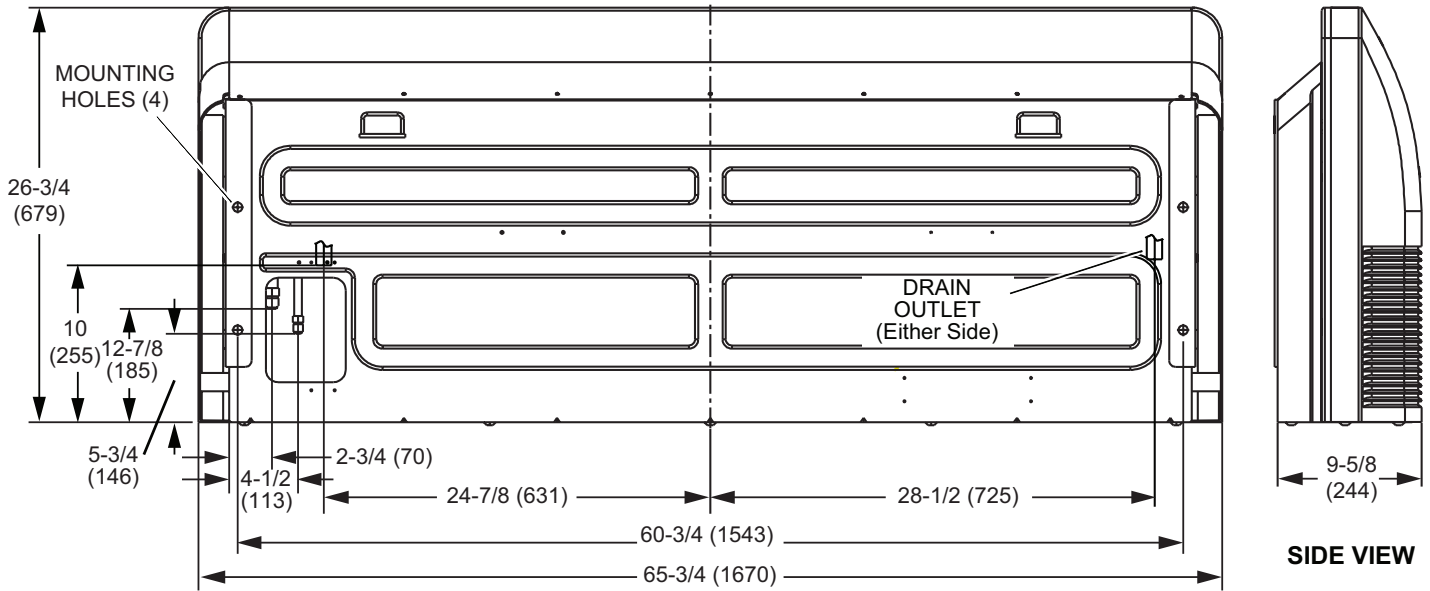
# DIMENSIONS

## VCFB030H4



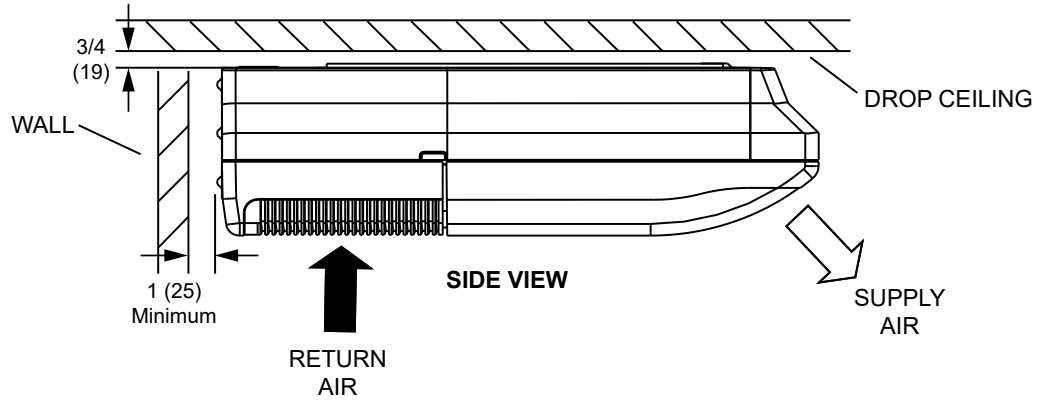
# DIMENSIONS

## VCFB036H4, VCFB048H4

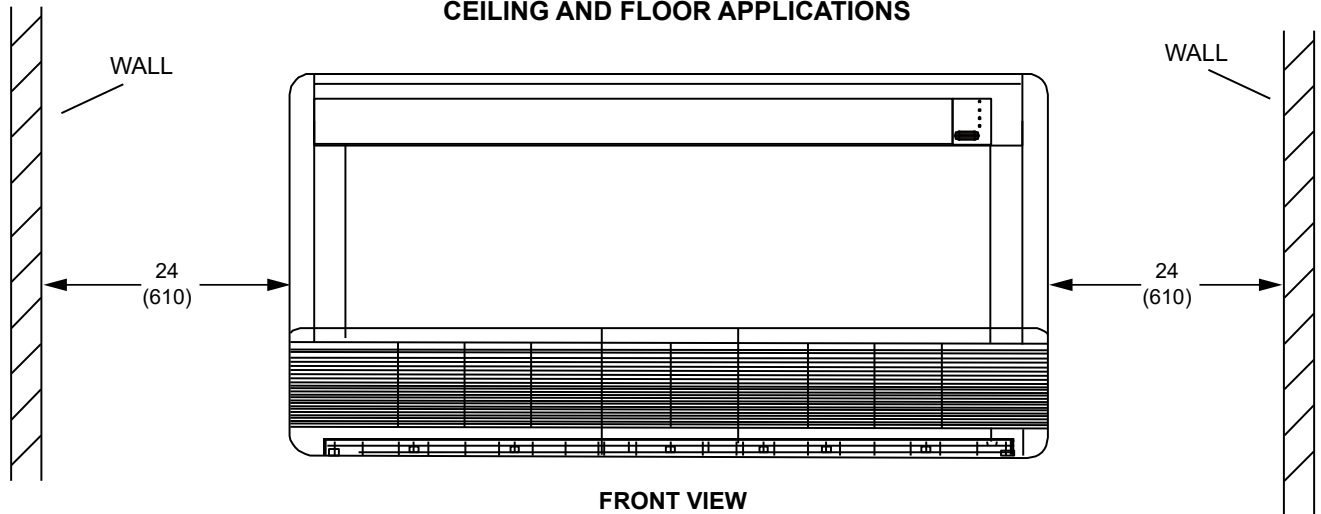


# INSTALLATION CLEARANCES

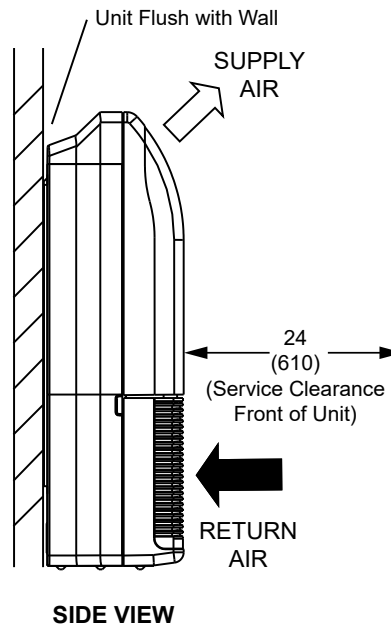
## CEILING APPLICATIONS



## CEILING AND FLOOR APPLICATIONS



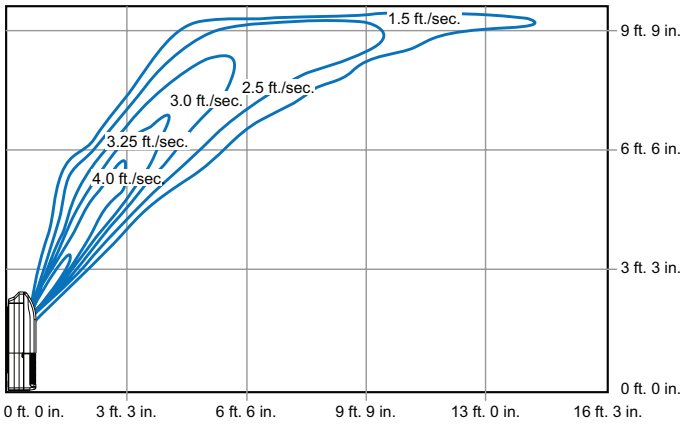
## FLOOR APPLICATIONS



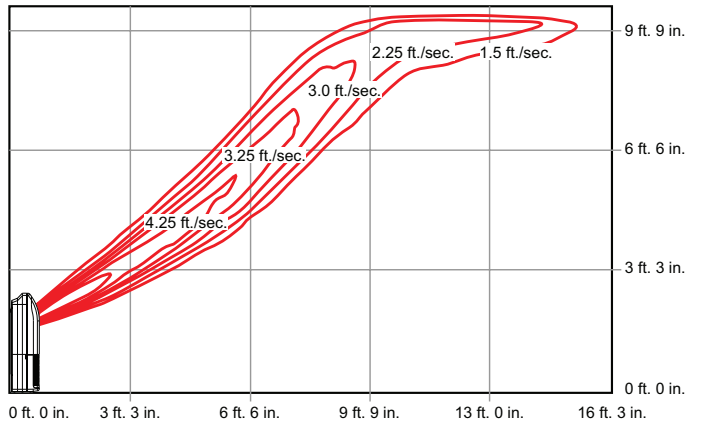
NOTE - Allow 1 inch (24 mm) minimum above finished floor.  
Also consider wall trim height to allow for proper clearance.

