

VARIABLE REFRIGERANT FLOW SYSTEMS



VRF VCFA

Ceiling/Floor Mount Non-Ducted Indoor Models - 60HZ

Bulletin No. 210695
October 2016
Supersedes April 2016

PRODUCT SPECIFICATIONS

Low-sound, three-stage fan Ceiling and Floor Mount models with LED display has a multi-blade fan 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 pre-determined temperature which prevents the discharge of cold air while the system is operating in the “heating” mode.
- **LED 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 (Heat Pump Systems Only)** - An optional wireless remote control (not furnished) can be used to inquire and modify each indoor unit’s address.

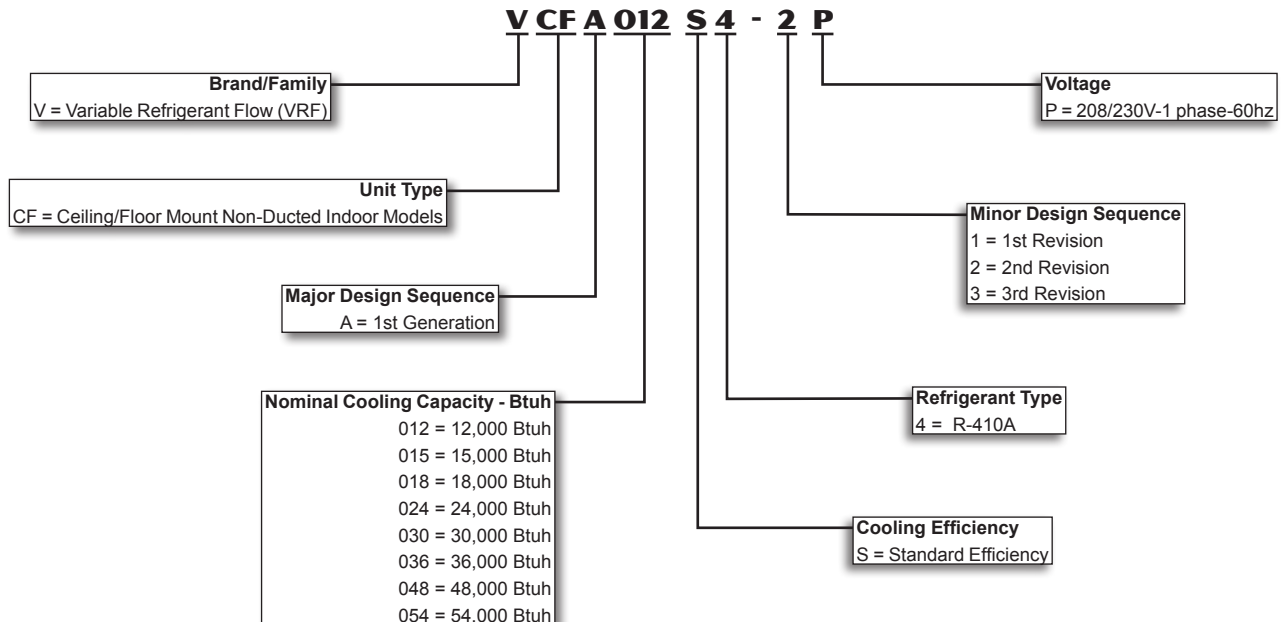


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- **Auto Restart** - Automatically restores the previous function setting if power is interrupted.
- **Condensate Pump Connection** - Control board has connection for condensate pump (pump not furnished).
- **Electronic Expansion Valve** - Assures 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



SPECIFICATIONS
012 - 024

| General Data | | Nominal kBtuh | 12 | 15 | 18 | 24 |
|----------------------------------|--|---------------|------------------------------|-------------------|-------------------|-------------------|
| | | Model Number | VCFA012S4 | VCFA015S4 | VCFA018S4 | VCFA024S4 |
| ¹ Cooling Performance | Net Cooling Capacity - Btuh | | 12,000 | 16,000 | 18,000 | 24,000 |
| | Total Unit Power Input (W) | | 45 | 170 | 170 | 170 |
| | Rated current (A) | | 0.25 | 0.8 | 0.8 | 0.8 |
| ¹ Heating Performance | Net Heating Capacity - Btuh | | 13,600 | 17,100 | 21,500 | 27,300 |
| | Total Unit Power Input (W) | | 45 | 170 | 170 | 170 |
| | Rated current (A) | | 0.25 | 0.8 | 0.8 | 0.8 |
| Refrigerant | Type | | R-410A | R-410A | R-410A | R-410A |
| Indoor Fan Motor | Input - W | | 38.4 | 140 | 140 | 140 |
| | Speed (high / medium / low) - rpm | | 733 / 593 / 518 | 1400 / 1145 / 950 | 1400 / 1145 / 950 | 1400 / 1145 / 950 |
| 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 | 31-5/8 x 10 x 1 | 31-5/8 x 10 x 1 | 31-5/8 x 10 x 1 |
| | Number of circuits | | 3 | 3 | 3 | 3 |
| | Tube outside diameter and type - in. | | 3/8 - 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 | | 353 / 283 / 235 | 441 / 383 / 324 | 441 / 383 / 324 | 441 / 383 / 324 |
| | Sound data (high / medium / low) dBA | | 40 / 38 / 36 | 43 / 41 / 38 | 43 / 41 / 38 | 43 / 41 / 38 |
| Control Wiring (AWG) | | | 18/3 gauge (3-core shielded) | | | |
| Weight Data | Unit weight (net / shipping) - lbs. | | 59 / 71 | 62 / 75 | 62 / 75 | 62 / 75 |
| ELECTRICAL DATA | | | | | | |
| | Line voltage data - 60 hz - 1ph | | 208/230V | 208/230V | 208/230V | 208/230V |
| | ² Maximum overcurrent protection (amps) | | 15 | 15 | 15 | 15 |
| | ³ Minimum circuit ampacity | | 0.3 | 0.9 | 0.9 | 0.9 |
| | Indoor Blower Motor - Full load amps | | 0.17 | 0.72 | 0.72 | 0.72 |

¹ 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.

² HACR type circuit breaker or fuse.

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

SPECIFICATIONS
030 - 054

| General Data | | Nominal kBtuh | 30 | 36 | 48 | 54 |
|------------------------------------|--|------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| | | Model Number | VCFA030S4 | VCFA036S4 | VCFA048S4 | VCFA054S4 |
| ¹ Cooling Performance | Net Cooling Capacity - Btuh | | 30,000 | 38,000 | 48,000 | 54,000 |
| | Total Unit Power Input (W) | | 195 | 265 | 265 | 425 |
| | Rated current (A) | | 0.90 | 1.15 | 1.15 | 1.95 |
| ¹ Heating Performance | Net Heating Capacity - Btuh | | 34,100 | 42,700 | 52,900 | 61,400 |
| | Total Unit Power Input (W) | | 195 | 265 | 265 | 425 |
| | Rated current (A) | | 0.90 | 1.15 | 1.15 | 1.95 |
| Refrigerant | Type | | R-410A | R-410A | R-410A | R-410A |
| Indoor Fan Motor | Input - W | | 180 | 235 | 235 | 390 |
| | Speed (high / medium / low) - rpm | | 1365 / 1140 / 1010 | 1170 / 1070 / 995 | 1170 / 1070 / 995 | 1160 / 1050 / 940 |
| Indoor Coil | Number of rows | | 3 | 3 | 3 | 3 |
| | Fin spacing - in. | | 1/16 | 1/16 | 1/16 | 1/16 |
| | Coil length x height x width - in. | | 43-1/8 x 10 x 1 | 53-1/2 x 10 x 1 | 53-1/2 x 10 x 1 | 53-1/2 x 8 x 1 |
| | Number of circuits | | 5 | 5 | 5 | 6 |
| | Tube outside diameter and type - in. | | 3/8 - 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) | | 3/8 | 3/8 | 3/8 | 3/8 |
| | Gas pipe o.d. - in. (flare) | | 5/8 | 5/8 | 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 | | 706 / 530 / 412 | 1165 / 1095 / 1018 | 1165 / 1095 / 1018 | 1354 / 1236 / 1060 |
| | Sound data (high / medium / low) dBA | | 45 / 43 / 40 | 47 / 45 / 42 | 47 / 45 / 42 | 52 / 50 / 48 |
| Control Wiring (AWG) | | 18/3 gauge (3-core shielded) | | | | |
| Weight Data | Unit weight (net / shipping) - lbs. | | 76 / 90 | 110 / 130 | 110 / 130 | 127 / 139 |
| ELECTRICAL DATA | | | | | | |
| | Line voltage data - 60 hz - 1ph | | 208/230V | 208/230V | 208/230V | 208/230V |
| | ² Maximum overcurrent protection (amps) | | 15 | 15 | 15 | 15 |
| | ³ Minimum circuit ampacity | | 1.1 | 1.4 | 1.4 | 2.4 |
| | Indoor Blower Motor - Full load amps | | 0.83 | 1.1 | 1.1 | 1.85 |

