

**SPECTRACOOL HAZARDOUS LOCATION INDOOR/OUTDOOR**



NHZ43 11000 BTU/Hr. 3223 Watt	NHZ36 6000/8000 BTU/Hr. 1758/2344 Watt	NHZ28 4000 BTU/Hr. 1172 Watt
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**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

**NOTES**

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

**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

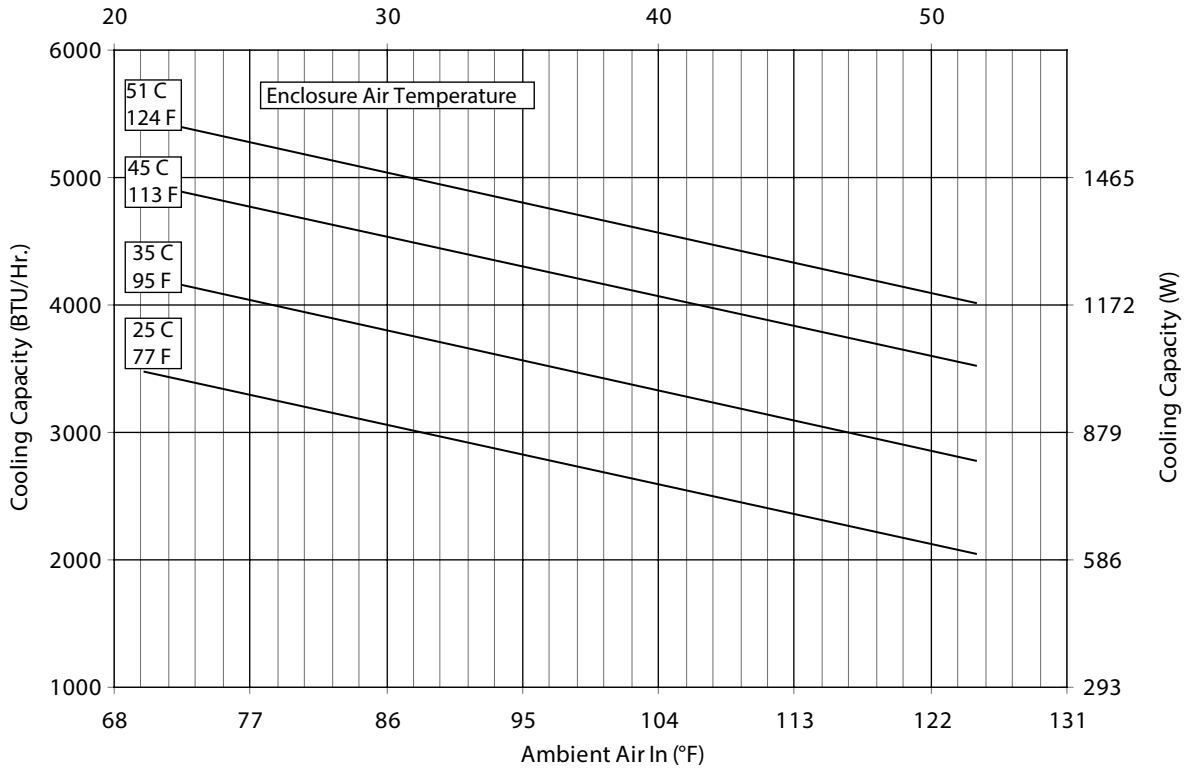
Performance Data NHZ28 4000 BTU/Hr. (1172 Watt)

<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>			
<b>BTUs/Hr.</b>	<b>3800 / 4000</b>	<b>3800 / 4000</b>	<b>4000</b>
<b>Watts</b>	<b>1114 / 1172</b>	<b>1114 / 1172</b>	<b>1172</b>
At 125 F / 125 F (52 C / 52 C):			
BTU/Hr. (50 / 60 Hz)	3940 / 4104	4269 / 4703	4703
Watts (50 / 60 Hz)	1150 / 1000	1250 / 1378	1378
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 / 60 Hz)	3754 / 4011	3700 / 4291	4291
Watts (50 / 60 Hz)	1100 / 1175	1086 / 1257	1257
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	10 / 283	11 / 312	11 / 312
Operating Temperature Range:			
Maximum (°F / °C)	125/52	125/52	125/52
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)	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>			
<b>Rated Voltage</b>	<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 CE	
Power Input Description		Others available upon request	
<b>ENCLOSURE PROTECTION</b>		Terminal Block	
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 Stainless steel 316L Type 4X and Offshore Models	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard 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

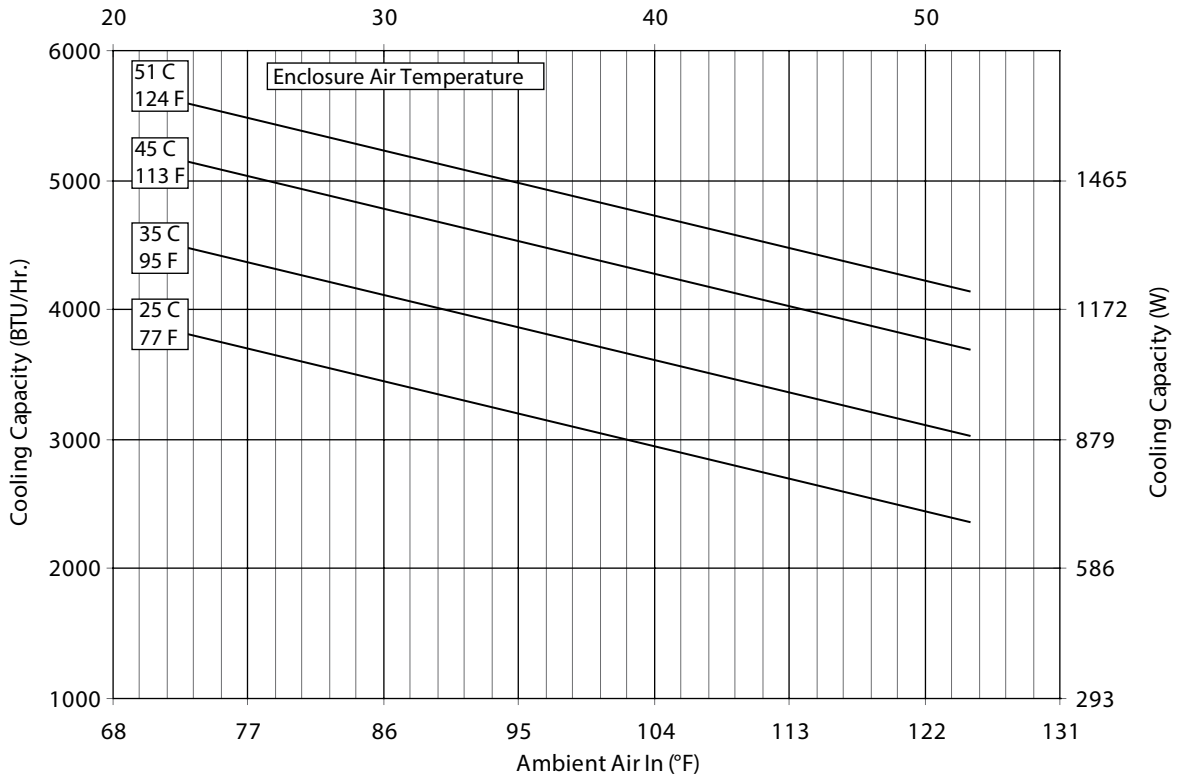
\*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

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

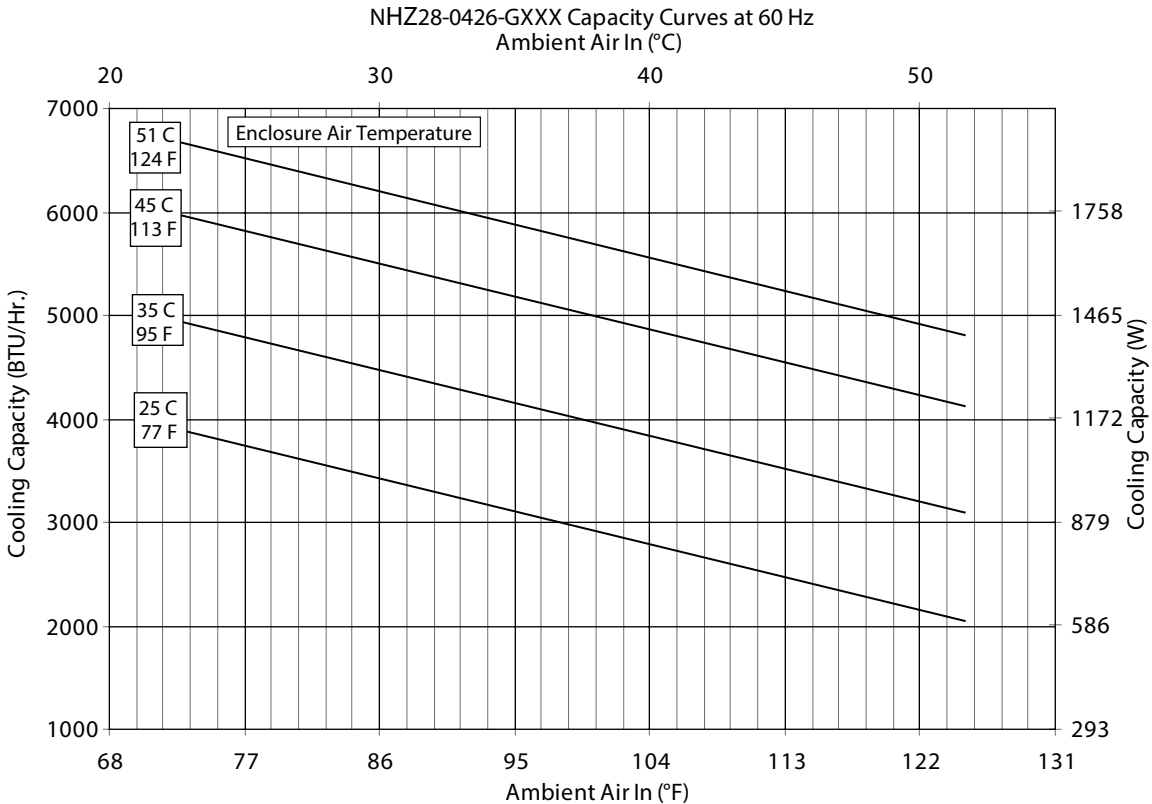
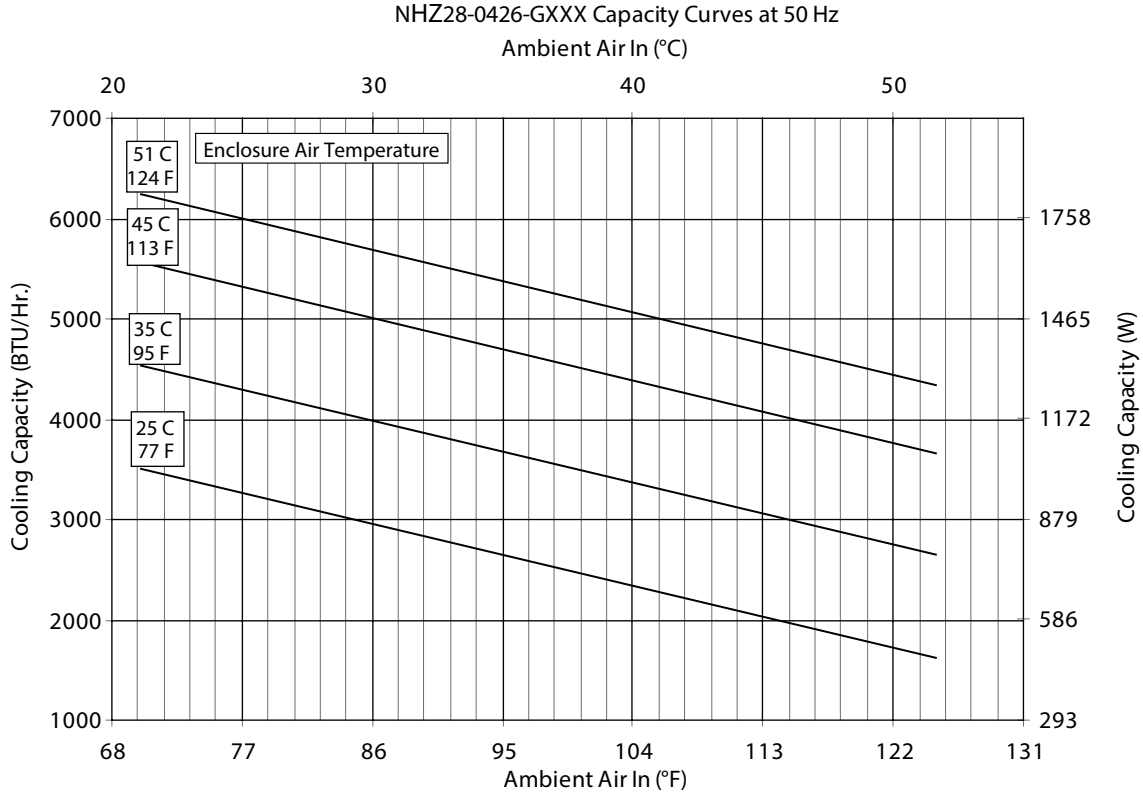
NHZ28-0416-GXXX Capacity Curves at 50 Hz  
Ambient Air In (°C)



