

**SPECTRACOOl NARROW HAZARDOUS LOCATION INDOOR/OUTDOOR**



|                                     |  |                                    |
|-------------------------------------|--|------------------------------------|
| NHZ43<br>11000 BTU/Hr.<br>3223 Watt | NHZ36<br>6000/8000 BTU/Hr.<br>1758/2344 Watt | NHZ28<br>4000 BTU/Hr.<br>1172 Watt |
|-------------------------------------|--|------------------------------------|

**FEATURES**

- Engineered specifically for hazardous location cooling. Not rebuilt from light industrial air conditioners
- Attractive design with no heavy cast enclosure and minimal use of visible fasteners
- Does not require purge and pressurized system
- Corrosion resistant coating on ambient side components for Type 4X models
- Corrosion resistant coating on ambient and enclosure side components for Type 4X Offshore models
- Dust resistant coils for filterless operation in most environments
- Cleanable, reusable aluminum mesh filter protects coils for extremely dusty and dirty atmospheres
- Digital temperature control
- Narrow design to accommodate 12-in (300-mm) deep cabinets
- R134a earth-friendly refrigerants
- Models for 115, 230 and 400/460 3-phase VAC power input
- UL Listed to save customers time and money with agency approvals
- Easy-Mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Type 4/4X models include:
  - Active condensate management with heater strip
  - Compressor Heater
  - Head Pressure Control
  - Power-off relay for door switch and other system requirements
  - Malfunction switch

**SPECIFICATIONS**

- Nominal cooling capacities:
  - NHZ28 4000 BTU/hr. (1172 W)
  - NHZ36 6000 & 8000 BTU/hr. (1758 and 2344 W)
  - NHZ43 11000 BTU/hr. (3223 W)
- Outdoor model operating temperature range from -40 F/ -40 C to 131 F/ 55 C (125 F/52 C on NHZ28 Series and NHZ43 Series 115V)

**FINISH**

- Type 4 models RAL 7035 light-gray, semi-textured powder-coat paint
- Type 4X and Offshore models Stainless Steel 316L

**INDUSTRY STANDARDS**

UL/cUL Listed; Type 4; 4X; File No. E469720

CE  
Class 1 Div 2 Groups A, B, C, D T4A

**APPLICATION**

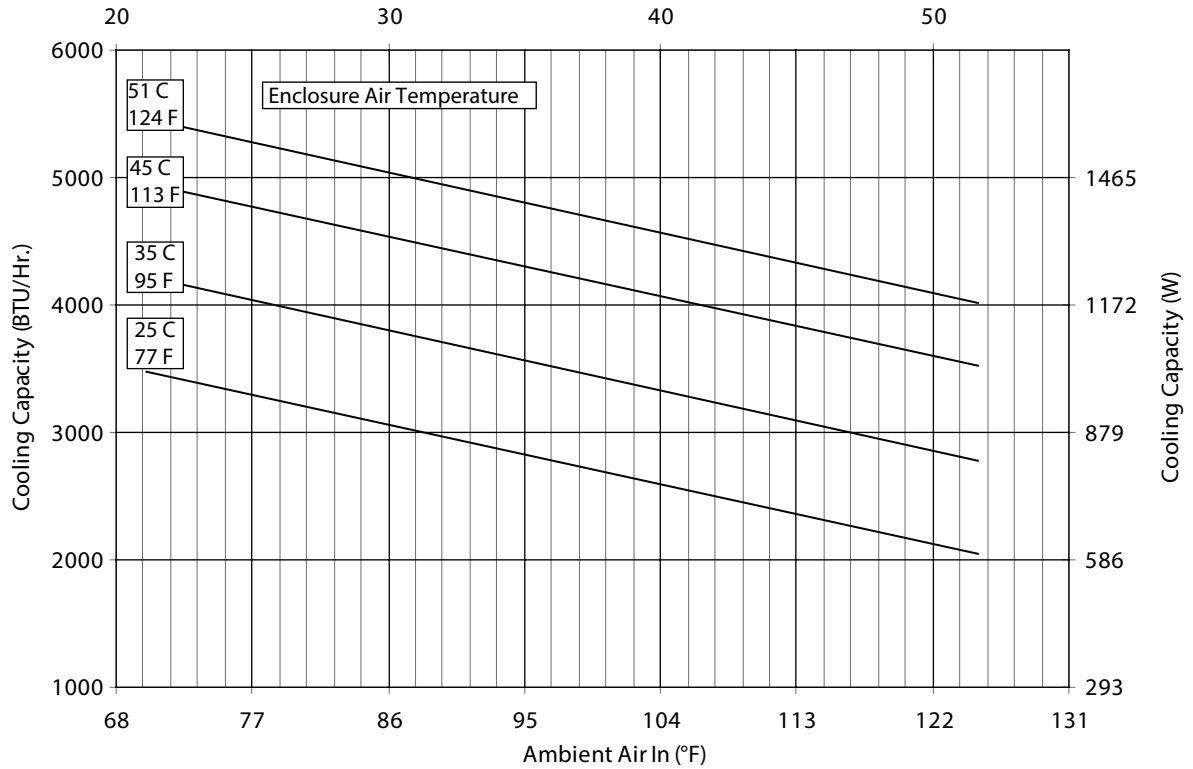
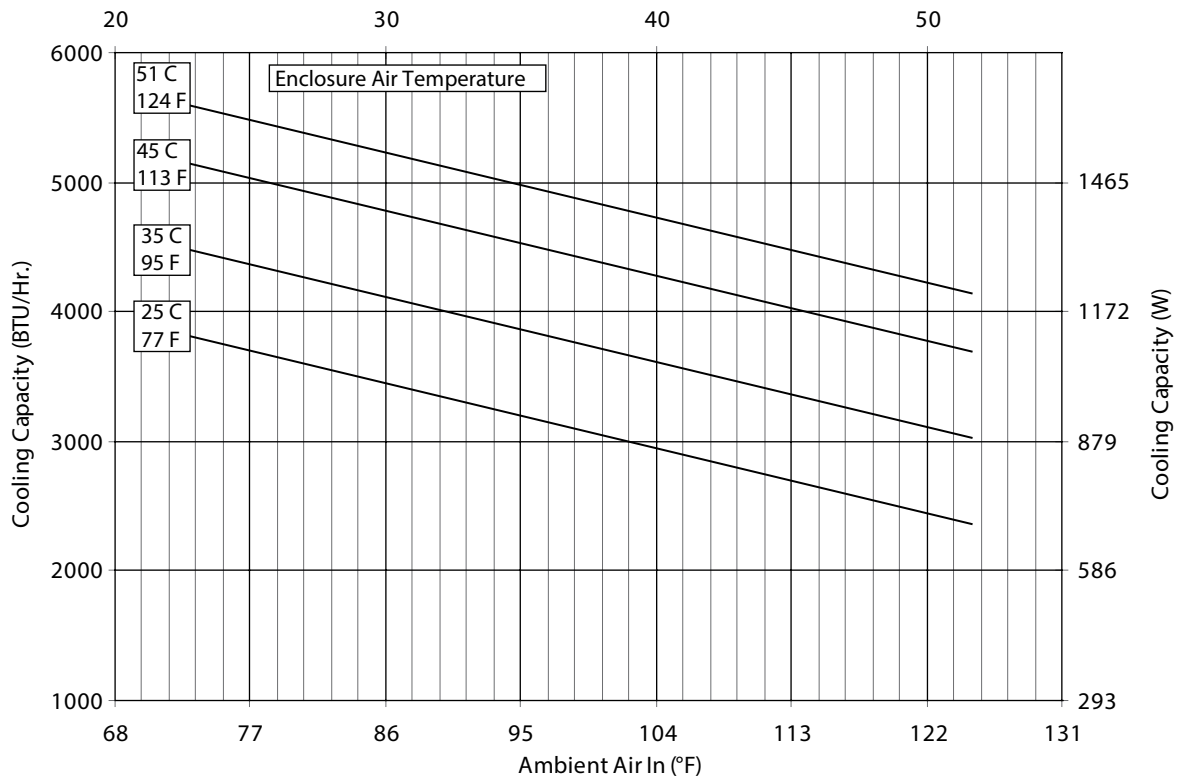
- Onshore and Offshore Oil and Gas
- Chemical and petrochemical
- Mining
- Pharmaceutical
- Any location with potentially hazardous atmospheres created by vapor

