nVent | HOFFMAN

We connect and protect

SpectraCool Narrow Hazardous Location Indoor/Outdoor



NHZ43
11000 BTU/Hr
3223 Watt

NHZ36
6000/8000 BTU/Hr
1758/2344 Watt

NHZ28
4000 BTU/Hr
1172 Watt

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

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 and R513A 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
  - Compresser 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 115 V)

FINISH

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

PERFORMANCE DATA NHZ28 4000 BTU/HR (1172 WATT)

Catalog Number

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

Cooling Performance

Nominal:			
BTU/Hr	3800/4000	3800/4000	3800 /4000
Watts	1114/1172	1114/1172	1114/1172
At 125°F/125°F (52°C/52°C):			
BTU/Hr (50/60 Hz)	3940/4104	4269/4703	4269/4703
Watts (50/60 Hz)	1150/1000	1250/1378	1250/1378
At 95°F/95°F (35°C/35°C):			
BTU/Hr (50/60 Hz)	3754/4011	3700/4291	3700/4291
Watts (50/60 Hz)	1100/1175	1086/1257	1086/1257
Refrigerant	R134a or R513A	R134a or R513A	R134a or R513A
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^3/hr)	138/234	N/A	N/A
External loop 50 Hz (CFM/m^3/hr)	268/455	N/A	N/A
Internal loop 60 Hz (CFM/m^3/hr)	143/362	143/243	143/243
External loop 60 Hz (CFM/m^3/hr)	288/728	288/489	288/489

Electrical Data

Rated Voltage	110/115	230	400-460/460
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 | 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	66.1 dBA	65.5 dBA	65.5 dBA

Unit Construction

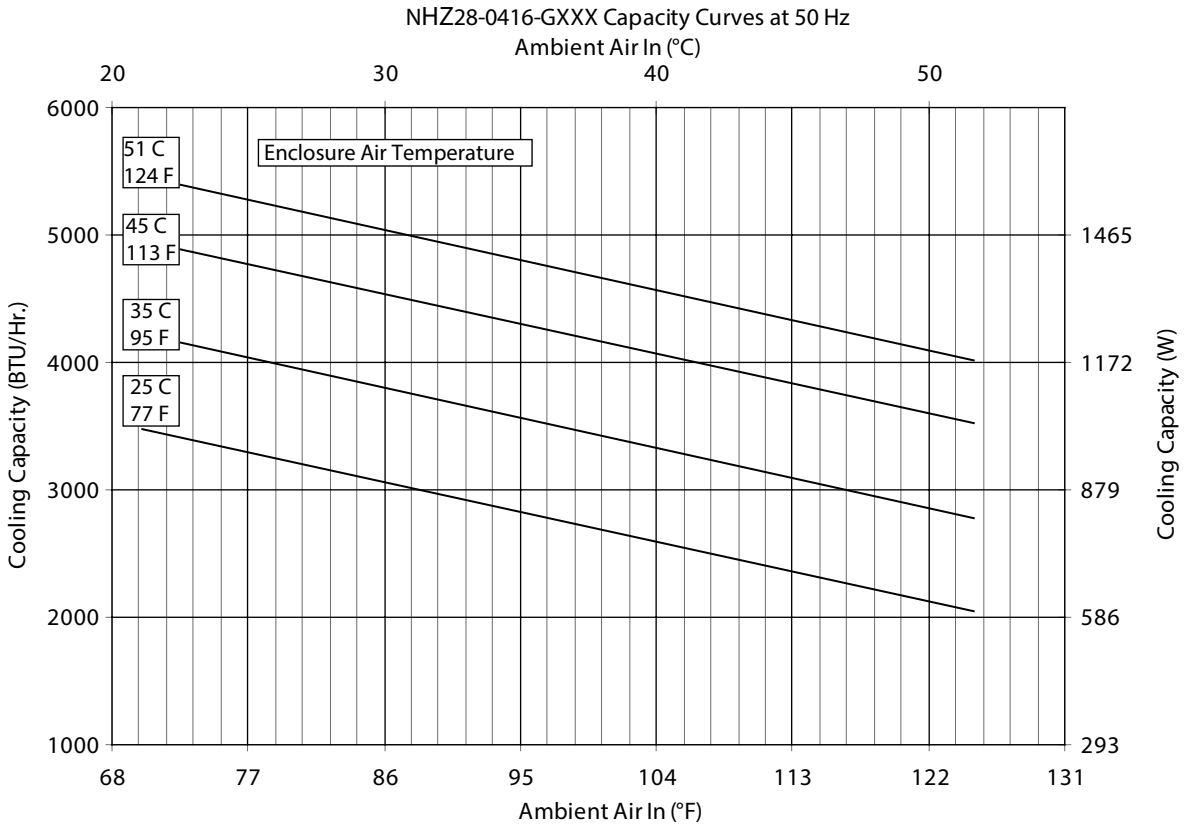
Material	Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

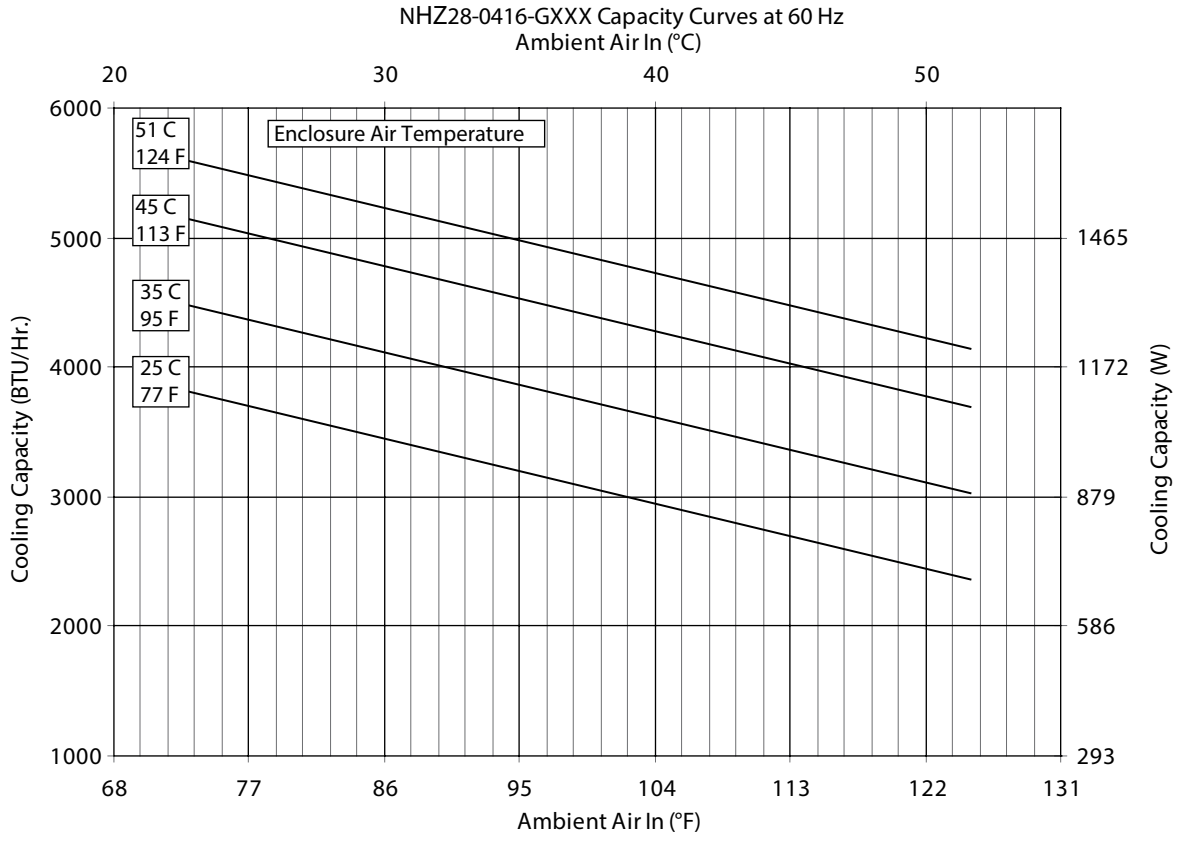
Unit Dimensions

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

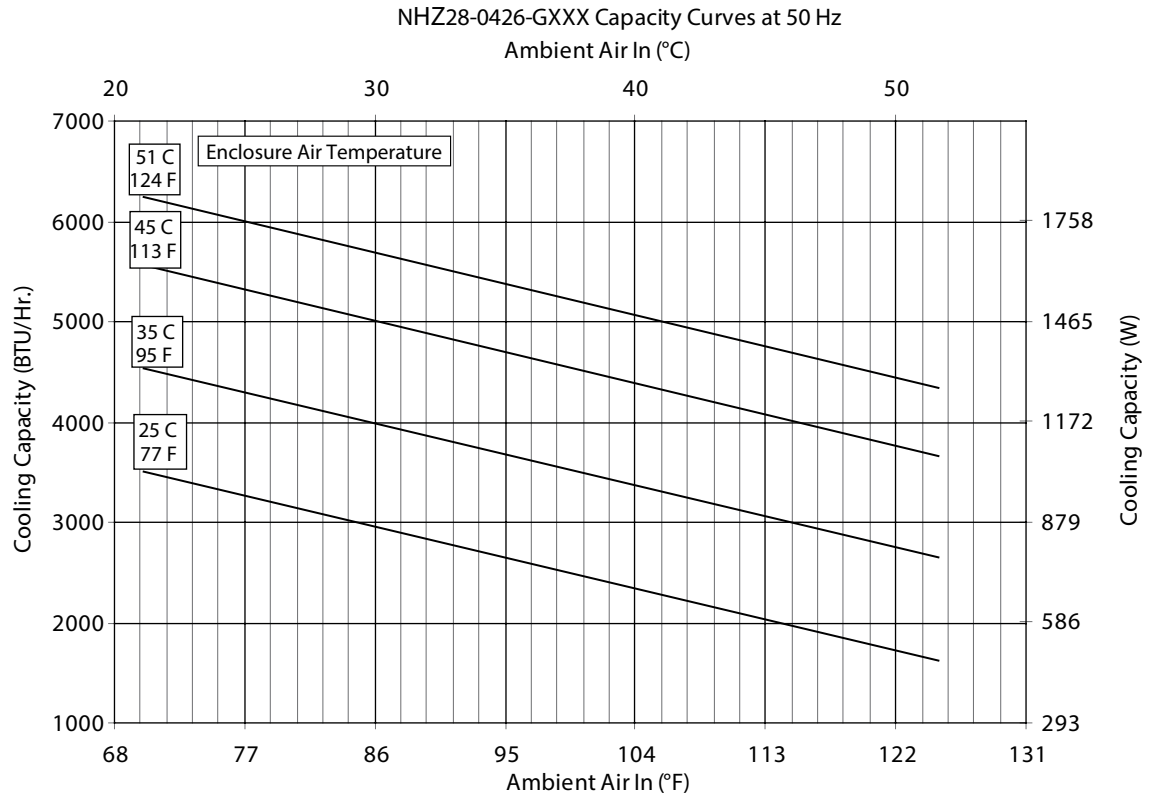
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