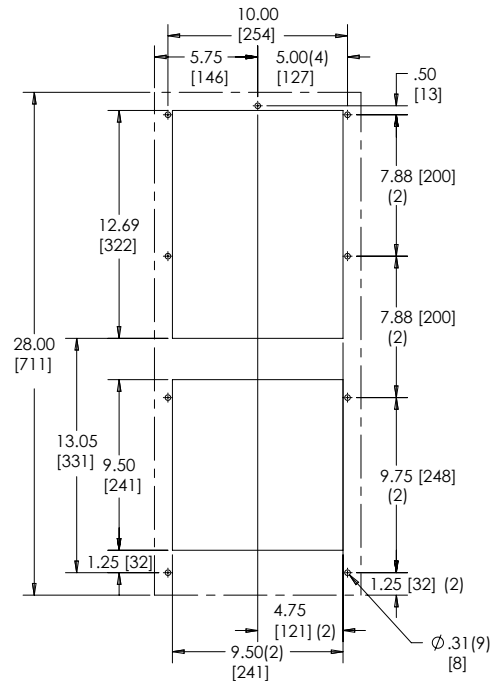
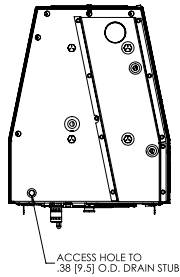
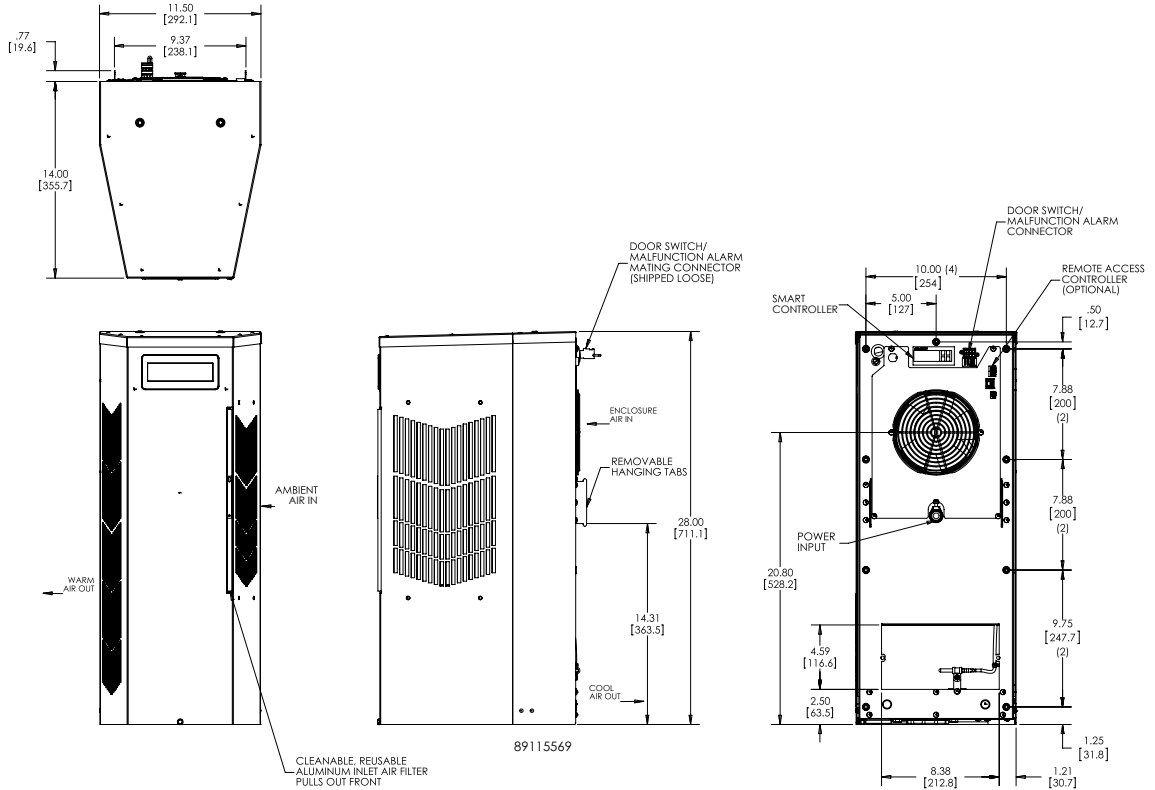
NHZ28-0416-GXXX Capacity Curves at 60 Hz  
Ambient Air In (°C)



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



NHZ28 Models 4000 BTU/Hr. (1172 Watt)



Cutout Dimensions

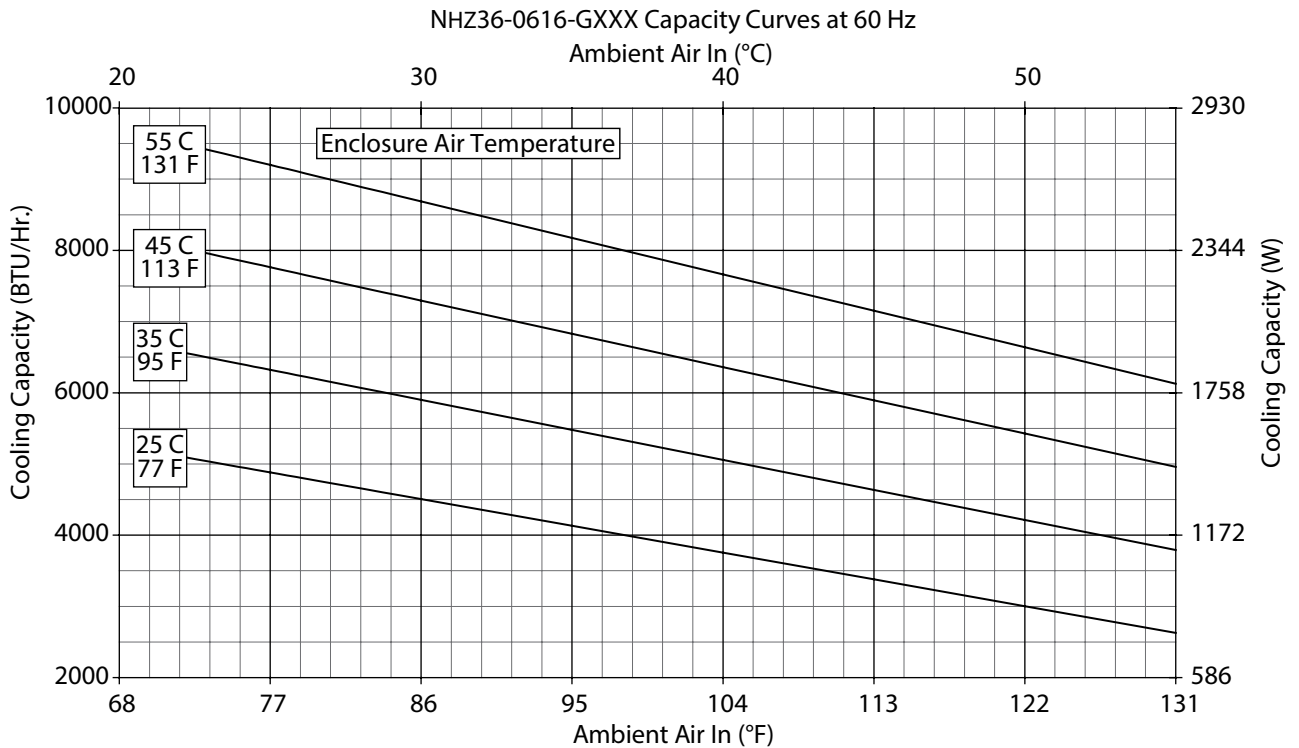
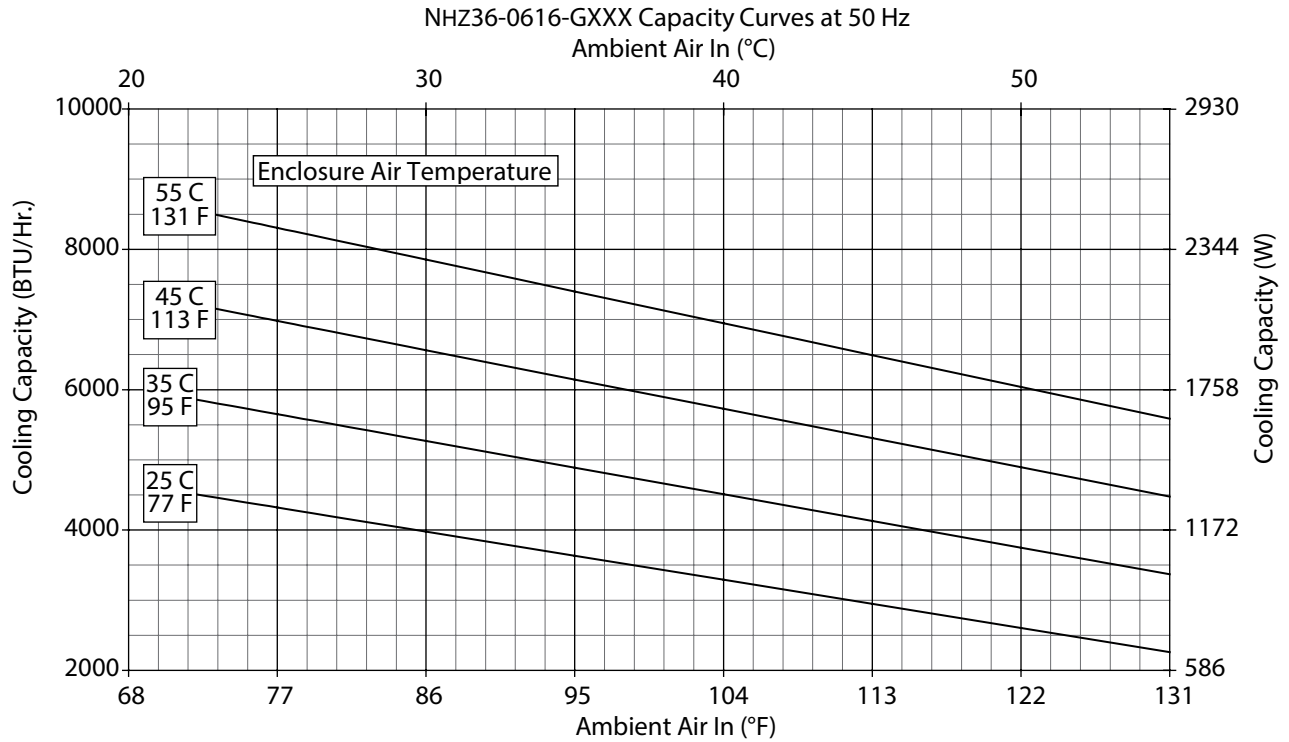
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Performance Data NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)