Performance Data **NHZ28 4000 BTU/Hr. (1172 Watt)**

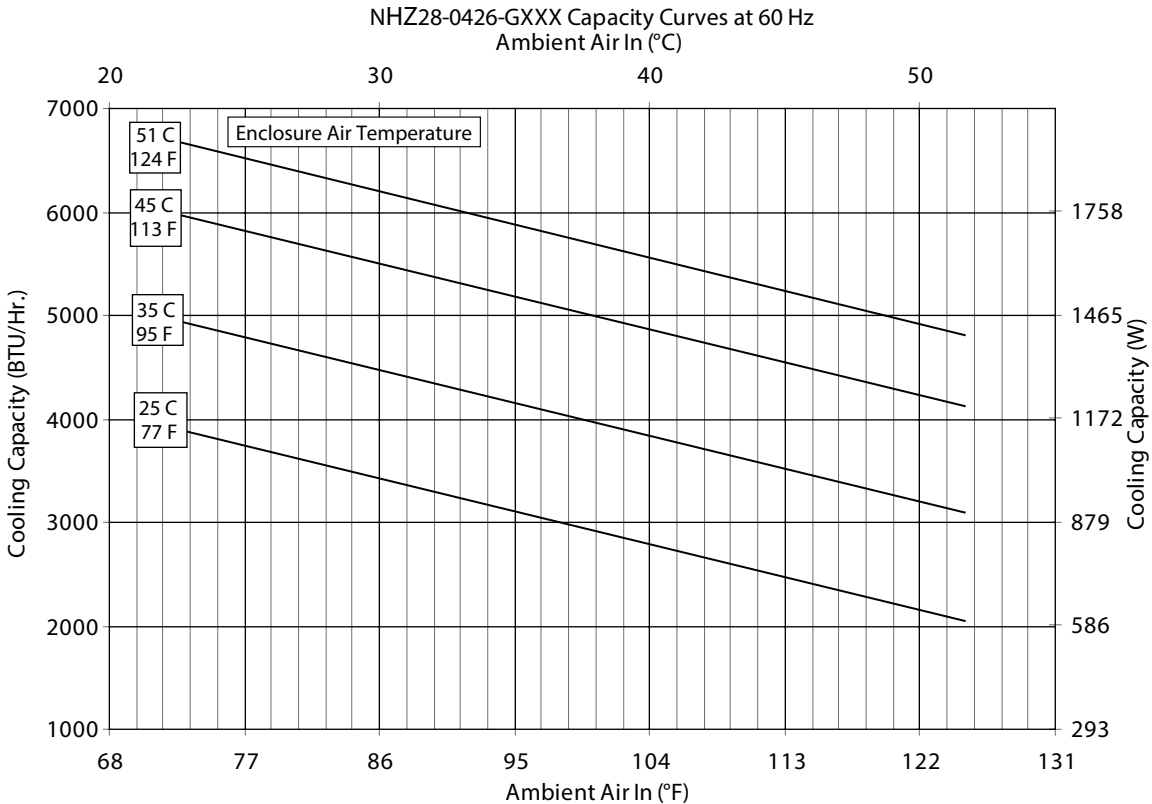
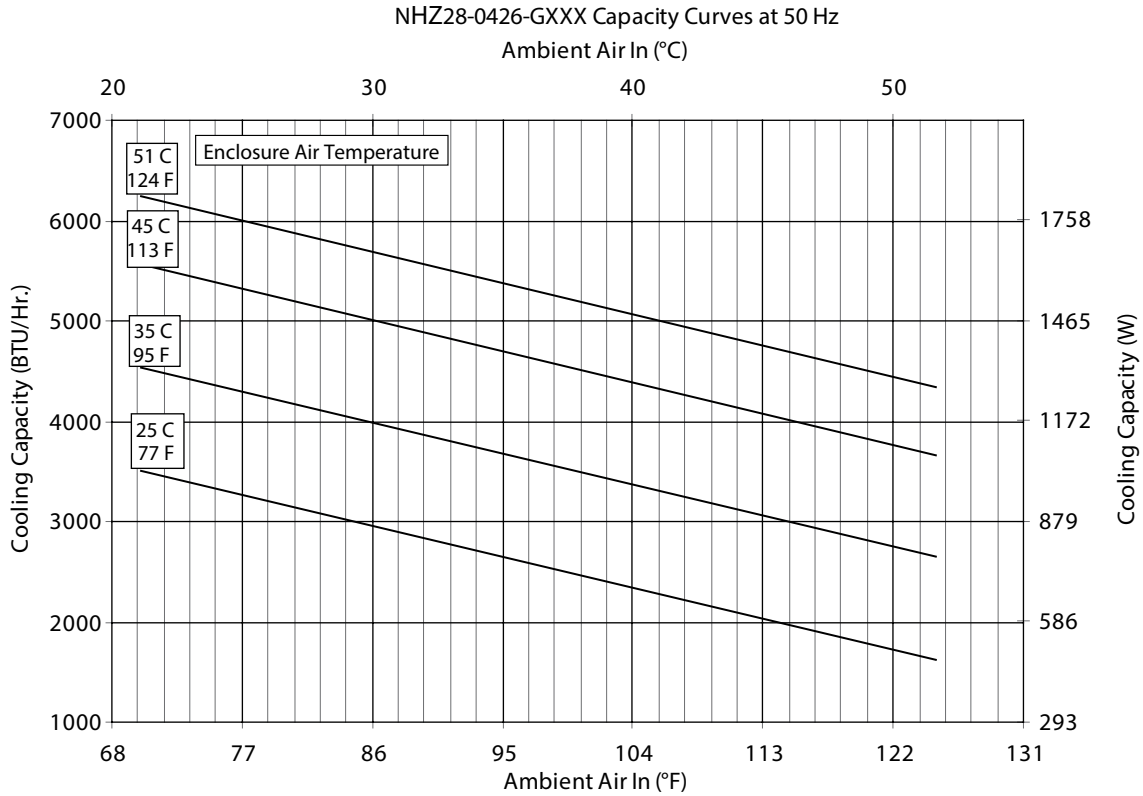
| <b>CATALOG NUMBER</b>                                       |                    |  |                    |
|---|--------------------|--|--------------------|
| Painted Galvanized Steel Type 4                             | NHZ280416G300      | NHZ280426G300  | NHZ280446G300      |
| Painted Galvanized Steel Type 4 with Remote Access Control* | NHZ280416G360      | NHZ280426G360  | NHZ280446G360      |
| Stainless Steel Type 4X                                     | NHZ280416G400      | NHZ280426G400  | NHZ280446G400      |
| Stainless Steel Type 4X with Remote Access Control*         | NHZ280416G460      | NHZ280426G460  | NHZ280446G460      |
| Stainless Steel Type 4X Offshore                            | NHZ280416G500      | NHZ280426G500  | NHZ280446G500      |
| <b>COOLING PERFORMANCE</b>                                  |                    |  |                    |
| <b>Nominal:</b>   |                    |  |                    |
| BTUs/Hr.  | <b>3800 / 4000</b> | <b>3800 / 4000</b>   | <b>3800 / 4000</b> |
| Watts   | <b>1114 / 1172</b> | <b>1114 / 1172</b>   | <b>1114 / 1172</b> |
| <b>At 125 F / 125 F (52 C / 52 C):</b>                      |                    |  |                    |
| BTU/Hr. (50 / 60 Hz)  | 3940 / 4104        | 4269 / 4703  | 4269 / 4703        |
| Watts (50 / 60 Hz)  | 1150 / 1000        | 1250 / 1378  | 1250 / 1378        |
| <b>At 95 F / 95 F (35 C / 35 C):</b>                        |                    |  |                    |
| BTU/Hr. (50 / 60 Hz)  | 3754 / 4011        | 3700 / 4291  | 3700 / 4291        |
| Watts (50 / 60 Hz)  | 1100 / 1175        | 1086 / 1257  | 1086 / 1257        |
| Refrigerant   | R134a              | R134a  | R134a              |
| Refrigerant Charge (ounces/grams)                           | 10 / 283           | 11 / 312   | 11 / 312           |
| <b>Operating Temperature Range:</b>                         |                    |  |                    |
| Maximum (°F / °C)   | 125/52             | 125/52   | 125/52             |
| Minimum (°F / °C)   | -40 / -40          | -40 / -40  | -40 / -40          |
| <b>Air Flow at 0 Static Pressure:</b>                       |                    |  |                    |
| Internal loop 50 Hz (CFM / M <sup>3</sup> /Hr)              | 138 / 234          | N/A  | N/A                |
| External loop 50 Hz (CFM / M <sup>3</sup> /Hr)              | 268 / 455          | N/A  | N/A                |
| Internal loop 60 Hz (CFM / M <sup>3</sup> /Hr)              | 143 / 362          | 143 / 243  | 143 / 243          |
| External loop 60 Hz (CFM / M <sup>3</sup> /Hr)              | 288 / 728          | 288 / 489  | 288 / 489          |
| <b>ELECTRICAL DATA</b>                                      |                    |  |                    |
| Rated Voltage   | <b>110 / 115</b>   | <b>230</b>   | <b>400-460/460</b> |
| Frequency (Hz)  | 50 / 60            | 50 / 60  | 50 / 60            |
| Operating Range   | +/-10%             | +/-10%   | +/-10%             |
| Max. Power Consumption (Watts at 50 / 60 Hz)                | 930 / 1001         | 972 / 1106   | 972 / 1106         |
| Max. Nominal Current (Amps at 50 / 60 Hz)                   | 10.2 / 9.4         | 4.9 / 5.0  | 2.4 / 2.5          |
| Starting Current (Amps)                                     | 40                 | 24.5   | 12.5               |
| Agency Approvals  |                    | cUL Listed<br>CE   |                    |
|   |                    | Others available upon request<br>Terminal Block  |                    |
| Power Input Description                                     |                    | Terminal Block   |                    |
| <b>ENCLOSURE PROTECTION</b>                                 |                    |  |                    |
| UL Type   |                    | Type 4, 4X Standard  |                    |
| <b>CONTROLLER</b>   |                    |  |                    |
| Description   |                    | Digital Controller   |                    |
| Controller Location   |                    | Enclosure Side   |                    |
| Factory Controller Setting (°F / °C)                        |                    | 80 / 27  |                    |
| <b>SOUND LEVEL</b>  |                    |  |                    |
| At 1.5 Meters   | 66.1 dBA           | 65.5 dBA   | 65.5 dBA           |
| <b>UNIT CONSTRUCTION</b>                                    |                    |  |                    |
| Material  |                    | Galvanized Sheet Metal Type 4 Models<br>Stainless steel 316L Type 4X and Offshore Models |                    |
| Finish  |                    | RAL 7035 light-gray, semi-textured powder-coat paint standard<br>Other colors available  |                    |
| <b>UNIT DIMENSIONS</b>                                      |                    |  |                    |
| Height (in / mm)  |                    | 28 / 711.2   |                    |
| Width (in / mm)   |                    | 11.50 / 292.1  |                    |
| Depth (in / mm)   |                    | 14.00 / 355.6  |                    |
| Weight (lb / kg)  | 84/38              | 84/38  | 98/44              |

\*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

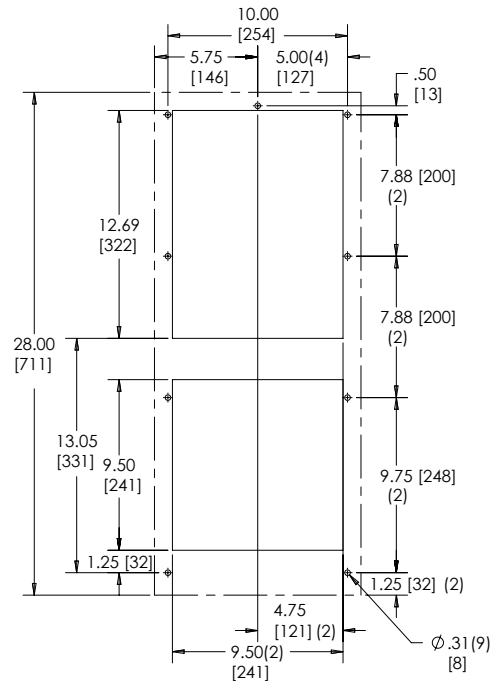
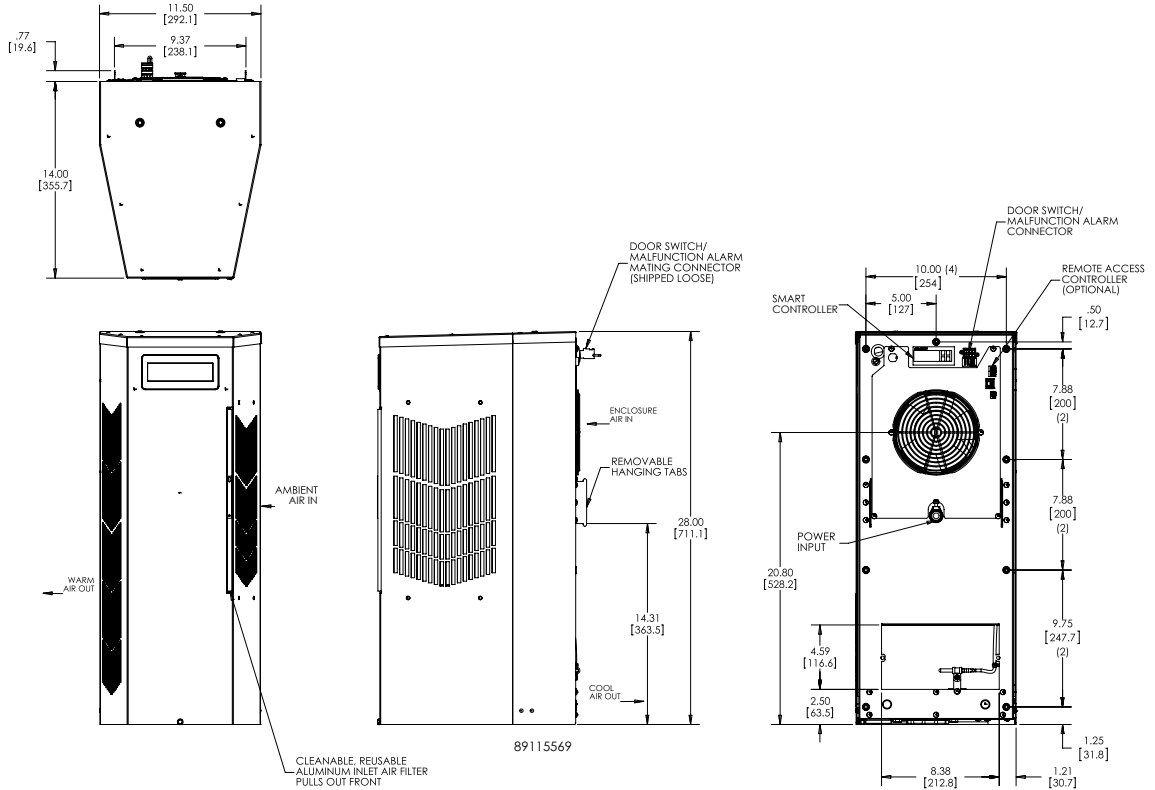
## Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)

 NHZ28-0416-GXXX Capacity Curves at 50 Hz  
 Ambient Air In (°C)

 NHZ28-0416-GXXX Capacity Curves at 60 Hz  
 Ambient Air In (°C)


Performance Curves for NHZ28 Models 4000 BTU/Hr. (1172 Watt)



NHZ28 Models 4000 BTU/Hr. (1172 Watt)