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

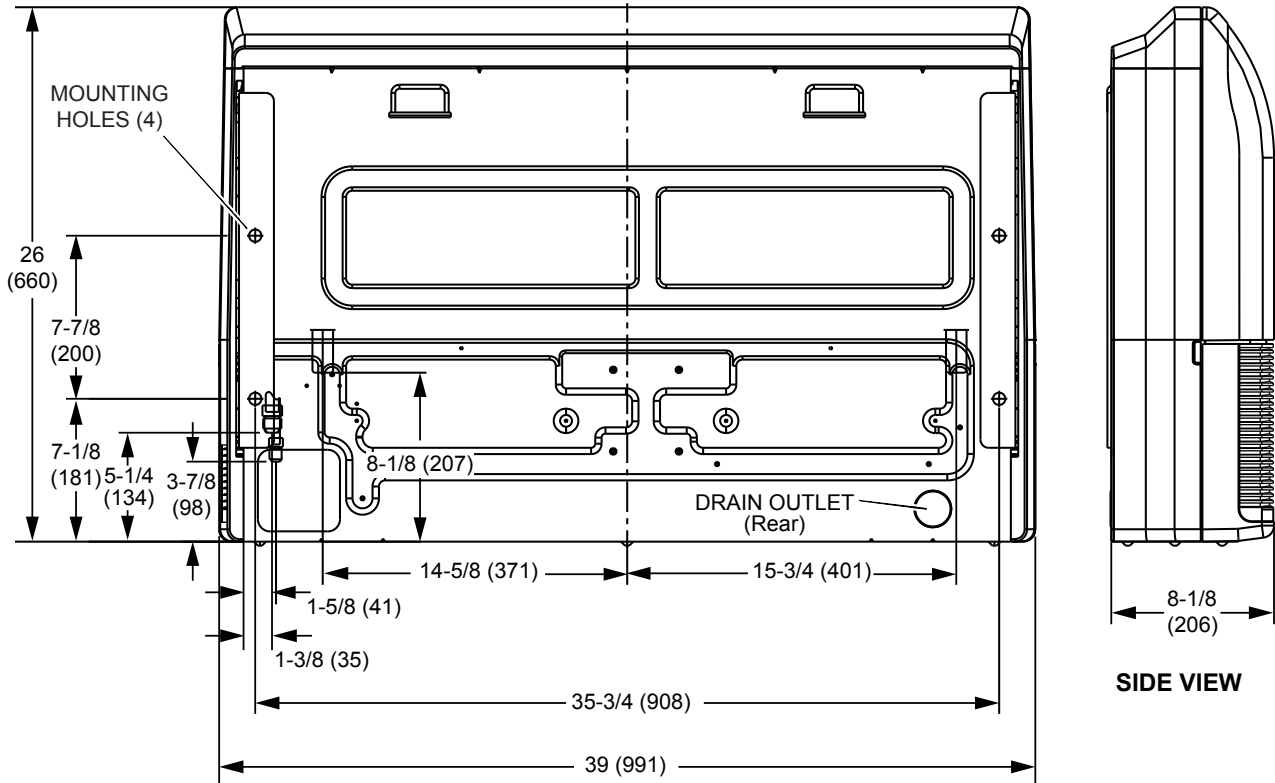
- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

² HACR type circuit breaker or fuse.

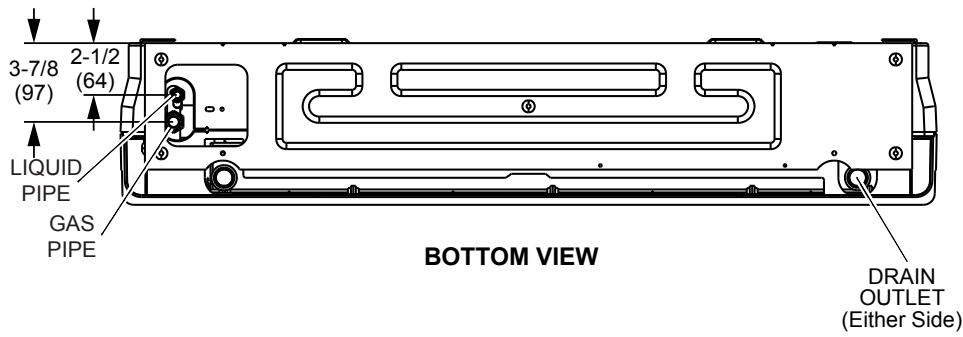
³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

DIMENSIONS - INCHES (MM)

VCFA012S4, VCFA015S4, VCFA018S4, VCFA024S4



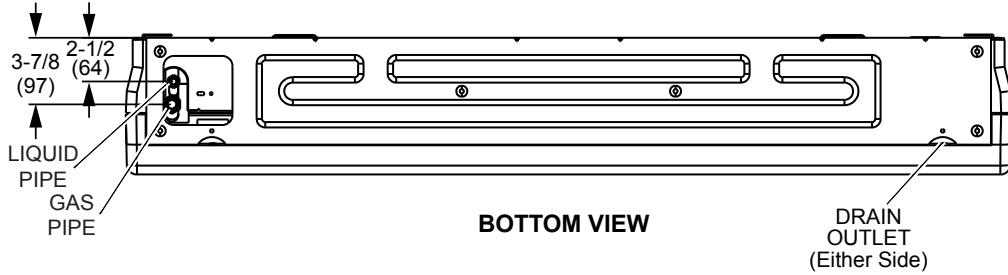
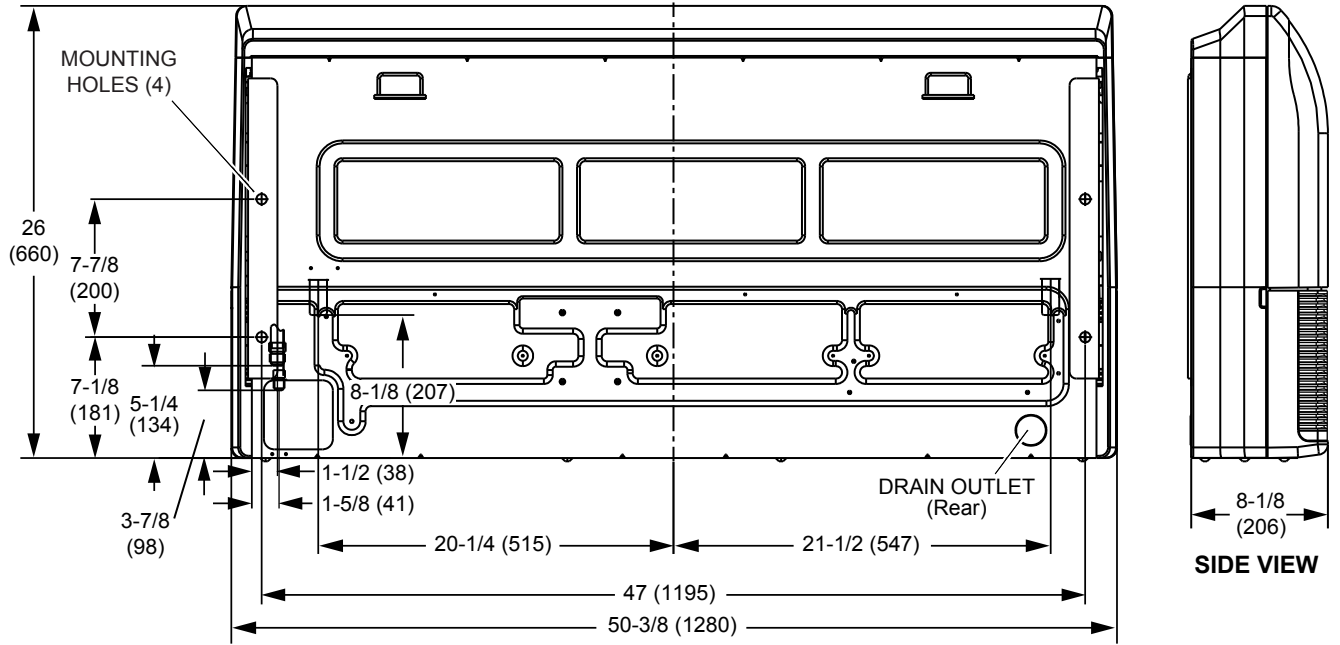
REAR VIEW