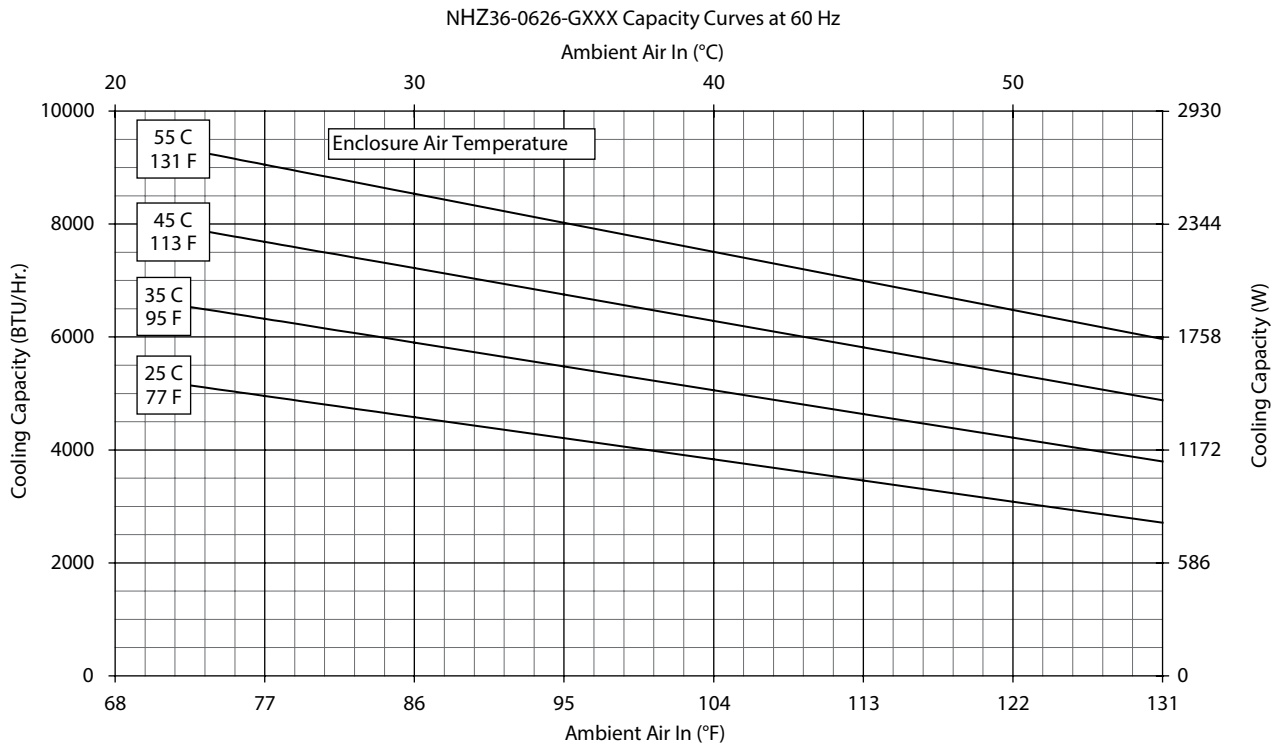
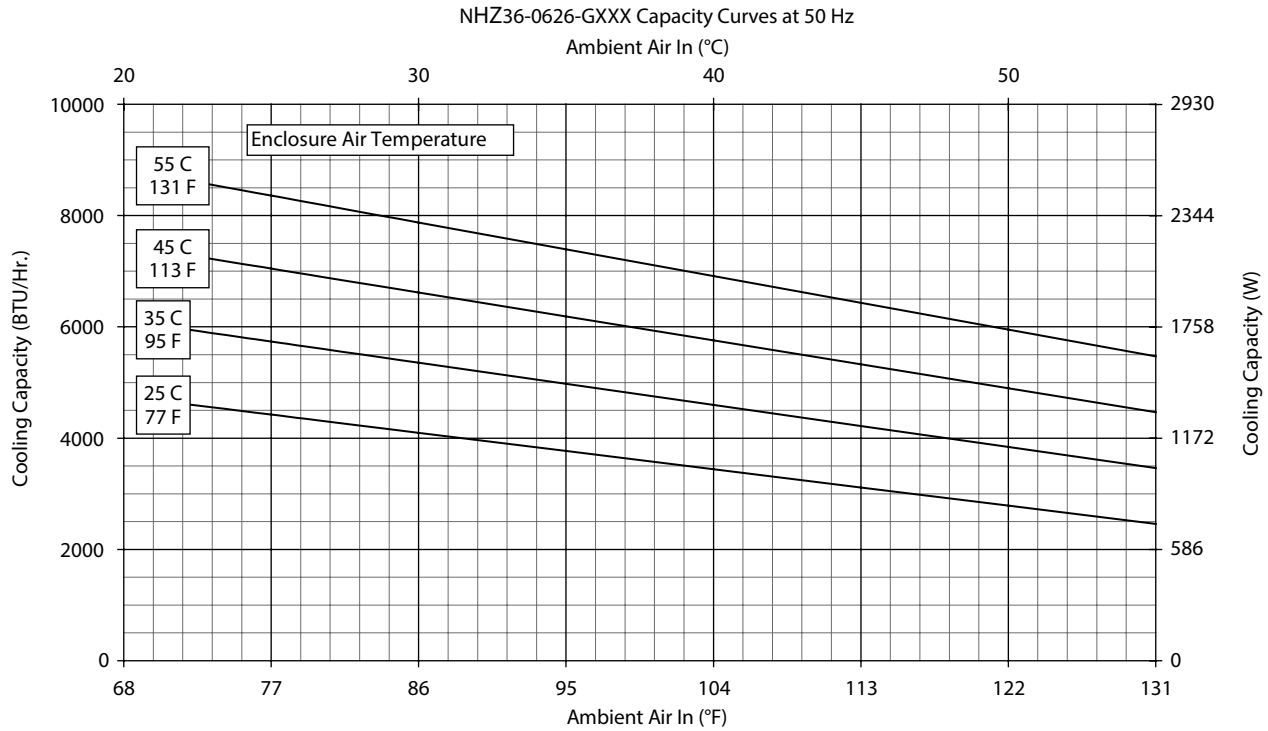
<b>CATALOG NUMBER</b>						
Painted Galvanized Steel Type 4	NHZ360616G300	NHZ360626G300	NHZ360646G300	NHZ360816G300	NHZ360826G300	NHZ360846G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ360616G360	NHZ360626G360	NHZ360646G360	NHZ360816G360	NHZ360826G360	NHZ360846G360
Stainless Steel 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
<b>COOLING PERFORMANCE</b>						
<b>Nominal:</b>						
<b>BTUs/Hr.</b>	<b>5400 / 6000</b>	<b>5400 / 6000</b>	<b>5400 / 6000</b>	<b>8250 / 8500</b>	<b>8250 / 8500</b>	<b>8250 / 8500</b>
<b>Watts</b>	<b>1581 / 1757</b>	<b>1581 / 1757</b>	<b>1581 / 1757</b>	<b>2416 / 2489</b>	<b>2416 / 2489</b>	<b>2416 / 2489</b>
At 131 F / 131 F (55 C / 55 C):						
BTU/Hr. (50 / 60 Hz)	5585 / 6180	5469 / 5965	5300 / 6089	8213 / 8453	7874 / 8063	7777 / 8166
Watts (50 / 60 Hz)	1637 / 1811	1603 / 1748	1553 / 1785	2405 / 2475	2306 / 2361	2277 / 2391
At 95 F / 95 F (35 C / 35 C):						
BTU/Hr. (50 / 60 Hz)	4909 / 5485	5159 / 5621	5572 / 6026	7028 / 7626	6660 / 7411	6877 / 7525
Watts (50 / 60 Hz)	1439 / 1607	1512 / 1647	1633 / 1766	2058 / 2233	1950 / 2170	2014 / 2203
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	20 / 567	22 / 624	16 / 454	36 / 1021	36 / 1021	36 / 1021
Operating Temperature Range:						
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
Air Flow at 0 Static Pressure:						
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
<b>ELECTRICAL DATA</b>						
<b>Rated Voltage</b>	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	572 / 628
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 / 3.4
Starting Current (Amps)	39.2	23	8.1	48.3	27	16
Agency Approvals	cUL Listed CE Others available upon request 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	66.9 dBA	66.7 dBA	68.2 dBA	66.0 dBA	66.0 dBA	66.0 dBA
<b>UNIT CONSTRUCTION</b>						
Material	Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models					
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available					
<b>UNIT DIMENSIONS</b>						
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)

