

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
 - 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 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/m³/hr)	138/234	N/A	N/A
External loop 50 Hz (CFM/m³/hr)	268/455	N/A	N/A
Internal loop 60 Hz (CFM/m³/hr)	143/362	143/243	143/243
External loop 60 Hz (CFM/m³/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
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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
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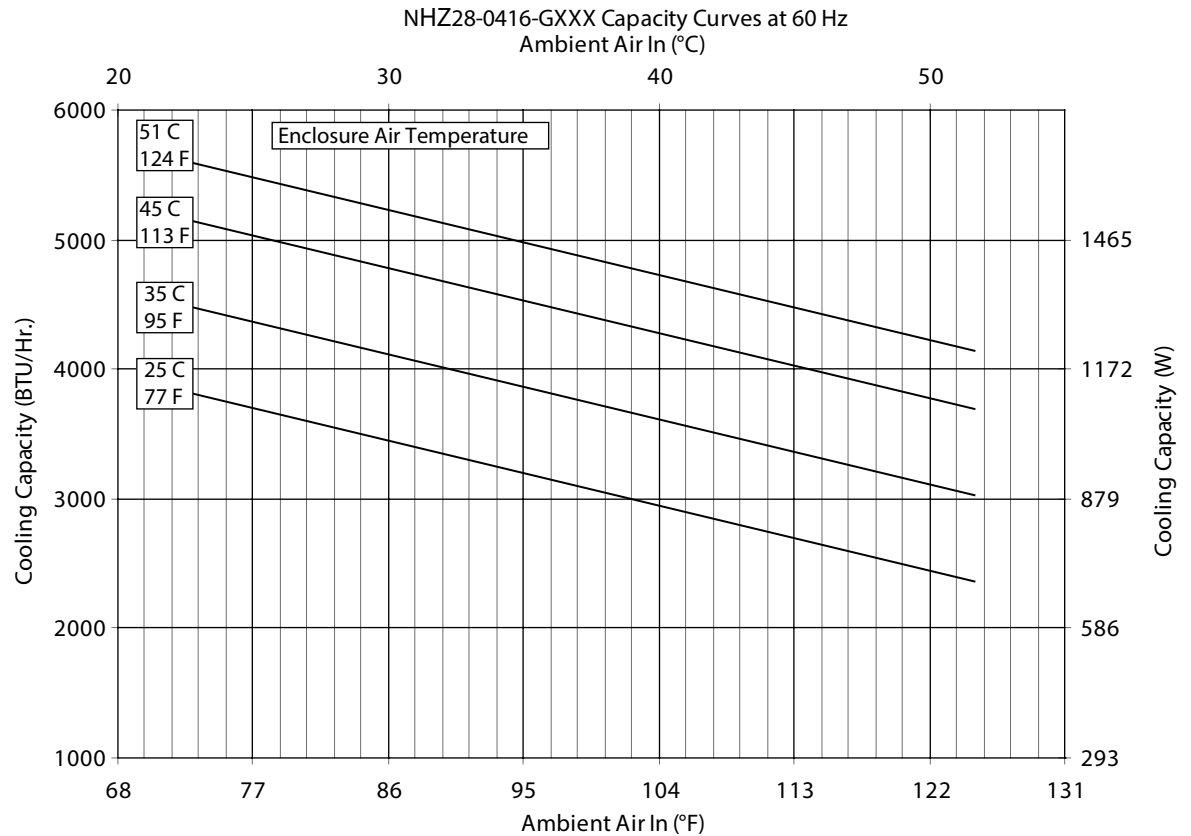
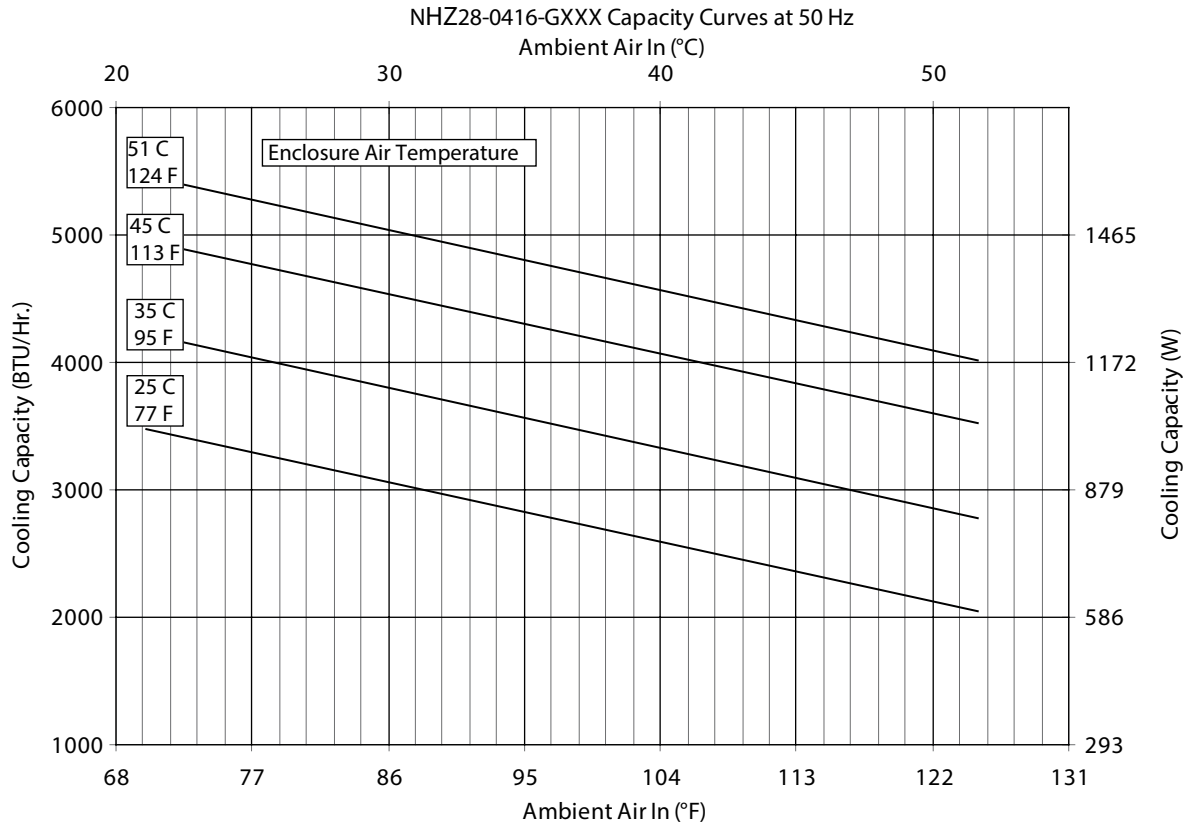
Unit Construction

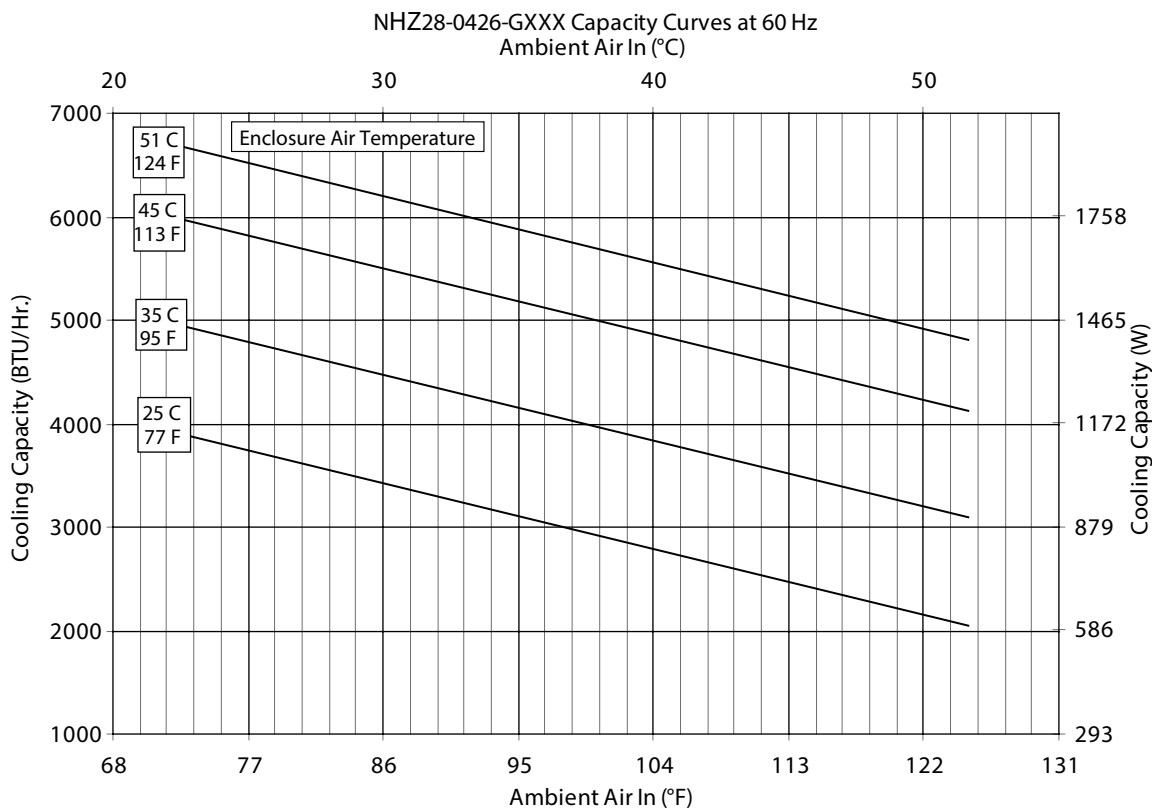
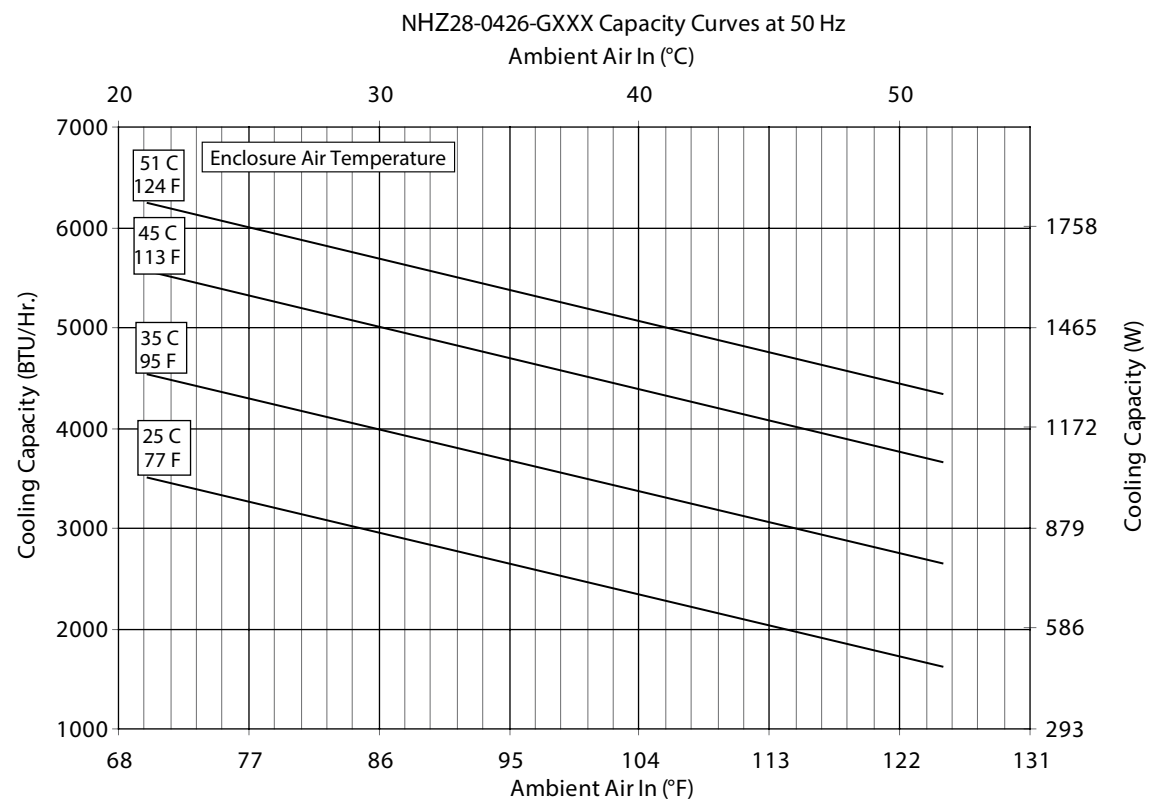
Material	Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