BOTTOM VIEW

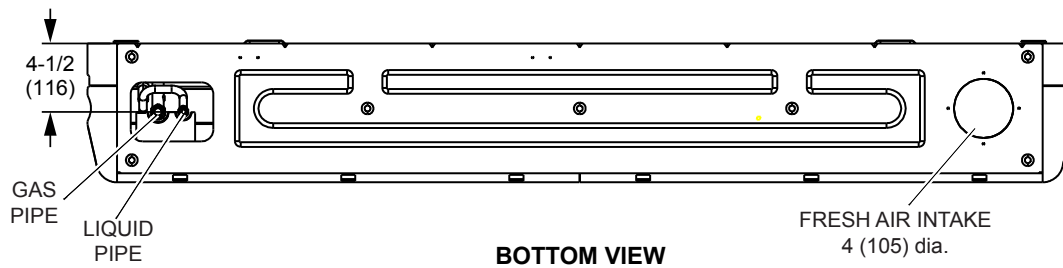
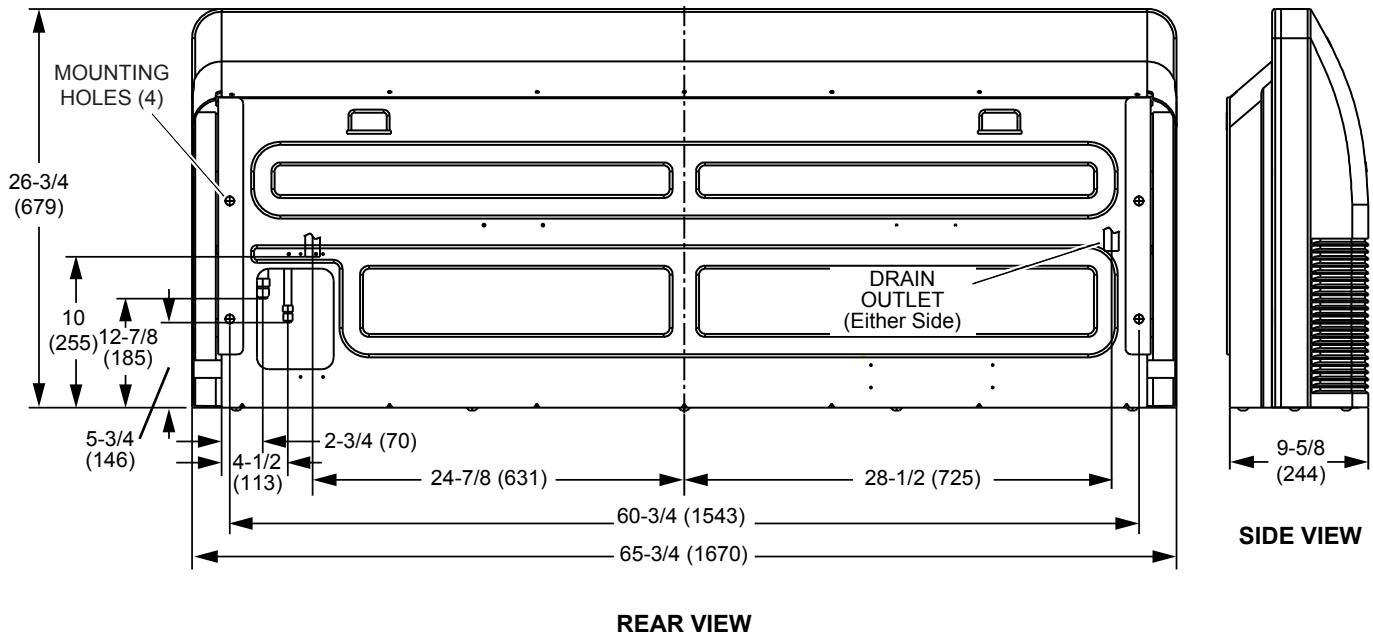
DIMENSIONS - INCHES (MM)

VCFA030S4

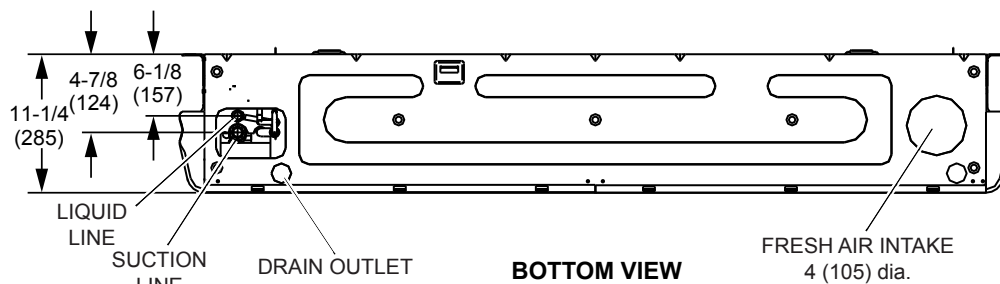
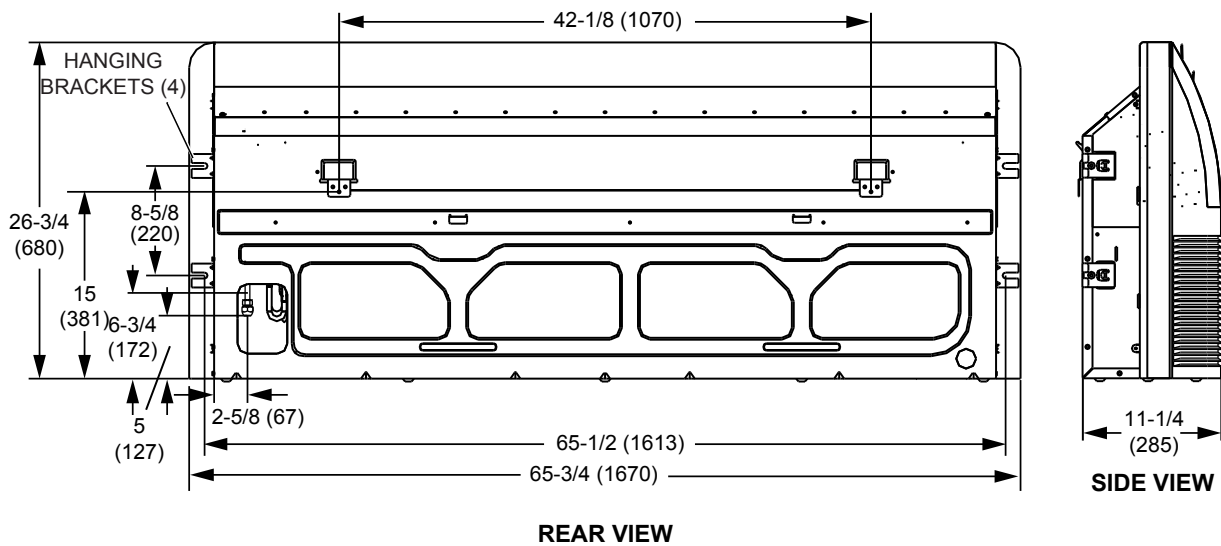


DIMENSIONS - INCHES (MM)

VCFA036S4, VCFA048S4

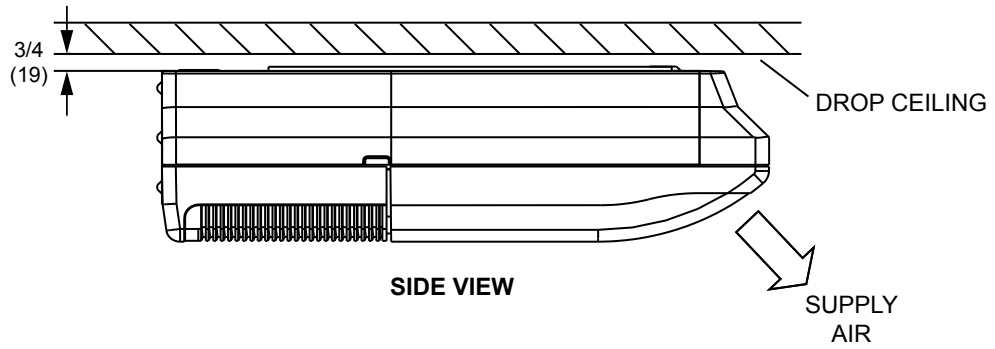


VCFA054S4

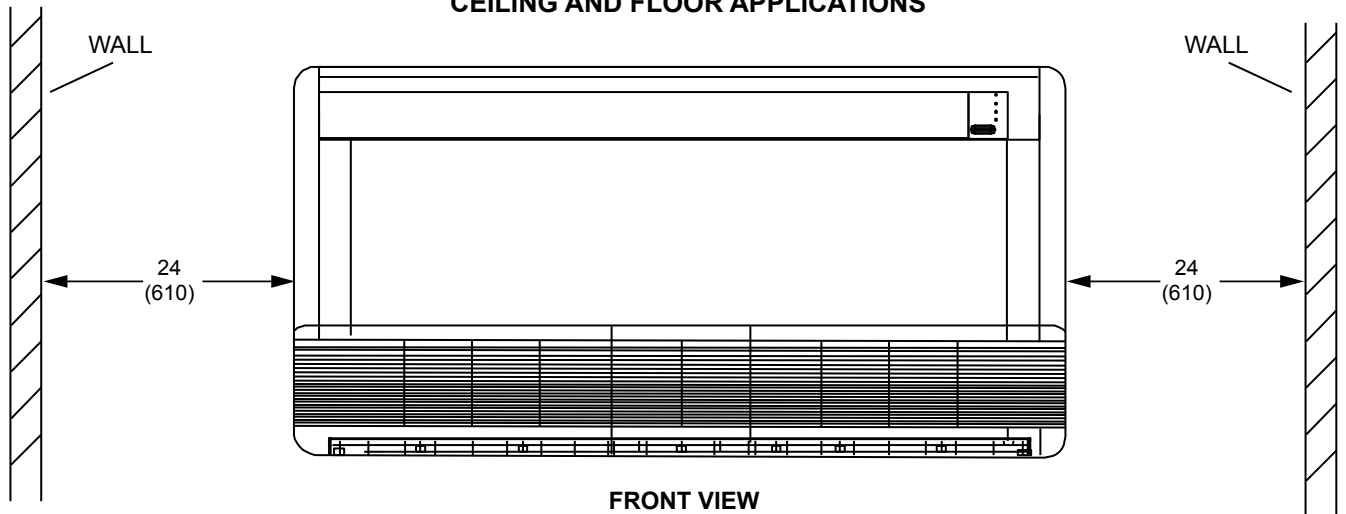


INSTALLATION CLEARANCES - INCHES (MM)