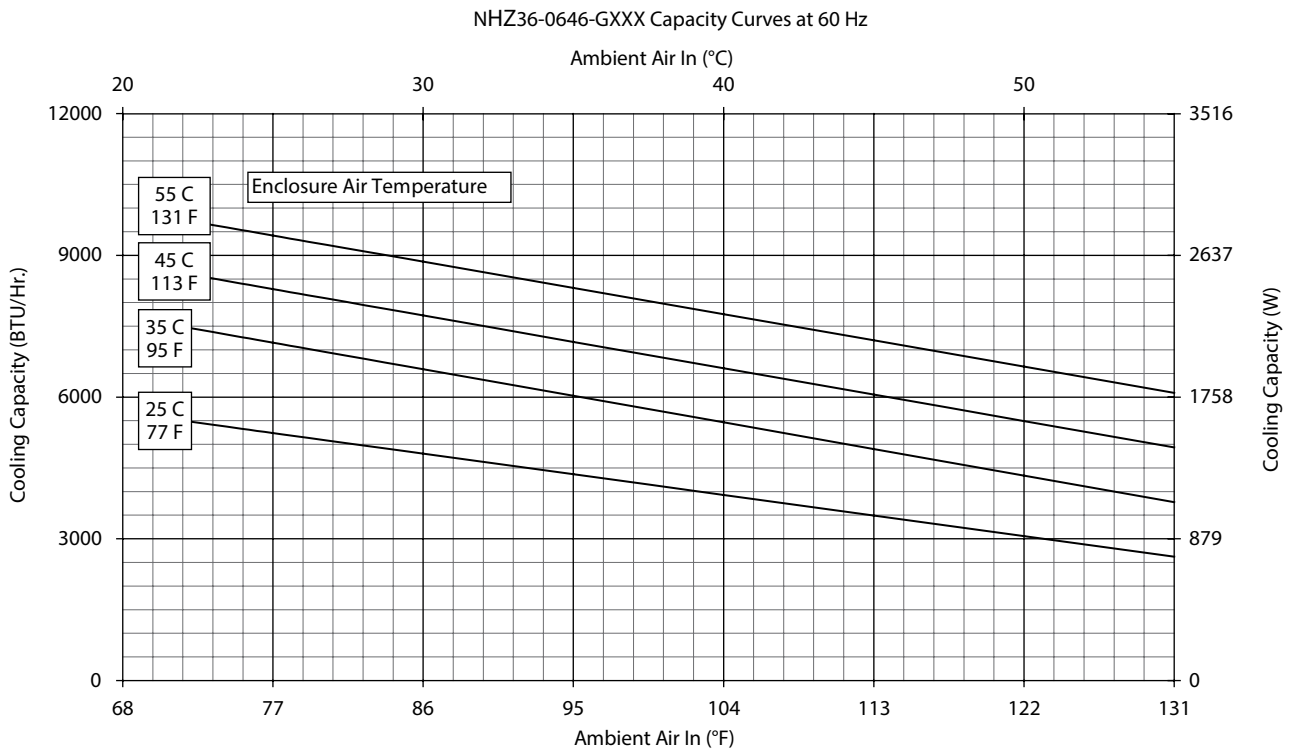
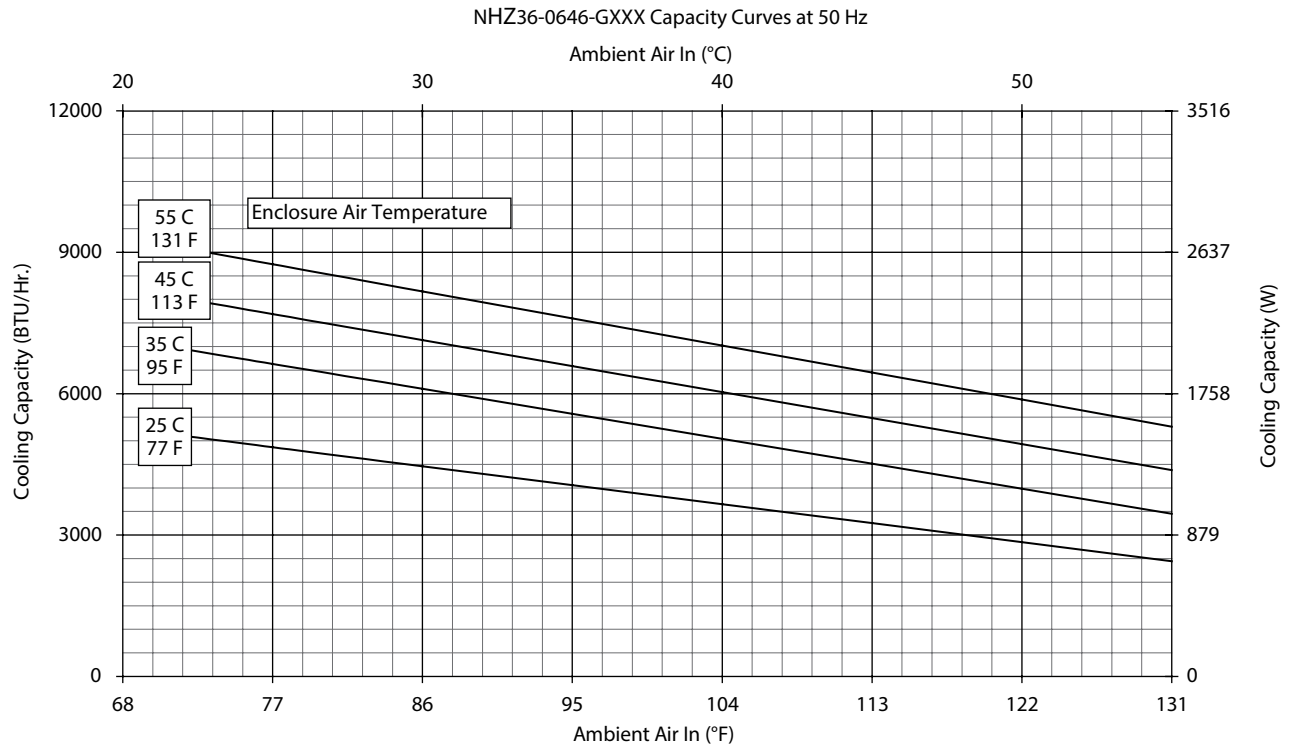


Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)

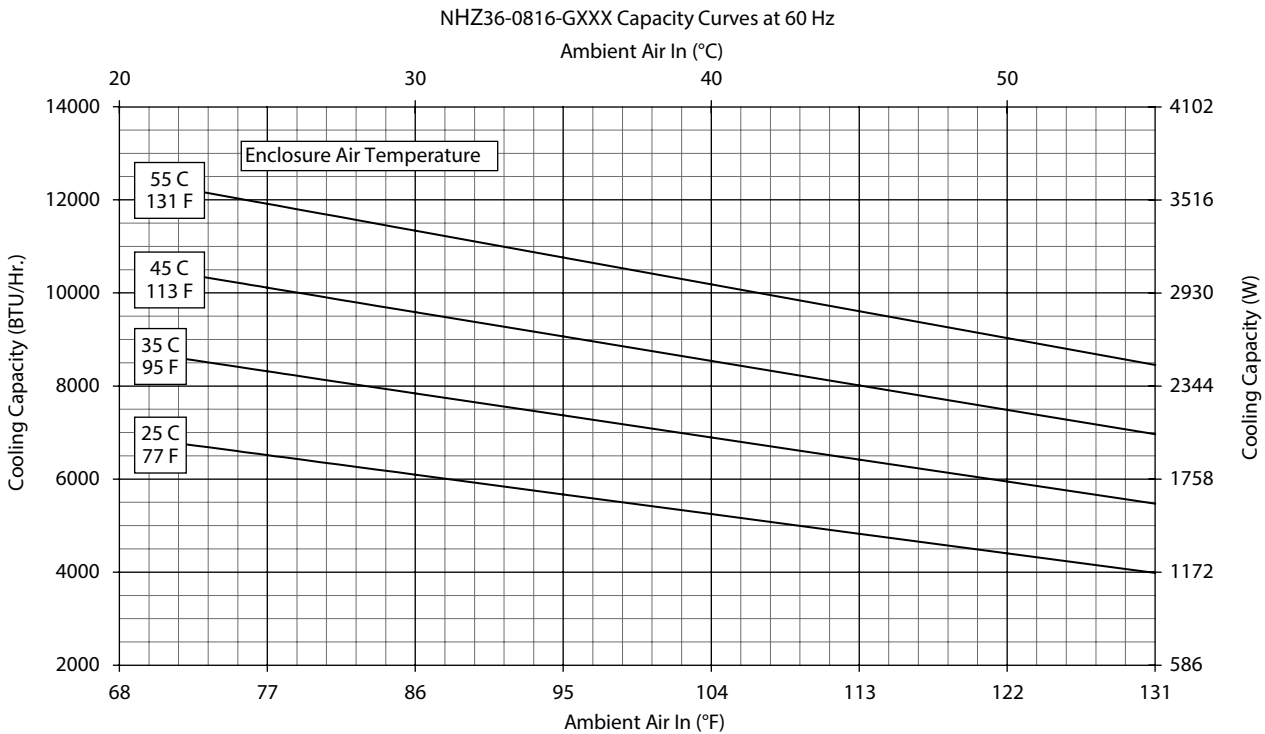
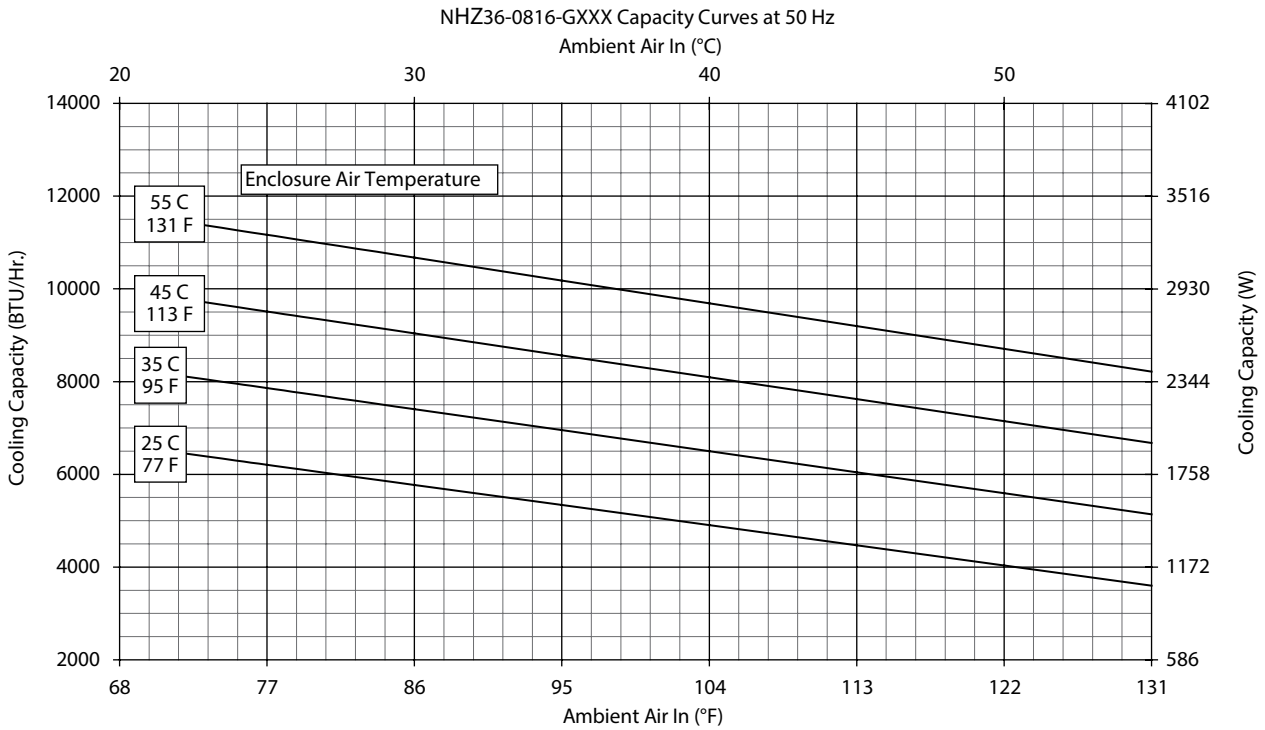