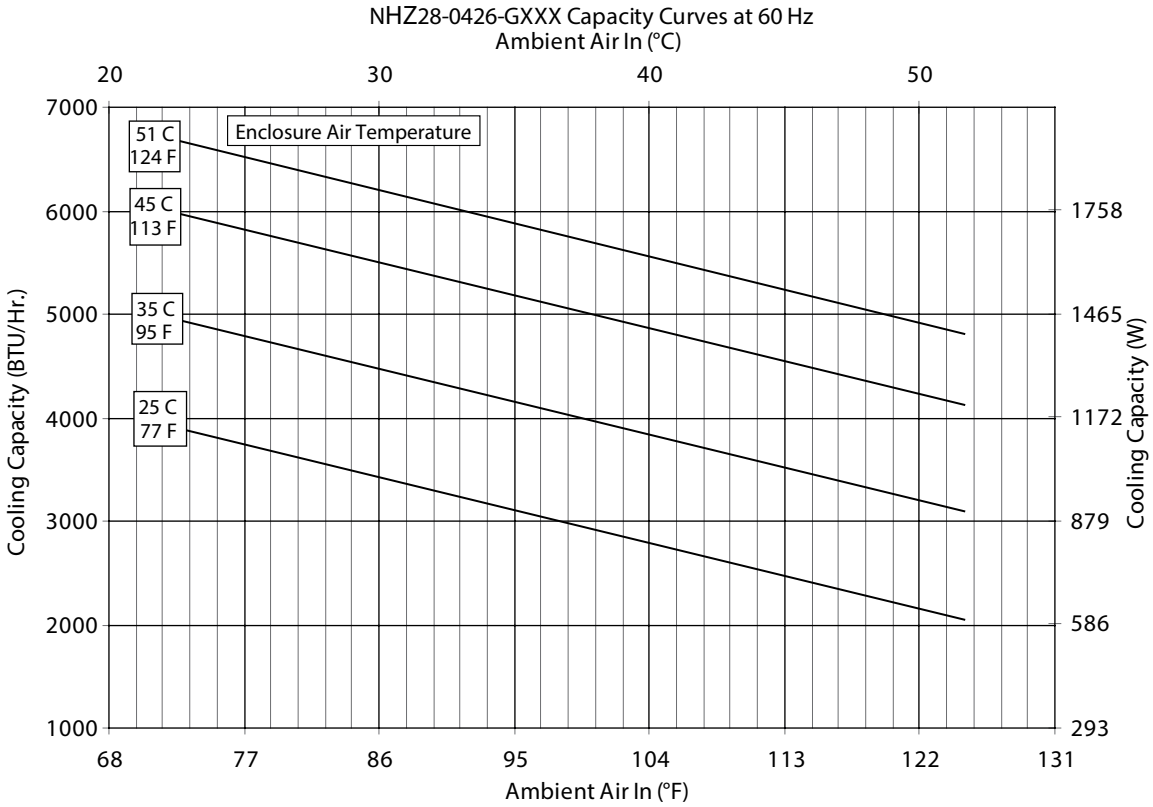
PERFORMANCE CURVES FOR NHZ28 MODELS 4000 BTU/HR (1172 WATT)

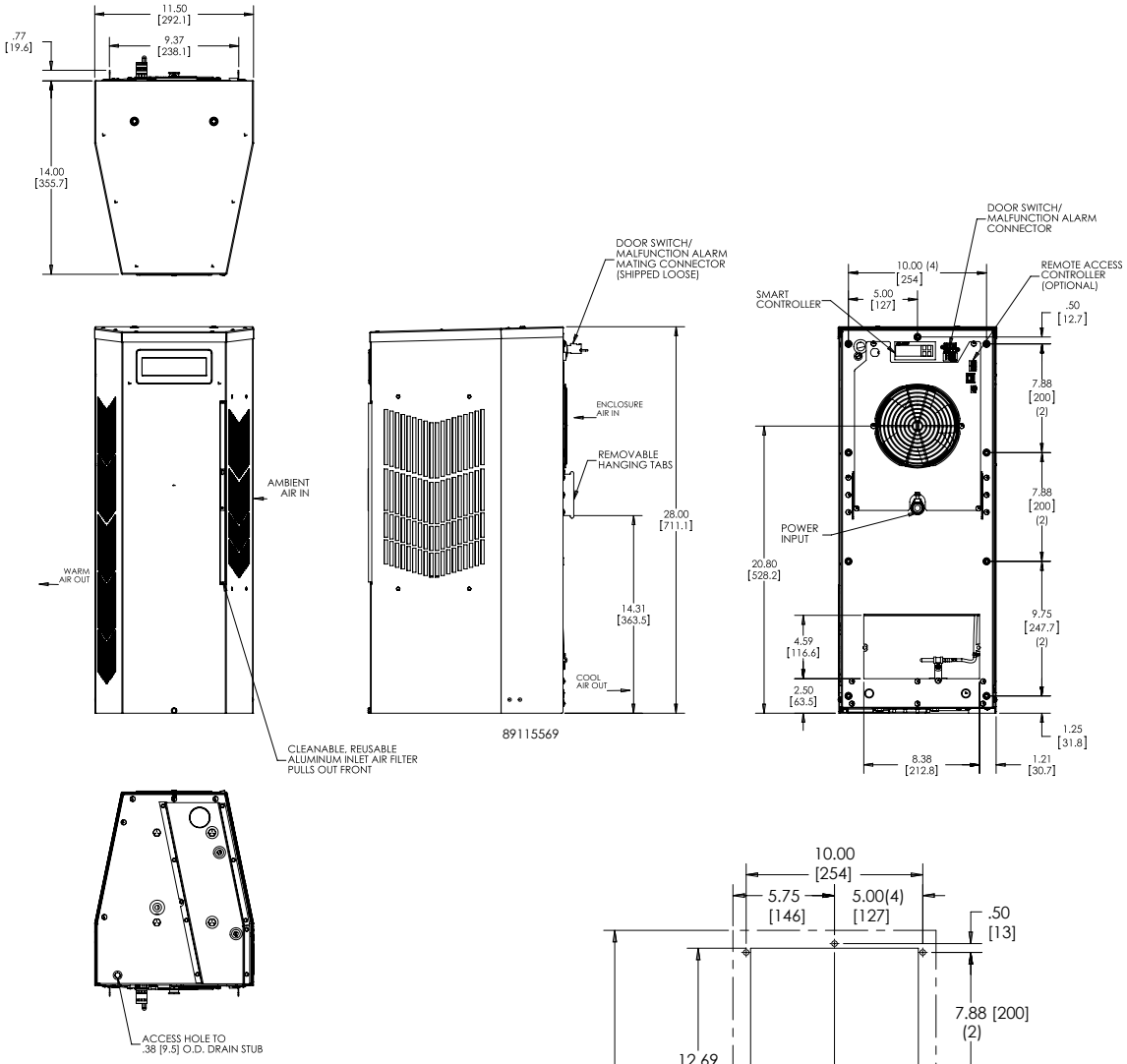


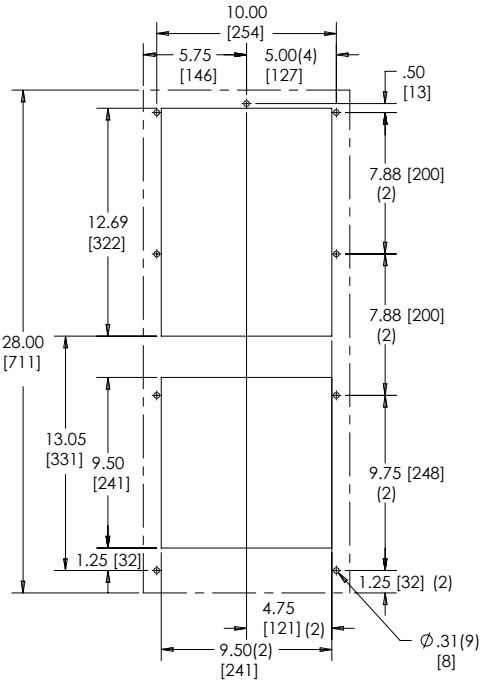


PERFORMANCE CURVES FOR NHZ28 MODELS 4000 BTU/HR (1172 WATT)









Cutout Dimensions

Visit 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*	–	–	NHZ360646G360	–	–	–
Stainless Steel Type 4X	NHZ360616G400	NHZ360626G400	NHZ360646G400	NHZ360816G400	NHZ360826G400	NHZ360846G400
Stainless Steel Type 4X Offshore	NHZ360616G500	NHZ360626G500	NHZ360646G500	–	NHZ360826G500	NHZ360846G500

Cooling Performance

Nominal:						
BTU/Hr	5400/6000	5400/6000	5400/6000	7100/7800	7400/8000	8250/8500
Watts	1581/1757	1581/1757	1581/1757	2081/2286	2169/2345	2416/2489
At 131°F/131°F (55°C/55°C):						
BTU/Hr (50/60 Hz)	5639/6217	5771/6410	5300/6089	7074/7754	7444/7955	7311/7940
Watts (50/60 Hz)	1653/1822	1691/1879	1553/1785	2073/2272	2182/2331	2143/2327
At 95°F/95°F (35°C/35°C):						
BTU/Hr (50/60 Hz)	5104/5654	5613/5647	5572/6026	6248/6739	6515/6855	6448/6716
Watts (50/60 Hz)	1496/1657	1645/1655	1633/1766	1831/1975	1909/2009	1890/1968
Refrigerant	R134a or R513A	R134a or R513A	R134a or R513A	R134a or R513A	R134a or R513A	R134a or R513A
Refrigerant Charge (Ounces/grams)	20/567	22/624	16/454	27/765	32/907	33/936
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^3/hr)	251/426	250/425	250/425	250/425	245/416	243/413
External loop 50 Hz (CFM/m^3/hr)	284/483	338/574	338/574	353/600	347/589	365/620
Internal loop 60 Hz (CFM/m^3/hr)	261/443	261/443	261/443	263/447	258/439	254/432
External loop 60 Hz (CFM/m^3/hr)	311/528	356/605	356/605	396/673	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)	914/1074	949/1097	691/783	1100/1333	1199/1476	1327/1647
Max. Nominal Current (Amps at 50/60 Hz)	8.6/9.4	4.7/5.0	1.7/1.8	9.9/11.6	5.1/6.6	3.0/3.3
Starting Current (Amps)	39.5	21.0	8.1	38.0	19.0	16.0
Agency Approvals cUL Listed	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	66.9 dBA	66.7 dBA	68.2 dBA	74.5 dBA	66.0 dBA	66.0 dBA