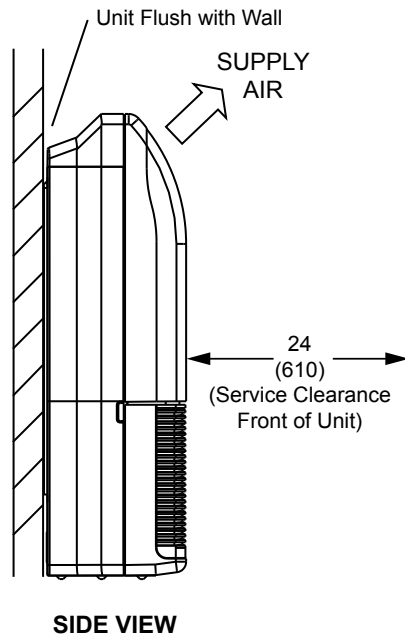
CEILING APPLICATIONS



CEILING AND FLOOR APPLICATIONS

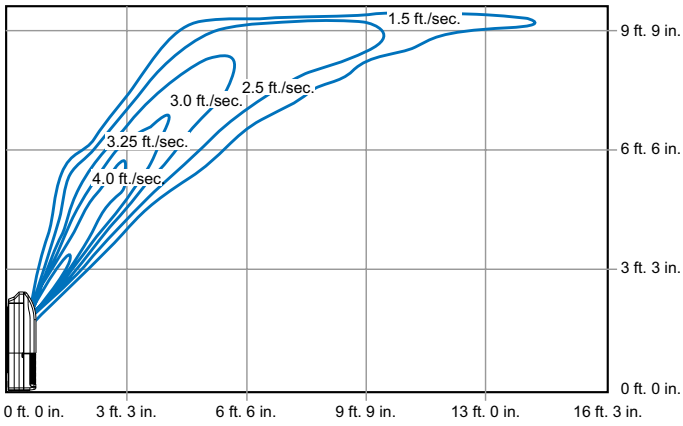


FLOOR APPLICATIONS

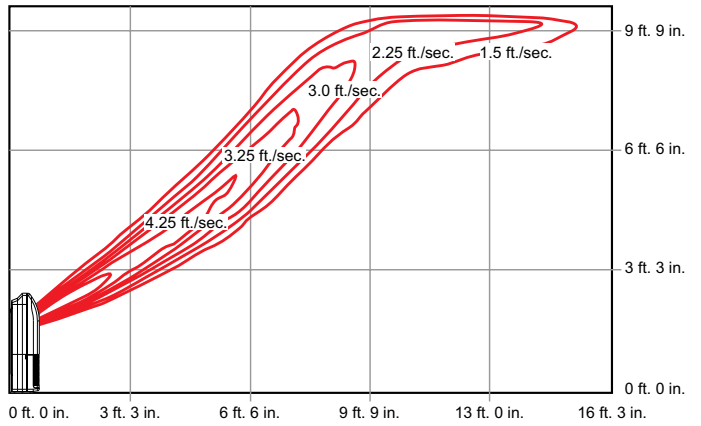


AIR THROW DATA - WALL-MOUNT

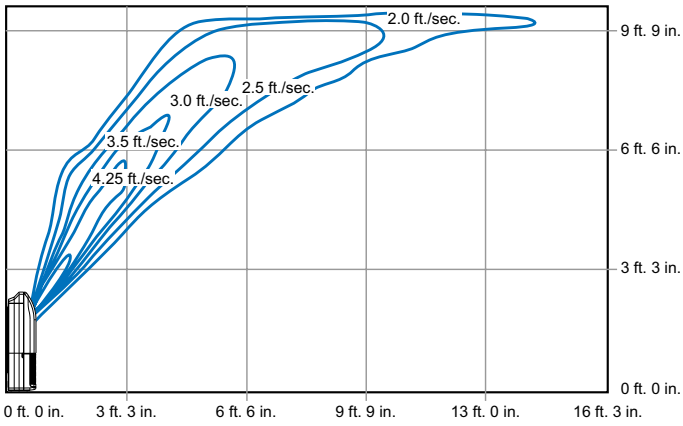
VCFA012S4 - COOLING



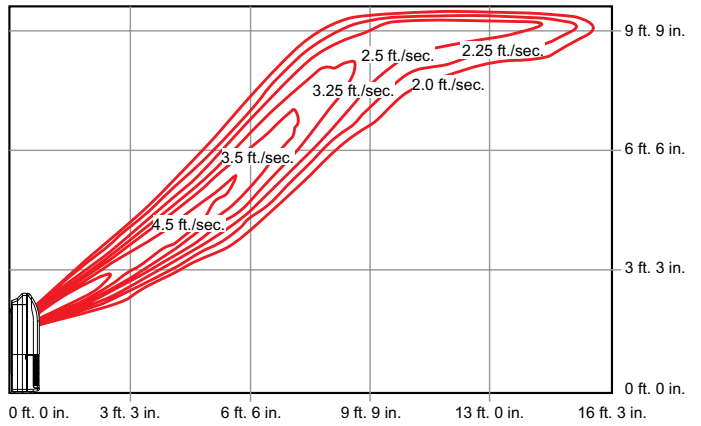
VCFA012S4 - HEATING



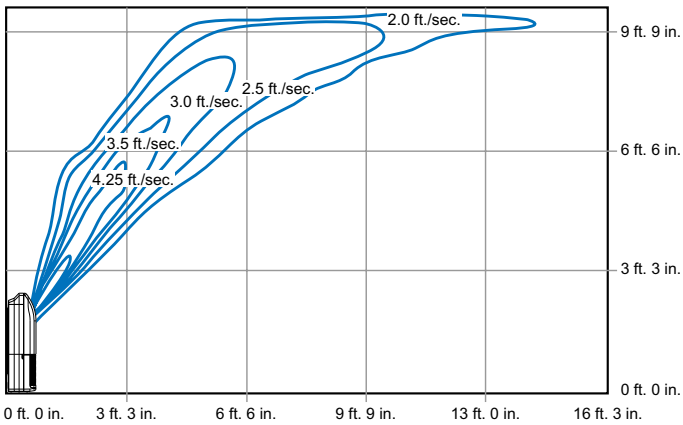
VCFA015S4 - COOLING



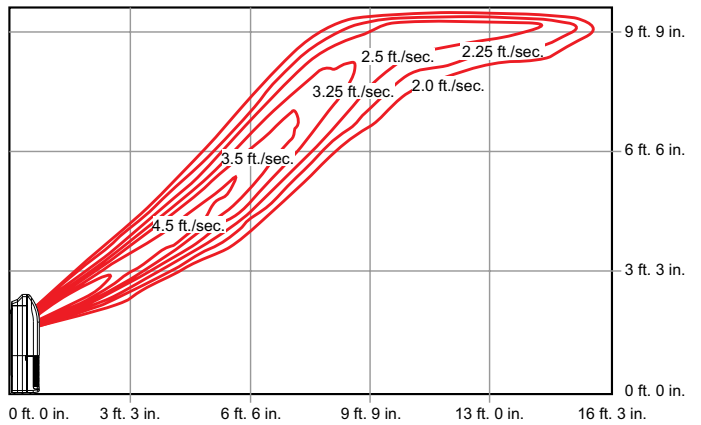
VCFA015S4 - HEATING



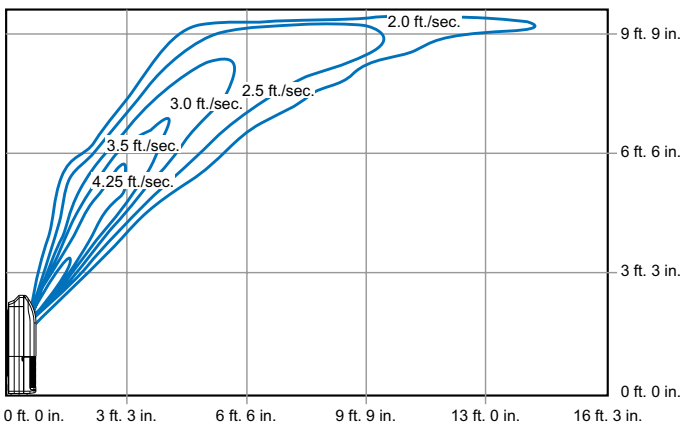
VCFA018S4 - COOLING



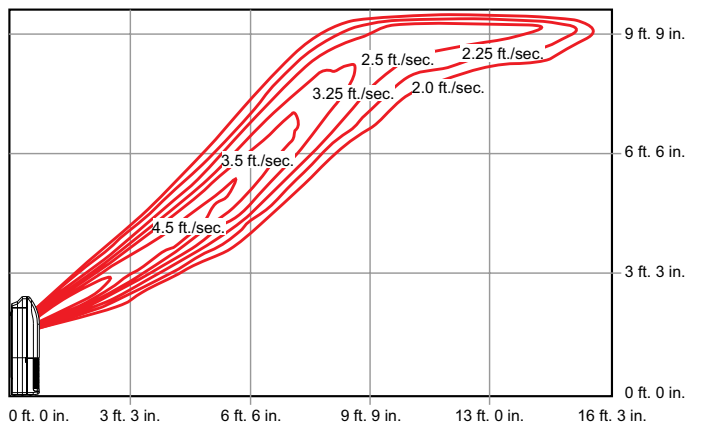
VCFA018S4 - HEATING



VCFA024S4 - COOLING

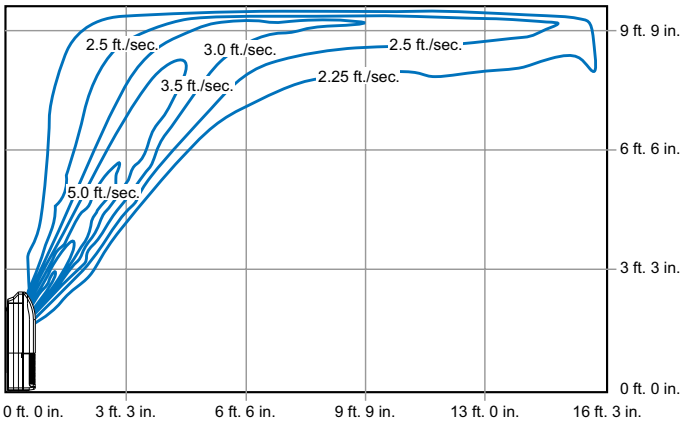