# AIR THROW DATA

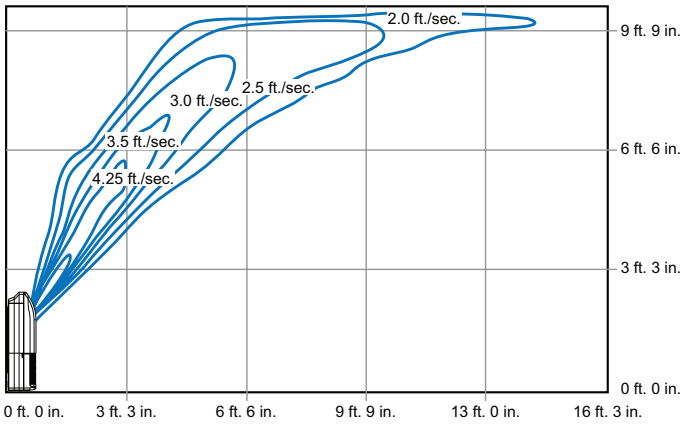
**VCFB012S4 - COOLING**



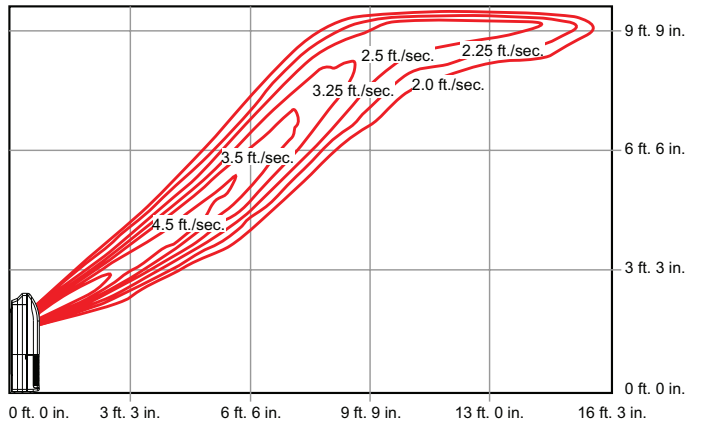
**VCFB012S4 - HEATING**



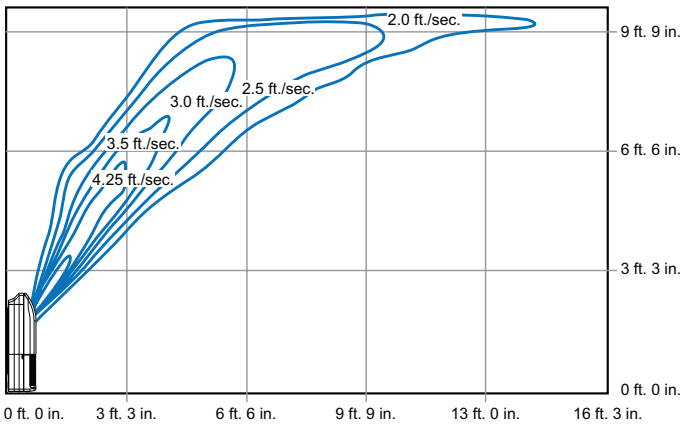
**VCFB015S4 - COOLING**



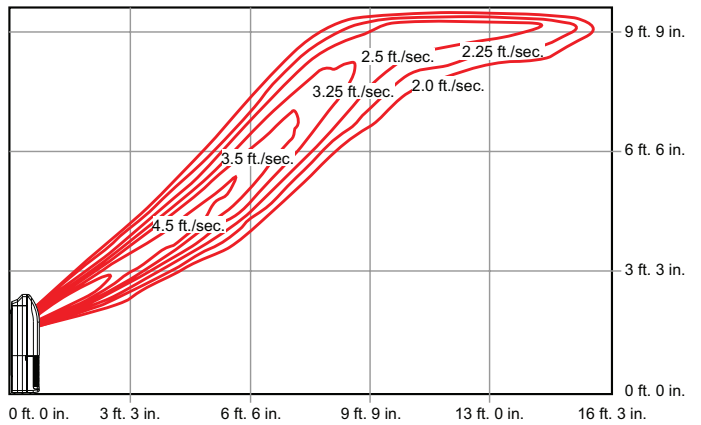
**VCFB015S4 - HEATING**



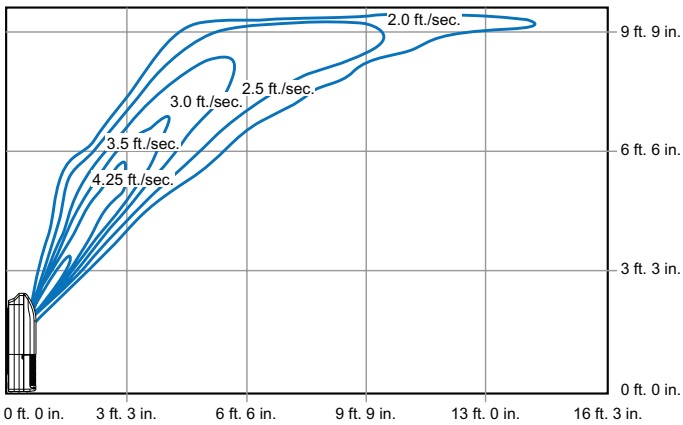
**VCFB018S4 - COOLING**



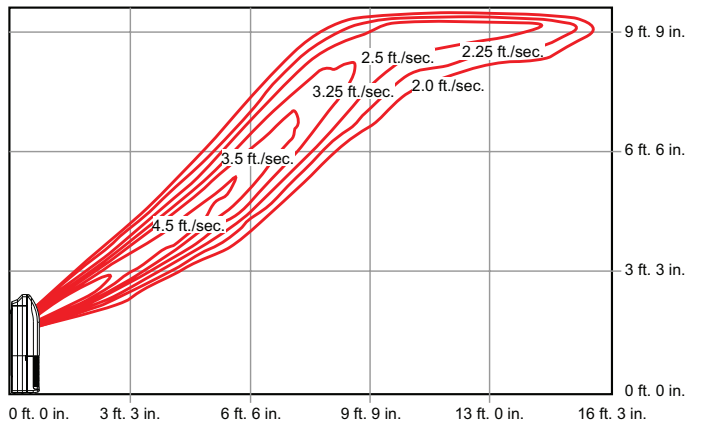
**VCFB018S4 - HEATING**



**VCFB024S4 - COOLING**



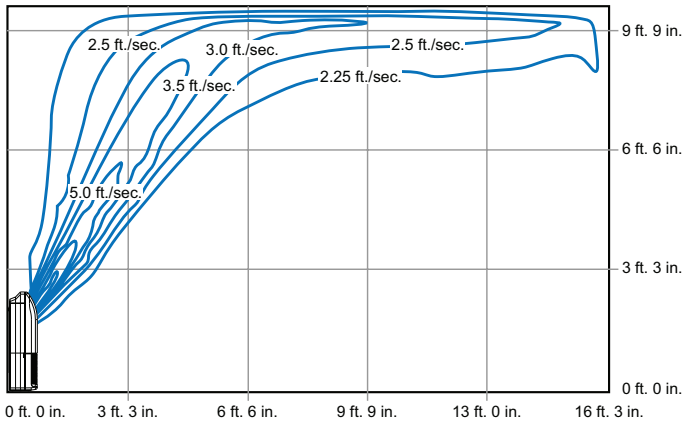