Unit Construction

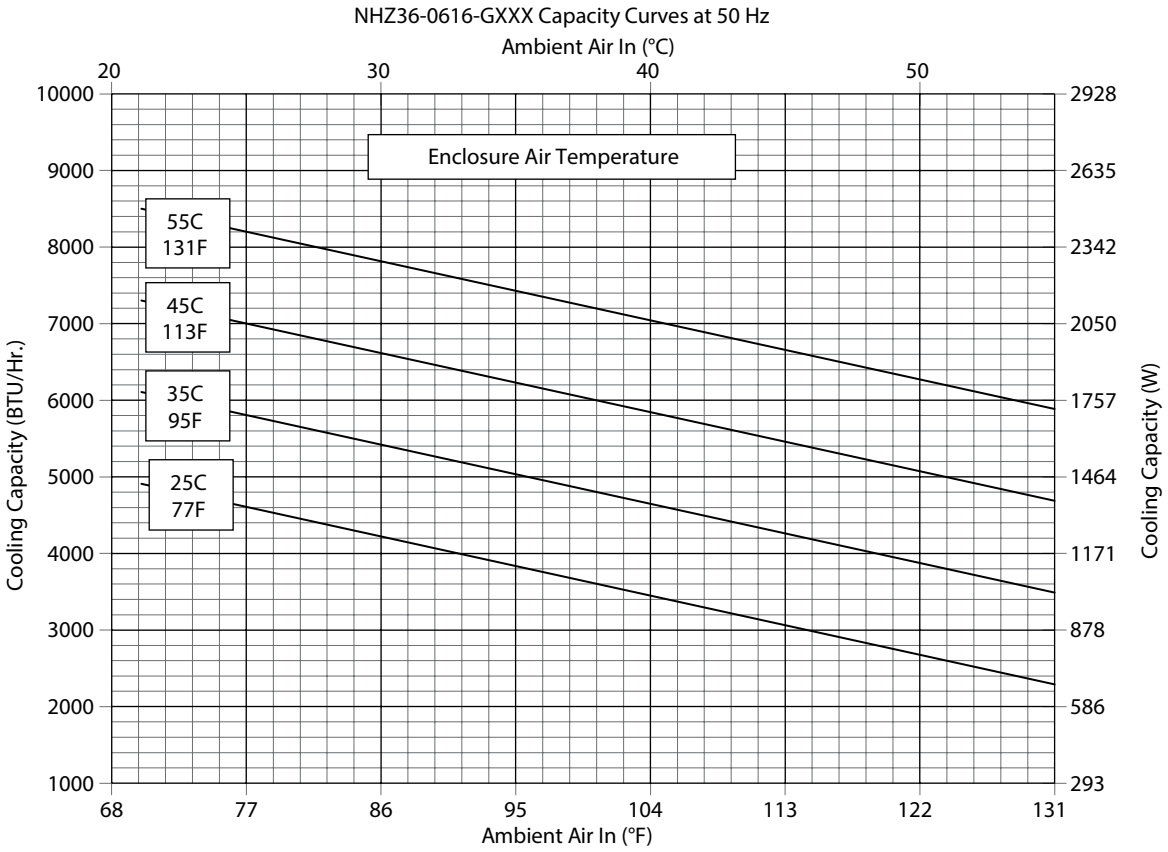
Material	Galvanized Sheet Metal Type 4 Models | Stainless steel 316L Type 4X and Offshore Models
Finish	RAL 7035 light–gray, semi–textured powder–coat paint standard | Other colors available

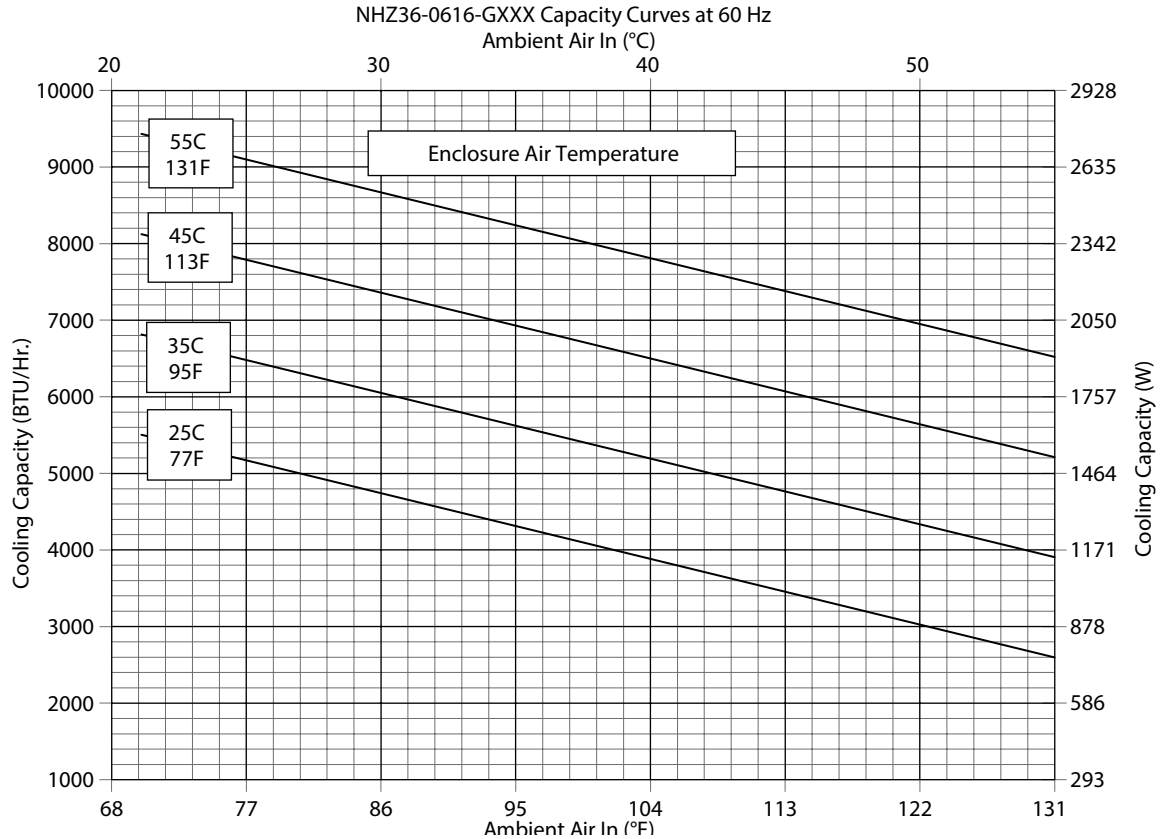
Unit Dimensions

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

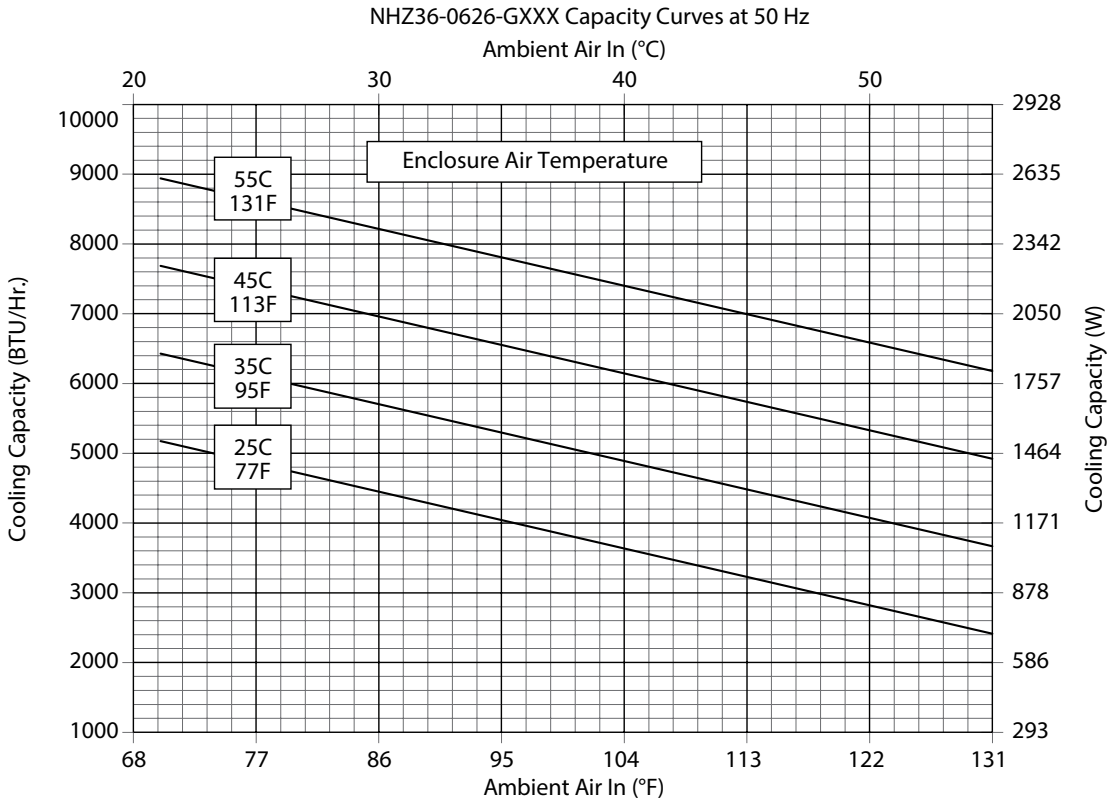
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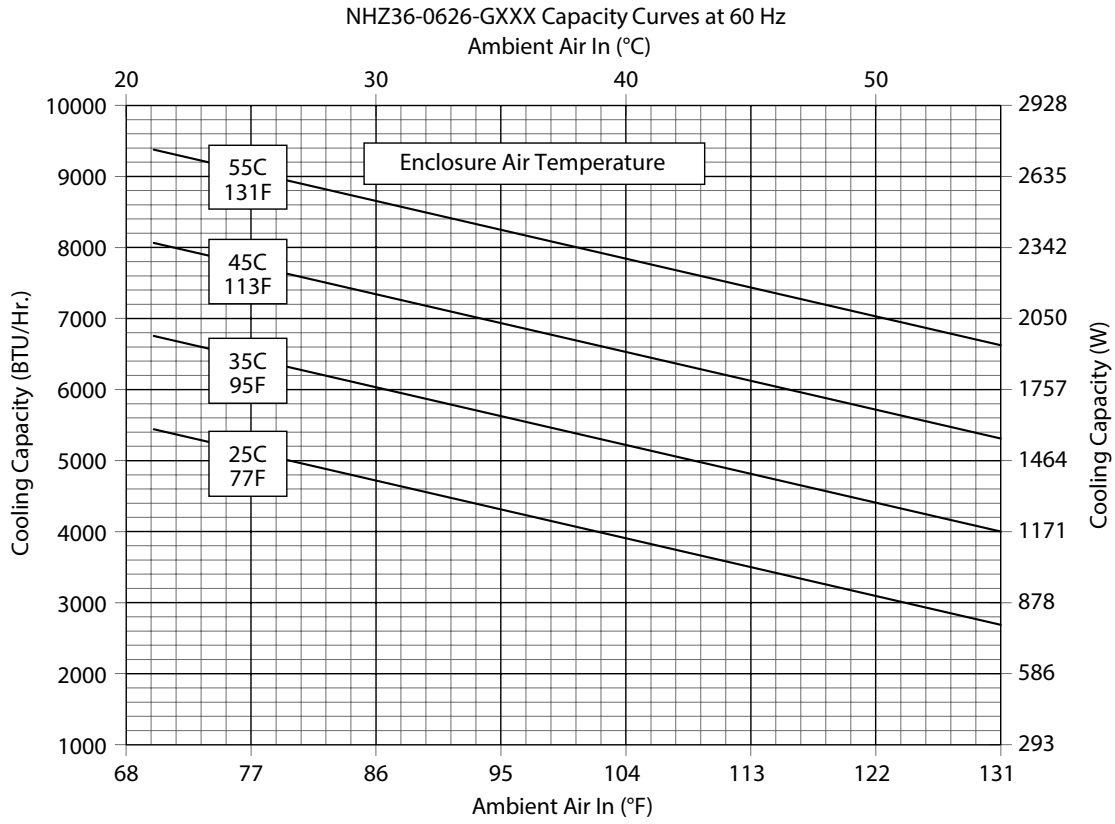
PERFORMANCE CURVES FOR NHZ36 MODELS 6000 BTU/HR (1758 WATT)