Cutout Dimensions

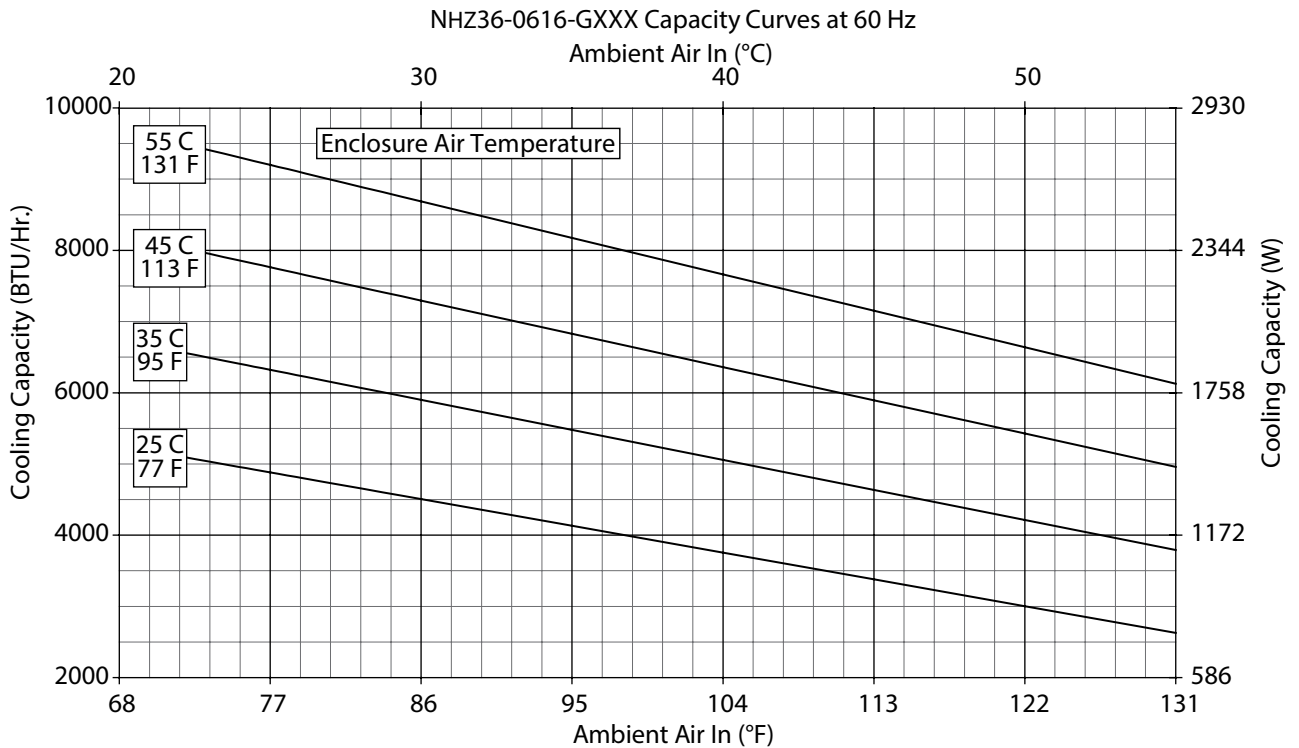
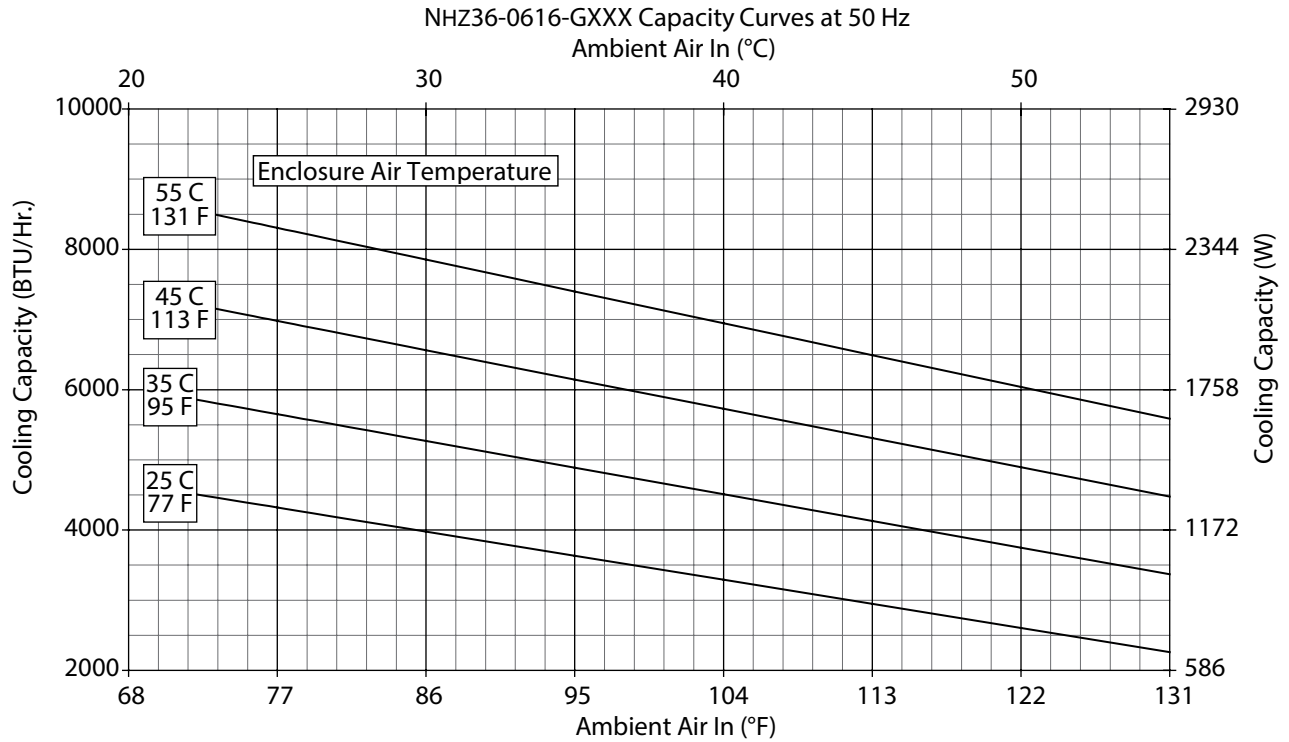
Visit [www.nVent.com/HOFFMAN](http://www.nVent.com/HOFFMAN) to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)**

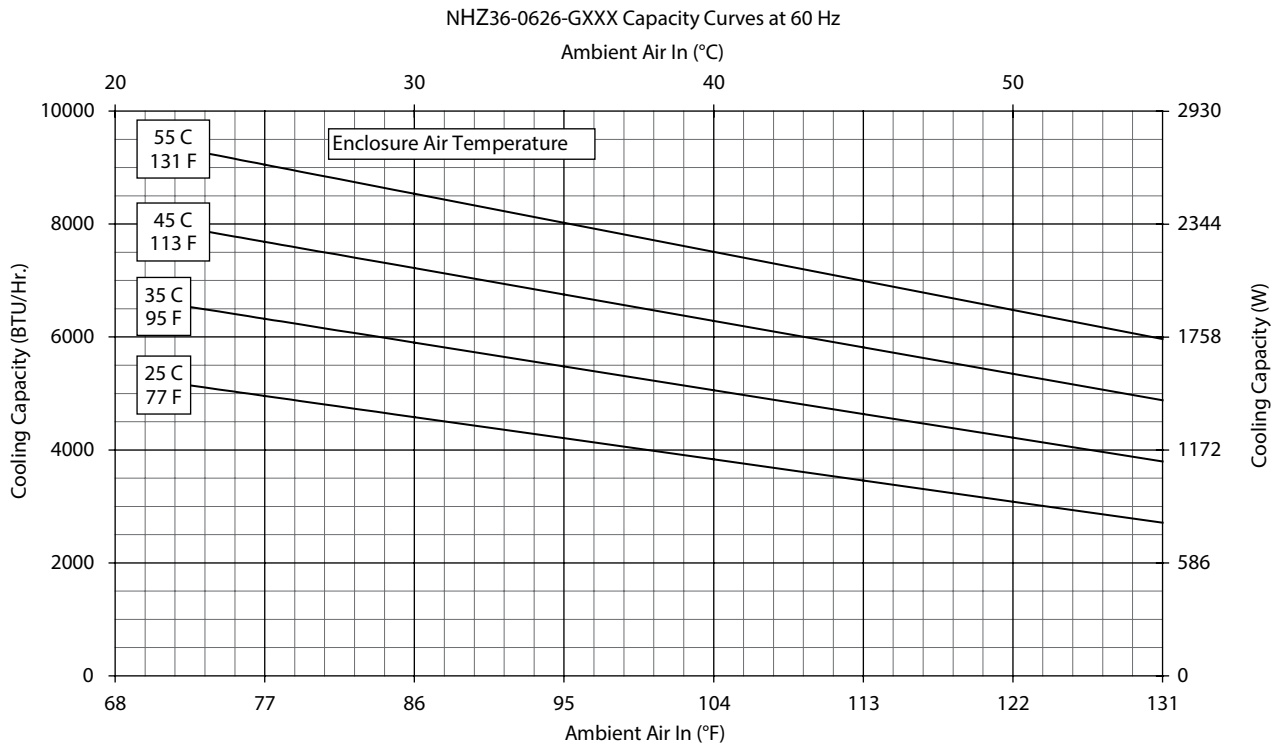
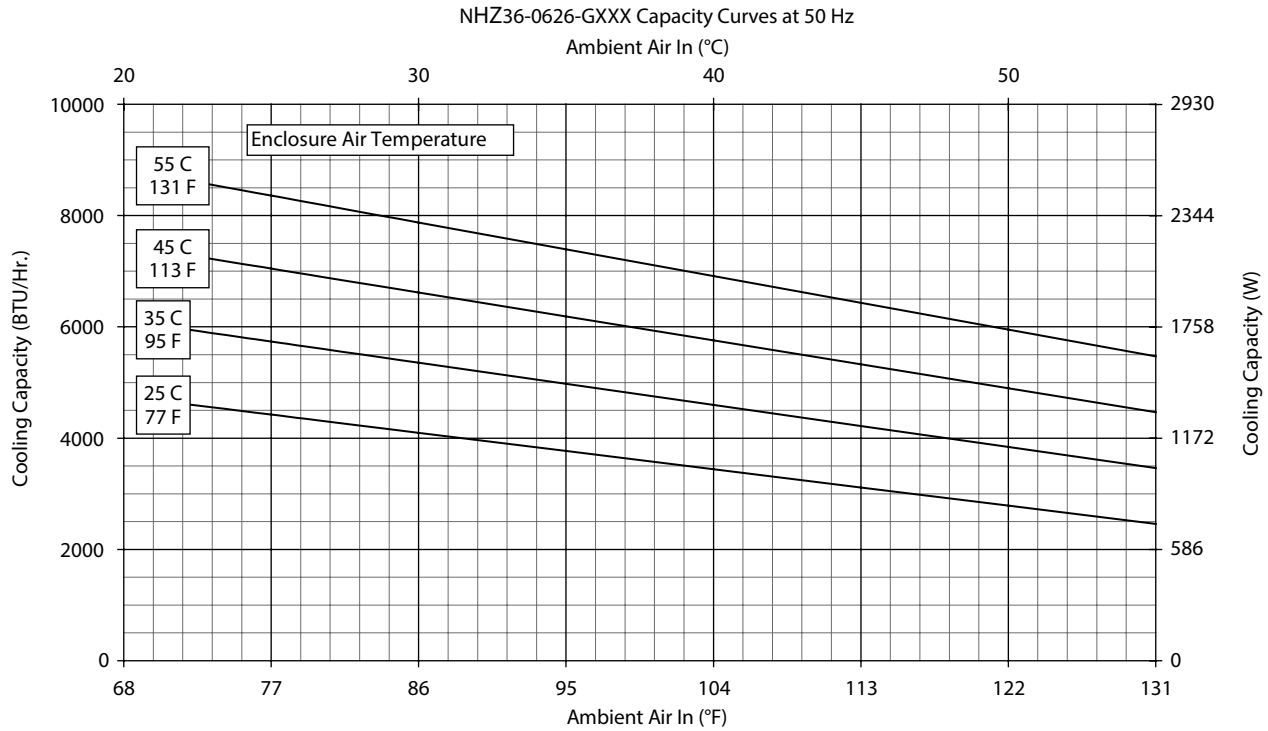
| CATALOG NUMBER  |  |               |               |               |               |               |
|---|--|---------------|---------------|---------------|---------------|---------------|
| Painted Galvanized Steel Type 4                             | NHZ360616G300  | NHZ360626G300 | NHZ360646G300 | NHZ360816G300 | NHZ360826G300 | NHZ360846G300 |
| Painted Galvanized Steel Type 4 with Remote Access Control* | NHZ360616G360  | NHZ360626G360 | NHZ360646G360 | NHZ360816G360 | NHZ360826G360 | NHZ360846G360 |
| Stainless Steel Type 4X                                     | NHZ360616G400  | NHZ360626G400 | NHZ360646G400 | NHZ360816G400 | NHZ360826G400 | NHZ360846G400 |
| Stainless Steel Type 4X with Remote Access Control*         | NHZ360616G460  | NHZ360626G460 | NHZ360646G460 | NHZ360816G460 | NHZ360826G460 | NHZ360846G460 |
| Stainless Steel Type 4X Offshore                            | NHZ360616G500  | NHZ360626G500 | NHZ360646G500 | NHZ360816G500 | NHZ360826G500 | NHZ360846G500 |
| COOLING PERFORMANCE   |  |               |               |               |               |               |
| <b>Nominal:</b>   |  |               |               |               |               |               |
| BTUs/Hr.  | 5400 / 6000  | 5400 / 6000   | 5400 / 6000   | 8250 / 8500   | 8250 / 8500   | 8250 / 8500   |
| Watts   | 1581 / 1757  | 1581 / 1757   | 1581 / 1757   | 2416 / 2489   | 2416 / 2489   | 2416 / 2489   |
| <b>At 131 F / 131 F (55 C / 55 C):</b>                      |  |               |               |               |               |               |
| BTU/Hr. (50 / 60 Hz)  | 5585 / 6180  | 5469 / 5965   | 5300 / 6089   | 8213 / 8453   | 7874 / 8063   | 7311 / 7940   |
| Watts (50 / 60 Hz)  | 1637 / 1811  | 1603 / 1748   | 1553 / 1785   | 2405 / 2475   | 2306 / 2361   | 2143 / 2327   |
| <b>At 95 F / 95 F (35 C / 35 C):</b>                        |  |               |               |               |               |               |
| BTU/Hr. (50 / 60 Hz)  | 4909 / 5485  | 5159 / 5621   | 5572 / 6026   | 7028 / 7626   | 6660 / 7411   | 6448 / 6716   |
| Watts (50 / 60 Hz)  | 1439 / 1607  | 1512 / 1647   | 1633 / 1766   | 2058 / 2233   | 1950 / 2170   | 1890 / 1968   |
| Refrigerant   | R134a  | R134a         | R134a         | R134a         | R134a         | R134a         |
| Refrigerant Charge (ounces/grams)                           | 20 / 567   | 22 / 624      | 16 / 454      | 36 / 1021     | 36 / 1021     | 33 / 936      |
| <b>Operating Temperature Range:</b>                         |  |               |               |               |               |               |
| Maximum (°F / °C)   | 131 / 55   | 131 / 55      | 131 / 55      | 131 / 55      | 131 / 55      | 131 / 55      |
| Minimum (°F / °C)   | -40 / -40  | -40 / -40     | -40 / -40     | -40 / -40     | -40 / -40     | -40 / -40     |
| <b>Air Flow at 0 Static Pressure:</b>                       |  |               |               |               |               |               |
| Internal loop 50 Hz (CFM / M <sup>3</sup> /Hr)              | 251 / 426  | 250 / 425     | 250 / 425     | 250 / 425     | 245 / 416     | 243 / 413     |
| External loop 50 Hz (CFM / M <sup>3</sup> /Hr)              | 284 / 483  | 338 / 574     | 338 / 574     | 313 / 532     | 347 / 589     | 365 / 620     |
| Internal loop 60 Hz (CFM / M <sup>3</sup> /Hr)              | 261 / 443  | 261 / 443     | 261 / 443     | 263 / 447     | 258 / 439     | 254 / 432     |
| External loop 60 Hz (CFM / M <sup>3</sup> /Hr)              | 311 / 528  | 356 / 605     | 356 / 605     | 338 / 574     | 382 / 648     | 394 / 669     |
| ELECTRICAL DATA   |  |               |               |               |               |               |
| Rated Voltage   | 115  | 230           | 400 / 460 3~  | 115           | 230           | 400 / 460 3~  |
| Frequency (Hz)  | 50 / 60  | 50 / 60       | 50 / 60       | 50 / 60       | 50 / 60       | 50 / 60       |
| Operating Range   | +/-10%   | +/-10%        | +/-10%        | +/-10%        | +/-10%        | +/-10%        |
| Max. Power Consumption (Watts at 50 / 60 Hz)                | 911 / 1108   | 908 / 1073    | 691 / 783     | 1206 / 1422   | 1265 / 1403   | 1327 / 1647   |
| Max. Nominal Current (Amps at 50 / 60 Hz)                   | 9.1 / 10.1   | 4.5 / 4.7     | 1.7 / 1.8     | 11.2 / 12.4   | 5.5/6.2       | 3.0 / 3.3     |
| Starting Current (Amps)                                     | 39.2   | 23            | 8.1           | 48.3          | 27            | 16            |
| Agency Approvals  | cUL Listed<br>CE<br>Others available upon request  |               |               |               |               |               |
| Power Input Description                                     | Terminal Block   |               |               |               |               |               |
| ENCLOSURE PROTECTION  |  |               |               |               |               |               |
| UL Type   | Type 4, 4X Standard  |               |               |               |               |               |
| CONTROLLER  |  |               |               |               |               |               |
| Description   | Digital Controller   |               |               |               |               |               |
| Controller Location   | Enclosure Side   |               |               |               |               |               |
| Factory Controller Setting (°F / °C)                        | 80 / 27  |               |               |               |               |               |
| SOUND LEVEL   |  |               |               |               |               |               |
| At 1.5 Meters   | 66.9 dBA   | 66.7 dBA      | 68.2 dBA      | 66.0 dBA      | 66.0 dBA      | 66.0 dBA      |
| UNIT CONSTRUCTION   |  |               |               |               |               |               |
| Material  | Galvanized Sheet Metal Type 4 Models<br>Stainless steel 316L Type 4X and Offshore Models |               |               |               |               |               |
| Finish  | RAL 7035 light-gray, semi-textured powder-coat paint standard<br>Other colors available  |               |               |               |               |               |
| UNIT DIMENSIONS   |  |               |               |               |               |               |
| Height (in / mm)  | 36.00 / 914.4  |               |               |               |               |               |
| Width (in / mm)   | 11.50 / 292.1  |               |               |               |               |               |
| Depth (in / mm)   | 14.00 / 355.6  |               |               |               |               |               |
| Weight (lb / kg)  | 100 / 45   | 100 / 45      | 104 / 47      | 106 / 48      | 106 / 48      | 114 / 52      |