**VCFB024S4 - HEATING**



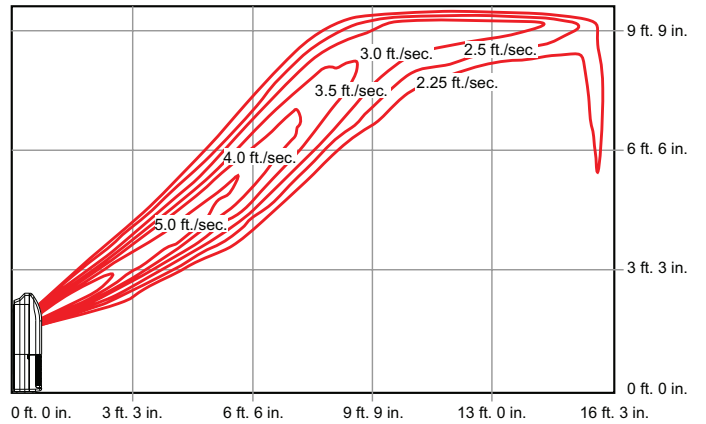


# AIR THROW DATA

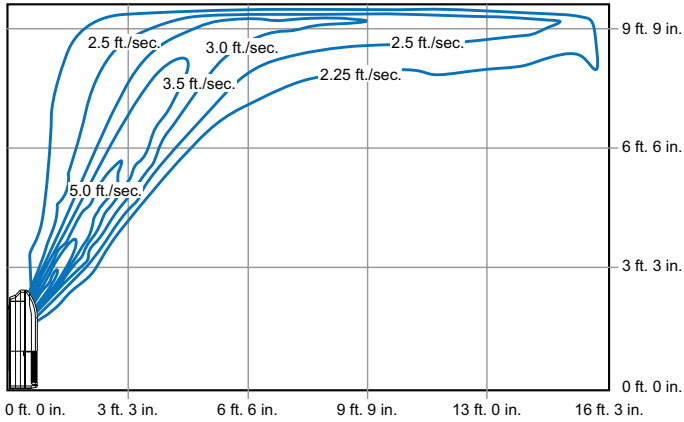
**VCFB030S4 - COOLING**



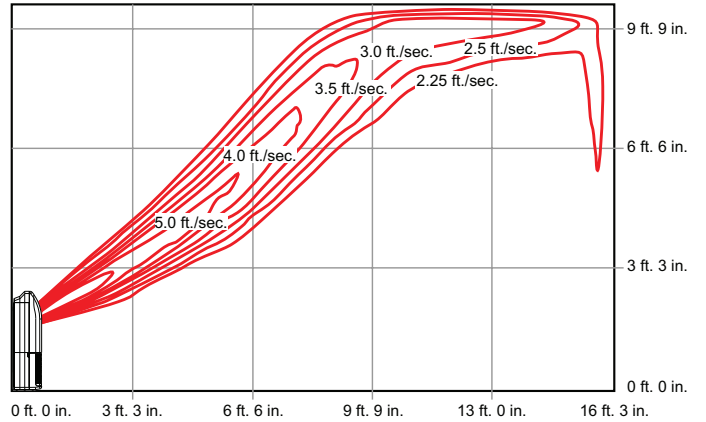
**VCFB030S4 - HEATING**



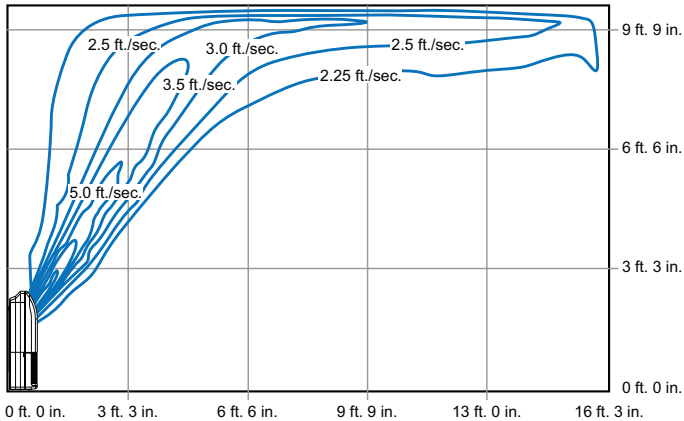
**VCFB036S4 - COOLING**



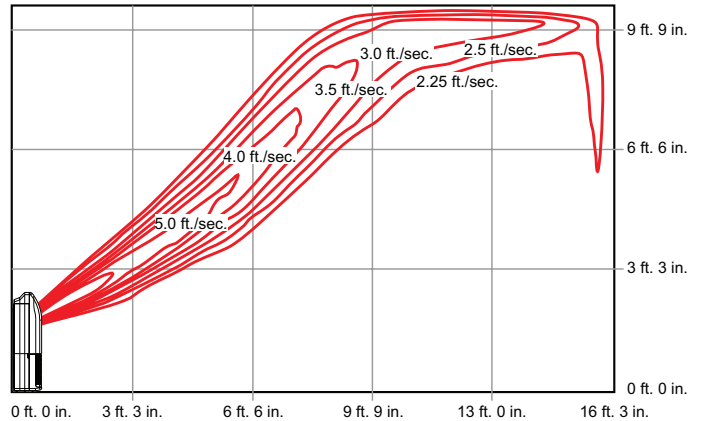
**VCFB036S4 - HEATING**



**VCFB048S4 - COOLING**

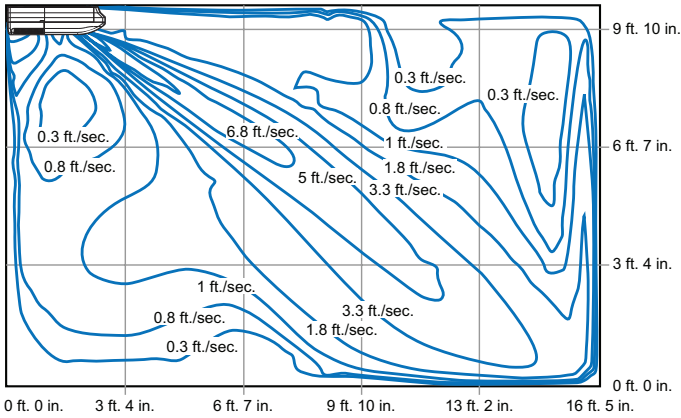


**VCFB048S4 - HEATING**

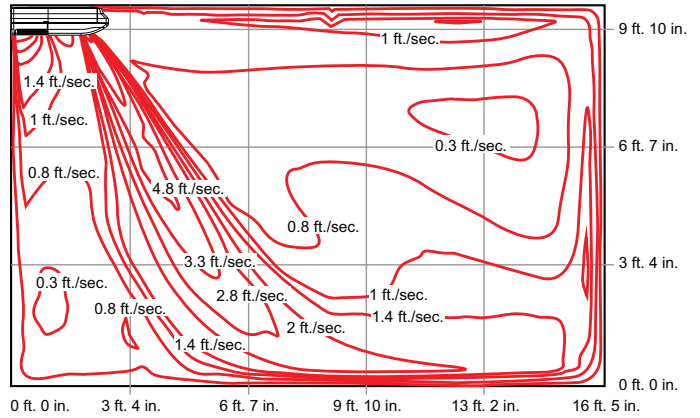


## AIR THROW DATA

VCFB - COOLING (ALL MODELS)