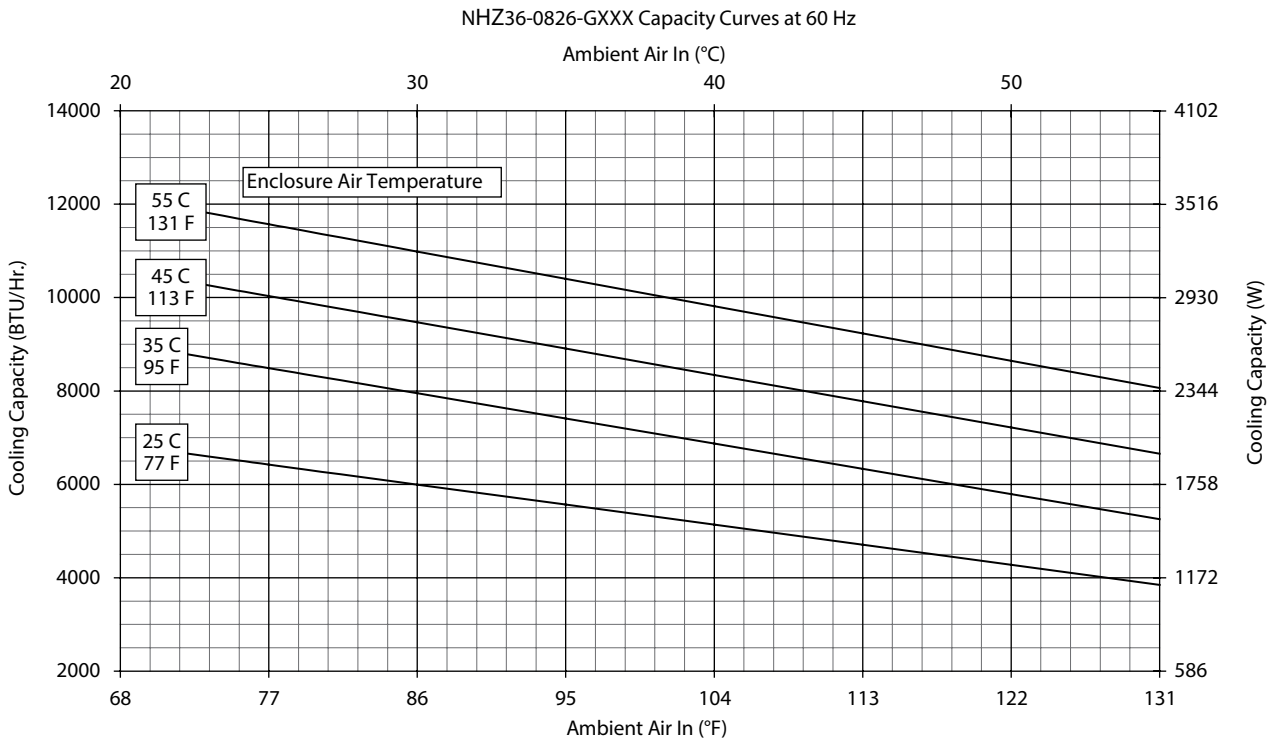
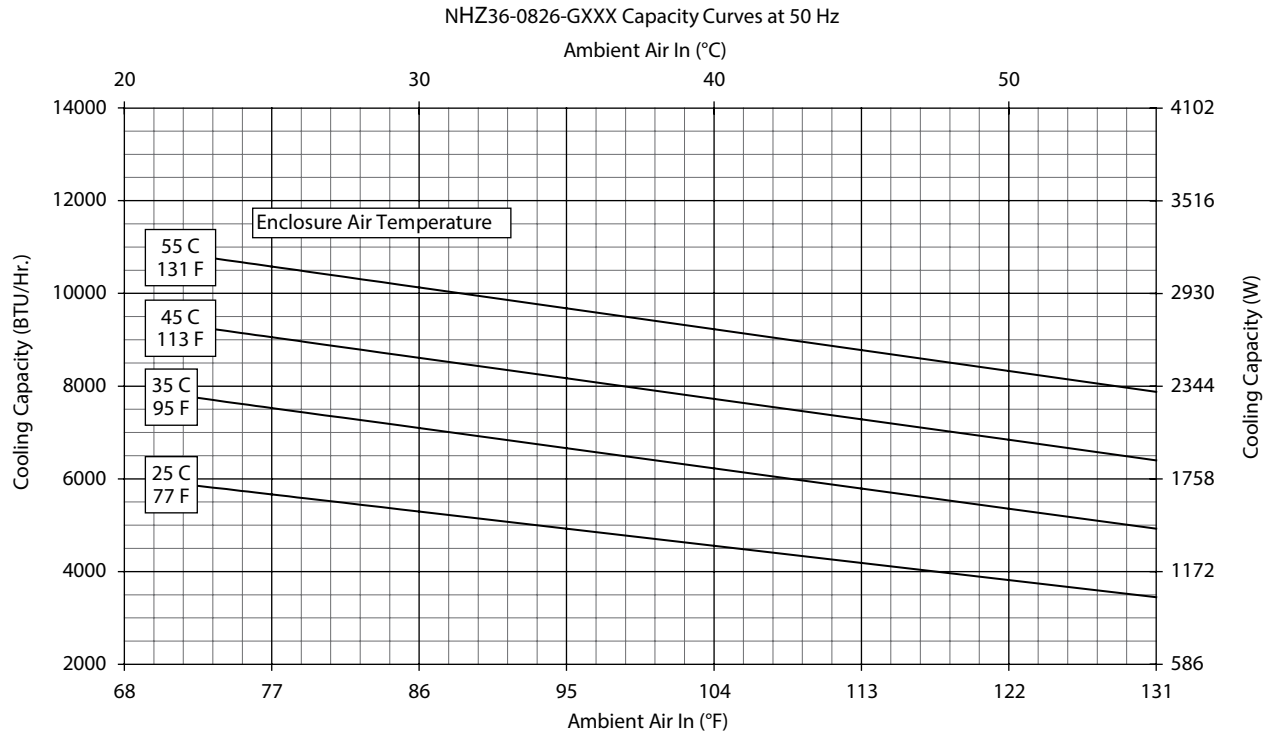
Performance Curves for NHZ36 Models 6000 BTU/Hr. (1758 Watt)