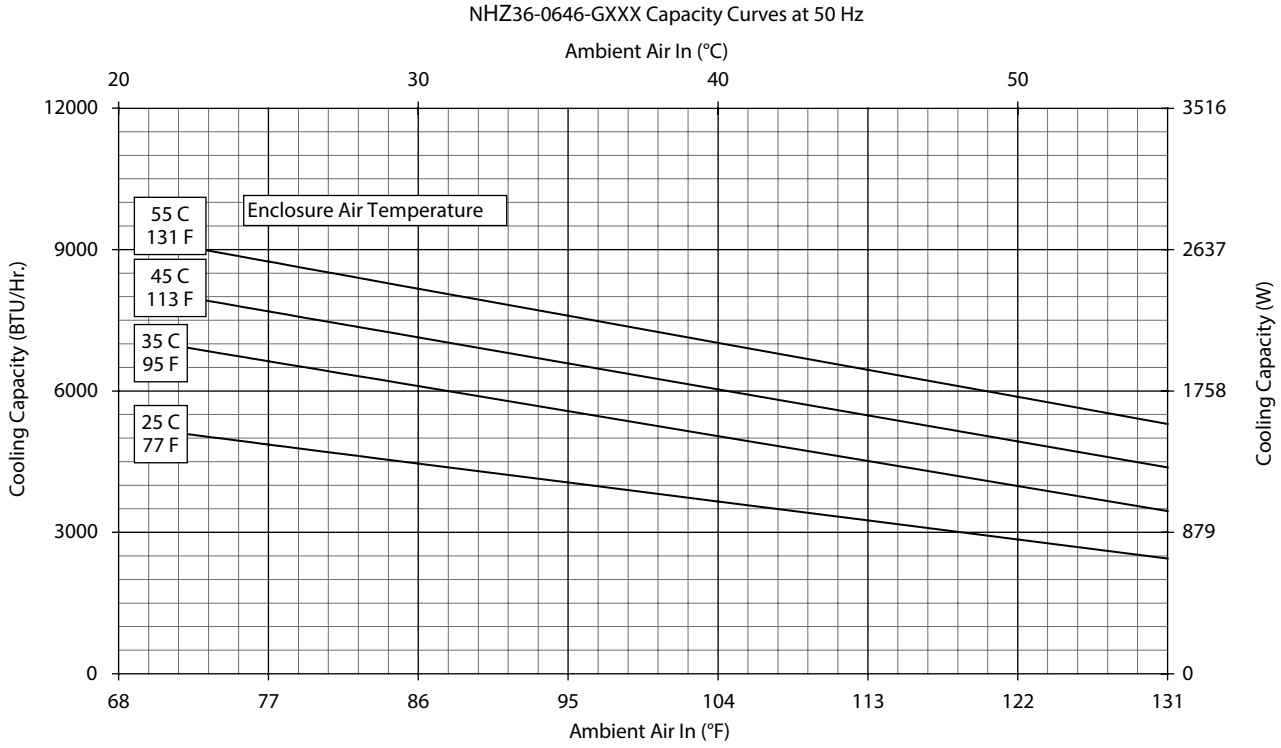


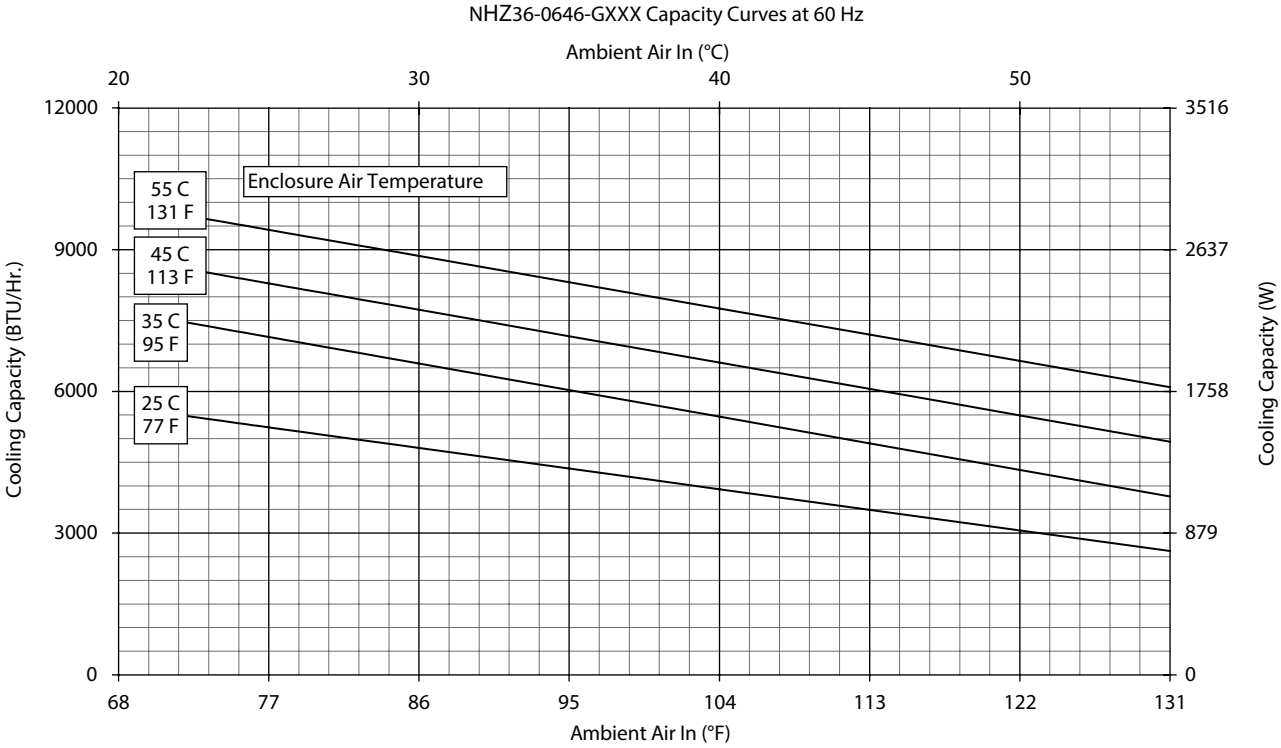
PERFORMANCE CURVES FOR NHZ36 MODELS 6000 BTU/HR. (1758 WATT)



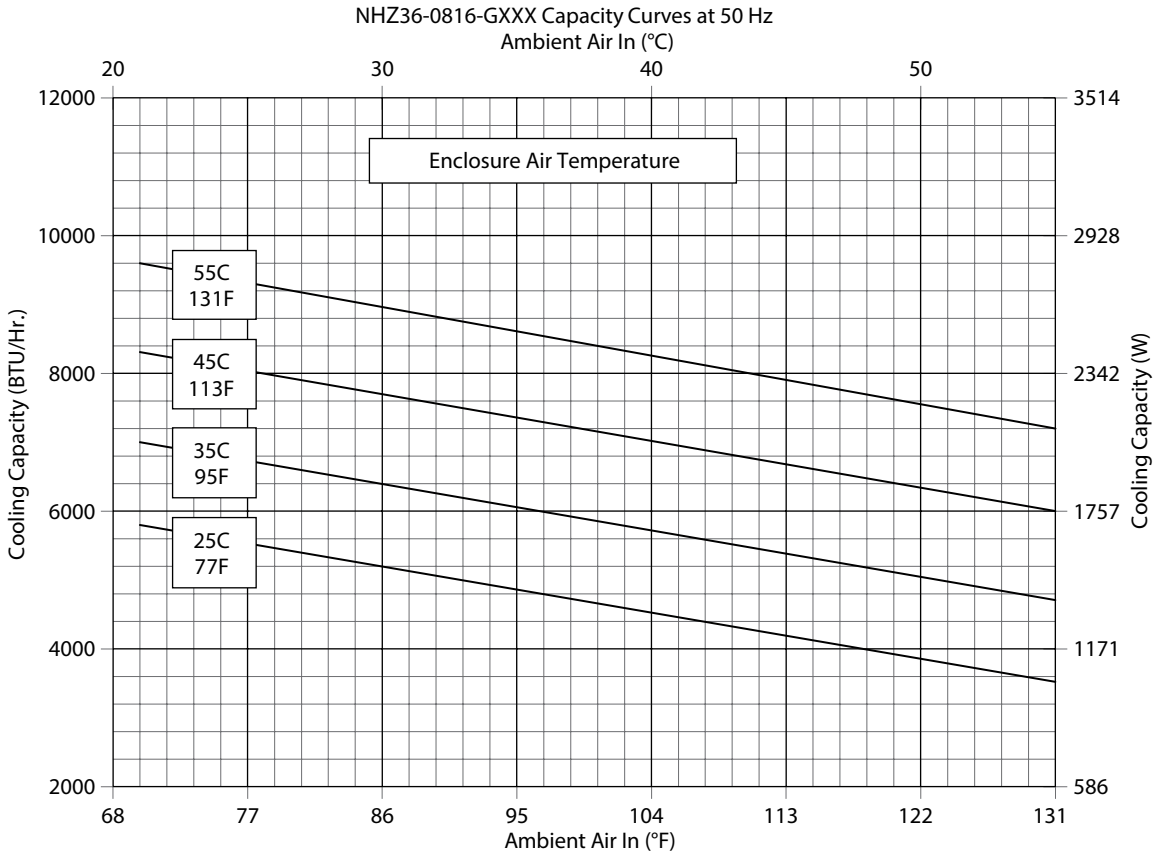


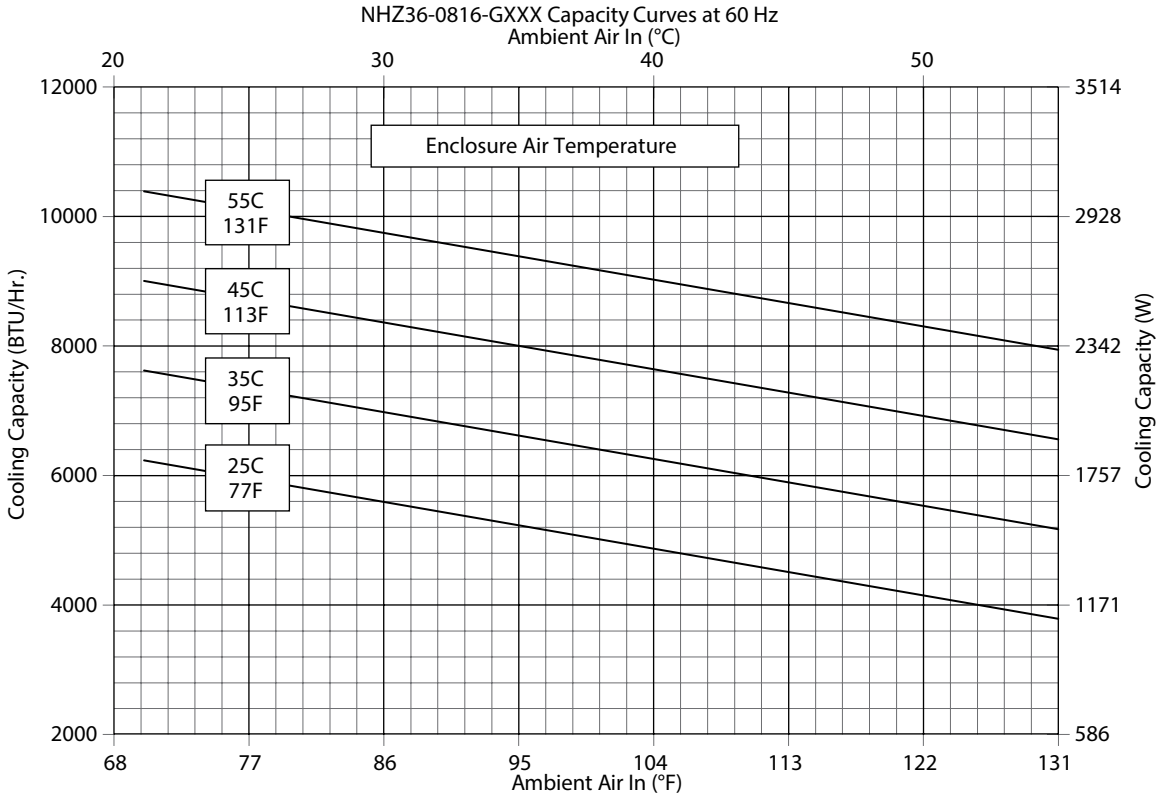
PERFORMANCE CURVES FOR NHZ36 MODELS 6000 BTU/HR (1758 WATT)