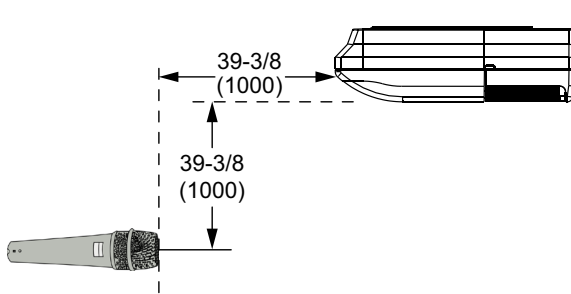
VCFB - HEATING (ALL MODELS)



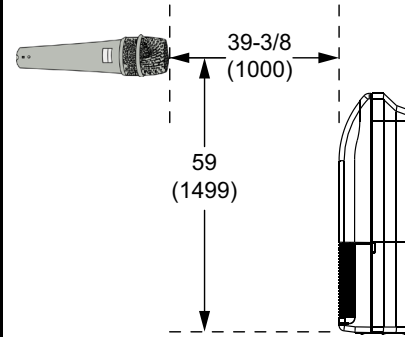
## SOUND DATA

### SOUND LEVELS

Ceiling-Mounted



Floor-Mounted



**NOTE:**

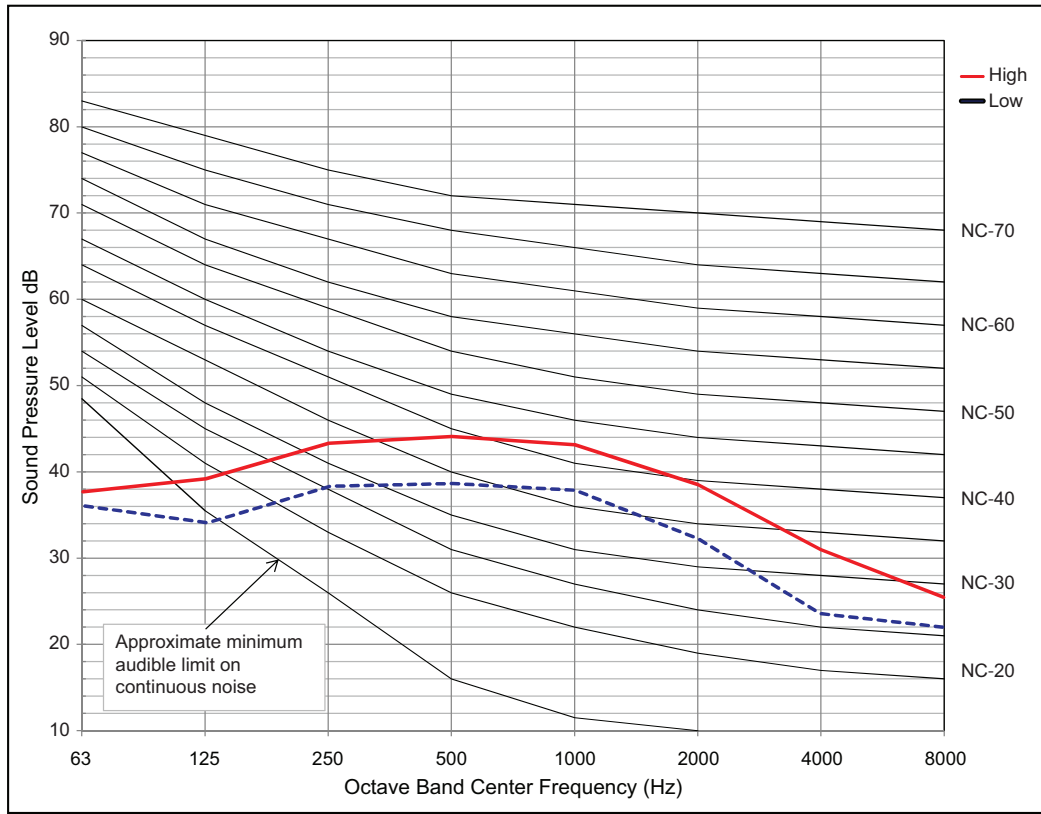
- Semi-anechoic chamber conversion value is measured at a point 39-3/8 inches (1000 mm) in front of the unit at a height of 59 inches (1499 mm).

Model No.	Sound Rating Number (dBA)		
	Low	Medium	High
VCFB012H4	41.2	45.2	46.9
VCFB015H4	42	45.7	47.4
VCFB018H4	44.1	46.3	48.7
VCFB024H4	49.5	51.6	53.2
VCFB030H4	51.1	52.8	54.6
VCFB036H4	48.7	50.4	54.2
VCFB048H4	48.6	50.8	57.5