VCFA024S4 - HEATING

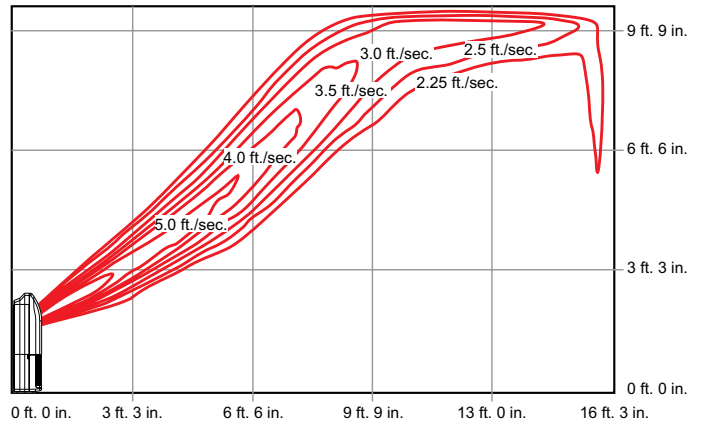


AIR THROW DATA - WALL-MOUNT

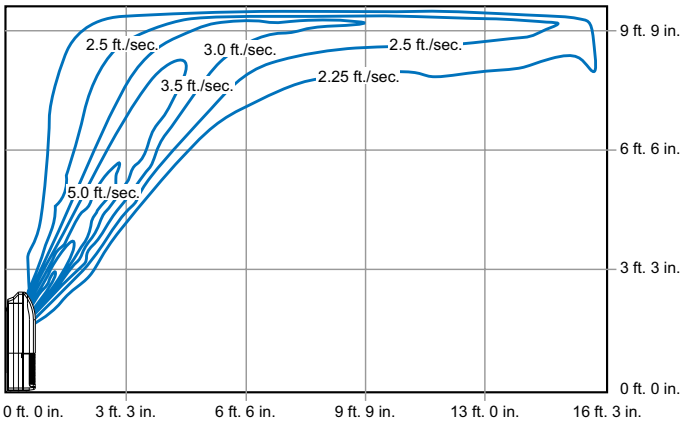
VCFA030S4 - COOLING



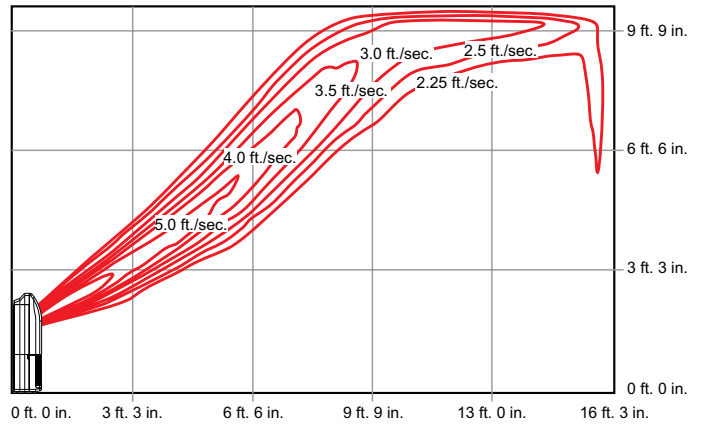
VCFA030S4 - HEATING



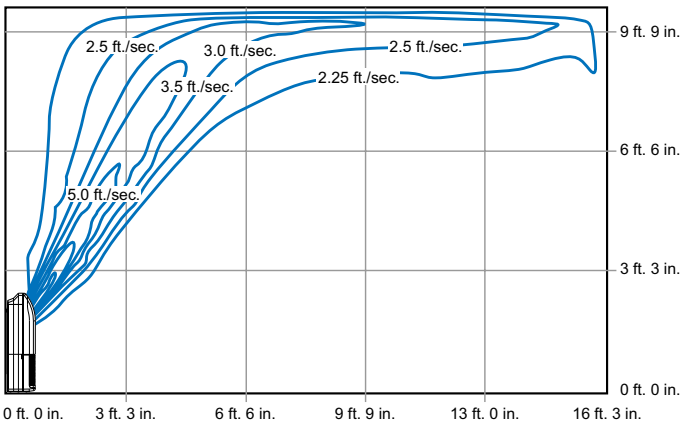
VCFA036S4 - COOLING



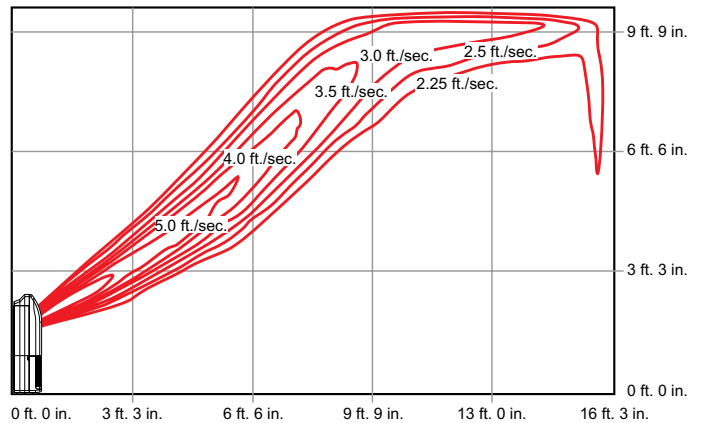
VCFA036S4 - HEATING



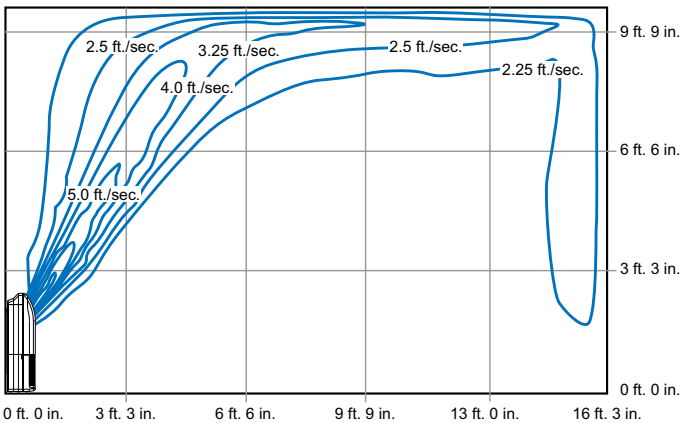
VCFA048S4 - COOLING



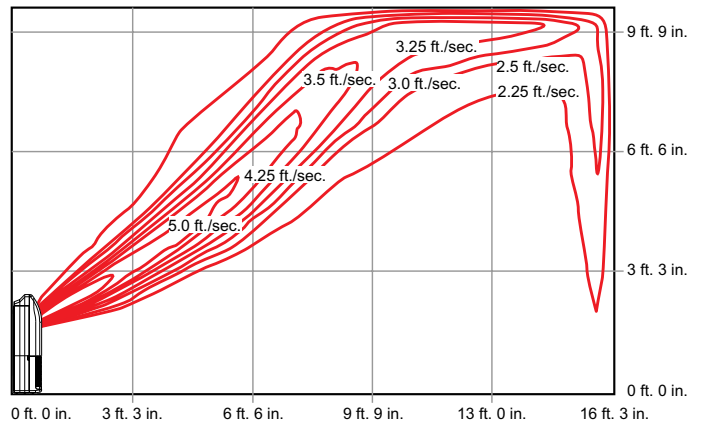
VCFA048S4 - HEATING



VCFA054S4 - COOLING

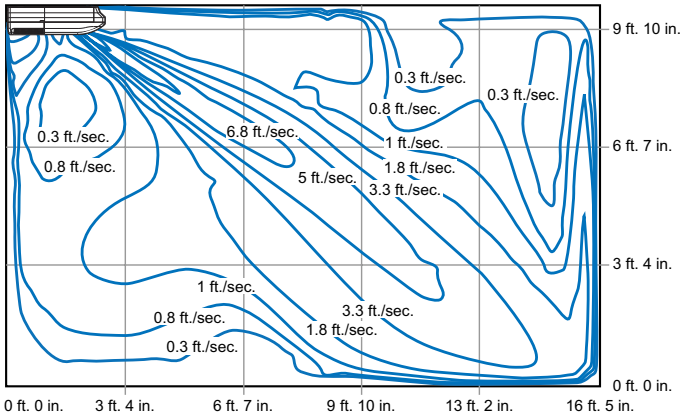


VCFA054S4 - HEATING

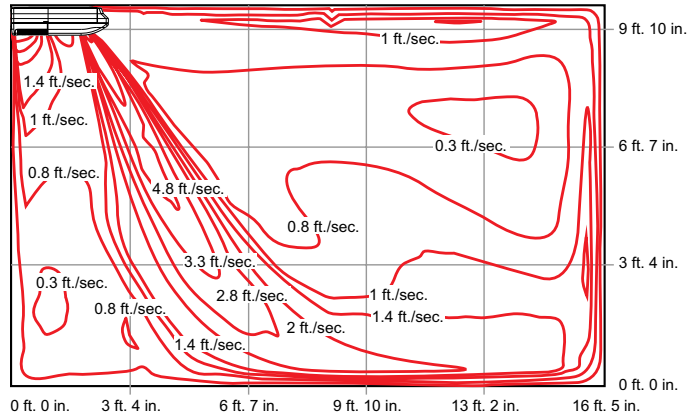


AIR THROW DATA - CEILING-MOUNT

VCFA - COOLING (ALL MODELS)