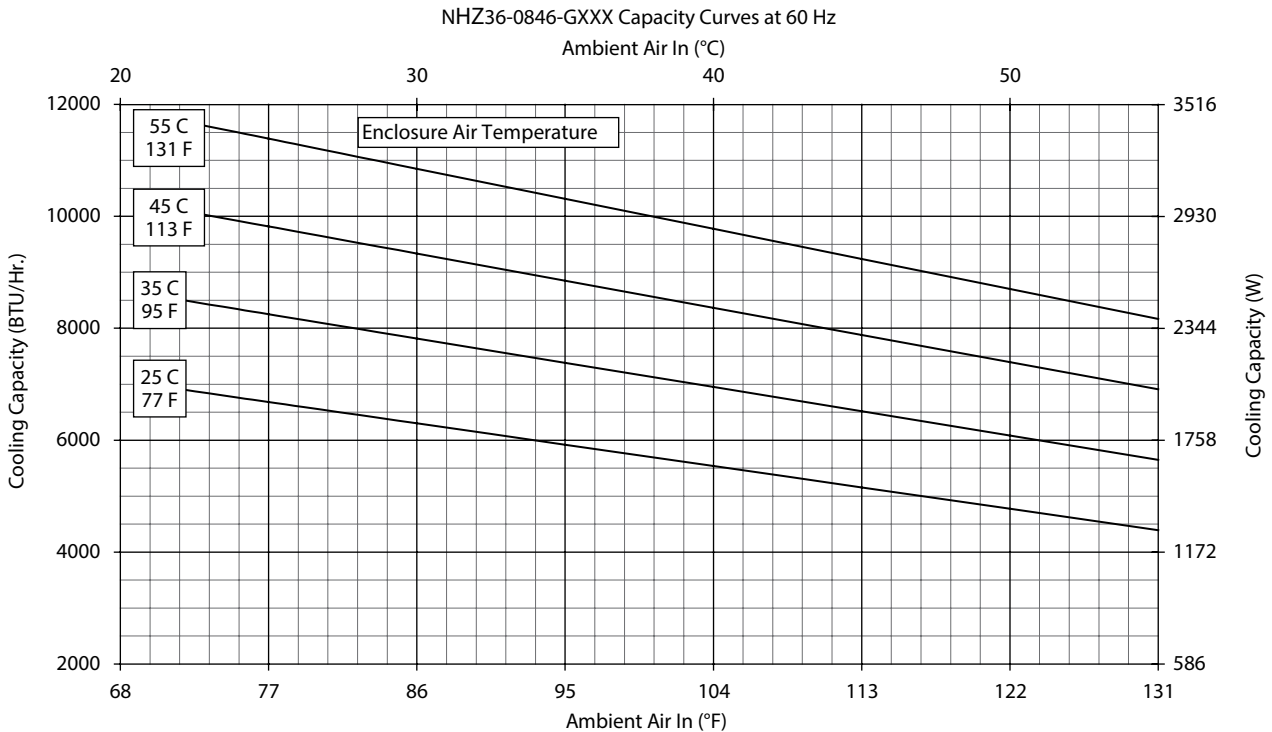
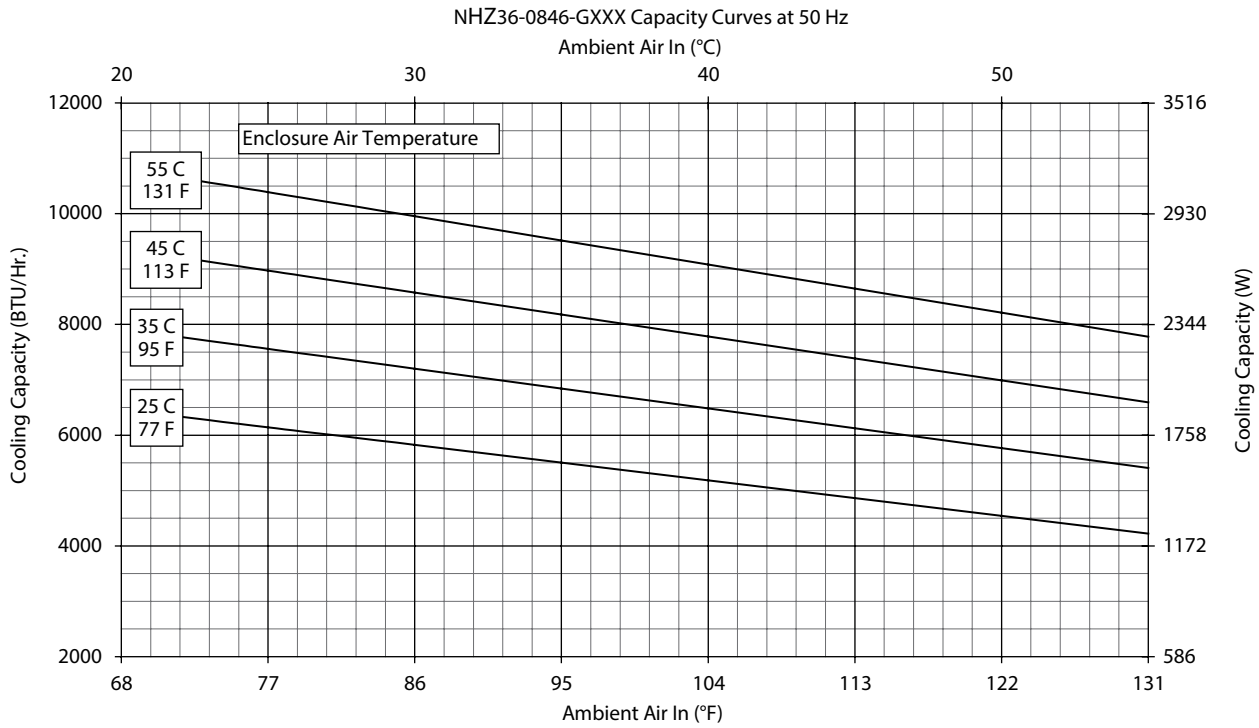
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



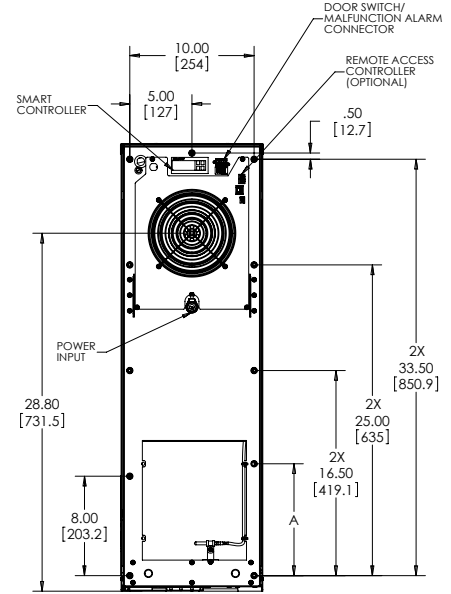
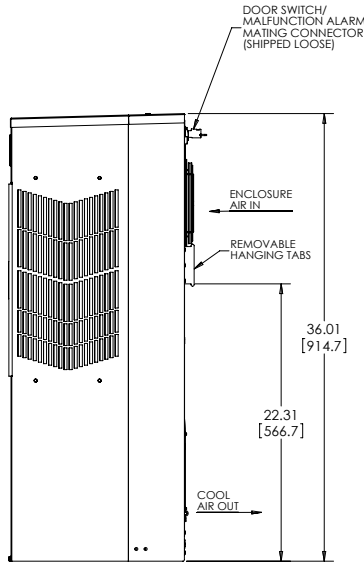
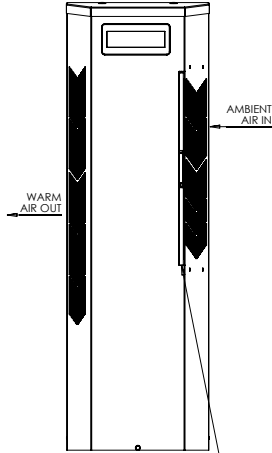
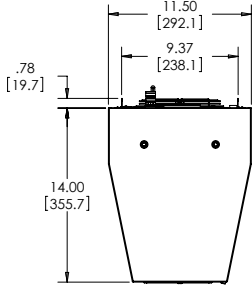
Performance Curves for NHZ36 Models 8000 BTU/Hr. (2344 Watt)



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

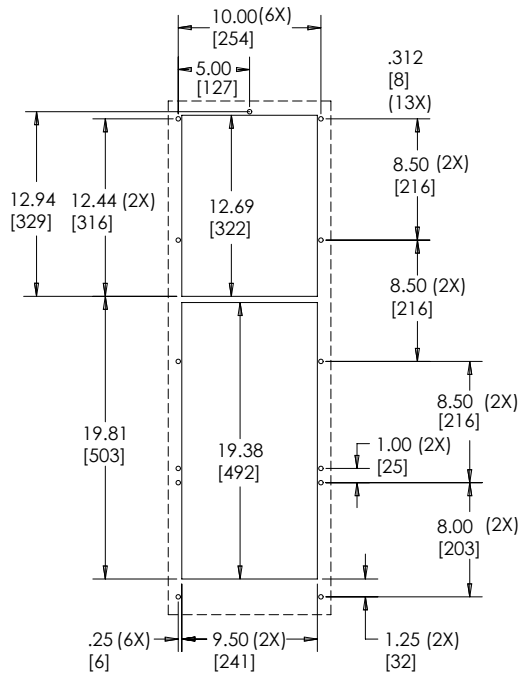
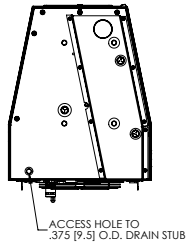


NHZ36 6000/8000 BTU/Hr. (1758/2344 Watt)



CLEANABLE, REUSABLE ALUMINUM INLET AIR FILTER PULLS OUT FRONT

89115570



Cutout Dimensions

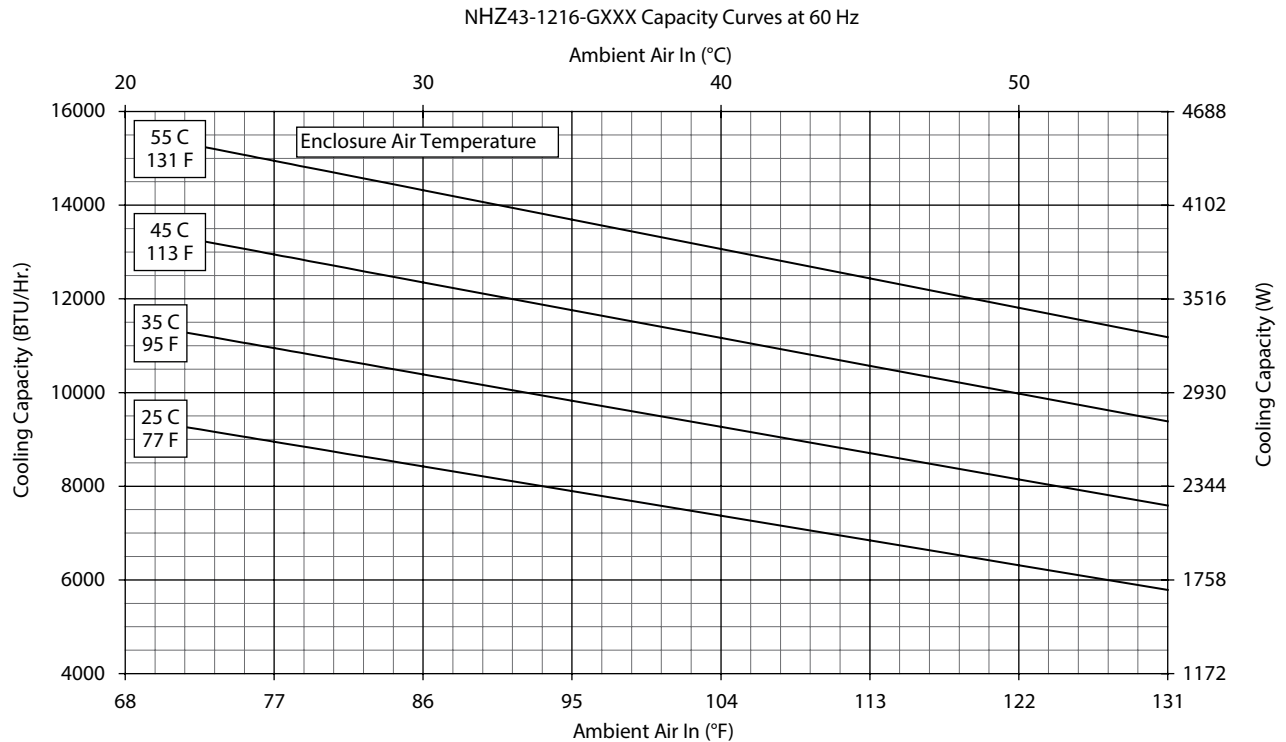
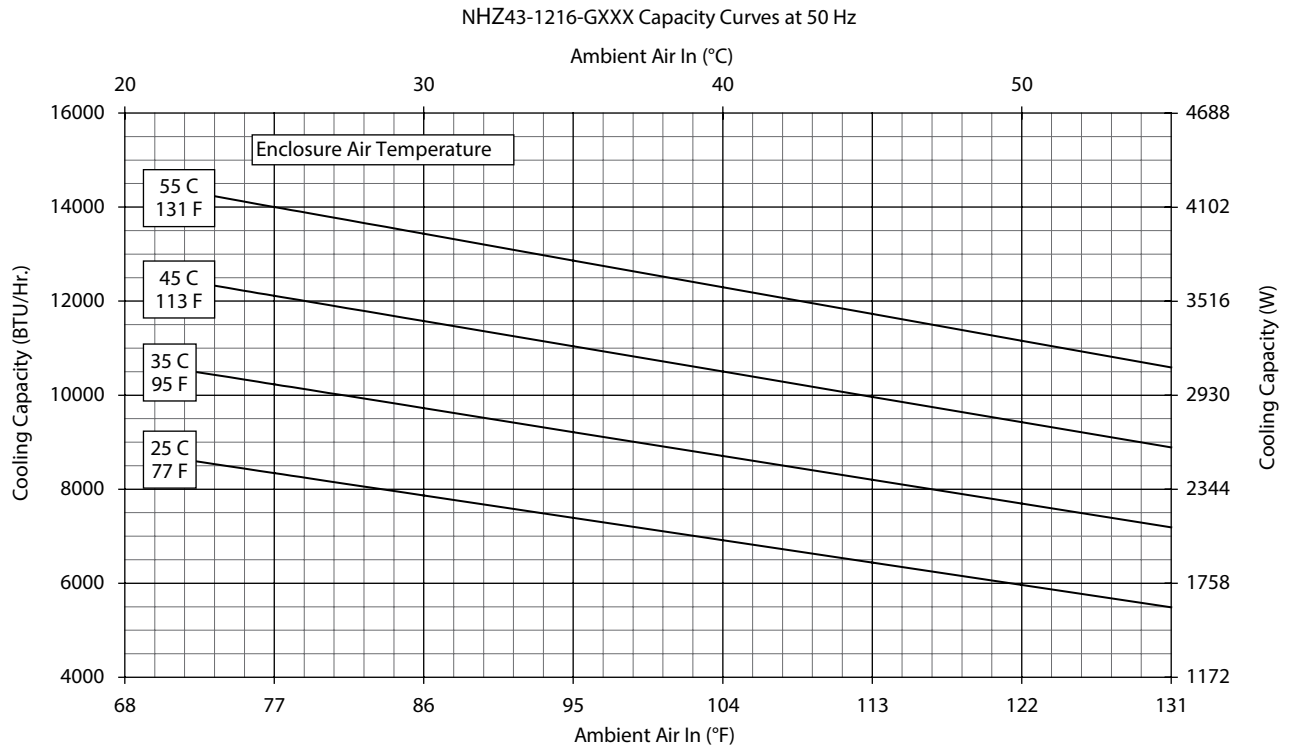
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Performance Data NHZ43 11000 BTU/Hr. (3223 Watt)