\*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)

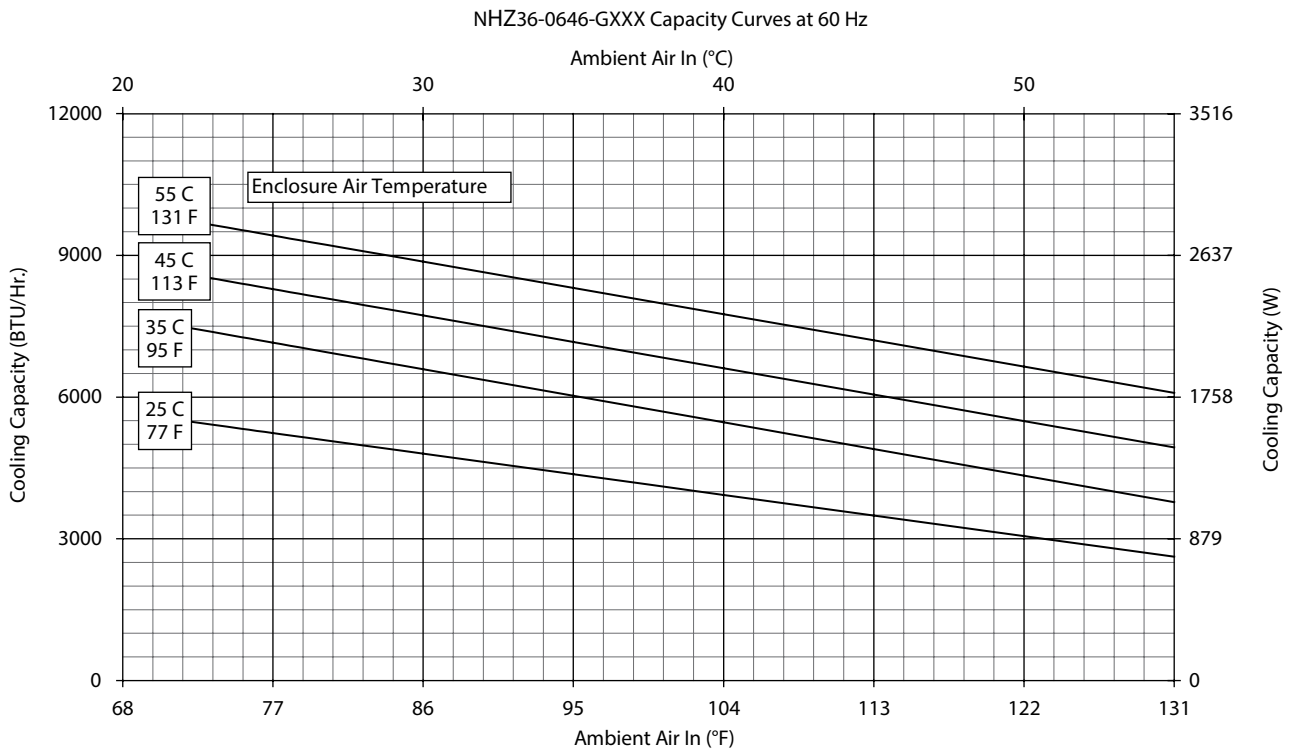
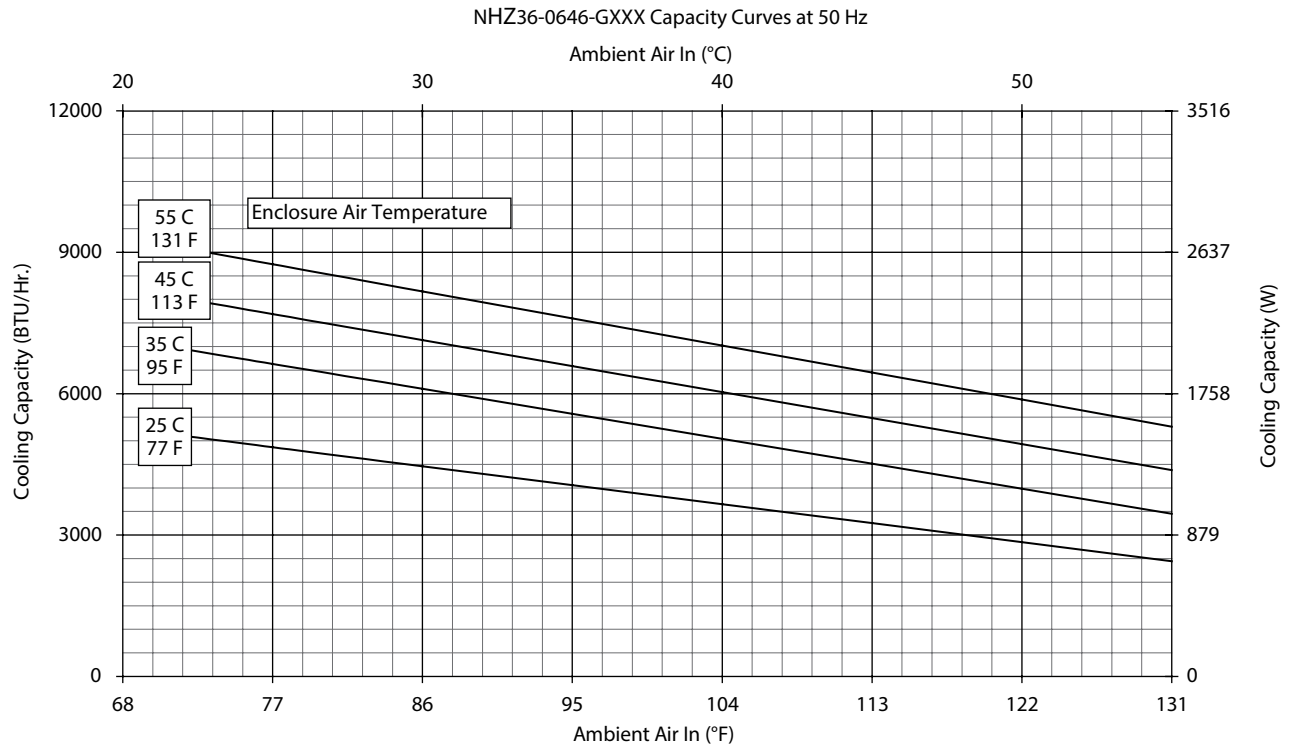


Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)