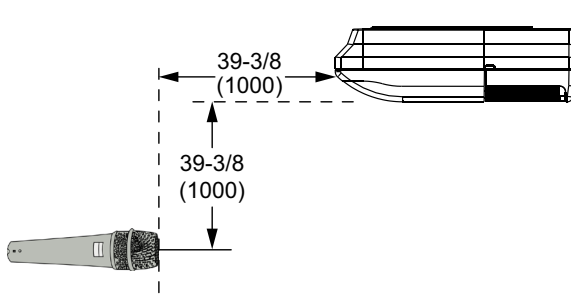
VCFA - HEATING (ALL MODELS)



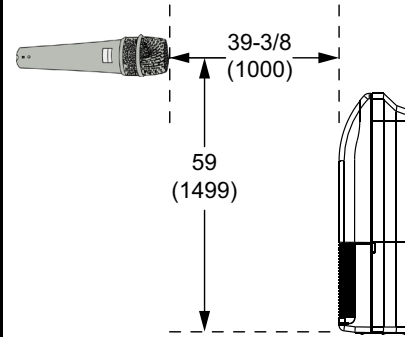
SOUND DATA

SOUND LEVELS

Ceiling-Mounted



Floor-Mounted



NOTE:

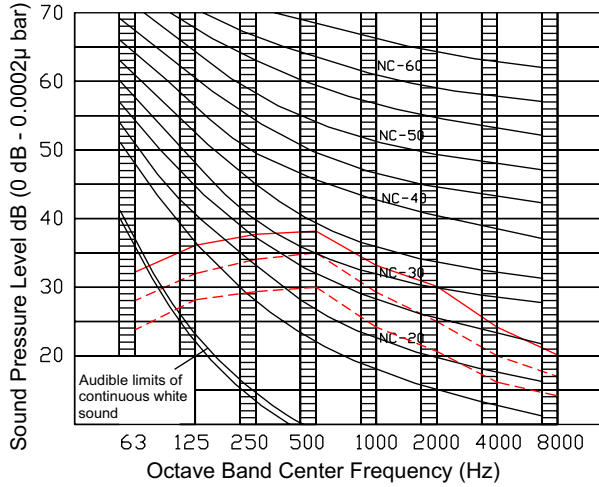
- Semi-anechoic chamber conversion value is measured at a point 39-3/8 inches (1000 mm) in front of the unit at a height of 59 inches (1499 mm).

| Model No. | Sound Rating Number (dBA) | | |
|-----------|---------------------------|--------|------|
| | Low | Medium | High |
| VCFA012S4 | 36 | 38 | 40 |
| VCFA015S4 | 38 | 41 | 43 |
| VCFA018S4 | 38 | 41 | 43 |
| VCFA024S4 | 38 | 41 | 43 |
| VCFA030S4 | 40 | 43 | 45 |
| VCFA036S4 | 42 | 45 | 47 |
| VCFA048S4 | 42 | 45 | 47 |
| VCFA054S4 | 48 | 50 | 52 |