Unit Dimensions

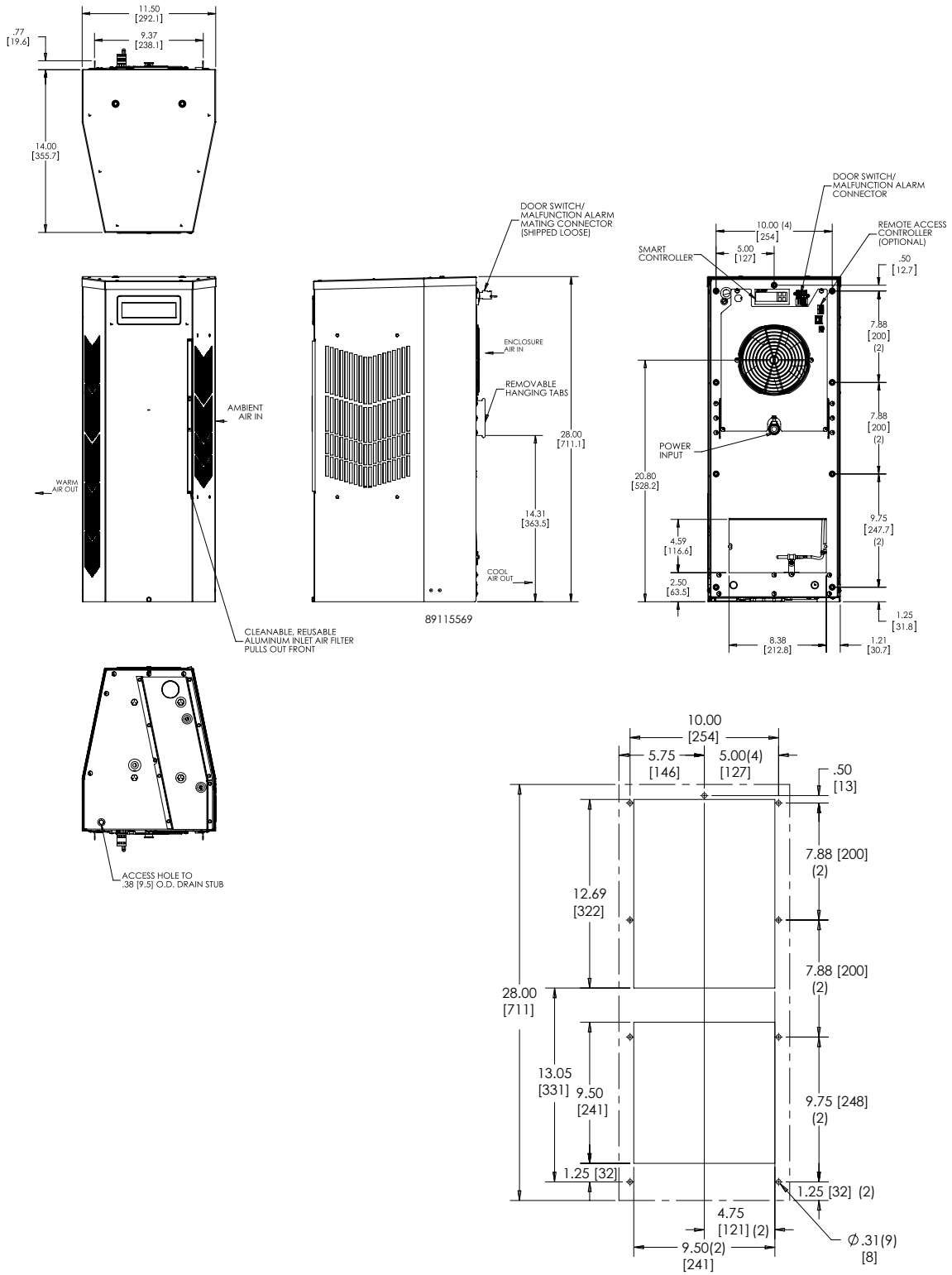
Height (in/mm)	28/711.2		
Width (in/mm)	11.50/292.1		
Depth (in/mm)	14.00/355.6		
Weight (lb/kg)	84/38	84/38	98/44

*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.