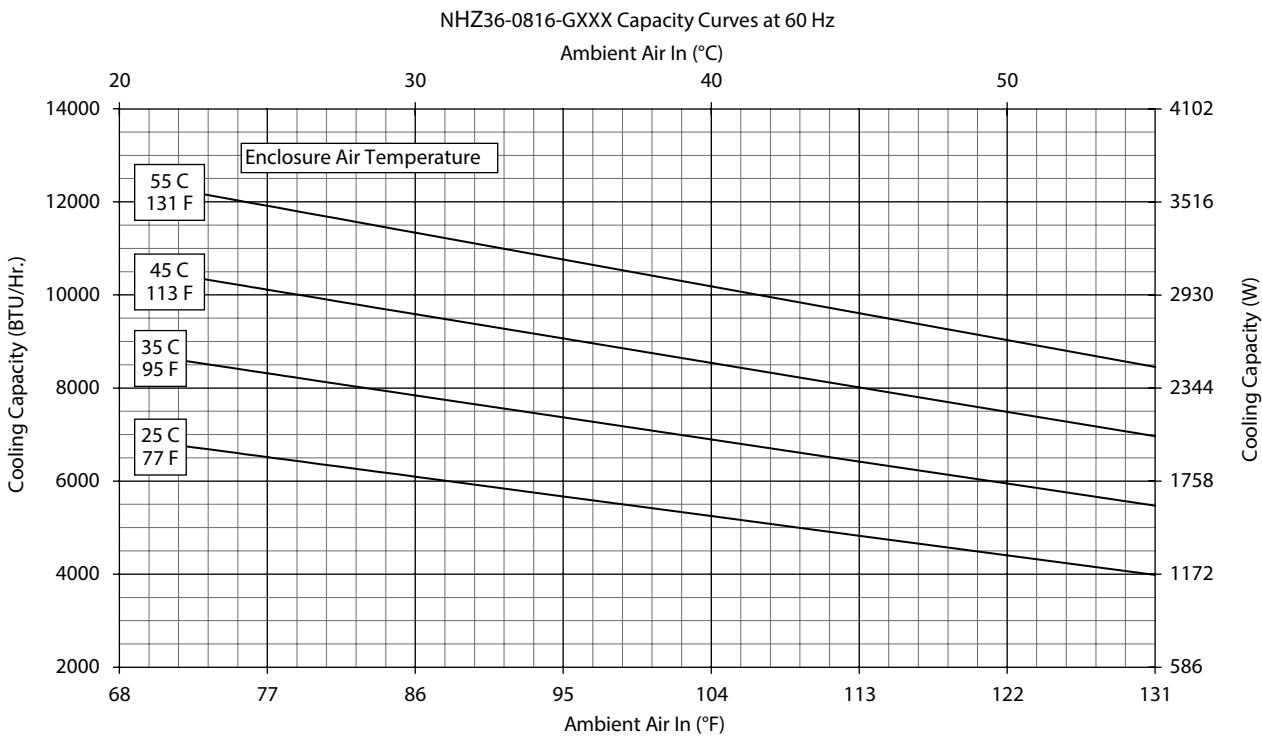
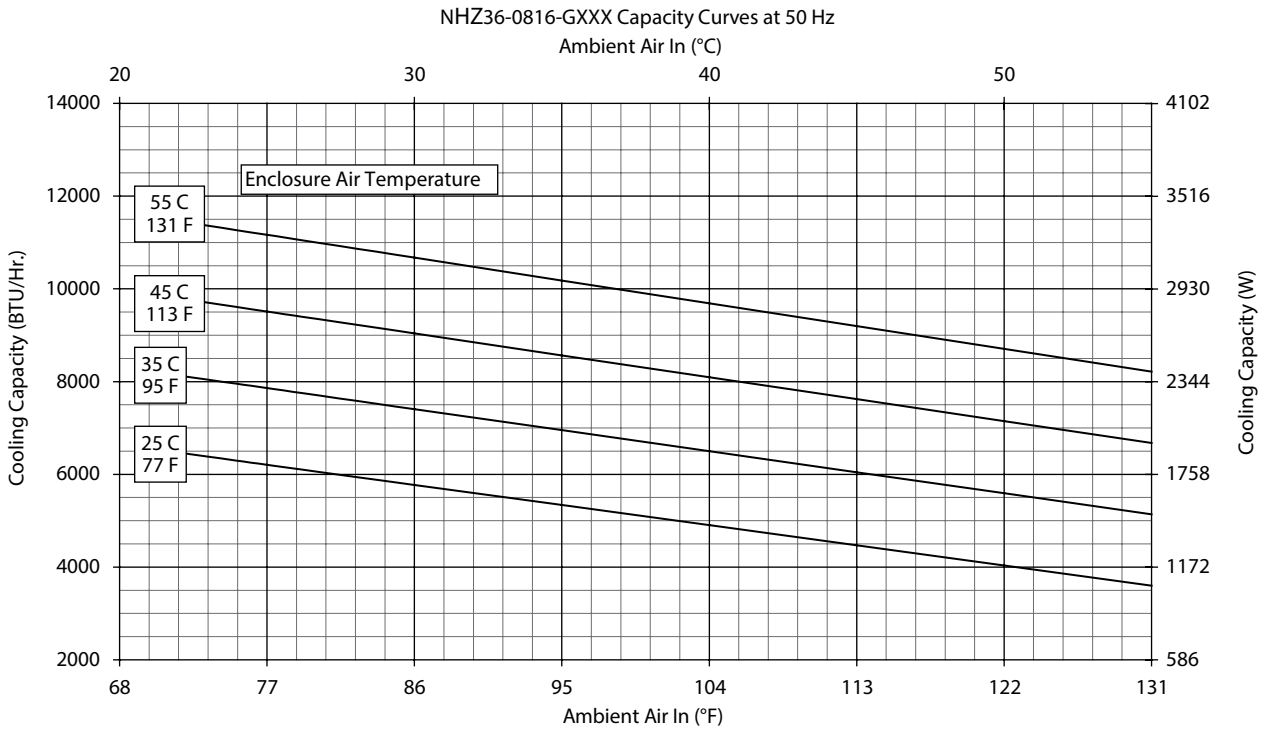




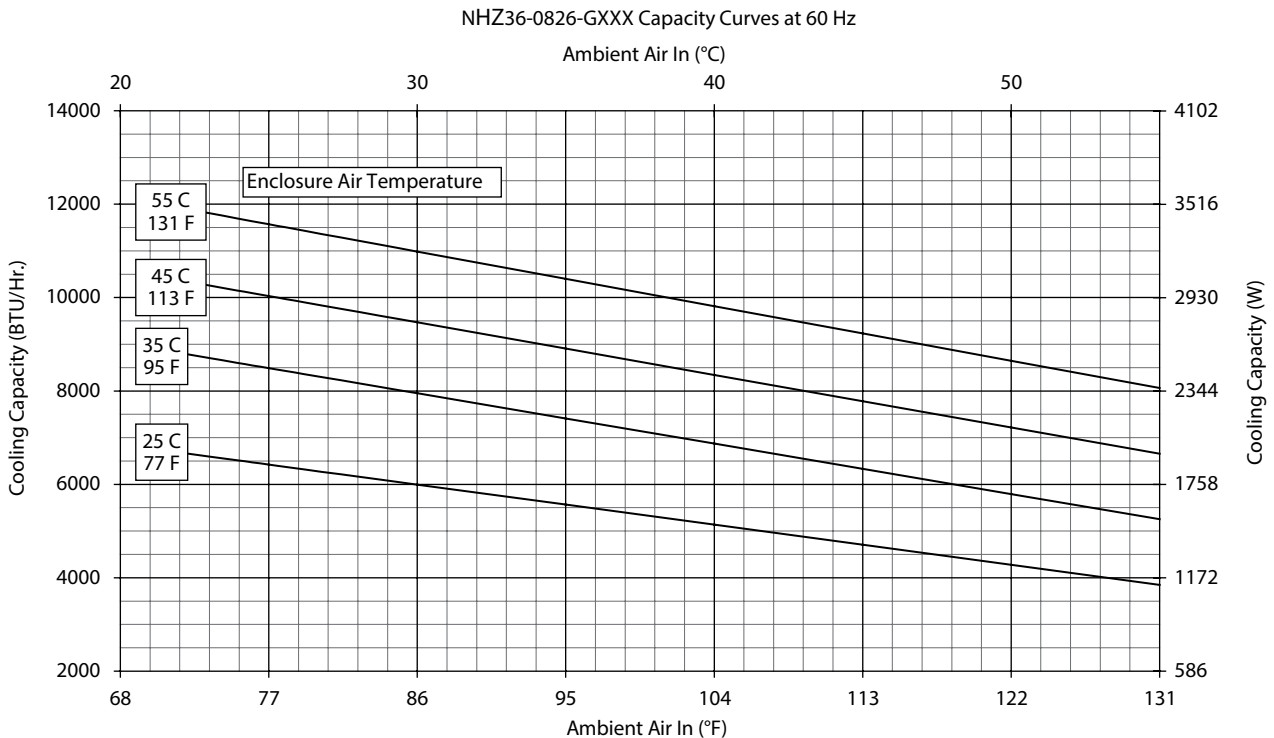
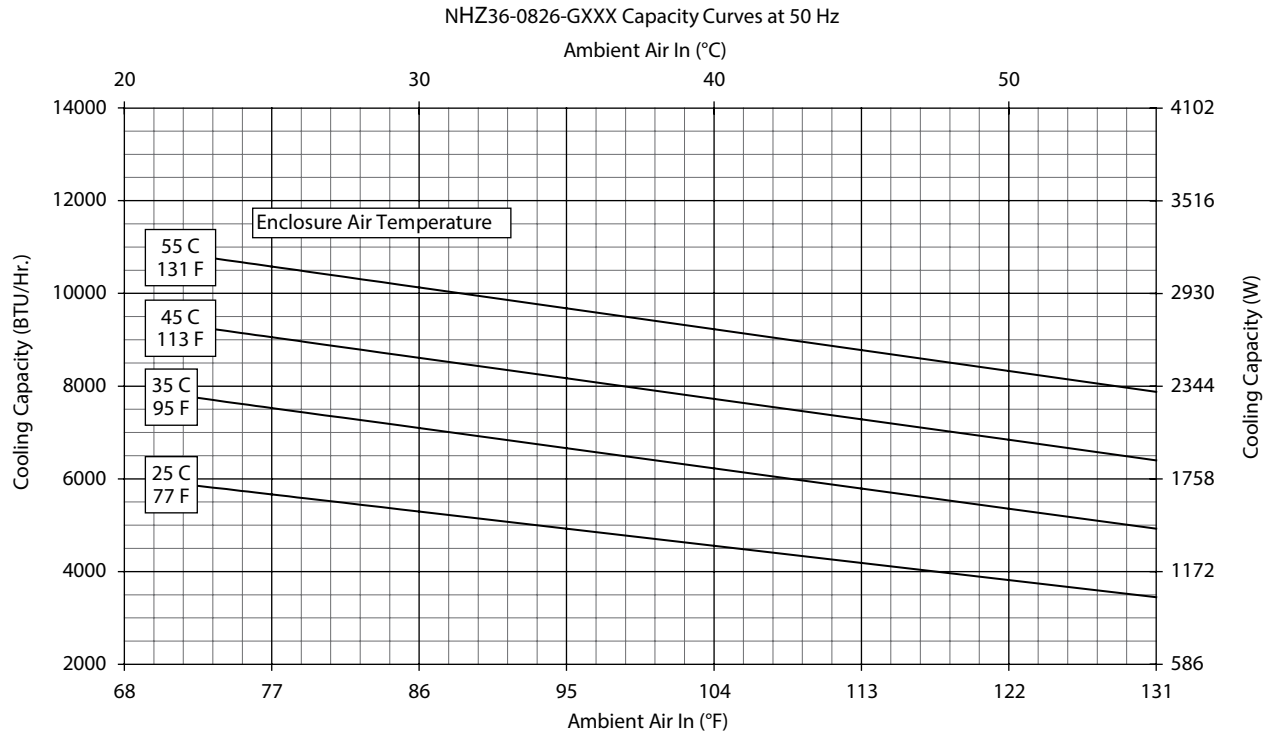
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)