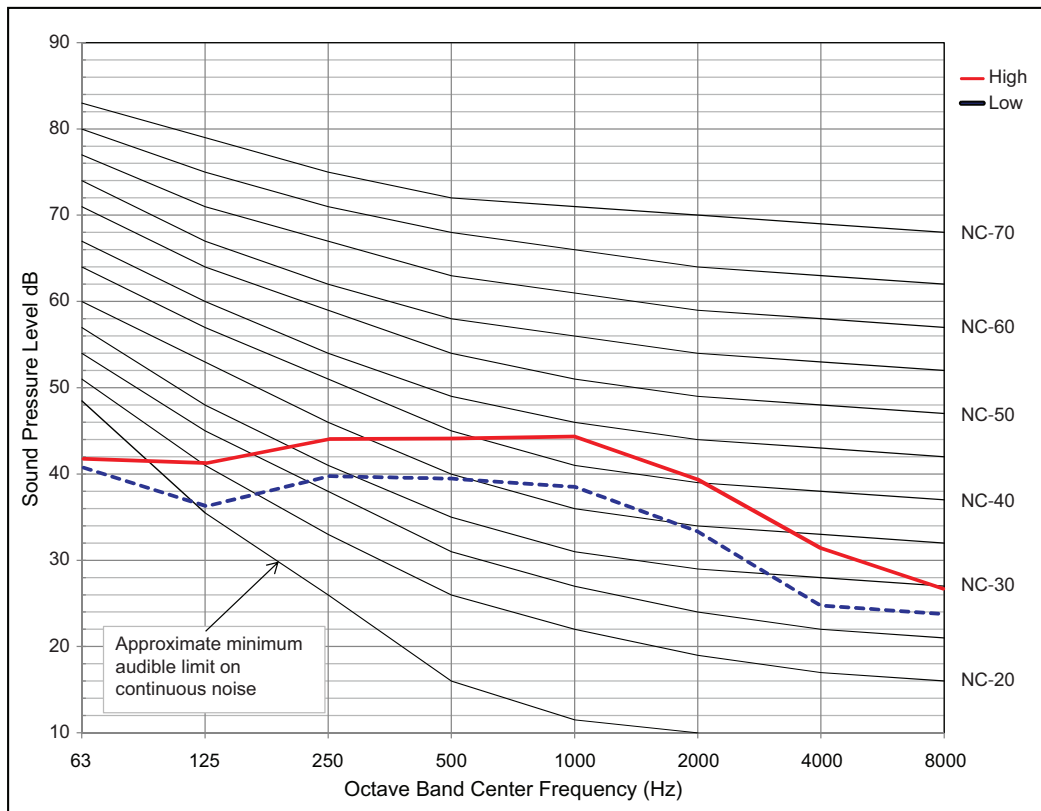
# SOUND DATA

## OCTAVE BAND LEVELS

VCFB012H4

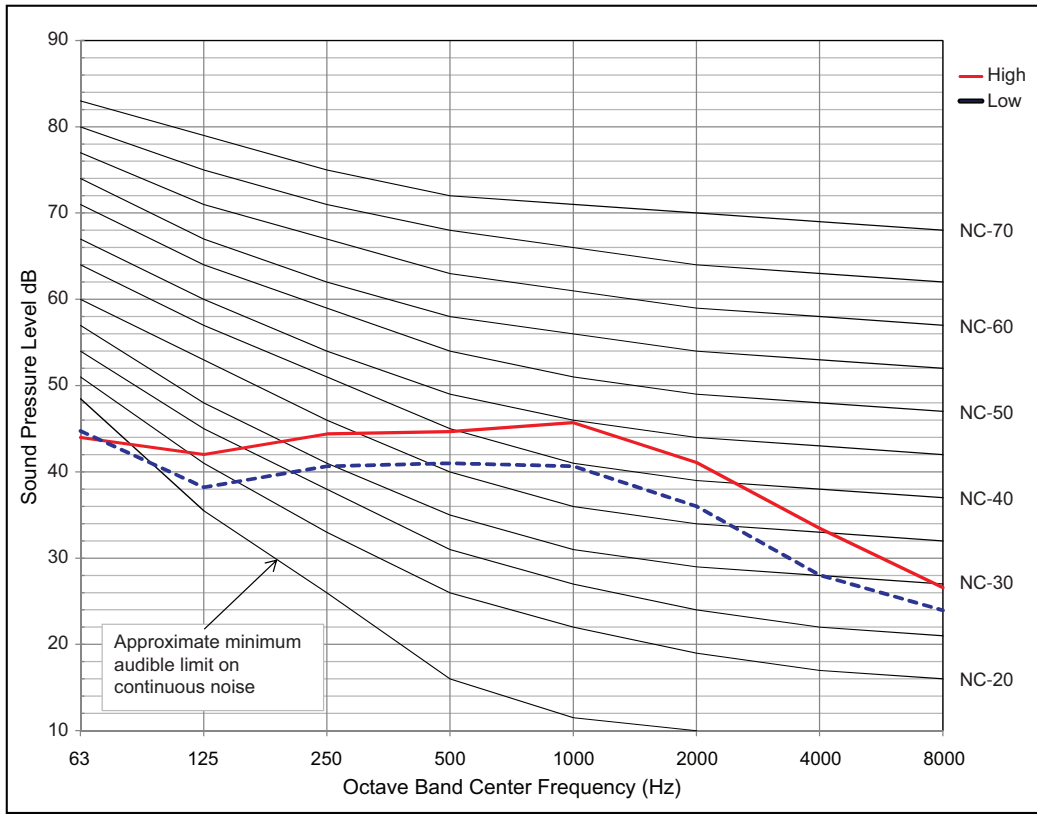


VCFB015H4

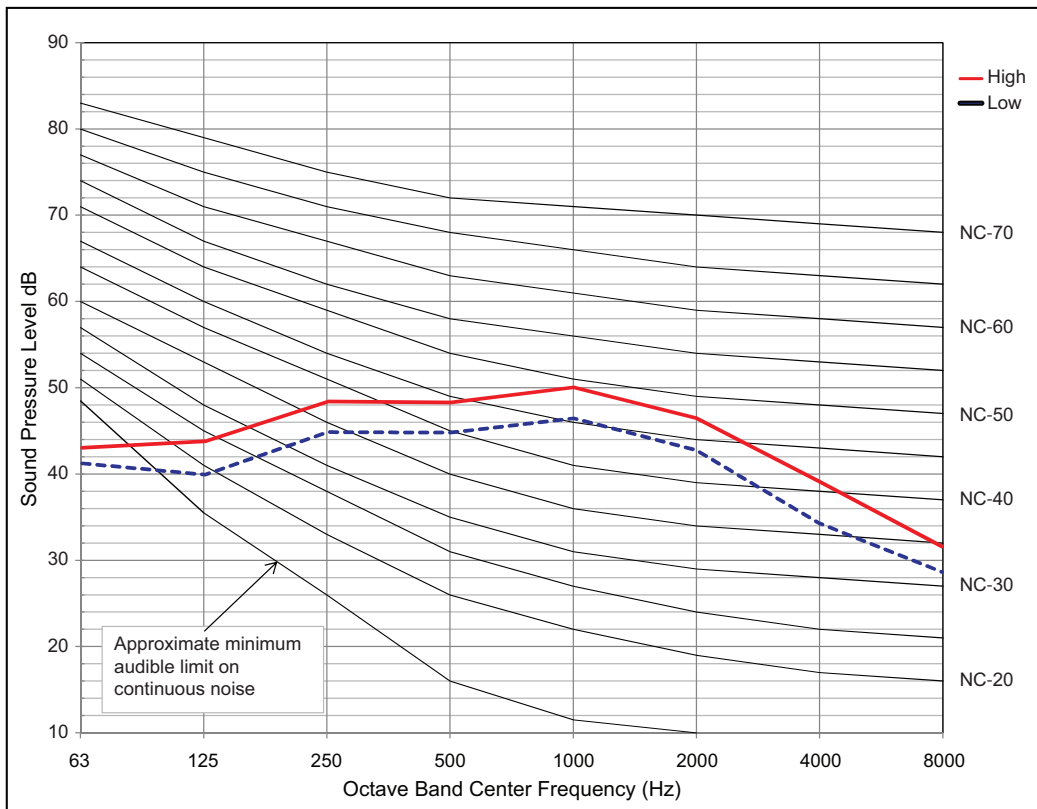


**OCTAVE BAND LEVELS**

**VCFB018H4**



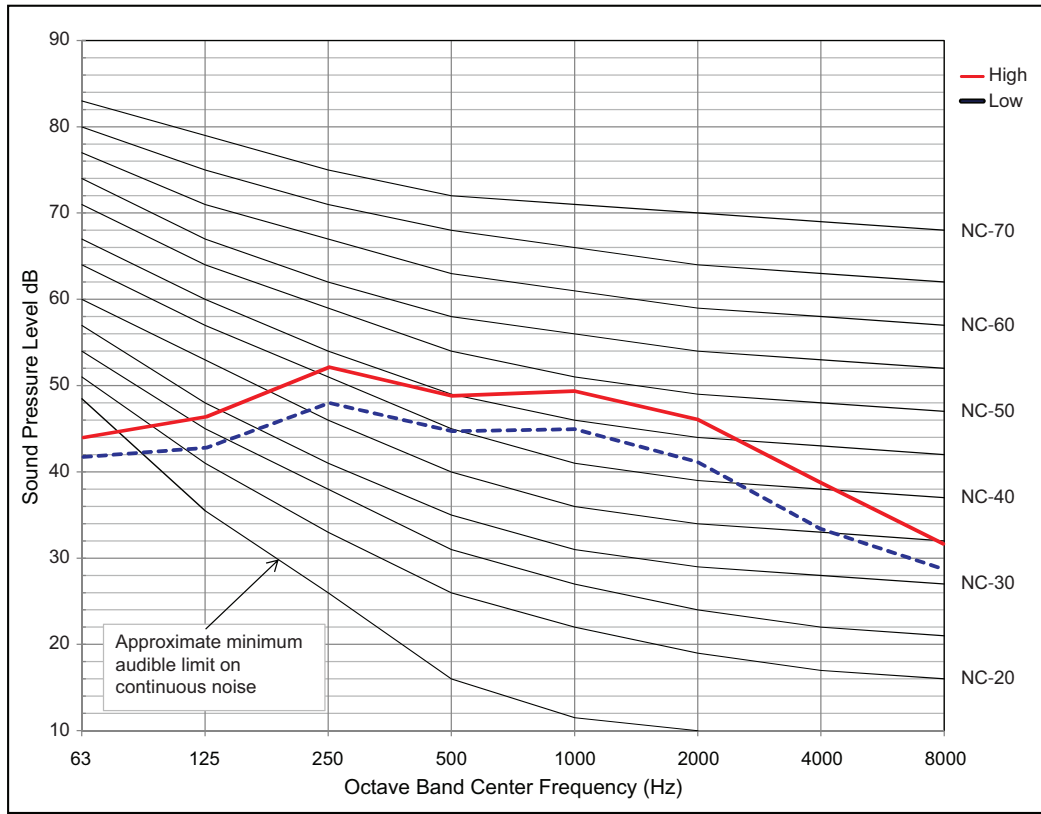
**VCFB024H4**



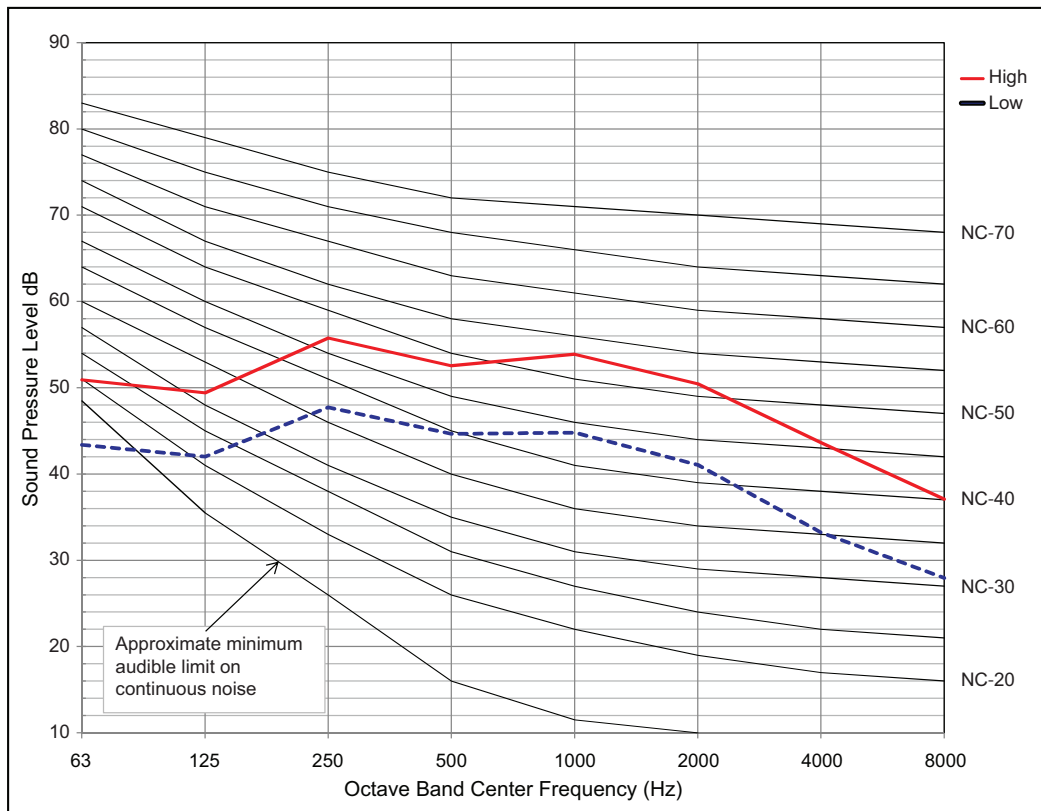
# SOUND DATA

## OCTAVE BAND LEVELS

VCFB036H4



VCFB048H4



## COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
012	-10	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.97	12.19
	5	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.97	12.19
	10	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.97	12.19
	15	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.91	12.15
	20	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.69	11.98
	25	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.45	11.80
	30	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.22	11.62
	35	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.99	11.45
	40	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.76	11.27
	45	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.53	11.10
	50	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.30	10.92
	55	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.96	10.56	14.07	10.74
	60	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.73	10.39	13.84	10.57
	65	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.50	10.22	13.61	10.39
	70	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.27	10.04	13.38	10.22
	75	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.04	9.87	13.15	10.04
	80	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	12.81	9.69	12.92	9.87
	85	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	12.58	9.52	12.69	9.69
	90	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	12.35	9.34	12.46	9.51
	95	7.04	5.07	8.53	6.29	10.02	7.55	<b>12.00</b>	<b>9.13</b>	12.12	9.17	12.23	9.34
	100	7.04	5.07	8.53	6.29	10.02	7.55	11.77	8.96	11.89	9.00	11.99	9.16
105	7.04	5.07	8.53	6.29	10.02	7.55	11.54	8.78	11.62	8.79	11.63	8.88	
110	7.04	5.07	8.53	6.29	10.02	7.55	10.85	8.26	11.12	8.41	11.27	8.61	
115	7.04	5.07	8.16	6.02	8.36	6.30	8.63	6.57	8.89	6.73	9.16	6.99	
118	6.25	4.51	6.82	5.03	7.02	5.29	7.29	5.55	7.56	5.72	7.82	5.97	
125	3.57	2.57	3.77	2.78	3.97	2.99	4.24	3.22	4.50	3.41	4.77	3.64	
015	-10	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.96	15.24
	5	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.96	15.24
	10	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.96	15.24
	15	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.89	15.18
	20	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.61	14.97
	25	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.32	14.75
	30	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.03	14.53
	35	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	18.74	14.31
	40	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	18.45	14.09
	45	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	18.17	13.87
	50	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	17.88	13.65
	55	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.45	13.20	17.59	13.43
	60	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.16	12.99	17.30	13.21
	65	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.87	12.77	17.02	12.99
	70	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.58	12.55	16.73	12.77
	75	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.30	12.33	16.44	12.55
	80	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.01	12.12	16.15	12.33
	85	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	15.72	11.90	15.86	12.11
	90	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	15.43	11.68	15.58	11.89
	95	8.80	6.34	10.66	7.87	12.52	9.44	<b>15.00</b>	<b>11.42</b>	15.14	11.46	15.29	11.67
	100	8.80	6.34	10.66	7.87	12.52	9.44	14.71	11.20	14.86	11.24	14.99	11.45
105	8.80	6.34	10.66	7.87	12.52	9.44	14.42	10.98	14.52	10.99	14.54	11.10	
110	8.80	6.34	10.66	7.87	12.52	9.44	13.56	10.32	13.90	10.52	14.09	10.76	
115	8.80	6.34	10.20	7.53	10.45	7.88	10.78	8.21	11.12	8.41	11.45	8.74	