NHZ28 MODELS 4000 BTU/HR (1172 WATT)



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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/m³/hr)	251/426	250/425	250/425	250/425	245/416	243/413
External loop 50 Hz (CFM/m³/hr)	284/483	338/574	338/574	353/600	347/589	365/620
Internal loop 60 Hz (CFM/m³/hr)	261/443	261/443	261/443	263/447	258/439	254/432
External loop 60 Hz (CFM/m³/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
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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
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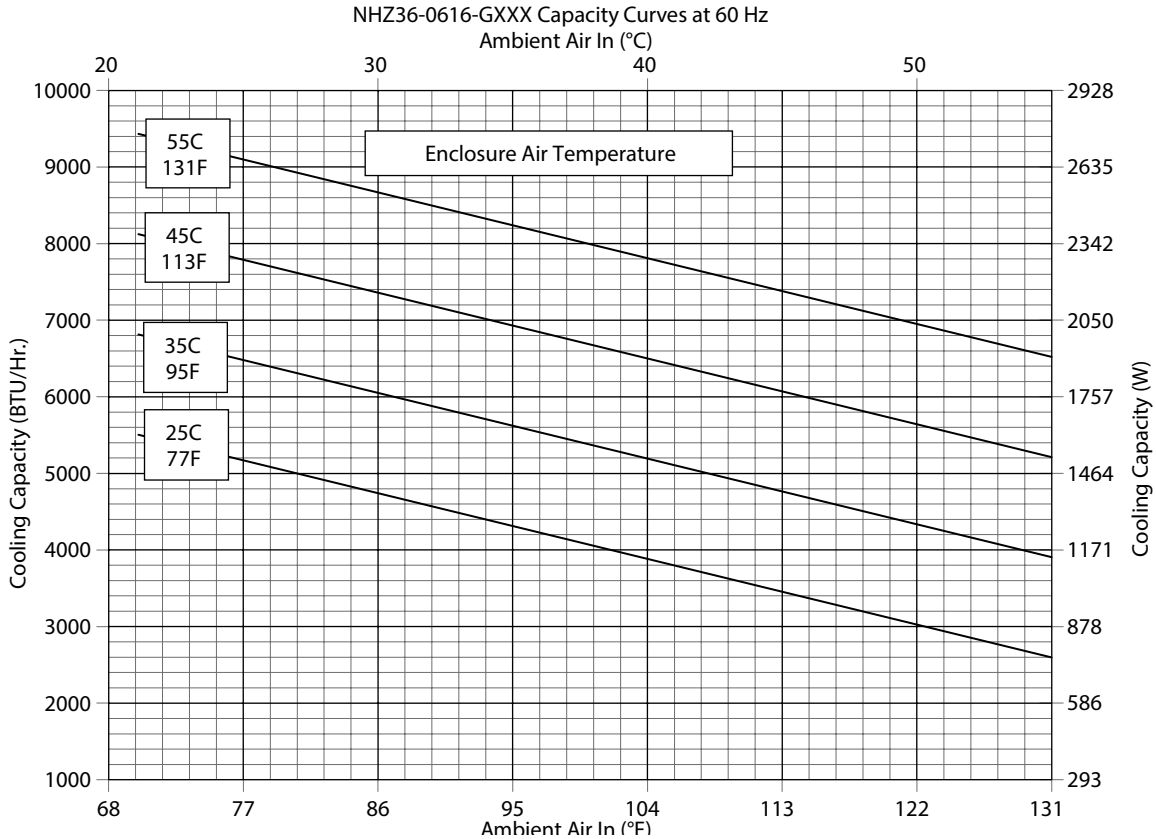
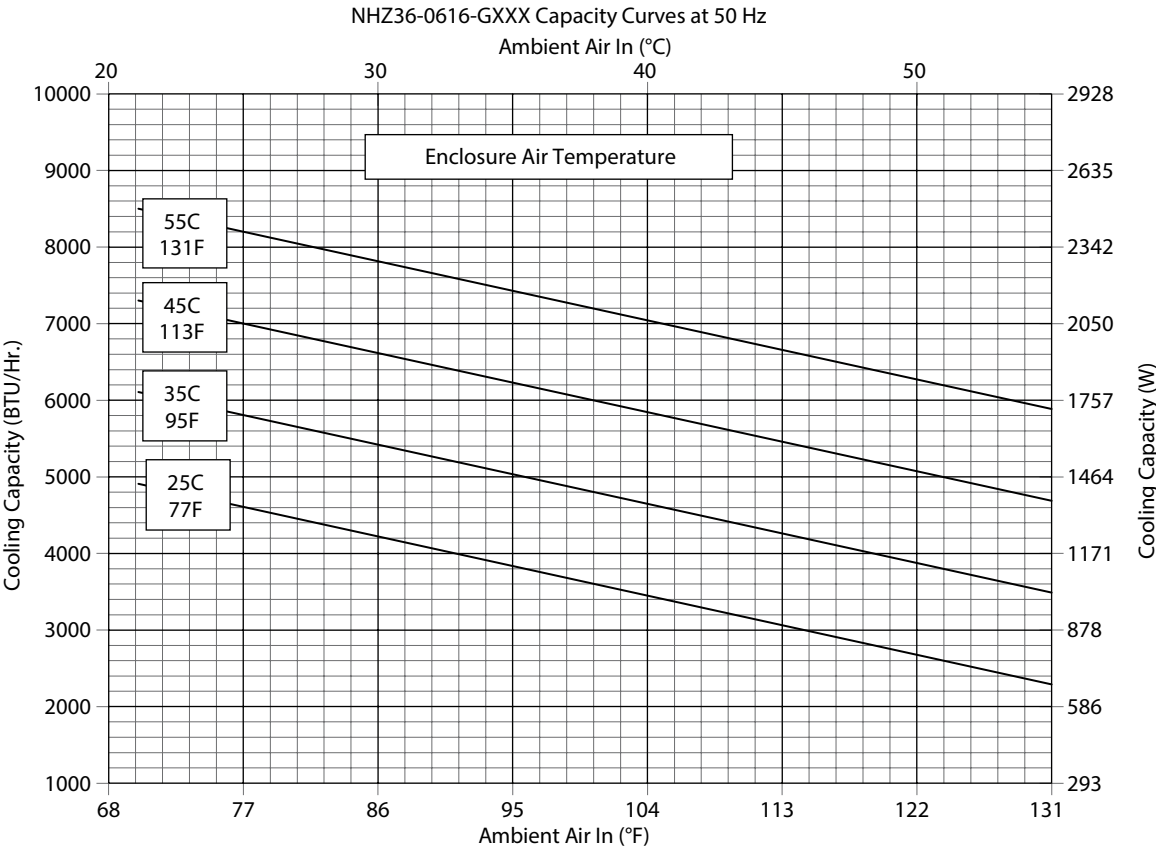
Unit Construction