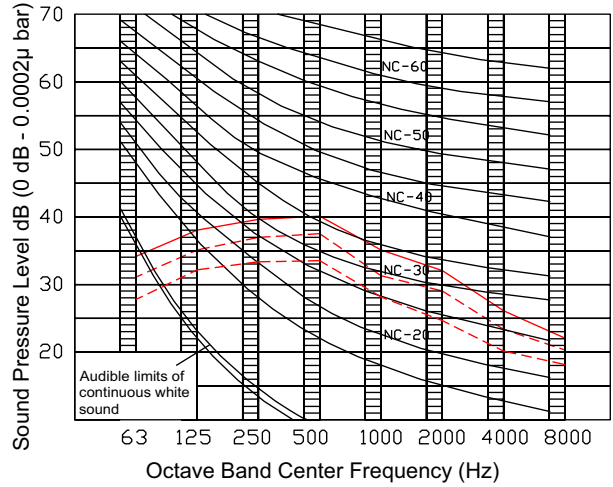
SOUND DATA

OCTAVE BAND LEVELS

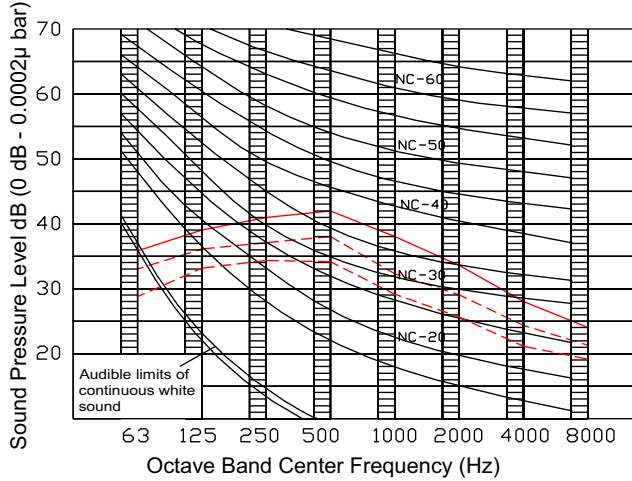
VCFA012S4



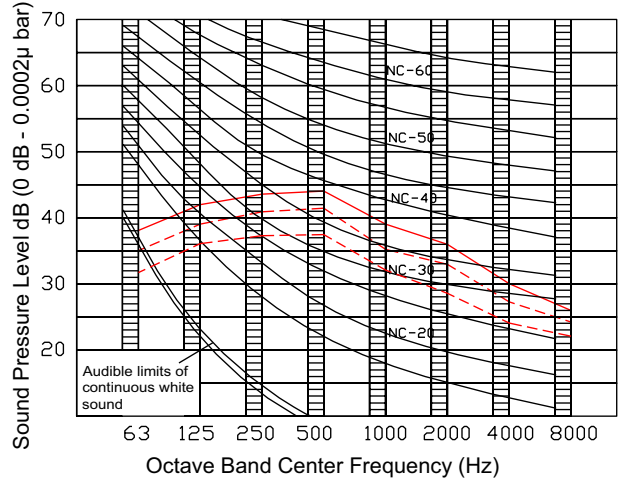
VCFA015S4, VCFA018S4, VCFA024S4



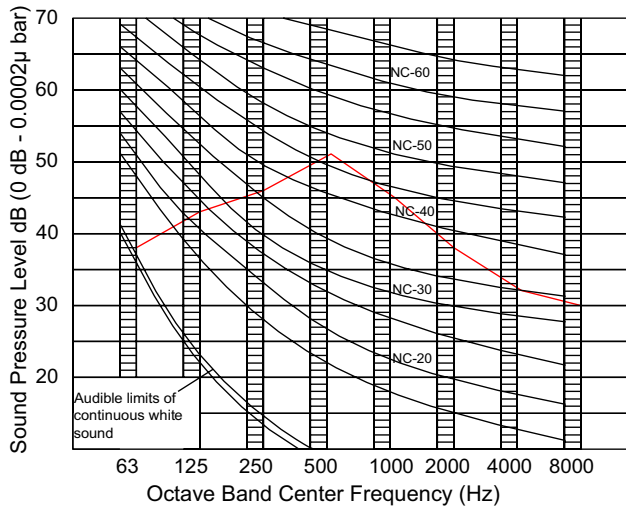
VCFA030S4



VCFA036S4, VCFA048S4



VCFA054S4



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 | 5 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 15.97 | 12.03 |
| | 10 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 15.97 | 12.03 |
| | 15 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 15.91 | 11.98 |
| | 20 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 15.69 | 11.82 |
| | 25 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 15.45 | 11.64 |
| | 30 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 15.22 | 11.47 |
| | 35 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 14.99 | 11.29 |
| | 40 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 14.76 | 11.12 |
| | 45 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 14.53 | 10.95 |
| | 50 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.98 | 10.44 | 14.30 | 10.77 |
| | 55 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.96 | 10.42 | 14.07 | 10.60 |
| | 60 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.73 | 10.25 | 13.84 | 10.43 |
| | 65 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.50 | 10.08 | 13.61 | 10.25 |
| | 70 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.27 | 9.91 | 13.38 | 10.08 |
| | 75 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 13.04 | 9.73 | 13.15 | 9.91 |
| | 80 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 12.81 | 9.56 | 12.92 | 9.73 |
| | 85 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 12.58 | 9.39 | 12.69 | 9.56 |
| | 90 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 12.35 | 9.22 | 12.46 | 9.39 |
| | 95 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 12.00 | 9.01 | 12.12 | 9.05 | 12.23 | 9.21 |
| | 100 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 11.77 | 8.84 | 11.89 | 8.87 | 11.99 | 9.03 |
| 105 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 11.54 | 8.67 | 11.62 | 8.67 | 11.63 | 8.76 | |
| 110 | 7.04 | 5.00 | 8.53 | 6.21 | 10.02 | 7.45 | 10.85 | 8.15 | 11.12 | 8.30 | 11.27 | 8.49 | |
| 115 | 7.04 | 5.00 | 8.16 | 5.94 | 8.36 | 6.22 | 8.63 | 6.48 | 8.89 | 6.64 | 9.16 | 6.90 | |
| 118 | 6.69 | 4.75 | 6.89 | 5.01 | 7.09 | 5.27 | 7.36 | 5.52 | 7.62 | 5.69 | 7.89 | 5.94 | |
| 015 | 5 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 21.29 | 16.04 |
| | 10 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 21.29 | 16.04 |
| | 15 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 21.21 | 15.98 |
| | 20 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 20.92 | 15.75 |
| | 25 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 20.61 | 15.52 |
| | 30 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 20.30 | 15.29 |
| | 35 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 19.99 | 15.06 |
| | 40 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 19.68 | 14.83 |
| | 45 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 19.38 | 14.60 |
| | 50 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.64 | 13.92 | 19.07 | 14.36 |
| | 55 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.61 | 13.89 | 18.76 | 14.13 |
| | 60 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.30 | 13.67 | 18.46 | 13.90 |
| | 65 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 18.00 | 13.44 | 18.15 | 13.67 |
| | 70 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 17.69 | 13.21 | 17.84 | 13.44 |
| | 75 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 17.38 | 12.98 | 17.54 | 13.21 |
| | 80 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 17.07 | 12.75 | 17.23 | 12.98 |
| | 85 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 16.77 | 12.52 | 16.92 | 12.75 |
| | 90 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 16.46 | 12.29 | 16.61 | 12.52 |
| | 95 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 16.00 | 12.01 | 16.15 | 12.06 | 16.31 | 12.28 |
| | 100 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 15.69 | 11.78 | 15.85 | 11.83 | 15.99 | 12.04 |
| 105 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 15.39 | 11.55 | 15.49 | 11.57 | 15.51 | 11.68 | |
| 110 | 9.39 | 6.67 | 11.37 | 8.27 | 13.36 | 9.93 | 14.47 | 10.86 | 14.82 | 11.07 | 15.03 | 11.32 | |
| 115 | 9.39 | 6.67 | 10.88 | 7.92 | 11.15 | 8.29 | 11.50 | 8.64 | 11.86 | 8.85 | 12.21 | 9.20 | |
| 118 | 8.92 | 6.34 | 9.19 | 6.68 | 9.45 | 7.03 | 9.81 | 7.36 | 10.16 | 7.59 | 10.52 | 7.92 | |

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 | 5 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 23.95 | 18.04 |
| | 10 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 23.95 | 18.04 |
| | 15 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 23.87 | 17.98 |
| | 20 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 23.53 | 17.72 |
| | 25 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 23.18 | 17.46 |
| | 30 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 22.84 | 17.20 |
| | 35 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 22.49 | 16.94 |
| | 40 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 22.14 | 16.68 |
| | 45 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 21.80 | 16.42 |
| | 50 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.98 | 15.66 | 21.45 | 16.16 |
| | 55 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.94 | 15.63 | 21.11 | 15.90 |
| | 60 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.59 | 15.37 | 20.76 | 15.64 |
| | 65 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 20.25 | 15.12 | 20.42 | 15.38 |
| | 70 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 19.90 | 14.86 | 20.07 | 15.12 |
| | 75 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 19.55 | 14.60 | 19.73 | 14.86 |
| | 80 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 19.21 | 14.34 | 19.38 | 14.60 |
| | 85 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 18.86 | 14.08 | 19.04 | 14.34 |
| | 90 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 18.52 | 13.83 | 18.69 | 14.08 |
| 95 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 18.00 | 13.52 | 18.17 | 13.57 | 18.35 | 13.82 | |
| 100 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 17.65 | 13.26 | 17.83 | 13.31 | 17.99 | 13.55 | |
| 105 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 17.31 | 13.00 | 17.43 | 13.01 | 17.45 | 13.14 | |
| 110 | 10.56 | 7.50 | 12.79 | 9.31 | 15.02 | 11.17 | 16.27 | 12.22 | 16.67 | 12.45 | 16.91 | 12.74 | |
| 115 | 10.56 | 7.50 | 12.24 | 8.91 | 12.54 | 9.33 | 12.94 | 9.72 | 13.34 | 9.96 | 13.74 | 10.35 | |
| 118 | 10.03 | 7.13 | 10.33 | 7.52 | 10.63 | 7.91 | 11.03 | 8.29 | 11.43 | 8.54 | 11.83 | 8.91 | |
| 024 | 5 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 31.93 | 24.05 |
| | 10 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 31.93 | 24.05 |
| | 15 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 31.82 | 23.97 |
| | 20 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 31.37 | 23.63 |
| | 25 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 30.91 | 23.28 |
| | 30 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 30.45 | 22.93 |
| | 35 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 29.99 | 22.59 |
| | 40 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 29.53 | 22.24 |
| | 45 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 29.07 | 21.89 |
| | 50 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.97 | 20.88 | 28.61 | 21.55 |
| | 55 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.91 | 20.84 | 28.15 | 21.20 |
| | 60 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 27.45 | 20.50 | 27.68 | 20.85 |
| | 65 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 26.99 | 20.15 | 27.22 | 20.51 |
| | 70 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 26.53 | 19.81 | 26.76 | 20.16 |
| | 75 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 26.07 | 19.47 | 26.30 | 19.81 |
| | 80 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 25.61 | 19.12 | 25.84 | 19.47 |
| | 85 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 25.15 | 18.78 | 25.38 | 19.12 |
| | 90 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 24.69 | 18.44 | 24.92 | 18.77 |
| 95 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 24.00 | 18.02 | 24.23 | 18.09 | 24.46 | 18.43 | |
| 100 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 23.54 | 17.68 | 23.77 | 17.75 | 23.99 | 18.07 | |
| 105 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 23.08 | 17.33 | 23.23 | 17.35 | 23.27 | 17.53 | |
| 110 | 14.08 | 10.00 | 17.06 | 12.41 | 20.03 | 14.90 | 21.70 | 16.29 | 22.23 | 16.60 | 22.55 | 16.98 | |
| 115 | 14.08 | 10.00 | 16.32 | 11.87 | 16.72 | 12.43 | 17.25 | 12.96 | 17.79 | 13.28 | 18.32 | 13.80 | |
| 118 | 13.38 | 9.50 | 13.78 | 10.02 | 14.18 | 10.54 | 14.71 | 11.05 | 15.25 | 11.38 | 15.78 | 11.89 | |

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 | 5 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 39.92 | 30.07 |
| | 10 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 39.92 | 30.07 |
| | 15 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 39.78 | 29.96 |
| | 20 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 39.22 | 29.54 |
| | 25 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 38.63 | 29.10 |
| | 30 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 38.06 | 28.67 |
| | 35 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 37.48 | 28.23 |
| | 40 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 36.91 | 27.80 |
| | 45 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 36.33 | 27.37 |
| | 50 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.96 | 26.10 | 35.76 | 26.93 |
| | 55 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.89 | 26.05 | 35.18 | 26.50 |
| | 60 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 34.32 | 25.62 | 34.61 | 26.07 |
| | 65 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 33.74 | 25.19 | 34.03 | 25.63 |
| | 70 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 33.17 | 24.76 | 33.45 | 25.20 |
| | 75 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 32.59 | 24.33 | 32.88 | 24.77 |
| | 80 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 32.02 | 23.90 | 32.30 | 24.33 |
| | 85 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 31.44 | 23.47 | 31.73 | 23.90 |
| | 90 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 30.86 | 23.04 | 31.15 | 23.47 |
| 95 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 30.00 | 22.53 | 30.29 | 22.61 | 30.58 | 23.03 | |
| 100 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 29.42 | 22.09 | 29.71 | 22.18 | 29.98 | 22.58 | |
| 105 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 28.85 | 21.66 | 29.04 | 21.68 | 29.08 | 21.91 | |
| 110 | 17.60 | 12.50 | 21.32 | 15.51 | 25.04 | 18.62 | 27.12 | 20.37 | 27.79 | 20.75 | 28.18 | 21.23 | |
| 115 | 17.60 | 12.50 | 20.40 | 14.84 | 20.90 | 15.54 | 21.57 | 16.20 | 22.23 | 16.60 | 22.90 | 17.25 | |
| 118 | 16.72 | 11.88 | 17.22 | 12.53 | 17.72 | 13.18 | 18.39 | 13.81 | 19.06 | 14.23 | 19.72 | 14.86 | |
| 036 | 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 | 50.38 | 37.95 |
| | 20 | 22.30 | 15.84 | 27.01 | 19.65 | 31.72 | 23.59 | 38.00 | 28.53 | 44.28 | 33.06 | 49.68 | 37.42 |
| | 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 | 38.00 | 28.53 | 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 | 21.18 | 15.05 | 21.82 | 15.87 | 22.45 | 16.69 | 23.29 | 17.49 | 24.14 | 18.02 | 24.98 | 18.82 | |