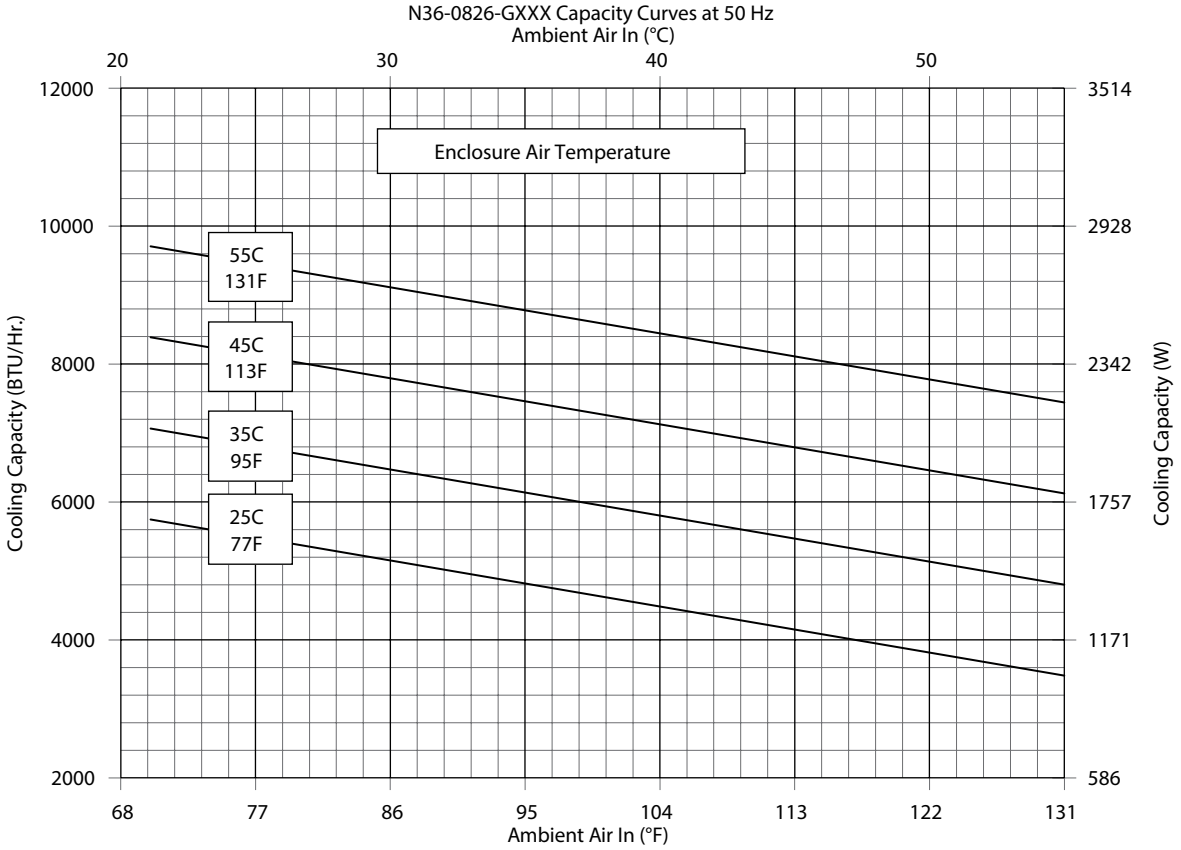


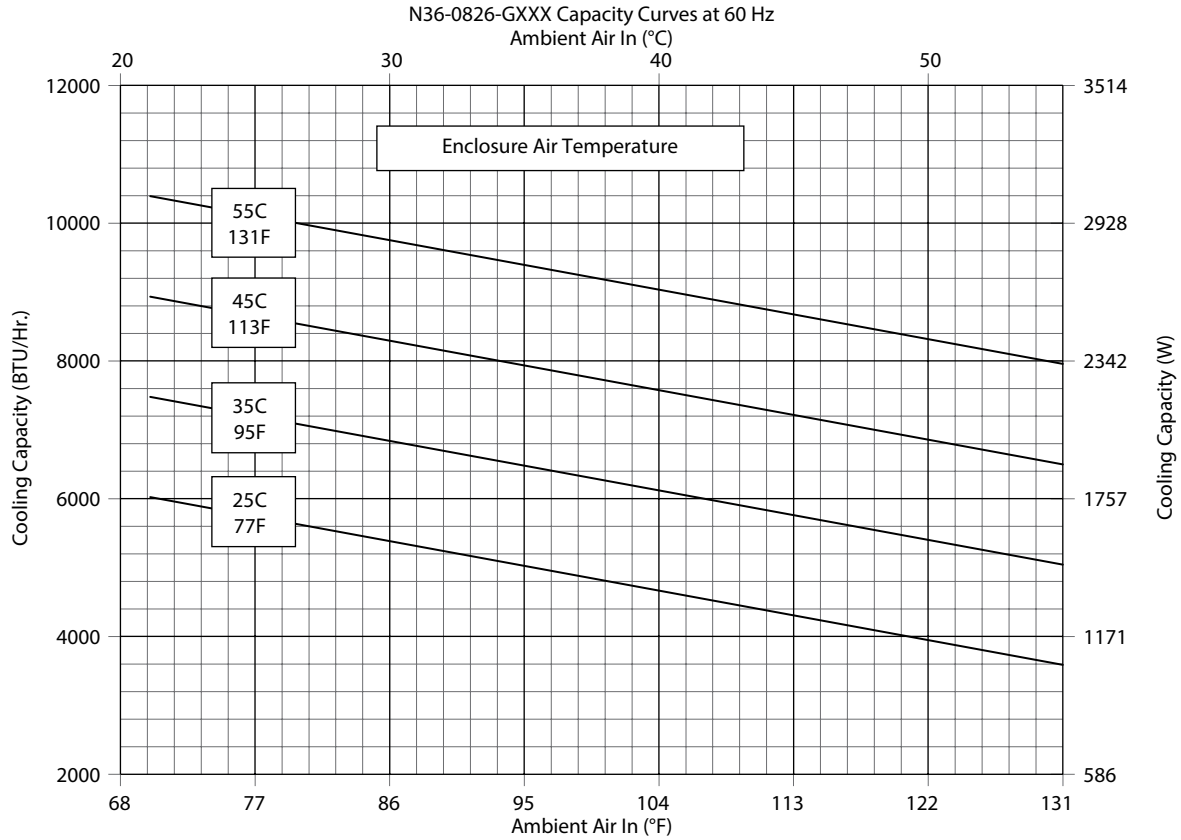
PERFORMANCE CURVES FOR NHZ36 MODELS 8000 BTU/HR (2344 WATT)