118	7.82	5.63	8.53	6.29	8.78	6.62	9.11	6.93	9.44	7.15	9.78	7.46	
125	4.46	3.22	4.71	3.48	4.96	3.74	5.30	4.03	5.63	4.26	5.96	4.55	

NOTE - MBH = 1000 BTUs per hour.

# COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
018	-10	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	23.95	18.29
	5	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	23.95	18.29
	10	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	23.95	18.29
	15	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	23.87	18.23
	20	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	23.53	17.96
	25	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	23.18	17.70
	30	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	22.84	17.43
	35	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	22.49	17.17
	40	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	22.14	16.91
	45	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	21.80	16.64
	50	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.98	15.88	21.45	16.38
	55	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.94	15.85	21.11	16.12
	60	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.59	15.58	20.76	15.85
	65	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	20.25	15.32	20.42	15.59
	70	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	19.90	15.06	20.07	15.33
	75	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	19.55	14.80	19.73	15.06
	80	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	19.21	14.54	19.38	14.80
	85	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	18.86	14.28	19.04	14.53
	90	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	18.52	14.02	18.69	14.27
	95	10.56	7.61	12.79	9.44	15.02	11.33	18.00	13.70	18.17	13.75	18.35	14.01
100	10.56	7.61	12.79	9.44	15.02	11.33	17.65	13.44	17.83	13.49	17.99	13.73	
105	10.56	7.61	12.79	9.44	15.02	11.33	17.31	13.18	17.43	13.19	17.45	13.32	
110	10.56	7.61	12.79	9.44	15.02	11.33	16.27	12.39	16.67	12.62	16.91	12.91	
115	10.56	7.61	12.24	9.03	12.54	9.45	12.94	9.85	13.34	10.10	13.74	10.49	
118	9.38	6.76	10.23	7.55	10.53	7.94	10.93	8.32	11.33	8.58	11.73	8.96	
125	5.35	3.86	5.65	4.17	5.95	4.49	6.35	4.84	6.75	5.11	7.15	5.46	
024	-10	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.93	24.38
	5	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.93	24.38
	10	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.93	24.38
	15	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.82	24.30
	20	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.37	23.95
	25	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	30.91	23.60
	30	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	30.45	23.25
	35	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	29.99	22.89
	40	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	29.53	22.54
	45	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	29.07	22.19
	50	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	28.61	21.84
	55	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.91	21.13	28.15	21.49
	60	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.45	20.78	27.68	21.14
	65	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	26.99	20.43	27.22	20.79
	70	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	26.53	20.08	26.76	20.43
	75	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	26.07	19.73	26.30	20.08
	80	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	25.61	19.39	25.84	19.73
	85	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	25.15	19.04	25.38	19.38
	90	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	24.69	18.69	24.92	19.03
	95	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	24.23	18.34	24.46	18.68
100	14.08	10.15	17.06	12.59	20.03	15.10	23.54	17.92	23.77	17.99	23.99	18.31	
105	14.08	10.15	17.06	12.59	20.03	15.10	23.08	17.57	23.23	17.59	23.27	17.76	
110	14.08	10.15	17.06	12.59	20.03	15.10	21.70	16.52	22.23	16.83	22.55	17.21	
115	14.08	10.15	16.32	12.04	16.72	12.61	17.25	13.13	17.79	13.46	18.32	13.99	
118	12.51	9.01	13.64	10.07	14.04	10.59	14.58	11.10	15.11	11.44	15.64	11.94	
125	7.14	5.14	7.54	5.56	7.94	5.98	8.47	6.45	9.01	6.82	9.54	7.28	

NOTE - MBH = 1000 BTUs per hour.

## COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
030	-10	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.92	30.48
	5	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.92	30.48
	10	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.92	30.48
	15	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.78	30.37
	20	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.22	29.94
	25	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	38.63	29.50
	30	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	38.06	29.06
	35	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	37.48	28.62
	40	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	36.91	28.18
	45	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	36.33	27.74
	50	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	35.76	27.30
	55	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.89	26.41	35.18	26.86
	60	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.32	25.97	34.61	26.42
	65	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	33.74	25.54	34.03	25.98
	70	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	33.17	25.10	33.45	25.54
	75	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	32.59	24.67	32.88	25.10
	80	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	32.02	24.23	32.30	24.66
	85	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	31.44	23.80	31.73	24.22
	90	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	30.86	23.36	31.15	23.78
	95	17.60	12.69	21.32	15.73	25.04	18.88	<b>30.00</b>	<b>22.83</b>	30.29	22.92	30.58	23.35
100	17.60	12.69	21.32	15.73	25.04	18.88	29.42	22.40	29.71	22.49	29.98	22.89	
105	17.60	12.69	21.32	15.73	25.04	18.88	28.85	21.96	29.04	21.98	29.08	22.20	
110	17.60	12.69	21.32	15.73	25.04	18.88	27.12	20.64	27.79	21.03	28.18	21.52	
115	17.60	12.69	20.40	15.05	20.90	15.76	21.57	16.42	22.23	16.83	22.90	17.48	
118	15.64	11.27	17.05	12.58	17.55	13.23	18.22	13.87	18.89	14.30	19.55	14.93	
125	8.92	6.43	9.42	6.95	9.92	7.48	10.59	8.06	11.26	8.52	11.92	9.10	
036	-10	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	50.56	38.09
	5	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	50.56	38.09
	10	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	50.56	38.09
	15	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	50.40	37.96
	20	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	49.67	37.41
	25	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	48.94	36.86
	30	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	48.21	36.31
	35	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	47.48	35.76
	40	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	46.75	35.21
	45	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	46.02	34.67
	50	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.28	33.06	45.29	34.12
	55	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	44.20	33.00	44.56	33.57
	60	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	43.47	32.46	43.83	33.02
	65	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	42.74	31.91	43.11	32.47
	70	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	42.01	31.37	42.38	31.92
	75	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	41.28	30.82	41.65	31.37
	80	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	40.55	30.28	40.92	30.82
	85	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	39.82	29.73	40.19	30.27
	90	22.30	15.84	27.01	19.65	31.72	23.59	38.00	28.53	39.09	29.19	39.46	29.72
	95	22.30	15.84	27.01	19.65	31.72	23.59	<b>38.00</b>	<b>28.53</b>	38.37	28.64	38.73	29.17
100	22.30	15.84	27.01	19.65	31.72	23.59	37.27	27.99	37.64	28.10	37.98	28.61	
105	22.30	15.84	27.01	19.65	31.72	23.59	36.54	27.44	36.79	27.47	36.84	27.75	
110	22.30	15.84	27.01	19.65	31.72	23.59	34.36	25.80	35.20	26.28	35.70	26.89	
115	22.30	15.84	25.84	18.80	26.47	19.69	27.32	20.51	28.16	21.03	29.01	21.85	
118	18.14	12.89	18.78	13.66	19.41	14.43	20.25	15.21	21.10	15.75	21.94	16.53	
125	11.30	8.03	11.94	8.68	12.57	9.35	13.41	10.07	14.26	10.65	15.10	11.38	

NOTE - MBH = 1000 BTUs per hour.



## COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
048	-10	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	63.87	48.76
	5	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	63.87	48.76
	10	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	63.87	48.76
	15	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	63.64	48.59
	20	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	62.75	47.91
	25	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	61.82	47.20
	30	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	60.89	46.49
	35	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	59.97	45.79
	40	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	59.05	45.09
	45	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	58.13	44.38
	50	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	57.21	43.68
	55	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.83	42.26	56.29	42.98
	60	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	54.91	41.56	55.37	42.27
	65	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	53.99	40.86	54.45	41.57
	70	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	53.07	40.16	53.53	40.87
	75	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	52.15	39.47	52.61	40.17
	80	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	51.22	38.77	51.69	39.46
	85	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	50.30	38.07	50.77	38.76
	90	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	49.38	37.38	49.84	38.06
	95	28.17	20.30	34.12	25.17	40.07	30.21	<b>48.00</b>	<b>36.54</b>	48.46	36.68	48.92	37.35
100	28.17	20.30	34.12	25.17	40.07	30.21	47.08	35.83	47.54	35.98	47.97	36.63	
105	28.17	20.30	34.12	25.17	40.07	30.21	46.16	35.13	46.47	35.17	46.53	35.53	
110	28.17	20.30	34.12	25.17	40.07	30.21	43.40	33.03	44.46	33.65	45.09	34.43	
115	28.17	20.30	32.64	24.08	33.44	25.21	34.51	26.27	35.58	26.93	36.64	27.98	
118	25.02	18.03	27.29	20.13	28.09	21.17	29.15	22.19	30.22	22.87	31.29	23.89	
125	14.28	10.29	15.08	11.12	15.88	11.97	16.94	12.90	18.01	13.63	19.08	14.57	

NOTE - MBH = 1000 BTUs per hour.

## HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
			MBH	MBH	MBH	MBH	MBH	MBH
012	-13	-14	5.34	5.07	4.79	4.51	4.24	4.05
	-8	-9	6.14	5.86	5.59	5.31	5.03	4.85
	-3	-4	6.94	6.66	6.38	6.11	5.83	5.65
	2	1	7.74	7.46	7.18	6.91	6.63	6.44
	7	6	8.53	8.26	7.98	7.70	7.43	7.24
	12	10	9.17	8.89	8.62	8.34	8.06	7.88
	17	15	9.97	9.69	9.41	9.14	8.86	8.68
	22	20	10.77	10.49	10.21	9.94	9.66	9.47
	27	24	11.40	11.13	10.85	10.57	10.30	10.11
	32	29	12.20	11.92	11.65	11.37	11.09	10.91
	37	34	13.00	12.72	12.44	12.17	11.89	11.71
	42	38	13.64	13.36	13.08	12.81	12.53	12.02
	47	43	14.43	14.16	13.88	<b>13.60</b>	12.65	12.02
	52	47	15.07	14.79	14.52	13.60	12.65	12.02
	57	52	15.87	15.50	14.55	13.60	12.65	12.02
	62	56	16.45	15.50	14.55	13.60	12.65	12.02
	67	61	16.45	15.50	14.55	13.60	12.65	12.02
	72	66	16.45	15.50	14.55	13.60	12.65	12.02
75	69	16.45	15.50	14.55	13.60	12.65	12.02	
80	74	16.45	15.50	14.55	13.60	12.65	12.02	
015	-13	-14	7.68	7.33	6.99	6.64	6.29	6.06
	-8	-9	8.59	8.24	7.90	7.55	7.20	6.97
	-3	-4	9.50	9.15	8.80	8.46	8.11	7.88
	2	1	10.41	10.06	9.71	9.37	9.02	8.79
	7	6	11.31	10.97	10.62	10.28	9.93	9.70
	12	10	12.04	11.70	11.35	11.00	10.66	10.43
	17	15	12.95	12.61	12.26	11.91	11.57	11.34
	22	20	13.86	13.51	13.17	12.82	12.48	12.25
	27	24	14.59	14.24	13.90	13.55	13.20	12.97
	32	29	15.50	15.15	14.80	14.46	14.11	13.88
	37	34	16.41	16.06	15.71	15.37	15.02	14.79
	42	38	17.13	16.79	16.44	16.09	15.75	15.02
	47	43	18.04	17.70	17.35	<b>17.00</b>	15.81	15.02
	52	47	18.77	18.42	18.08	17.00	15.81	15.02
	57	52	19.68	19.33	18.19	17.00	15.81	15.02
	62	56	20.40	19.37	18.19	17.00	15.81	15.02
	67	61	20.56	19.37	18.19	17.00	15.81	15.02
	72	66	20.56	19.37	18.19	17.00	15.81	15.02
75	69	20.56	19.37	18.19	17.00	15.81	15.02	
80	74	20.56	19.37	18.19	17.00	15.81	15.02	

NOTE - MBH = 1000 BTUs per hour.

## HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
		MBH	MBH	MBH	MBH	MBH	MBH	
018	-13	-14	9.49	9.06	8.63	8.20	7.78	7.49
	-8	-9	10.61	10.18	9.75	9.33	8.90	8.61
	-3	-4	11.73	11.30	10.88	10.45	10.02	9.74
	2	1	12.85	12.43	12.00	11.57	11.14	10.86
	7	6	13.98	13.55	13.12	12.70	12.27	11.98
	12	10	14.88	14.45	14.02	13.59	13.17	12.88
	17	15	16.00	15.57	15.14	14.72	14.29	14.00
	22	20	17.12	16.69	16.27	15.84	15.41	15.13
	27	24	18.02	17.59	17.16	16.74	16.31	16.03
	32	29	19.14	18.72	18.29	17.86	17.43	17.15
	37	34	20.27	19.84	19.41	18.98	18.56	18.27
	42	38	21.16	20.74	20.31	19.88	19.45	18.56
	47	43	22.29	21.86	21.43	<b>21.00</b>	19.53	18.56
	52	47	23.18	22.76	22.33	21.00	19.53	18.56
	57	52	24.31	23.88	22.47	21.00	19.53	18.56
	62	56	25.21	23.93	22.47	21.00	19.53	18.56
	67	61	25.40	23.93	22.47	21.00	19.53	18.56
	72	66	25.40	23.93	22.47	21.00	19.53	18.56
75	69	25.40	23.93	22.47	21.00	19.53	18.56	
80	74	25.40	23.93	22.47	21.00	19.53	18.56	
024	-13	-14	12.95	12.40	11.85	11.30	10.75	10.38
	-8	-9	14.23	13.69	13.14	12.59	12.04	11.67
	-3	-4	15.54	14.99	14.44	13.89	13.34	12.98
	2	1	16.87	16.32	15.77	15.22	14.67	14.30
	7	6	18.21	17.66	17.11	16.56	16.01	15.65
	12	10	19.30	18.75	18.20	17.65	17.10	16.73
	17	15	20.67	20.12	19.57	19.02	18.47	18.11
	22	20	22.06	21.51	20.97	20.42	19.87	19.50
	27	24	23.19	22.64	22.09	21.54	20.99	20.63
	32	29	24.61	24.07	23.52	22.97	22.42	22.05
	37	34	26.06	25.51	24.96	24.41	23.86	23.49
	42	38	27.22	26.67	26.12	25.57	25.03	23.86
	47	43	28.70	28.15	27.60	<b>27.00</b>	25.12	23.86
	52	47	29.89	29.34	28.79	27.00	25.12	23.86
	57	52	31.39	30.77	28.88	27.00	25.12	23.86
	62	56	32.61	30.77	28.88	27.00	25.12	23.86
	67	61	32.65	30.77	28.88	27.00	25.12	23.86
	72	66	32.65	30.77	28.88	27.00	25.12	23.86
75	69	32.65	30.77	28.88	27.00	25.12	23.86	
80	74	32.65	30.77	28.88	27.00	25.12	23.86	

NOTE - MBH = 1000 BTUs per hour.

# HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
			MBH	MBH	MBH	MBH	MBH	MBH
030	-13	-14	13.82	13.12	12.43	11.74	11.05	10.59
	-8	-9	15.77	15.08	14.39	13.69	13.00	12.54
	-3	-4	17.72	17.03	16.34	15.65	14.95	14.49
	2	1	19.68	18.98	18.29	17.60	16.91	16.45
	7	6	21.63	20.94	20.25	19.55	18.86	18.40
	12	10	23.19	22.50	21.81	21.12	20.42	19.96
	17	15	25.14	24.45	23.76	23.07	22.38	21.92
	22	20	27.10	26.41	25.71	25.02	24.33	23.87
	27	24	28.66	27.97	27.28	26.59	25.89	25.43
	32	29	30.61	29.92	29.23	28.54	27.85	27.39
	37	34	32.57	31.88	31.18	30.49	29.80	29.34
	42	38	34.13	33.44	32.75	32.05	31.36	30.05
	47	43	36.08	35.39	34.70	<b>34.00</b>	31.63	30.05
	52	47	37.65	36.95	36.26	34.00	31.63	30.05
	57	52	39.60	38.74	36.37	34.00	31.63	30.05
	62	56	41.12	38.74	36.37	34.00	31.63	30.05
	67	61	41.12	38.74	36.37	34.00	31.63	30.05
	72	66	41.12	38.74	36.37	34.00	31.63	30.05
75	69	41.12	38.74	36.37	34.00	31.63	30.05	
80	74	41.12	38.74	36.37	34.00	31.63	30.05	
036	-13	-14	16.50	15.65	14.79	13.94	13.08	12.51
	-8	-9	18.96	18.11	17.25	16.40	15.54	14.98
	-3	-4	21.43	20.57	19.72	18.86	18.01	17.44
	2	1	23.89	23.03	22.18	21.32	20.47	19.90
	7	6	26.35	25.50	24.64	23.79	22.93	22.36
	12	10	28.32	27.47	26.61	25.76	24.90	24.33
	17	15	30.78	29.93	29.07	28.22	27.36	26.80
	22	20	33.25	32.39	31.54	30.68	29.83	29.26
	27	24	35.22	34.36	33.51	32.65	31.80	31.23
	32	29	37.68	36.82	35.97	35.11	34.26	33.69
	37	34	40.14	39.29	38.43	37.58	36.72	36.15
	42	38	42.11	41.26	40.40	39.55	38.69	37.12
	47	43	44.57	43.72	42.86	<b>42.00</b>	39.07	37.12
	52	47	46.54	45.69	44.83	42.00	39.07	37.12
	57	52	49.01	47.86	44.93	42.00	39.07	37.12
	62	56	50.79	47.86	44.93	42.00	39.07	37.12
	67	61	50.79	47.86	44.93	42.00	39.07	37.12
	72	66	50.79	47.86	44.93	42.00	39.07	37.12
75	69	50.79	47.86	44.93	42.00	39.07	37.12	
80	74	50.79	47.86	44.93	42.00	39.07	37.12	

NOTE - MBH = 1000 BTUs per hour.

## HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
048	-13	-14	24.61	23.51	22.41	21.31	20.21	19.48
	-8	-9	27.47	26.38	25.28	24.18	23.08	22.35
	-3	-4	30.34	29.24	28.15	27.05	25.95	25.21
	2	1	33.21	32.11	31.01	29.92	28.82	28.08
	7	6	36.08	34.98	33.88	32.78	31.68	30.95
	12	10	38.38	37.28	36.18	35.08	33.98	33.25
	17	15	41.24	40.15	39.05	37.95	36.85	36.12
	22	20	44.11	43.01	41.91	40.82	39.72	38.98
	27	24	46.41	45.31	44.21	43.11	42.01	41.28
	32	29	49.28	48.18	47.08	45.98	44.88	44.15
	37	34	52.14	51.05	49.95	48.85	47.75	47.02
	42	38	54.44	53.34	52.24	51.14	50.04	47.72
	<b>47</b>	<b>43</b>	57.31	56.21	55.11	<b>54.00</b>	50.23	47.72
	52	47	59.60	58.50	57.41	54.00	50.23	47.72
	57	52	62.47	61.37	57.77	54.00	50.23	47.72
	62	56	64.77	61.53	57.77	54.00	50.23	47.72
	67	61	65.30	61.53	57.77	54.00	50.23	47.72
	72	66	65.30	61.53	57.77	54.00	50.23	47.72
75	69	65.30	61.53	57.77	54.00	50.23	47.72	
80	74	65.30	61.53	57.77	54.00	50.23	47.72	

NOTE - MBH = 1000 BTUs per hour.







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