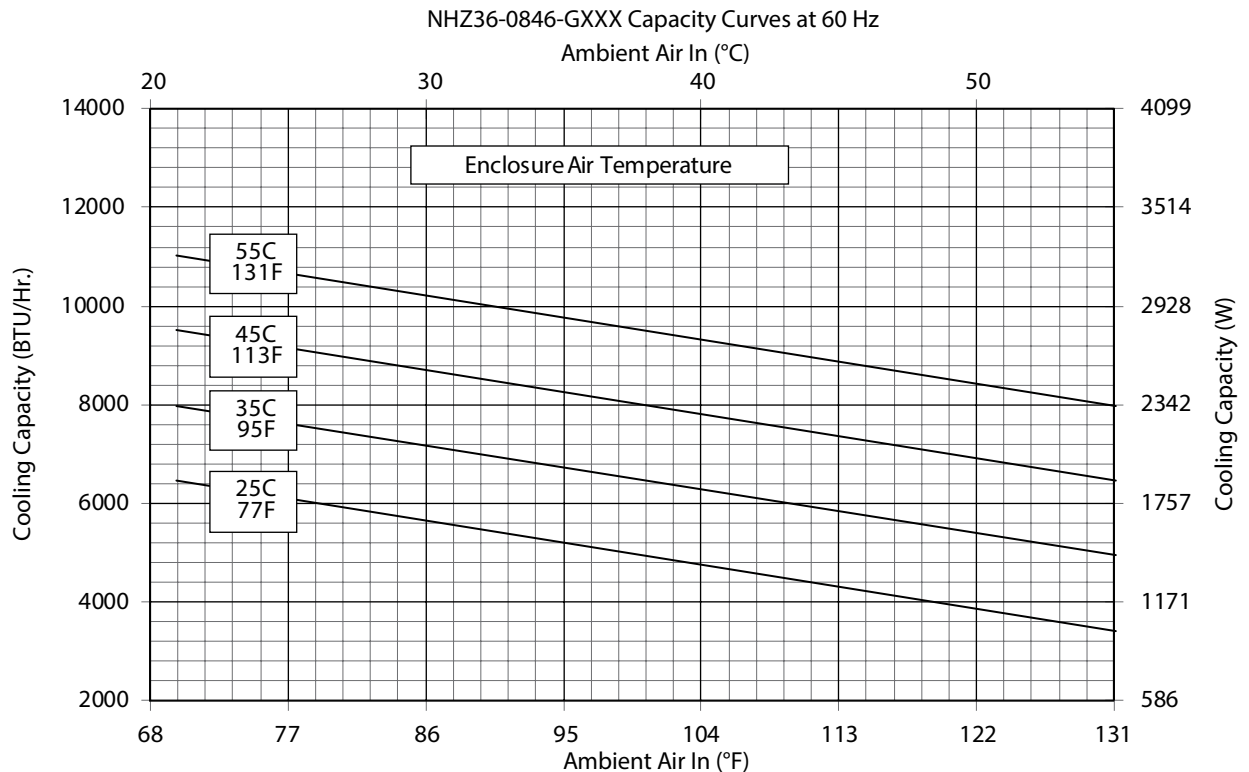
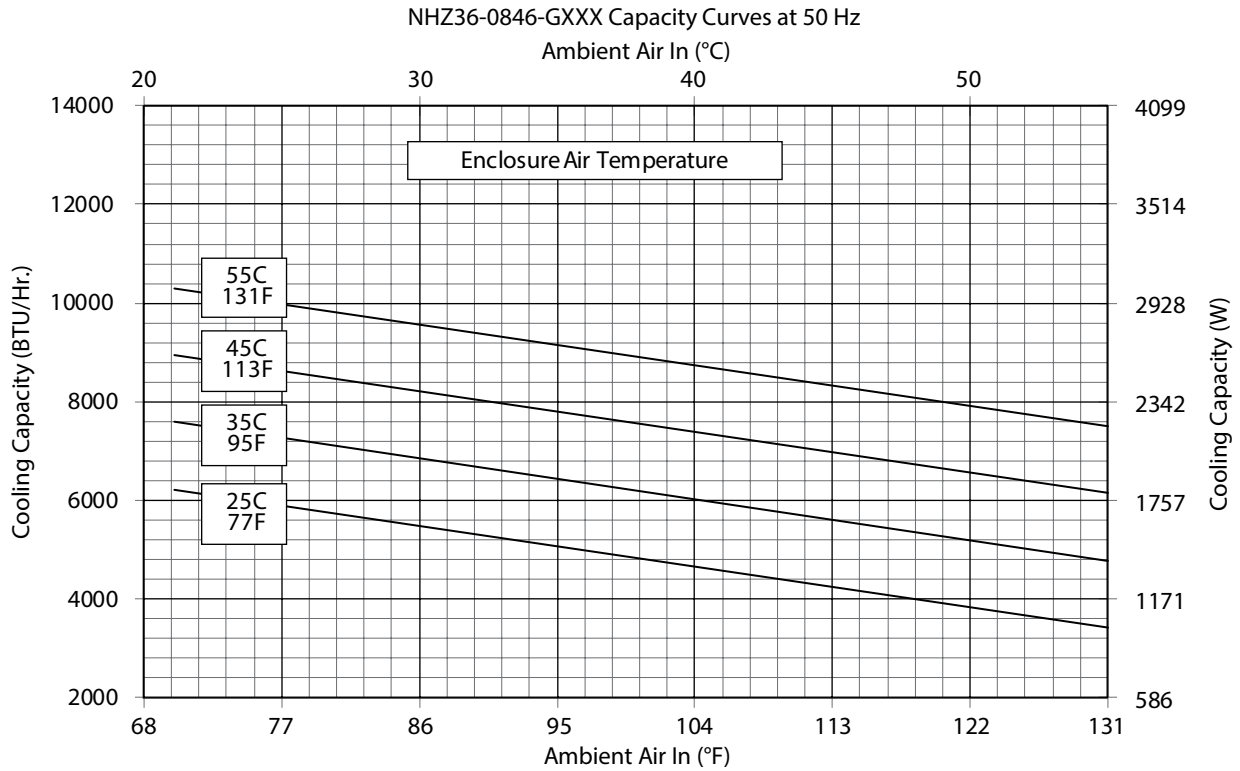
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



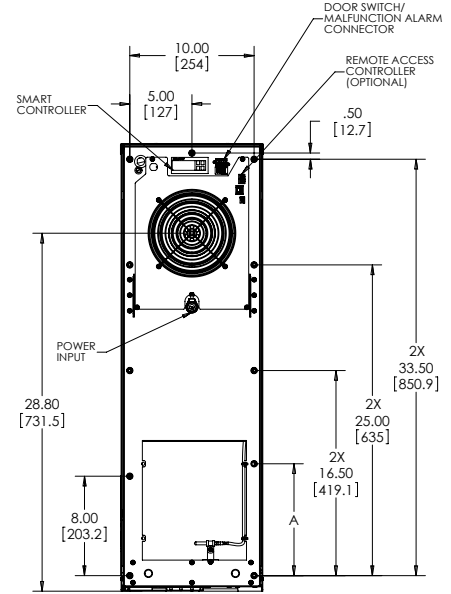
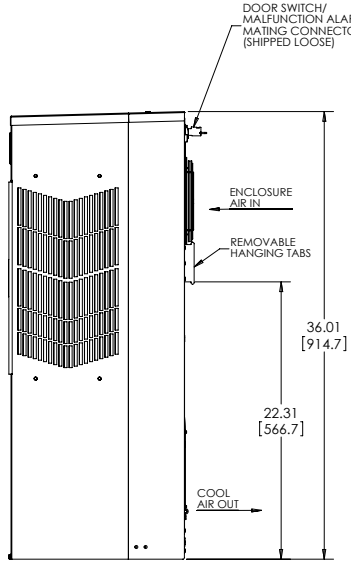
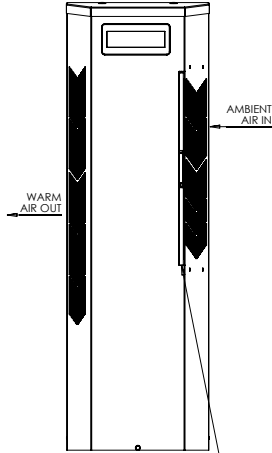
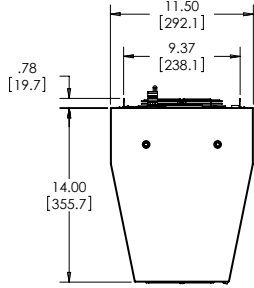
## Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



Performance Curves for NHZ36 Models 8000 BTU/Hr. (2384 Watt)

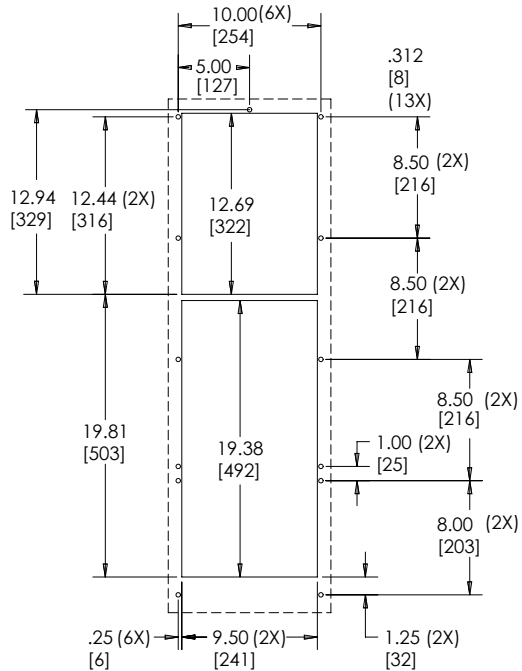
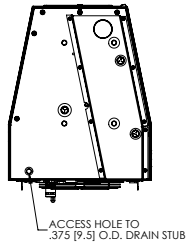


NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)



CLEANABLE, REUSABLE ALUMINUM INLET AIR FILTER PULLS OUT FRONT

89115570



Cutout Dimensions

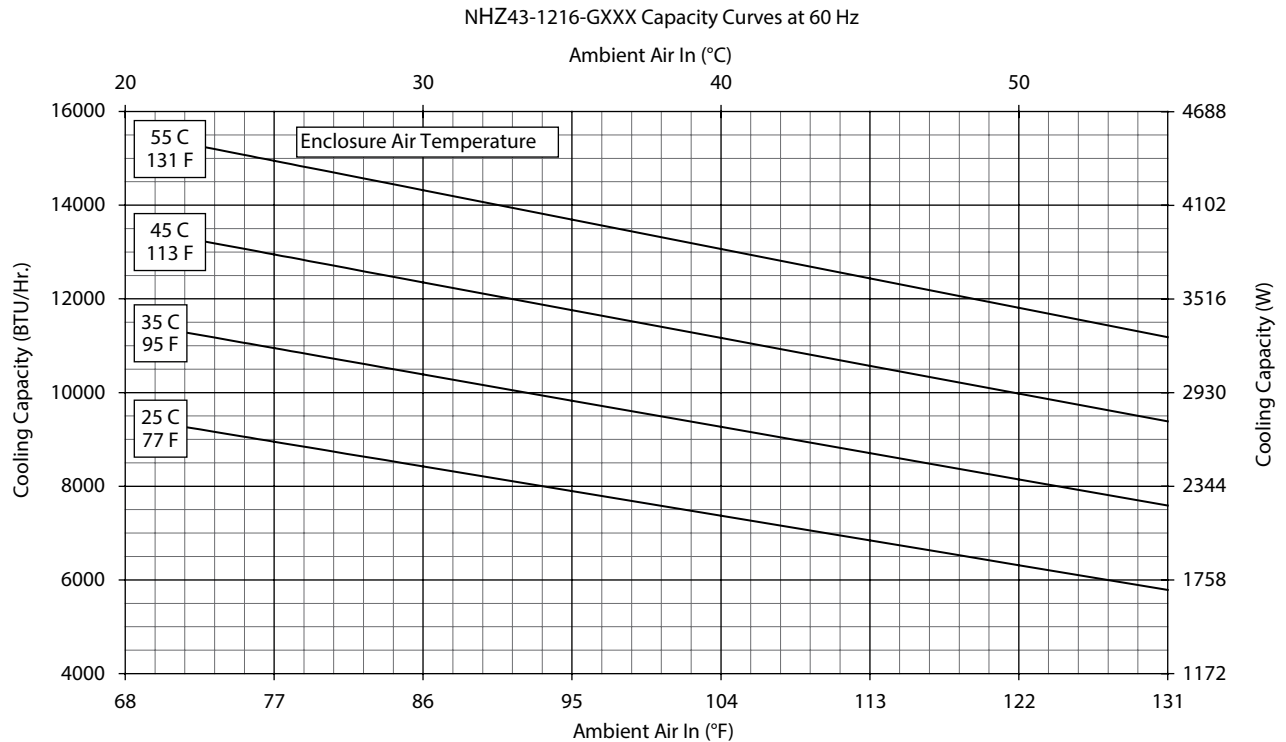
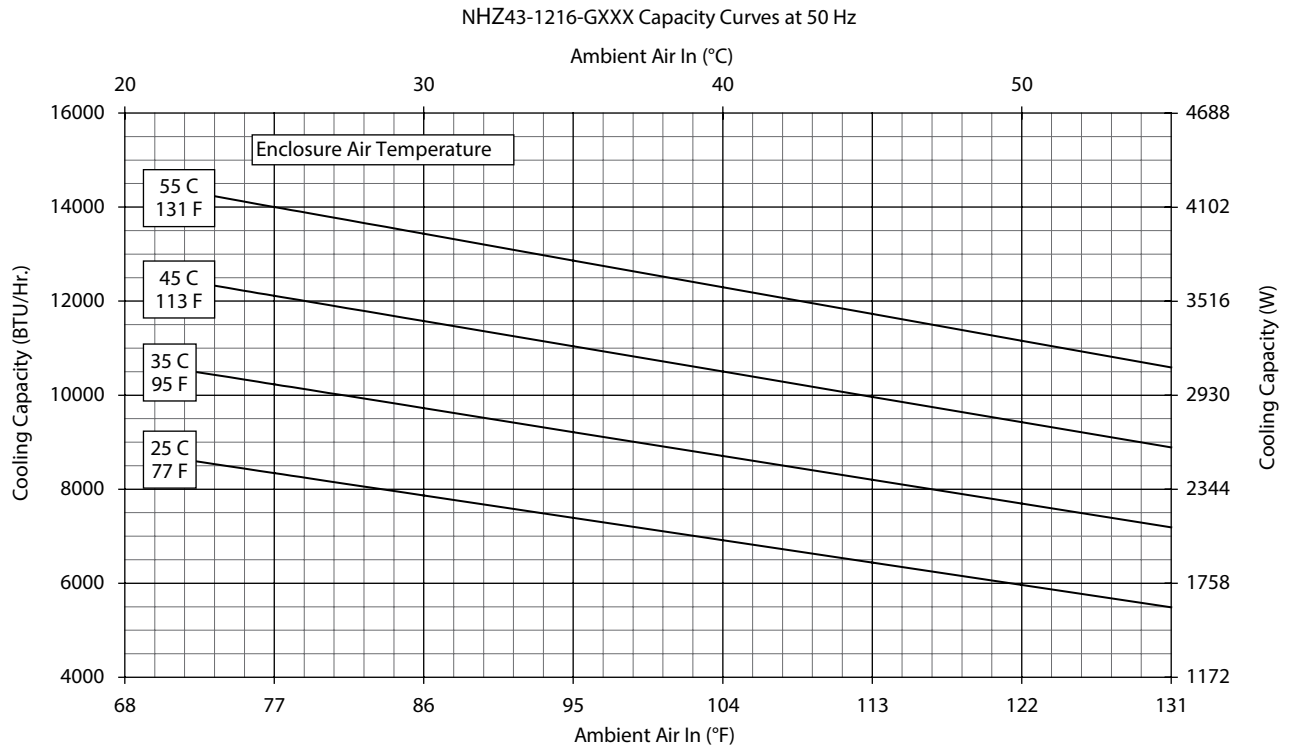
Visit [www.nVent.com/HOFFMAN](http://www.nVent.com/HOFFMAN) to download 2D and 3D CAD drawings into the overall design of your electrical system.