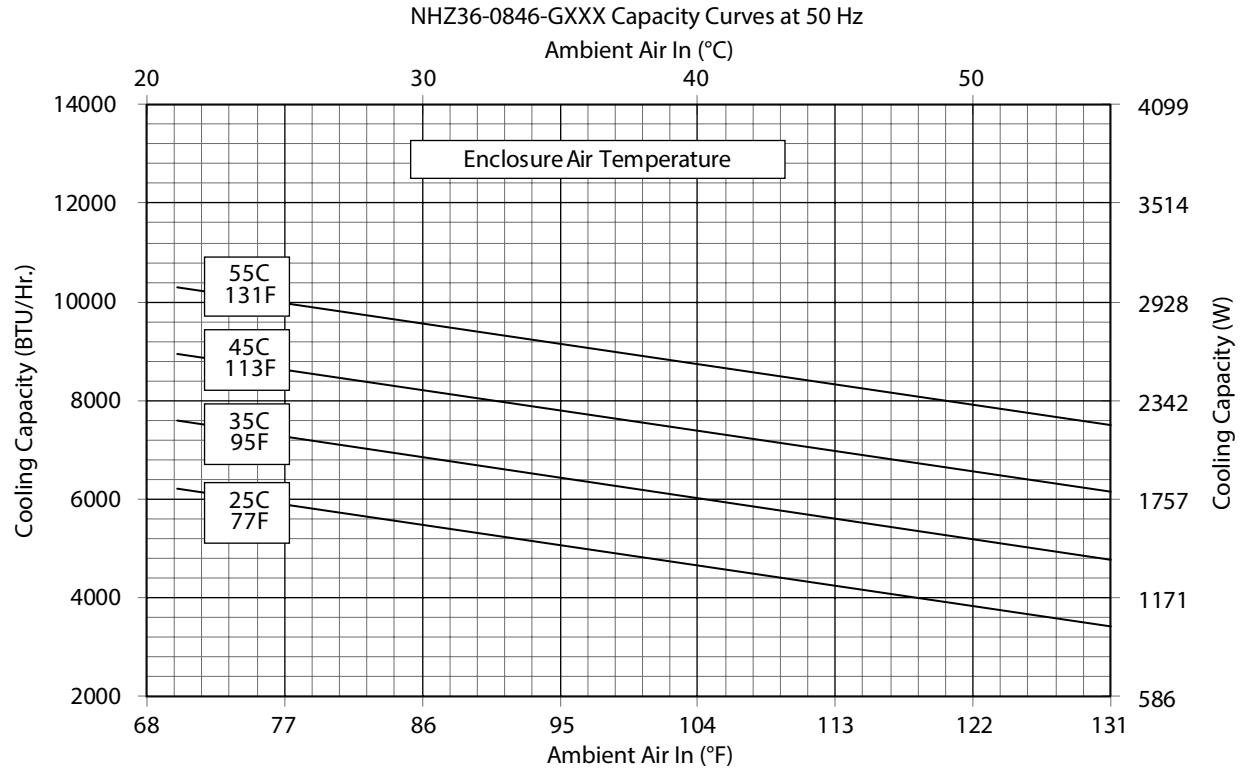


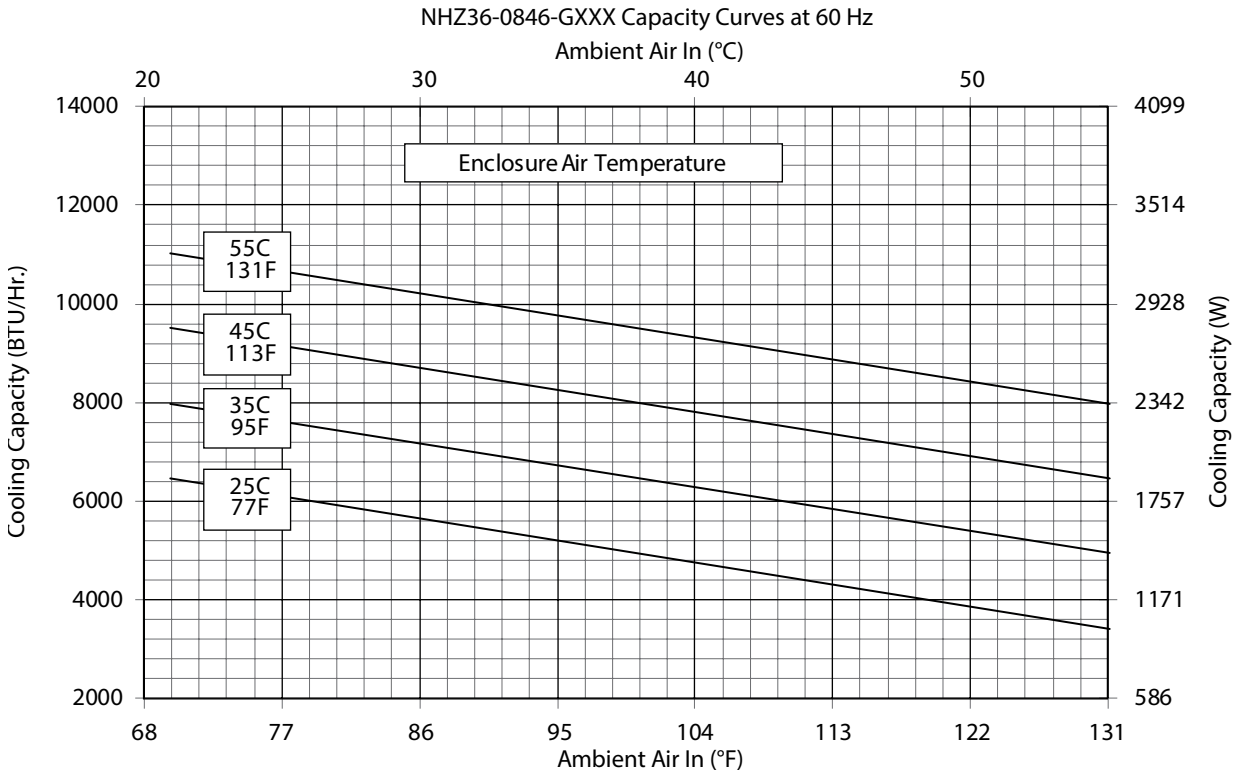
PERFORMANCE CURVES FOR NHZ36 MODELS 8000 BTU/HR (2344 WATT)

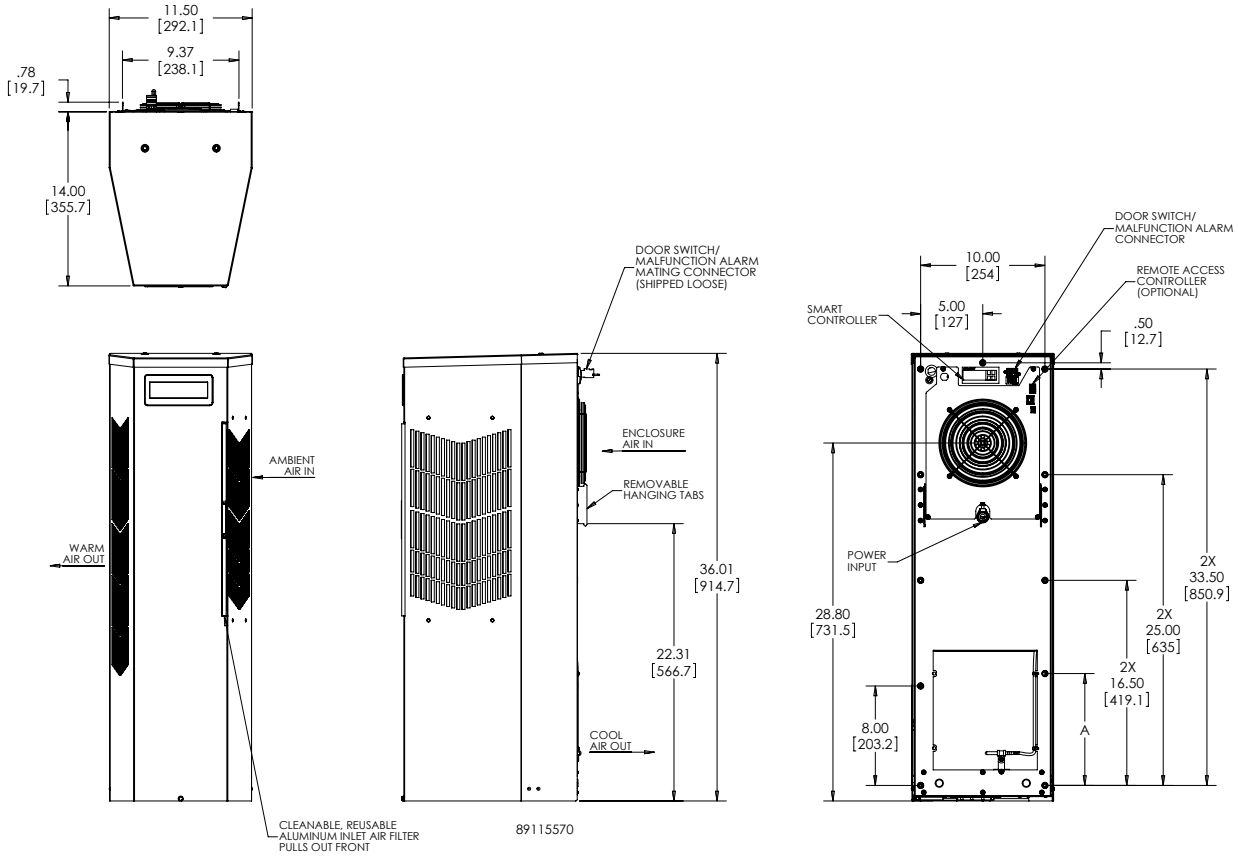


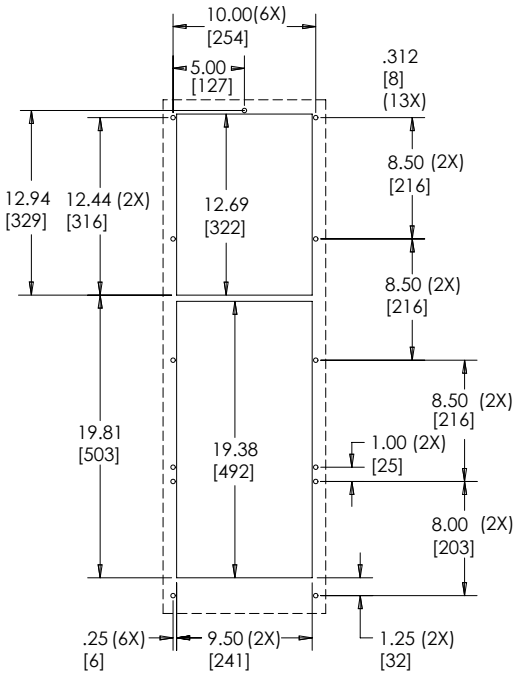


PERFORMANCE CURVES FOR NHZ36 MODELS 8000 BTU/HR (2344 WATT)









Cutout Dimensions

Visit 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*	—	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

Nominal:			
BTU/Hr	10400/11000	10400/11000	10400/11000
Watts	3047/3223	3047/3223	3047/3223
At 131°F/131°F (55°C/55°C):			
BTU/Hr (50/60Hz)	9555/10793	9664/10420	9669/10463
Watts (50/60Hz)	2800/3163	2832/3054	2384/3066
At 95°F/95°F (35°C/35°C):			
BTU/Hr (50/60Hz)	8875/10044	8713/9232	8352/9322
Watts (50/60Hz)	2601/2944	2554/2706	2448/2732
Refrigerant	R134a or R513A	R134a or R513A	R134a or R513A
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^3/hr)	239/406	259/440	254/432
External loop 50 Hz (CFM/m^3/hr)	494/839	489/831	341/579
Internal loop 60 Hz (CFM/m^3/hr)	250/425	267/454	260/442
External loop 60 Hz (CFM/m^3/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 50/60Hz)	1741/2260	1762/2226	1678/2107
Max. Nominal Current (Amps at 50/60Hz)	16.2/20.8	7.9/10.2	3.4/3.6
Starting Current (Amps)	60	30/28	20/18
Agency Approvals	cUL Listed | 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

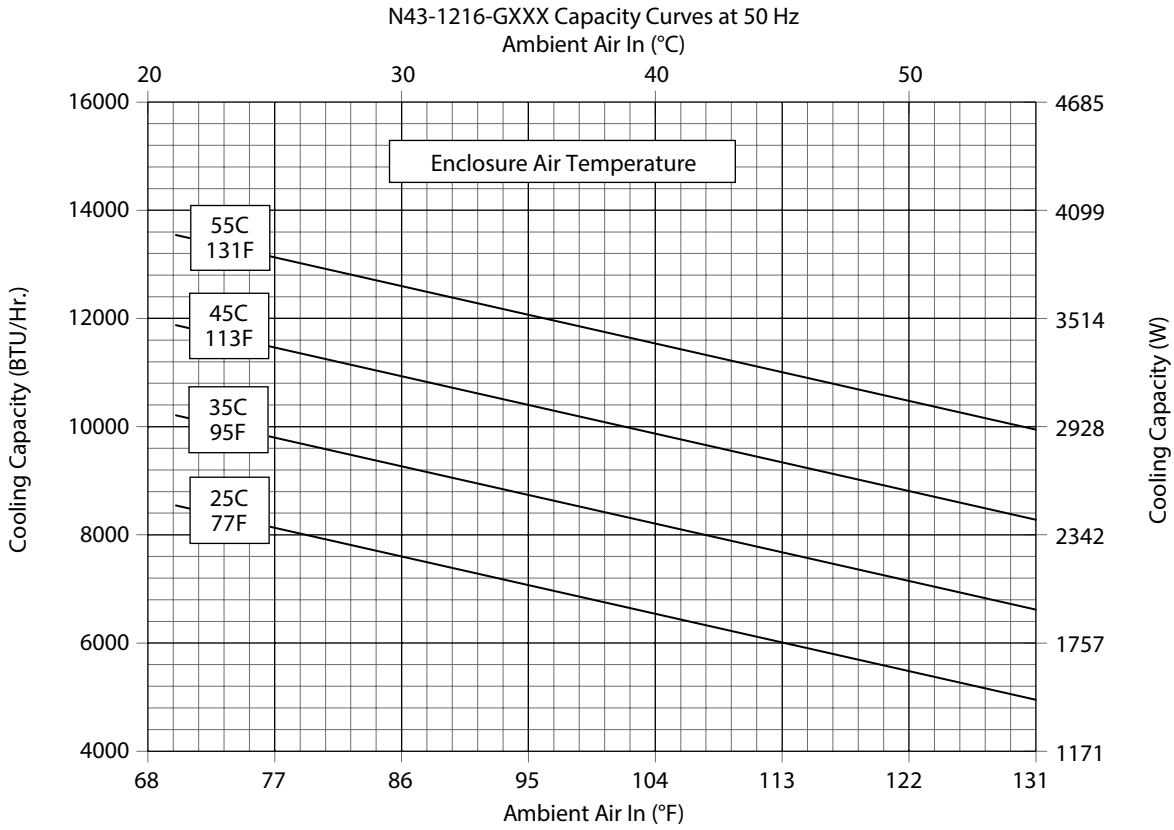
Material	Galvanized Sheet Metal Type 4 Models | Stainless steel 316L Type 4X and Offshore Models
Finish	RAL 7035 light–gray, semi–textured powder–coat paint standard | Other colors available