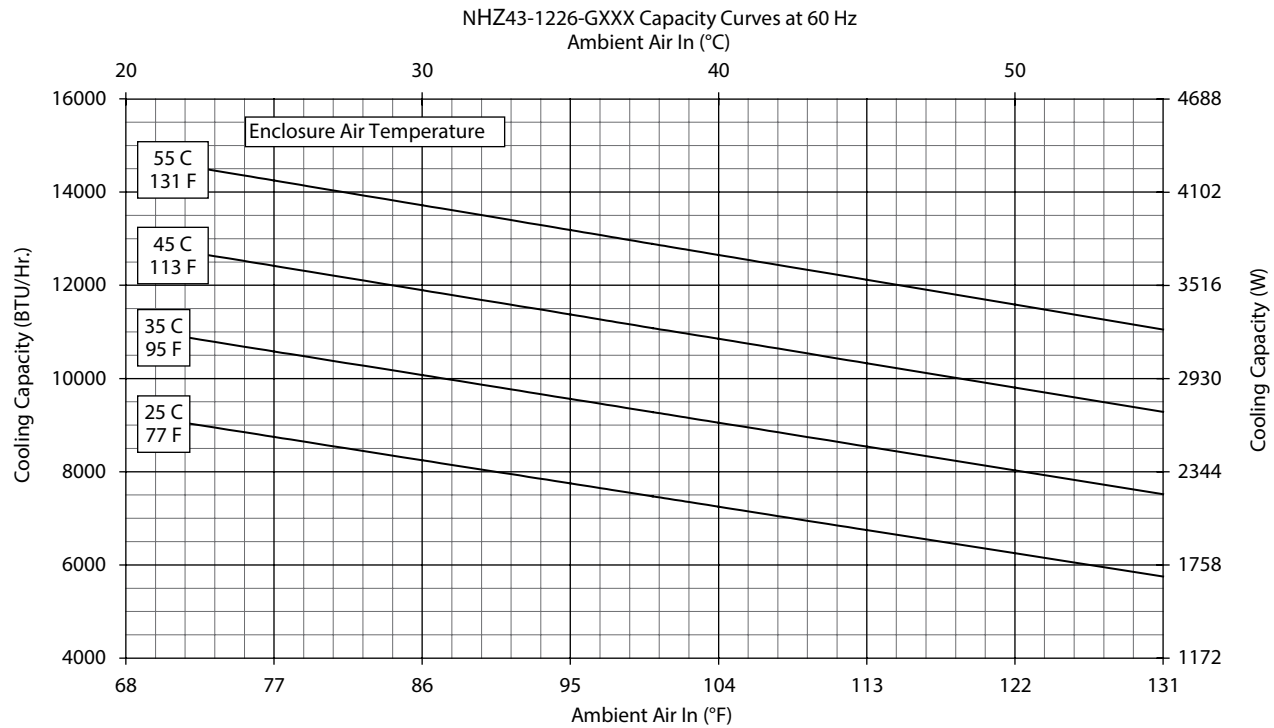
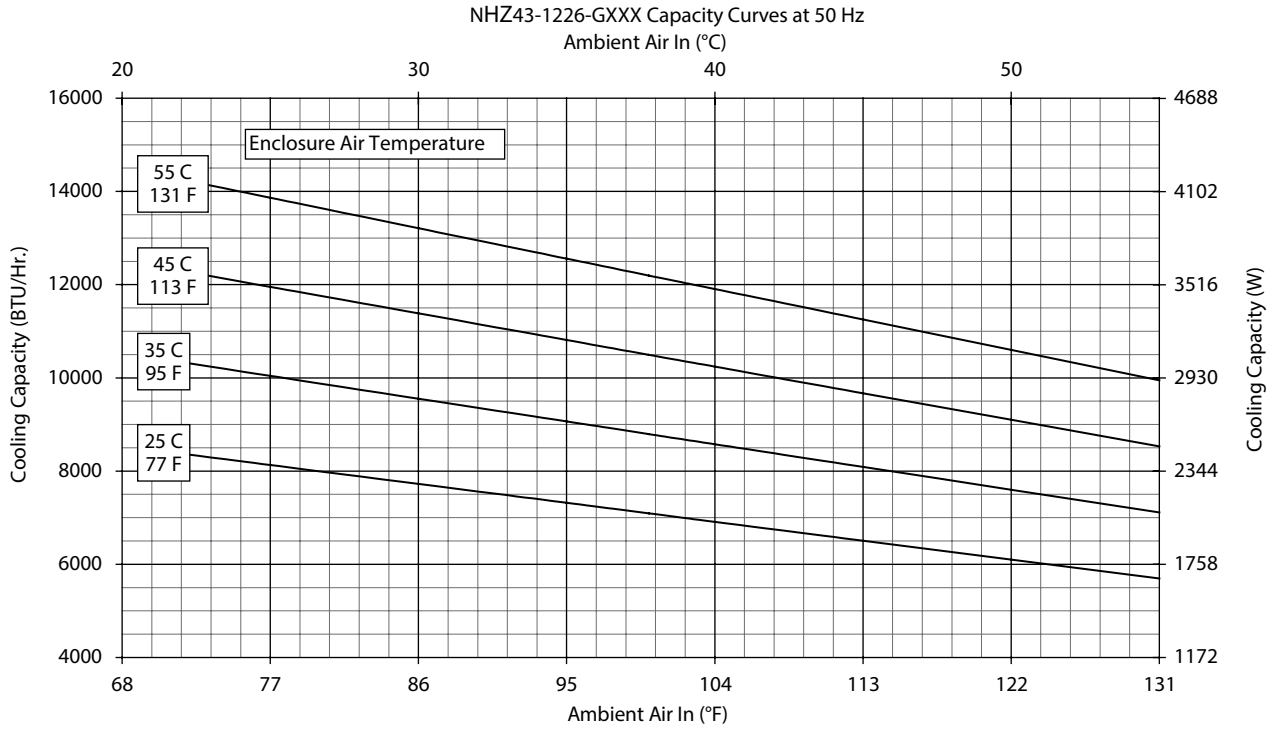
<b>CATALOG NUMBER</b>			
Painted Galvanized Steel Type 4	NHZ431216G300	NHZ431226G300	NHZ431246G300
Painted Galvanized Steel Type 4 with Remote Access Control*	NHZ431216G360	NHZ431226G360	NHZ431246G360
Stainless Steel Type 4X	NHZ431216G400	NHZ431226G400	NHZ431246G400
Stainless Steel Type 4X with Remote Access Control*	NHZ431216G460	NHZ431226G460	NHZ431246G460
Stainless Steel Type 4X Offshore	NHZ431216G500	NHZ431226G500	NHZ431246G500
<b>COOLING PERFORMANCE</b>			
<b>Nominal:</b>			
<b>BTUs/Hr.</b>	<b>10400 / 11000</b>	<b>10400 / 11000</b>	<b>10400 / 11000</b>
<b>Watts</b>	<b>3047 / 3223</b>	<b>2900 / 3223</b>	<b>2900 / 3223</b>
At 131 F / 131 F (55 C / 55 C):			
BTU/Hr. (50 / 60 Hz)	10588 / 11180	9946 / 11052	10048 / 10797
Watts (50 / 60 Hz)	3103 / 3277	2915 / 3239	2945 / 3164
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 / 60 Hz)	9475 / 10023	8967 / 9644	8587 / 9559
Watts (50 / 60 Hz)	2777 / 2937	2628 / 2826	2517 / 2801
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	36 / 1021	38 / 1077	41 / 1162
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
<b>ELECTRICAL DATA</b>			
<b>Rated Voltage</b>	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	1802 / 2446	1294 / 1421
Max. Nominal Current (Amps at 50 / 60 Hz)	15.1 / 18.2	9.0 / 9.1	3.4 / 3.5
Starting Current (Amps)	57	38	16
Agency Approvals		cUL Listed CE	
Power Input Description		Others available upon request	
<b>ENCLOSURE PROTECTION</b>		Terminal Block	
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	68.4 dBA	68.4 dBA	69.6 dBA
<b>UNIT CONSTRUCTION</b>			
Material		Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models	
Finish		RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available	
<b>UNIT DIMENSIONS</b>			
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)