Performance Data **NHZ43 11000 BTU/Hr. (3223 Watt)**

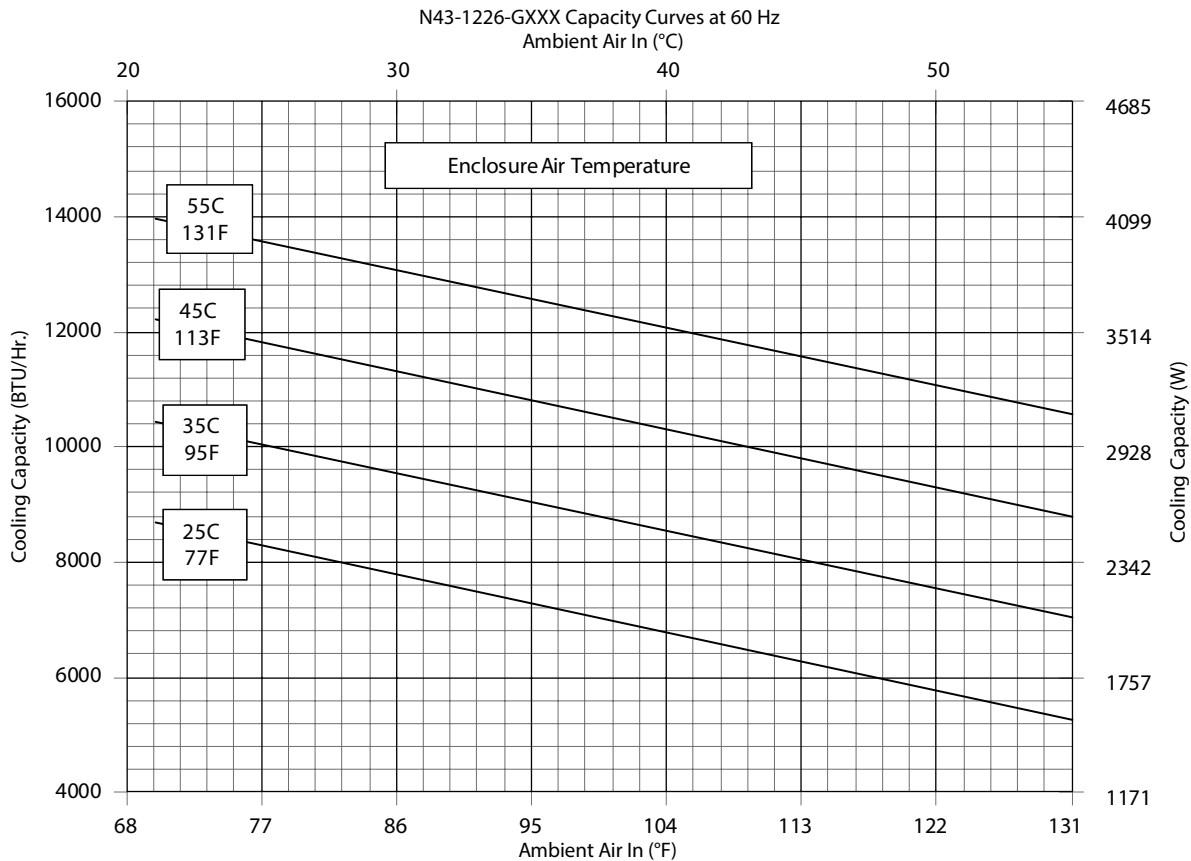
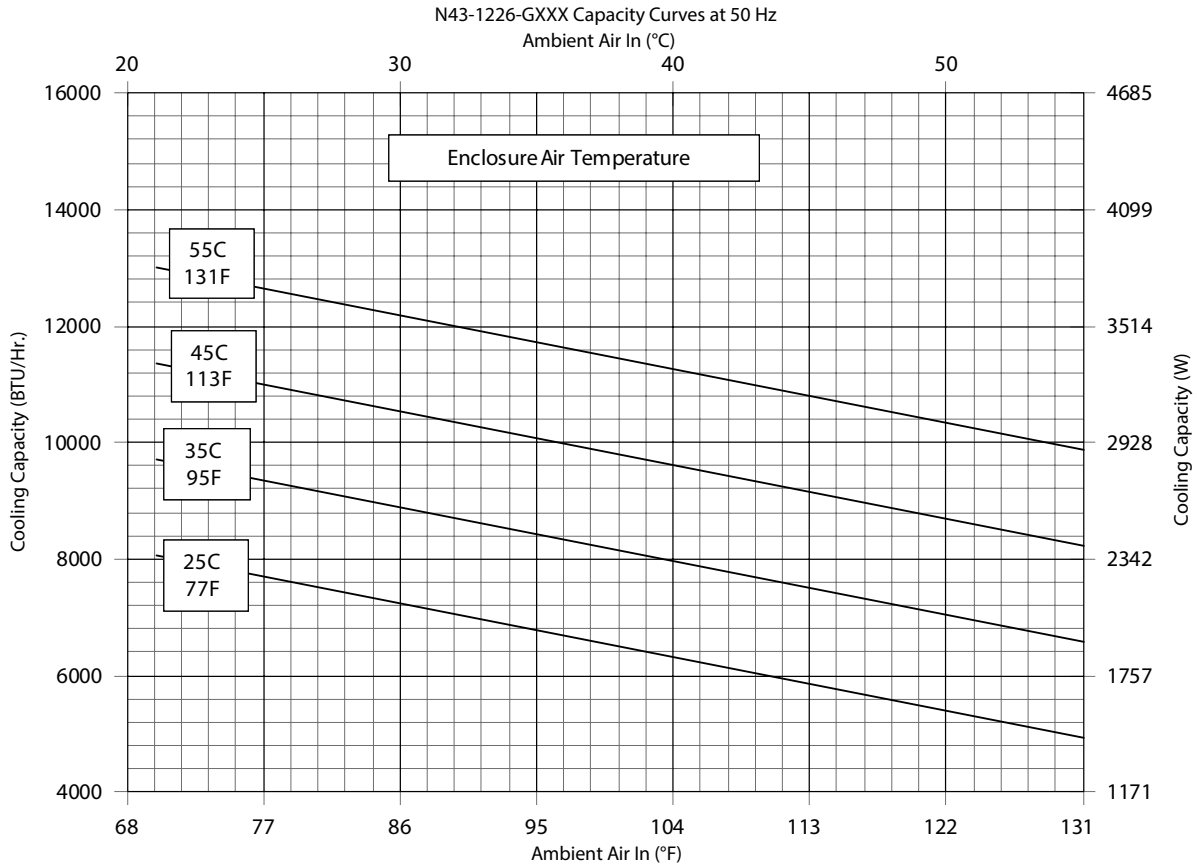
| CATALOG NUMBER  |               |  |               |
|---|---------------|--|---------------|
| Painted Galvanized Steel Type 4                             | NHZ431216G300 | NHZ431226G300  | NHZ431246G300 |
| Painted Galvanized Steel Type 4 with Remote Access Control* | NHZ431216G360 | NHZ431226G360  | NHZ431246G360 |
| Stainless Steel Type 4X                                     | NHZ431216G400 | NHZ431226G400  | NHZ431246G400 |
| Stainless Steel Type 4X with Remote Access Control*         | NHZ431216G460 | NHZ431226G460  | NHZ431246G460 |
| Stainless Steel Type 4X Offshore                            | NHZ431216G500 | NHZ431226G500  | NHZ431246G500 |
| COOLING PERFORMANCE   |               |  |               |
| <b>Nominal:</b>   |               |  |               |
| BTUs/Hr.  | 10400 / 11000 | 10400 / 11000  | 10400 / 11000 |
| Watts   | 3047 / 3223   | 2900 / 3223  | 2900 / 3223   |
| At 131 F / 131 F (55 C / 55 C):                             |               |  |               |
| BTU/Hr. (50 / 60 Hz)  | 10588 / 11180 | 9664/10420   | 10864/11756   |
| Watts (50 / 60 Hz)  | 3103 / 3277   | 2832/3054  | 3184/3445     |
| At 95 F / 95 F (35 C / 35 C):                               |               |  |               |
| BTU/Hr. (50 / 60 Hz)  | 9475 / 10023  | 8713/9232  | 9384/10474    |
| Watts (50 / 60 Hz)  | 2777 / 2937   | 2554/2706  | 2750/3069     |
| Refrigerant   | R134a         | R134a  | R134a         |
| Refrigerant Charge (ounces/grams)                           | 36 / 1021     | 39/1106  | 43/1219       |
| Operating Temperature Range:                                |               |  |               |
| Maximum (°F / °C)   | 125 / 52      | 131 / 55   | 131 / 55      |
| Minimum (°F / °C)   | -40 / -40     | -40 / -40  | -40 / -40     |
| Air Flow at 0 Static Pressure:                              |               |  |               |
| Internal loop 50 Hz (CFM / M <sup>3</sup> /Hr)              | 239 / 406     | 259 / 440  | 254 / 432     |
| External loop 50 Hz (CFM / M <sup>3</sup> /Hr)              | 494 / 839     | 489 / 831  | 341 / 579     |
| Internal loop 60 Hz (CFM / M <sup>3</sup> /Hr)              | 250 / 425     | 267 / 454  | 260 / 442     |
| External loop 60 Hz (CFM / M <sup>3</sup> /Hr)              | 528 / 897     | 525 / 892  | 564 / 958     |
| ELECTRICAL DATA   |               |  |               |
| Rated Voltage   | 115           | 230  | 400 / 460 3~  |
| Frequency (Hz)  | 50 / 60       | 50 / 60  | 50 / 60       |
| Operating Range   | +/-10%        | +/-10%   | +/-10%        |
| Max. Power Consumption (Watts at 50 / 60 Hz)                | 1620 / 2061   | 1762 / 2226  | 1678/2107     |
| Max. Nominal Current (Amps at 50 / 60 Hz)                   | 15.1 / 18.2   | 7.9 / 10.2   | 3.4/3.6       |
| Starting Current (Amps)                                     | 57            | 30/28  | 20/18         |
| Agency Approvals  |               | cUL Listed<br>CE   |               |
|   |               | Others available upon request  |               |
| Power Input Description                                     |               | Terminal Block   |               |
| ENCLOSURE PROTECTION  |               |  |               |
| UL Type   |               | Type 4, 4X Standard  |               |
| CONTROLLER  |               |  |               |
| Description   |               | Digital Controller   |               |
| Controller Location   |               | Enclosure Side   |               |
| Factory Controller Setting (°F / °C)                        |               | 80 / 27  |               |
| SOUND LEVEL   |               |  |               |
| At 1.5 Meters   | 68.4 dBA      | 68.4 dBA   | 69.6 dBA      |
| UNIT CONSTRUCTION   |               |  |               |
| Material  |               | Galvanized Sheet Metal Type 4 Models<br>Stainless steel 316L Type 4X and Offshore Models |               |
| Finish  |               | RAL 7035 light-gray, semi-textured powder-coat paint standard<br>Other colors available  |               |
| UNIT DIMENSIONS   |               |  |               |
| Height (in / mm)  |               | 43.00 / 1092.2   |               |
| Width (in / mm)   |               | 11.50 / 292.1  |               |
| Depth (in / mm)   |               | 14.00 / 355.6  |               |
| Weight (lb / kg)  | 127/57.6      | 127/57.6   | 138/62.6      |