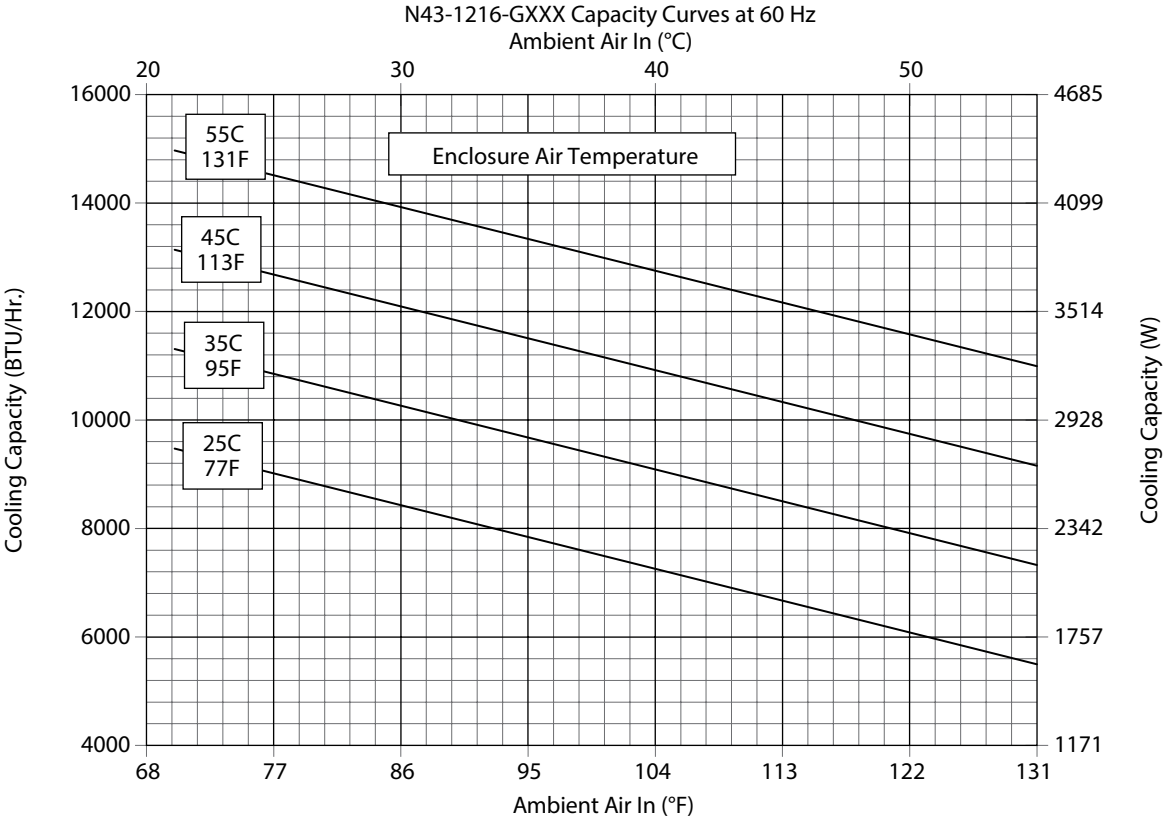
Unit Dimensions

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

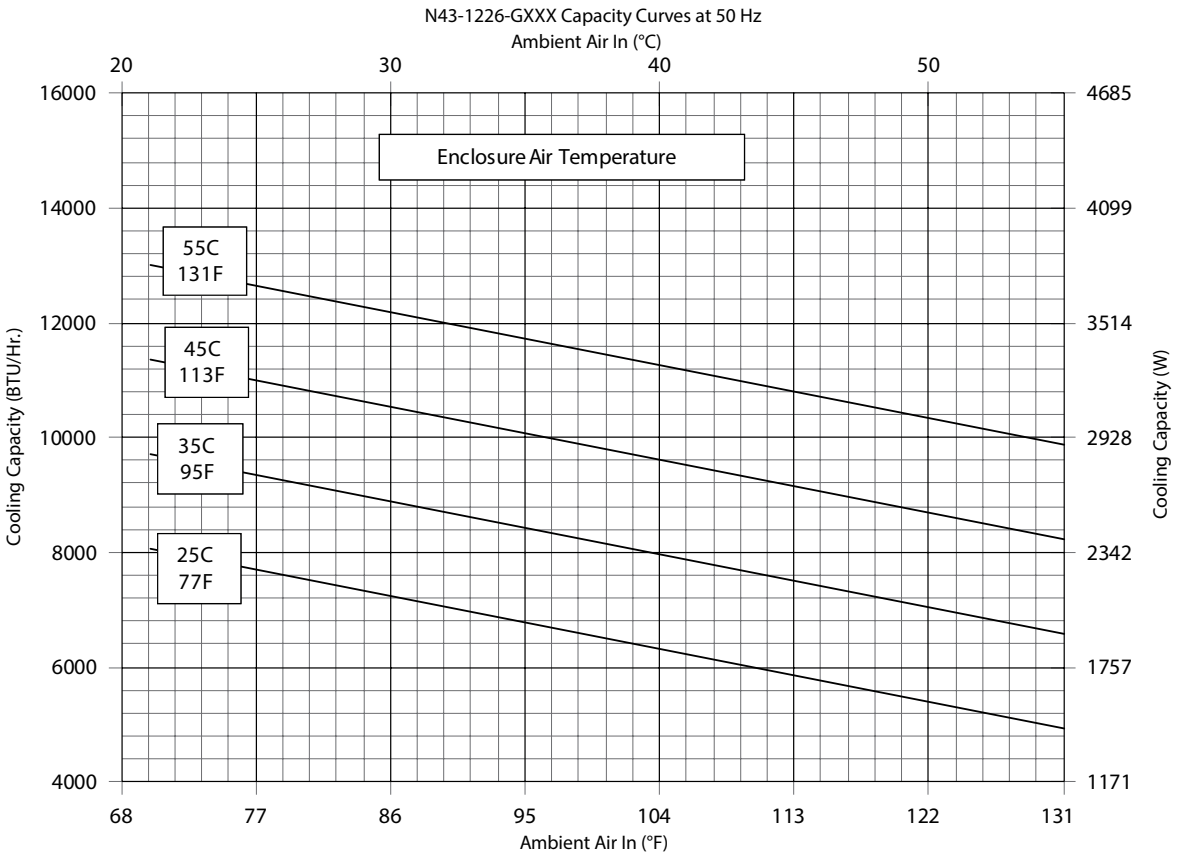
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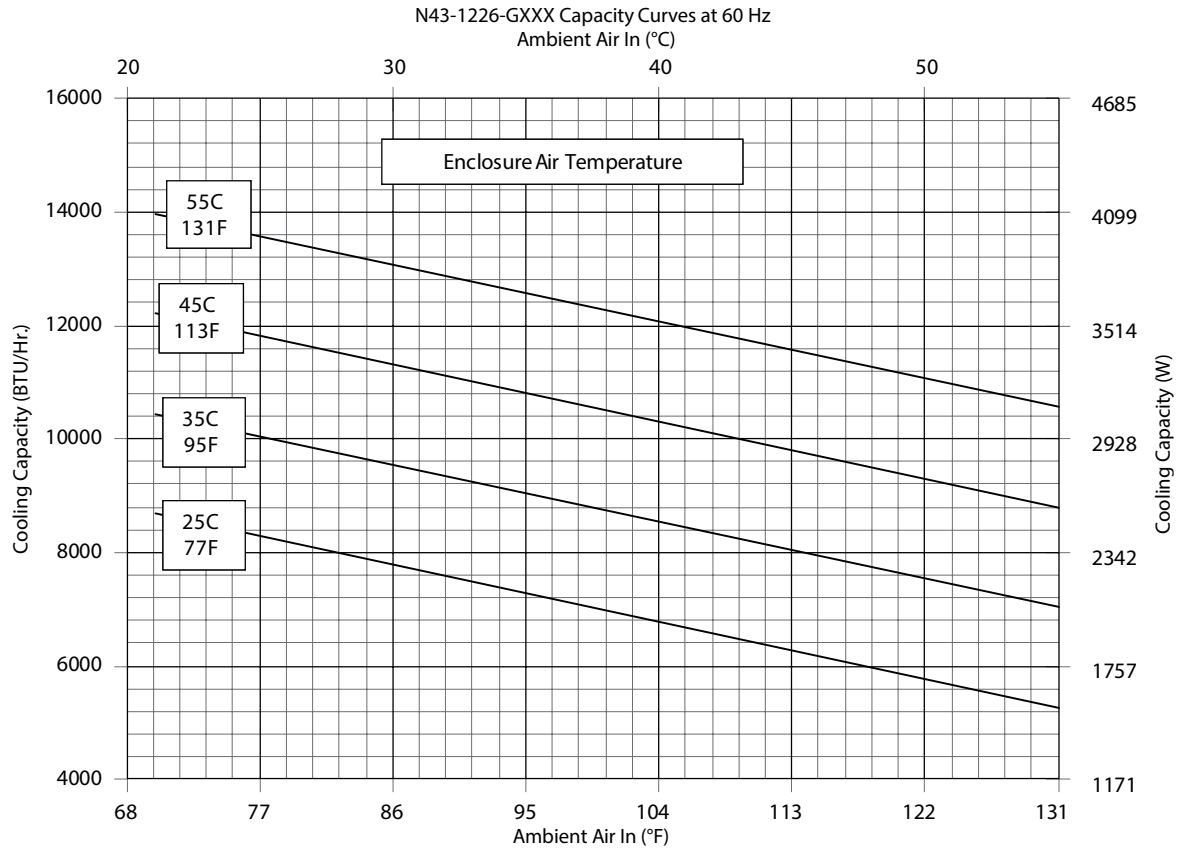
PERFORMANCE CURVES FOR NHZ43 MODELS 11000 BTU/HR (3223 WATT)