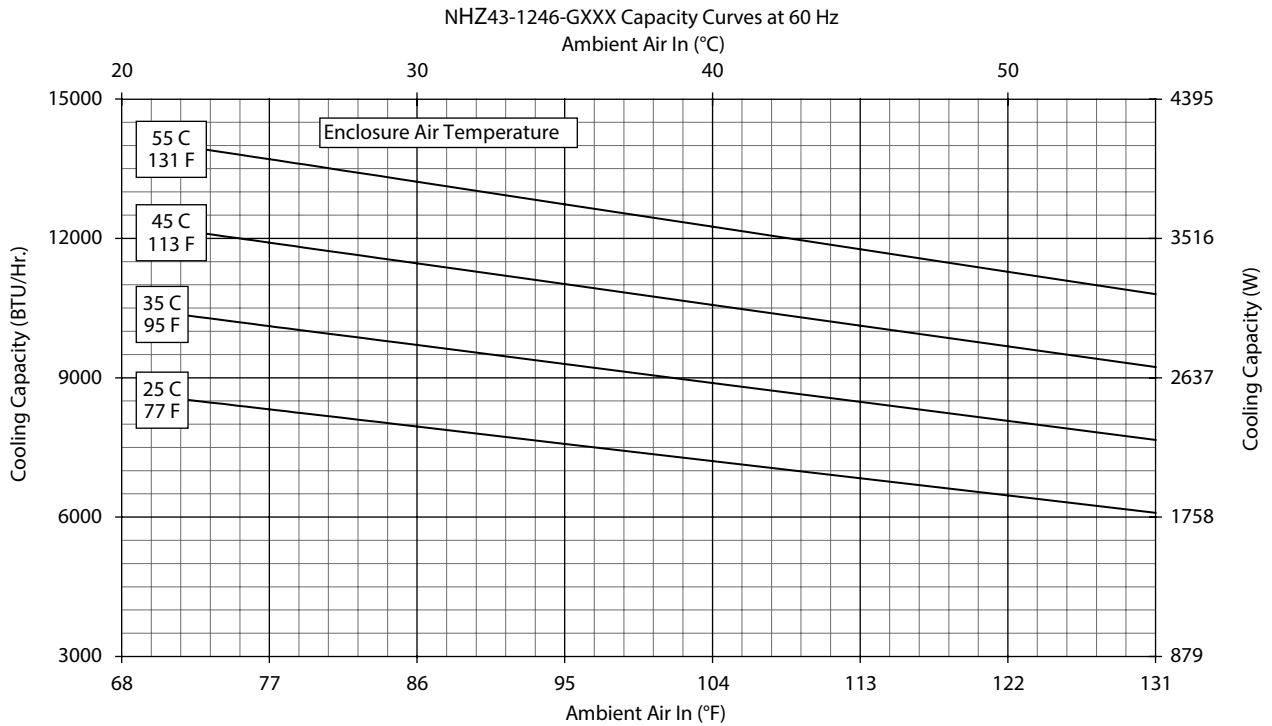
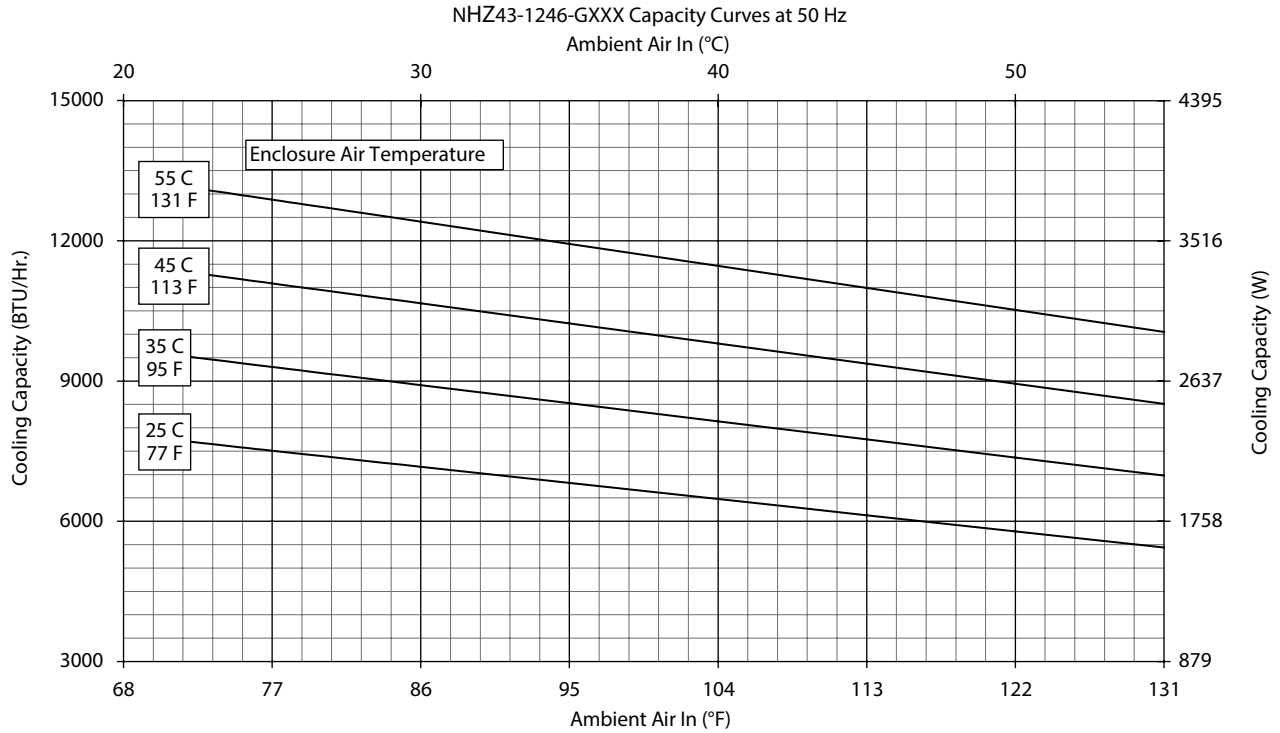


Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)

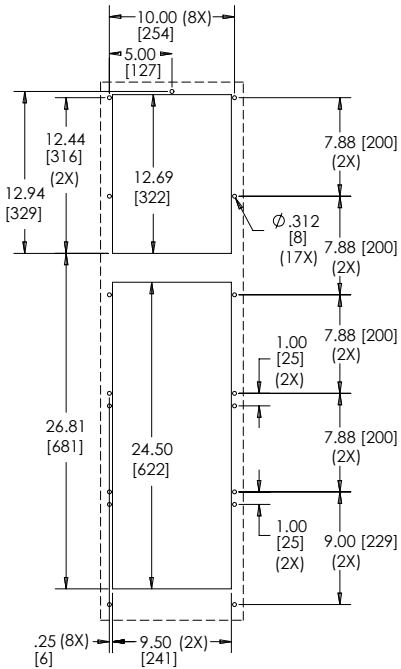
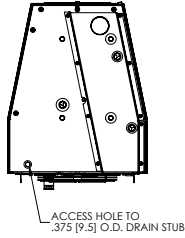
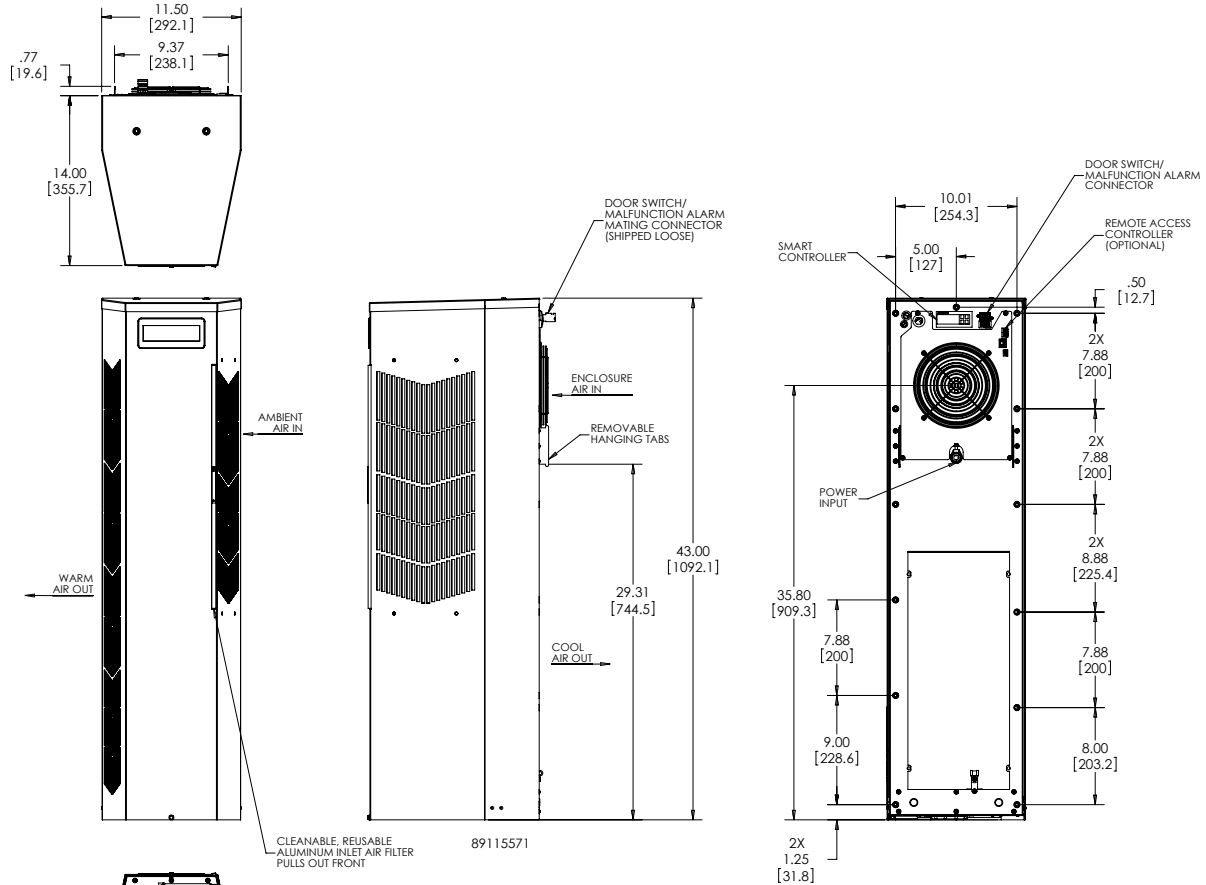




Performance Curves for NHZ43 Models 11000 BTU/Hr. (3223 Watt)



NHZ43 11000 BTU/Hr. (3223 Watt)



CUTOUT INSTRUCTIONS

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