\*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)

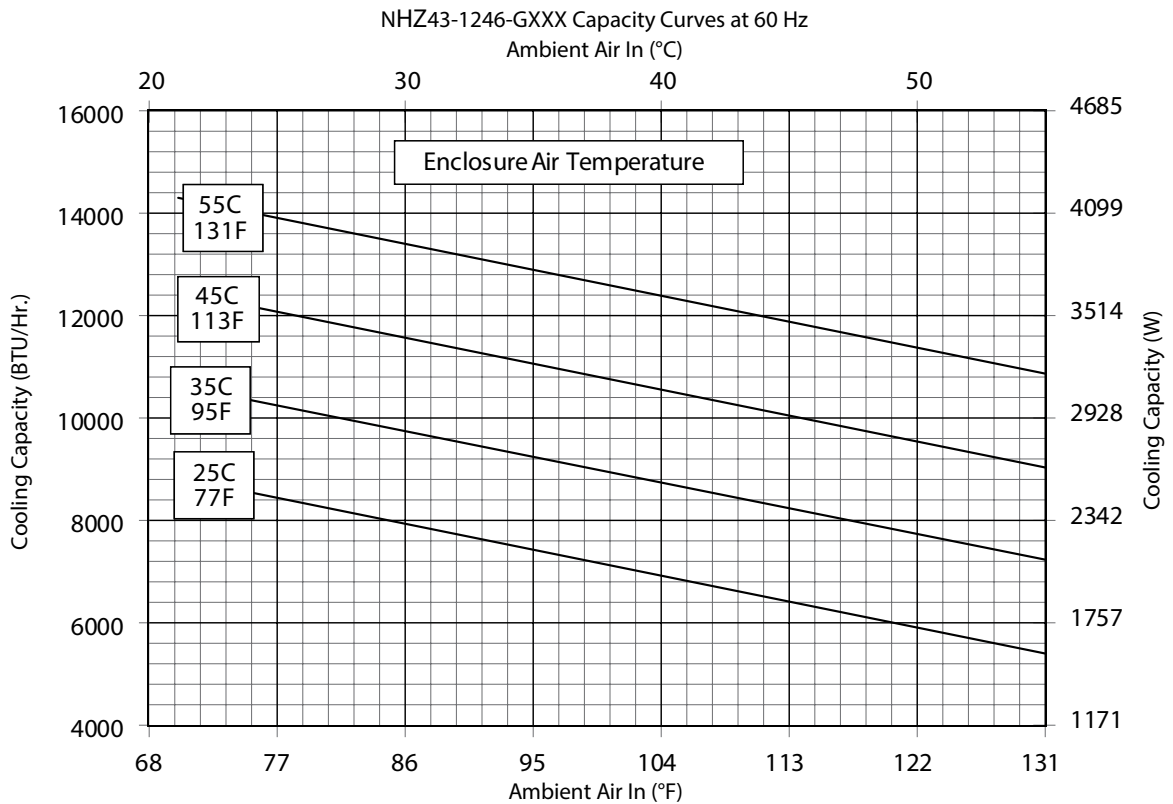
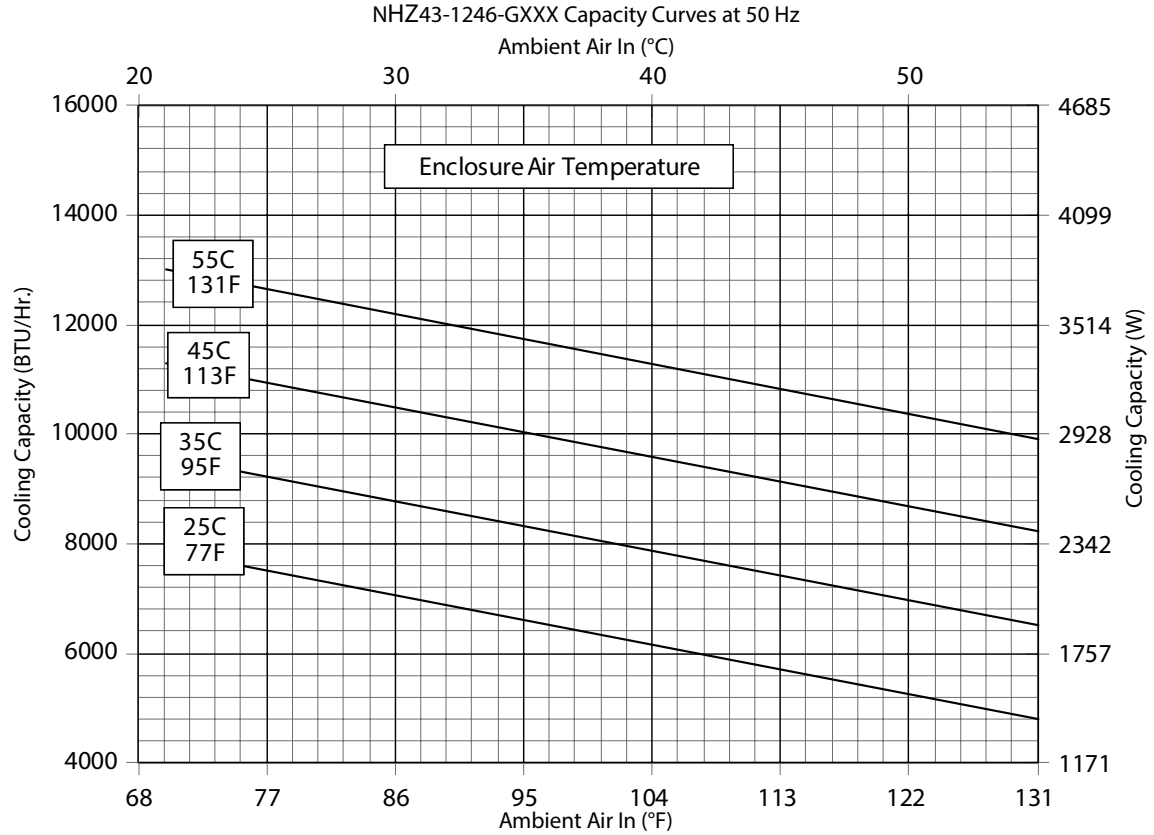


Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)

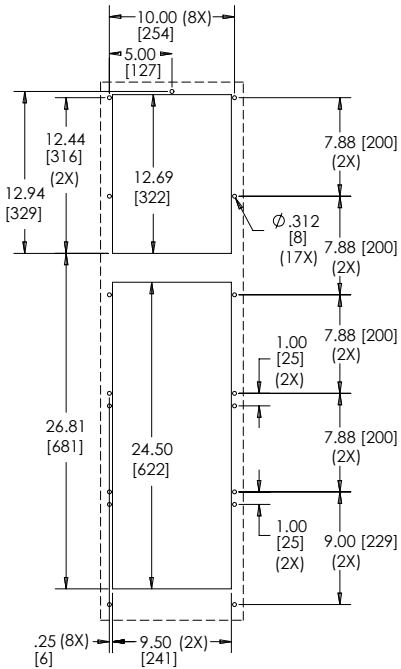
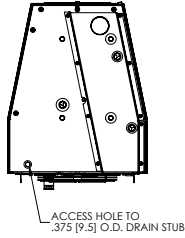
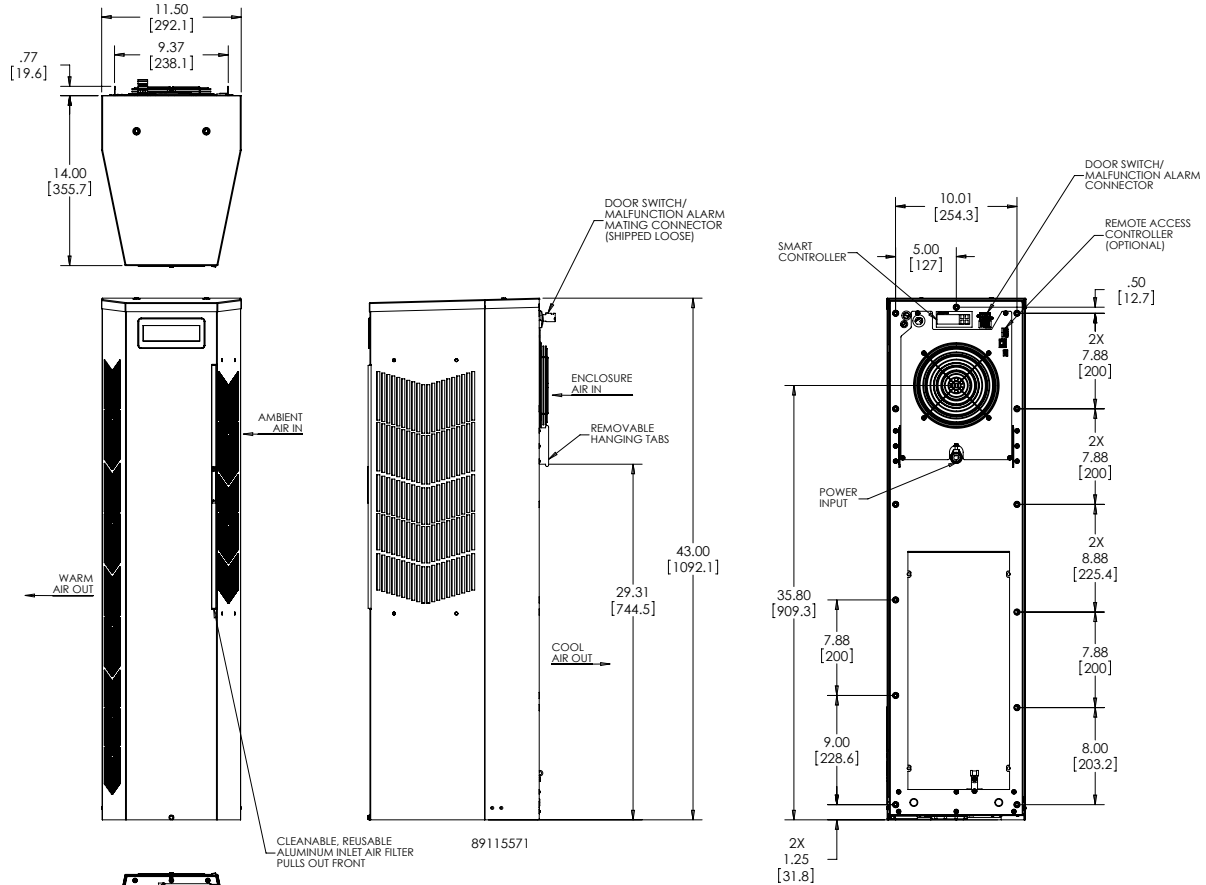




Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)



NHZ43 11000 BTU/Hr. (3223 Watt)



CUTOUT INSTRUCTIONS

Visit [www.nVent.com/HOFFMAN](http://www.nVent.com/HOFFMAN) to download 2D and 3D CAD drawings into the overall design of your electrical system.