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 | 5 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 63.87 | 48.11 |
| | 10 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 63.87 | 48.11 |
| | 15 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 63.64 | 47.94 |
| | 20 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 62.75 | 47.26 |
| | 25 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 61.82 | 46.56 |
| | 30 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 60.89 | 45.87 |
| | 35 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 59.97 | 45.18 |
| | 40 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 59.05 | 44.48 |
| | 45 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 58.13 | 43.79 |
| | 50 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.93 | 41.76 | 57.21 | 43.09 |
| | 55 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 55.83 | 41.68 | 56.29 | 42.40 |
| | 60 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 54.91 | 41.00 | 55.37 | 41.71 |
| | 65 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 53.99 | 40.31 | 54.45 | 41.01 |
| | 70 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 53.07 | 39.62 | 53.53 | 40.32 |
| | 75 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 52.15 | 38.93 | 52.61 | 39.63 |
| | 80 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 51.22 | 38.25 | 51.69 | 38.93 |
| | 85 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 50.30 | 37.56 | 50.77 | 38.24 |
| | 90 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 49.38 | 36.87 | 49.84 | 37.55 |
| | 95 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 48.00 | 36.04 | 48.46 | 36.18 | 48.92 | 36.85 |
| | 100 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 47.08 | 35.35 | 47.54 | 35.50 | 47.97 | 36.13 |
| 105 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 46.16 | 34.66 | 46.47 | 34.70 | 46.53 | 35.05 | |
| 110 | 28.17 | 20.01 | 34.12 | 24.82 | 40.07 | 29.79 | 43.40 | 32.59 | 44.46 | 33.20 | 45.09 | 33.97 | |
| 115 | 28.17 | 20.01 | 32.64 | 23.75 | 33.44 | 24.87 | 34.51 | 25.91 | 35.58 | 26.56 | 36.64 | 27.60 | |
| 118 | 26.76 | 19.01 | 27.56 | 20.05 | 28.36 | 21.09 | 29.42 | 22.09 | 30.49 | 22.77 | 31.56 | 23.77 | |
| 054 | 5 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 71.85 | 54.12 |
| | 10 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 71.85 | 54.12 |
| | 15 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 71.60 | 53.93 |
| | 20 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 70.59 | 53.17 |
| | 25 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 69.54 | 52.38 |
| | 30 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 68.51 | 51.60 |
| | 35 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 67.47 | 50.82 |
| | 40 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 66.43 | 50.04 |
| | 45 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 65.40 | 49.26 |
| | 50 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.93 | 46.98 | 64.36 | 48.48 |
| | 55 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 62.81 | 46.89 | 63.33 | 47.70 |
| | 60 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 61.77 | 46.12 | 62.29 | 46.92 |
| | 65 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 60.74 | 45.35 | 61.25 | 46.14 |
| | 70 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 59.70 | 44.57 | 60.22 | 45.36 |
| | 75 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 58.66 | 43.80 | 59.18 | 44.58 |
| | 80 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 57.63 | 43.03 | 58.15 | 43.80 |
| | 85 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 56.59 | 42.25 | 57.11 | 43.02 |
| | 90 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 55.56 | 41.48 | 56.07 | 42.24 |
| | 95 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 54.00 | 40.55 | 54.52 | 40.71 | 55.04 | 41.46 |
| | 100 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 52.96 | 39.77 | 53.48 | 39.93 | 53.97 | 40.65 |
| 105 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 51.93 | 38.99 | 52.28 | 39.03 | 52.35 | 39.43 | |
| 110 | 31.69 | 22.51 | 38.38 | 27.92 | 45.07 | 33.52 | 48.82 | 36.66 | 50.02 | 37.35 | 50.73 | 38.21 | |
| 115 | 31.69 | 22.51 | 36.72 | 26.72 | 37.62 | 27.98 | 38.82 | 29.15 | 40.02 | 29.88 | 41.22 | 31.05 | |
| 118 | 30.10 | 21.38 | 31.00 | 22.56 | 31.90 | 23.72 | 33.10 | 24.86 | 34.30 | 25.61 | 35.50 | 26.74 | |

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 | 13.60 | 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 | |
| 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 | 17.00 | 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 | |

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 | 21.00 | 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 | |
| 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 | 27.00 | 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 | |

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 | 34.00 | 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 | |
| 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 | 42.00 | 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 | |

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 |
| 048 | -13 | -14 | 23.69 | 22.64 | 21.58 | 20.52 | 19.46 | 18.76 |
| | -8 | -9 | 26.46 | 25.40 | 24.34 | 23.28 | 22.22 | 21.52 |
| | -3 | -4 | 29.22 | 28.16 | 27.10 | 26.04 | 24.99 | 24.28 |
| | 2 | 1 | 31.98 | 30.92 | 29.87 | 28.81 | 27.75 | 27.04 |
| | 7 | 6 | 34.74 | 33.69 | 32.63 | 31.57 | 30.51 | 29.81 |
| | 12 | 10 | 36.95 | 35.90 | 34.84 | 33.78 | 32.72 | 32.02 |
| | 17 | 15 | 39.72 | 38.66 | 37.60 | 36.54 | 35.48 | 34.78 |
| | 22 | 20 | 42.48 | 41.42 | 40.36 | 39.30 | 38.25 | 37.54 |
| | 27 | 24 | 44.69 | 43.63 | 42.57 | 41.51 | 40.46 | 39.75 |
| | 32 | 29 | 47.45 | 46.39 | 45.33 | 44.28 | 43.22 | 42.51 |
| | 37 | 34 | 50.21 | 49.16 | 48.10 | 47.04 | 45.98 | 45.28 |
| | 42 | 38 | 52.42 | 51.37 | 50.31 | 49.25 | 48.19 | 45.95 |
| | 47 | 43 | 55.19 | 54.13 | 53.07 | 52.00 | 48.37 | 45.95 |
| | 52 | 47 | 57.40 | 56.34 | 55.28 | 52.00 | 48.37 | 45.95 |
| | 57 | 52 | 60.16 | 59.10 | 55.63 | 52.00 | 48.37 | 45.95 |
| | 62 | 56 | 62.37 | 59.26 | 55.63 | 52.00 | 48.37 | 45.95 |
| | 67 | 61 | 62.88 | 59.26 | 55.63 | 52.00 | 48.37 | 45.95 |
| | 72 | 66 | 62.88 | 59.26 | 55.63 | 52.00 | 48.37 | 45.95 |
| 75 | 69 | 62.88 | 59.26 | 55.63 | 52.00 | 48.37 | 45.95 | |
| 054 | -13 | -14 | 25.32 | 24.10 | 22.88 | 21.66 | 20.44 | 19.62 |
| | -8 | -9 | 28.69 | 27.47 | 26.24 | 25.02 | 23.80 | 22.99 |
| | -3 | -4 | 32.05 | 30.83 | 29.61 | 28.39 | 27.17 | 26.35 |
| | 2 | 1 | 35.42 | 34.19 | 32.97 | 31.75 | 30.53 | 29.72 |
| | 7 | 6 | 38.78 | 37.56 | 36.34 | 35.12 | 33.90 | 33.08 |
| | 12 | 10 | 41.47 | 40.25 | 39.03 | 37.81 | 36.59 | 35.77 |
| | 17 | 15 | 44.84 | 43.61 | 42.39 | 41.17 | 39.95 | 39.14 |
| | 22 | 20 | 48.20 | 46.98 | 45.76 | 44.54 | 43.32 | 42.50 |
| | 27 | 24 | 50.89 | 49.67 | 48.45 | 47.23 | 46.01 | 45.19 |
| | 32 | 29 | 54.26 | 53.04 | 51.81 | 50.59 | 49.37 | 48.56 |
| | 37 | 34 | 57.62 | 56.40 | 55.18 | 53.96 | 52.74 | 51.92 |
| | 42 | 38 | 60.31 | 59.09 | 57.87 | 56.65 | 55.43 | 53.02 |
| | 47 | 43 | 63.68 | 62.46 | 61.23 | 60.00 | 55.81 | 53.02 |
| | 52 | 47 | 66.37 | 65.15 | 63.93 | 60.00 | 55.81 | 53.02 |
| | 57 | 52 | 69.73 | 68.37 | 64.19 | 60.00 | 55.81 | 53.02 |
| | 62 | 56 | 72.42 | 68.37 | 64.19 | 60.00 | 55.81 | 53.02 |
| | 67 | 61 | 72.56 | 68.37 | 64.19 | 60.00 | 55.81 | 53.02 |
| | 72 | 66 | 72.56 | 68.37 | 64.19 | 60.00 | 55.81 | 53.02 |
| 75 | 69 | 72.56 | 68.37 | 64.19 | 60.00 | 55.81 | 53.02 | |

NOTE - MBH = 1000 BTUs per hour.

REVISIONS

| Sections | Description of Change |
|----------------|--------------------------------------|
| Air Throw Data | Added charts for Ceiling-Mount data. |



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