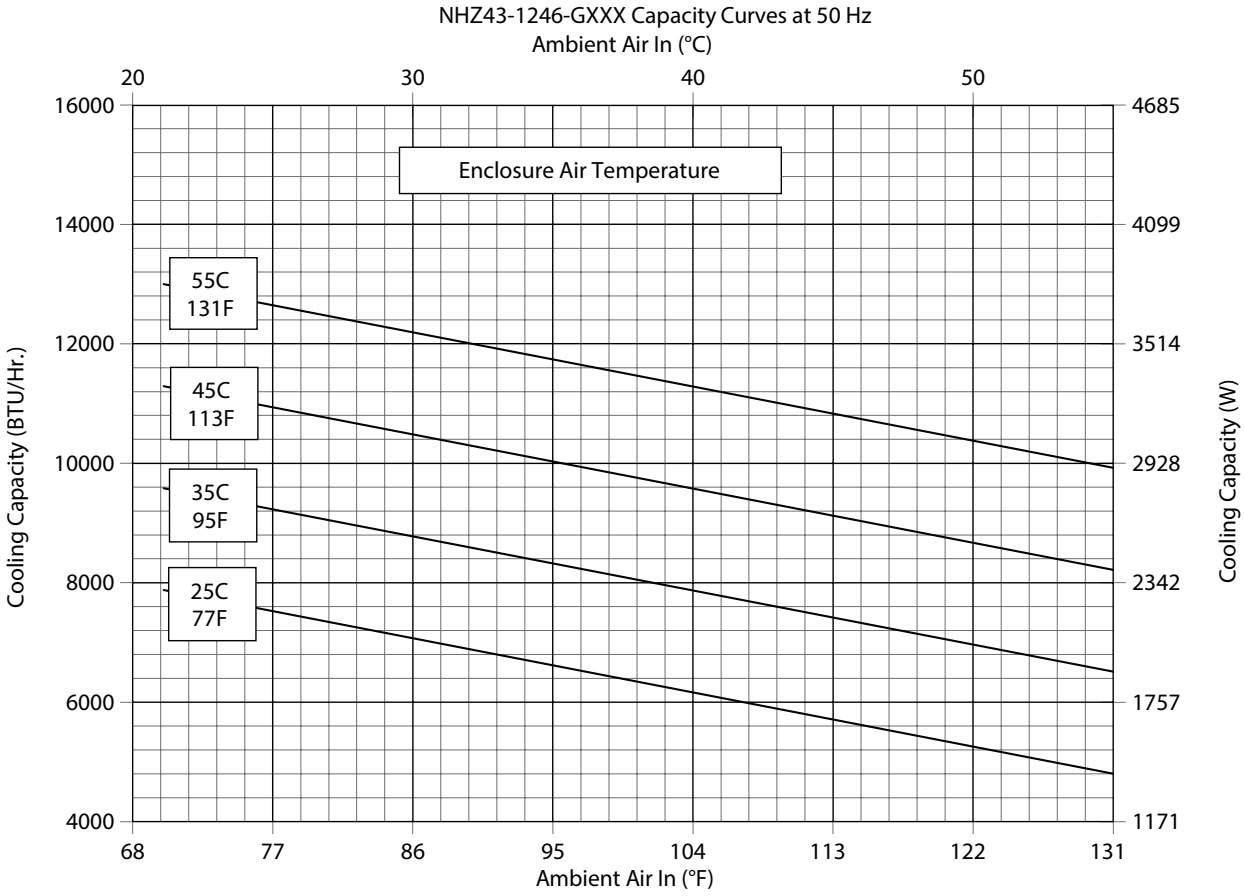


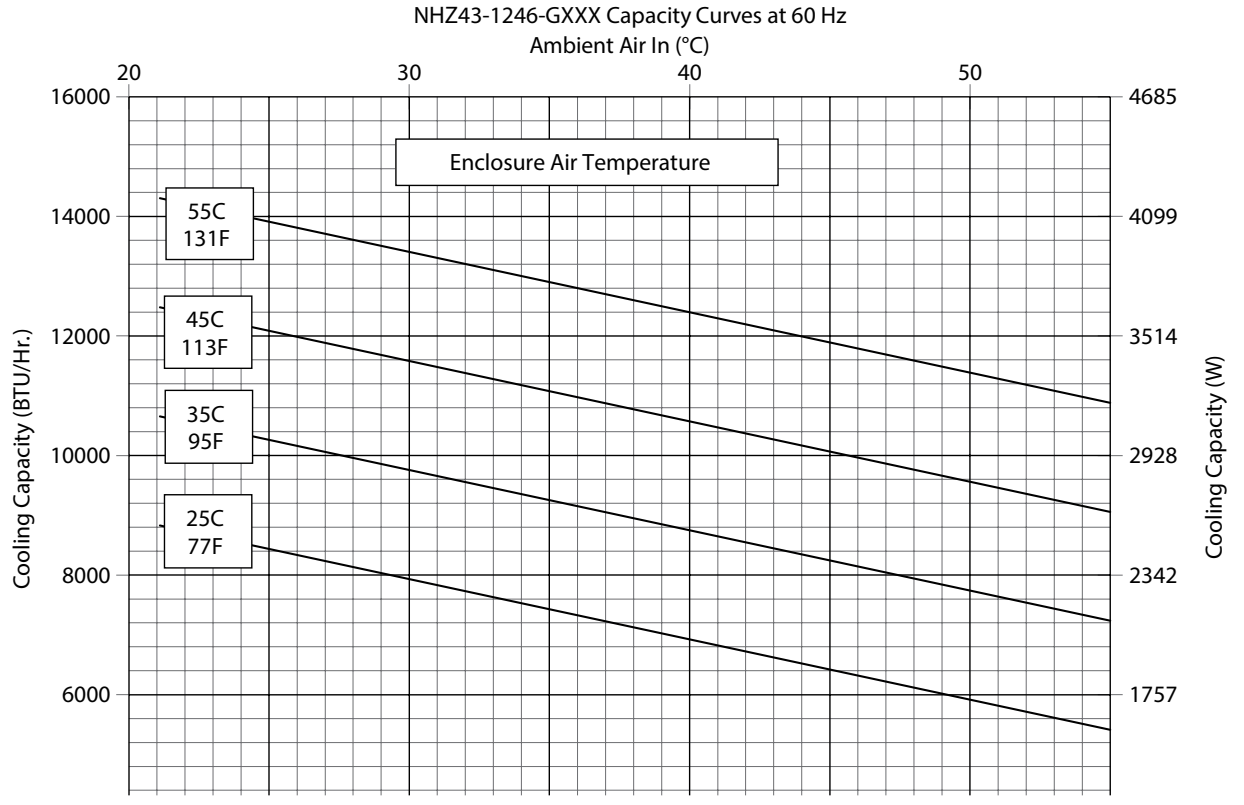
PERFORMANCE CURVES FOR NHZ43 MODELS 11000 BTU/HR (3223 WATT)



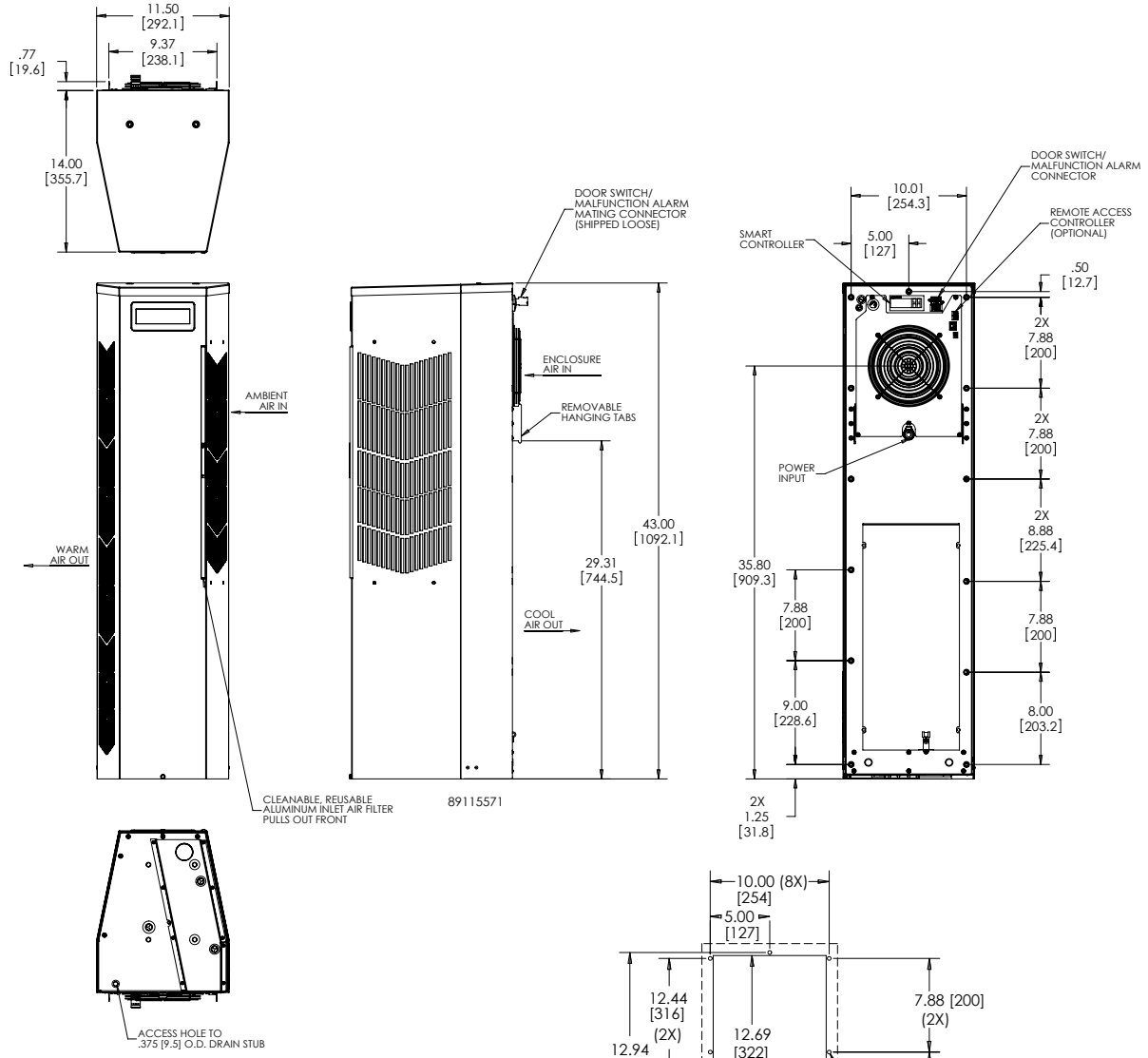


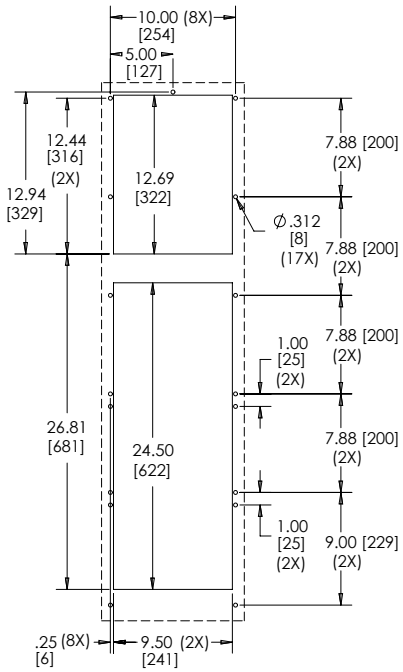
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