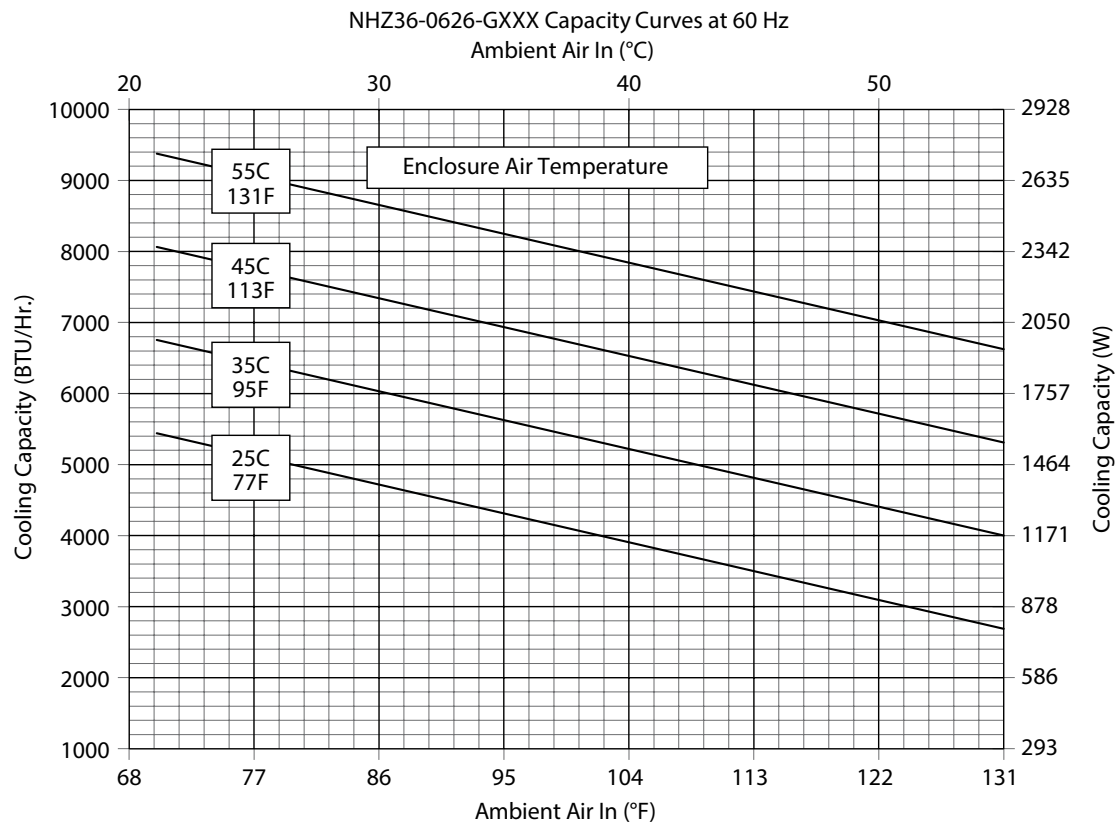
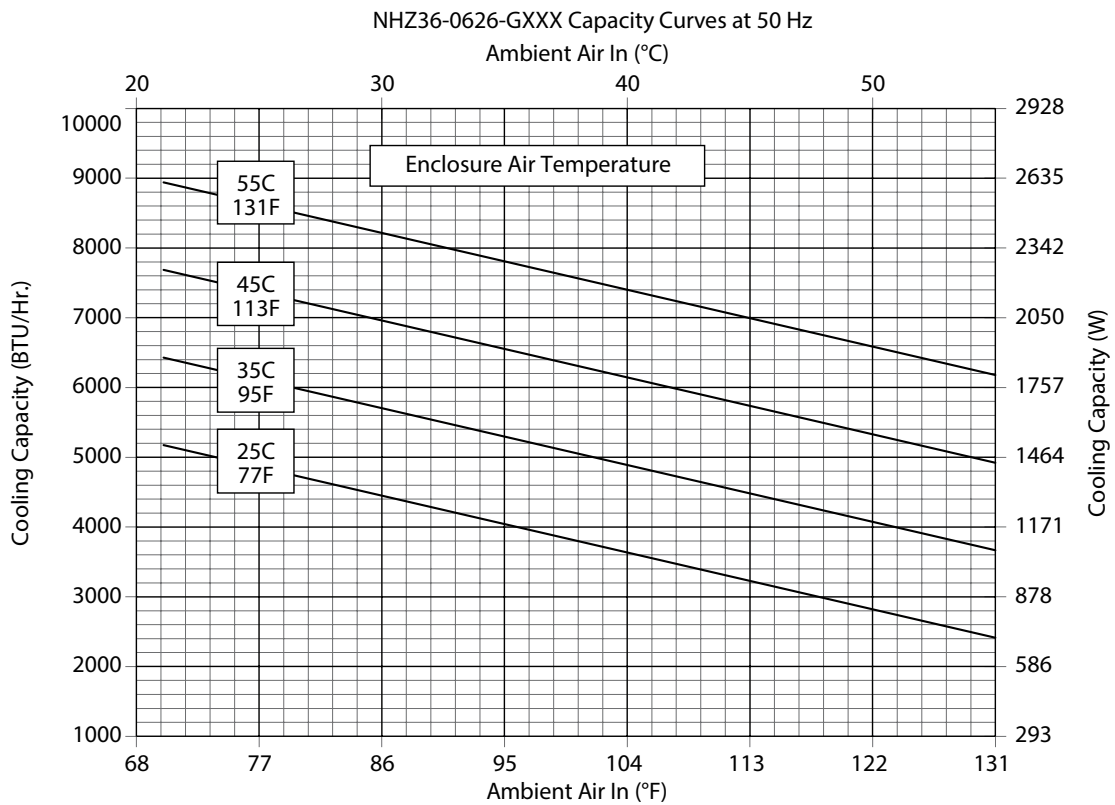
Material	Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

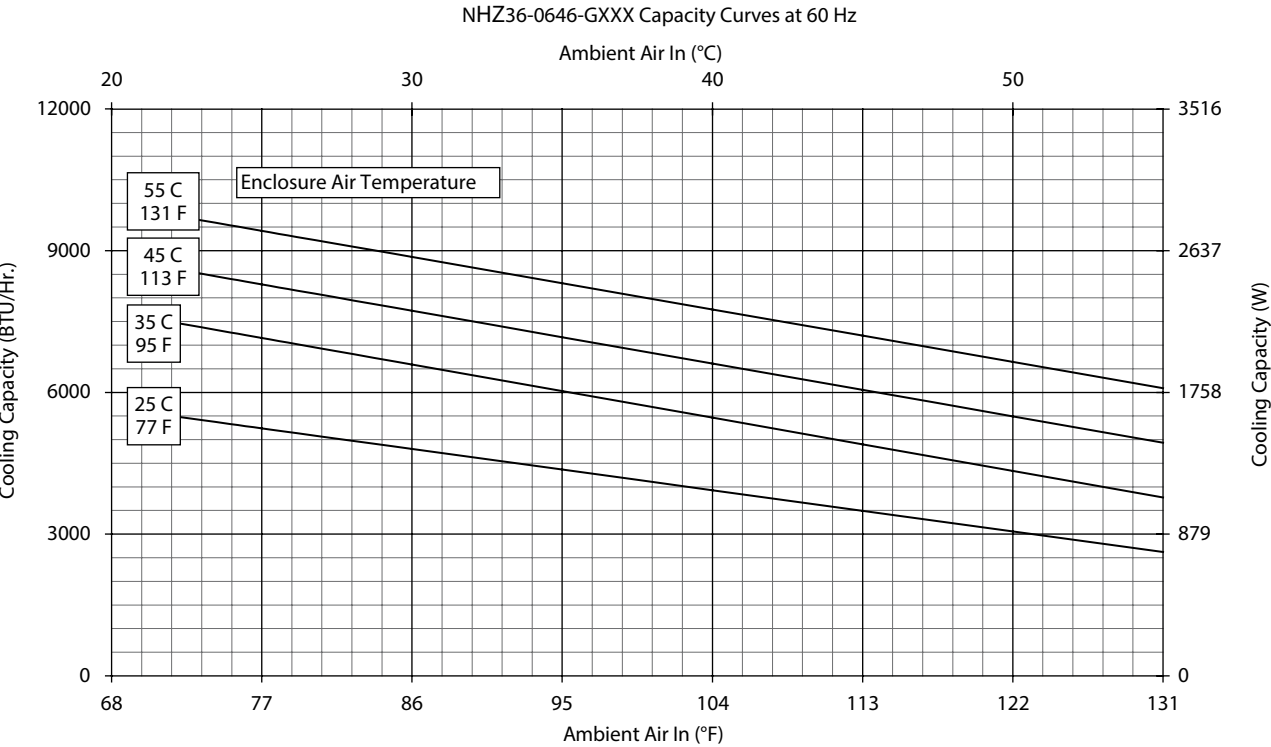
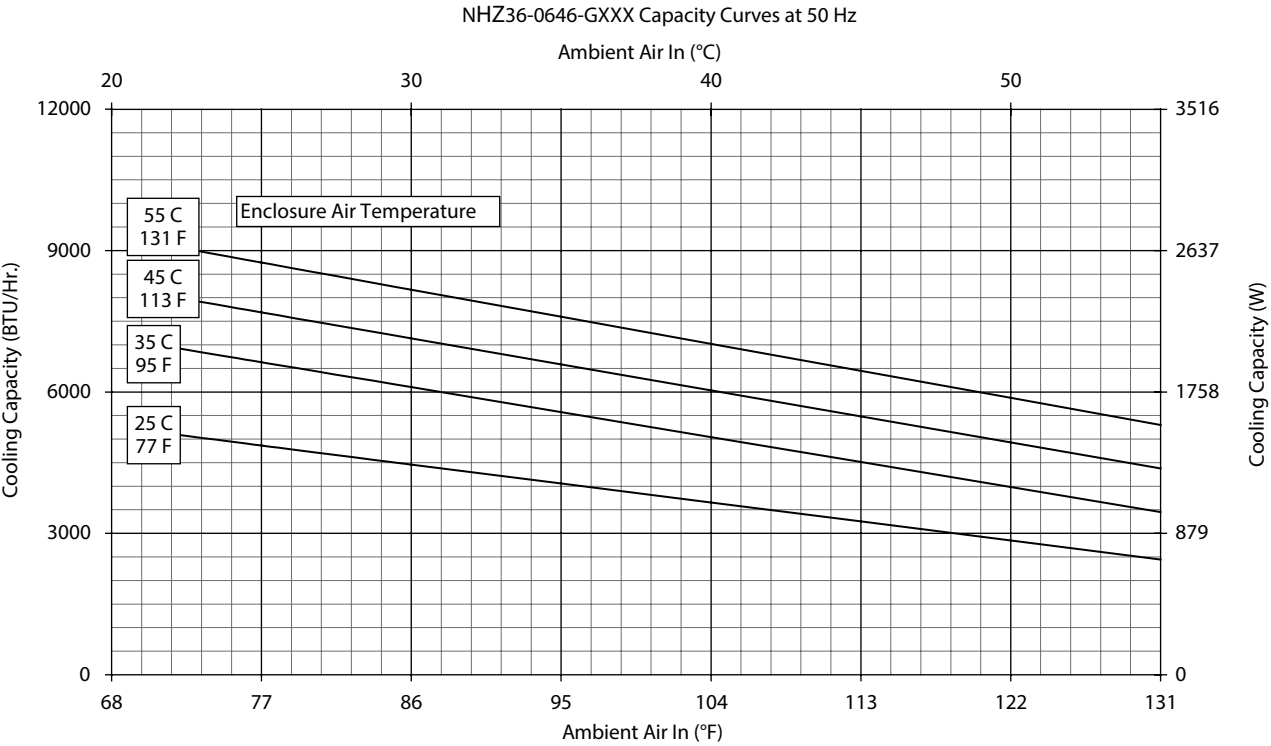
Unit Dimensions

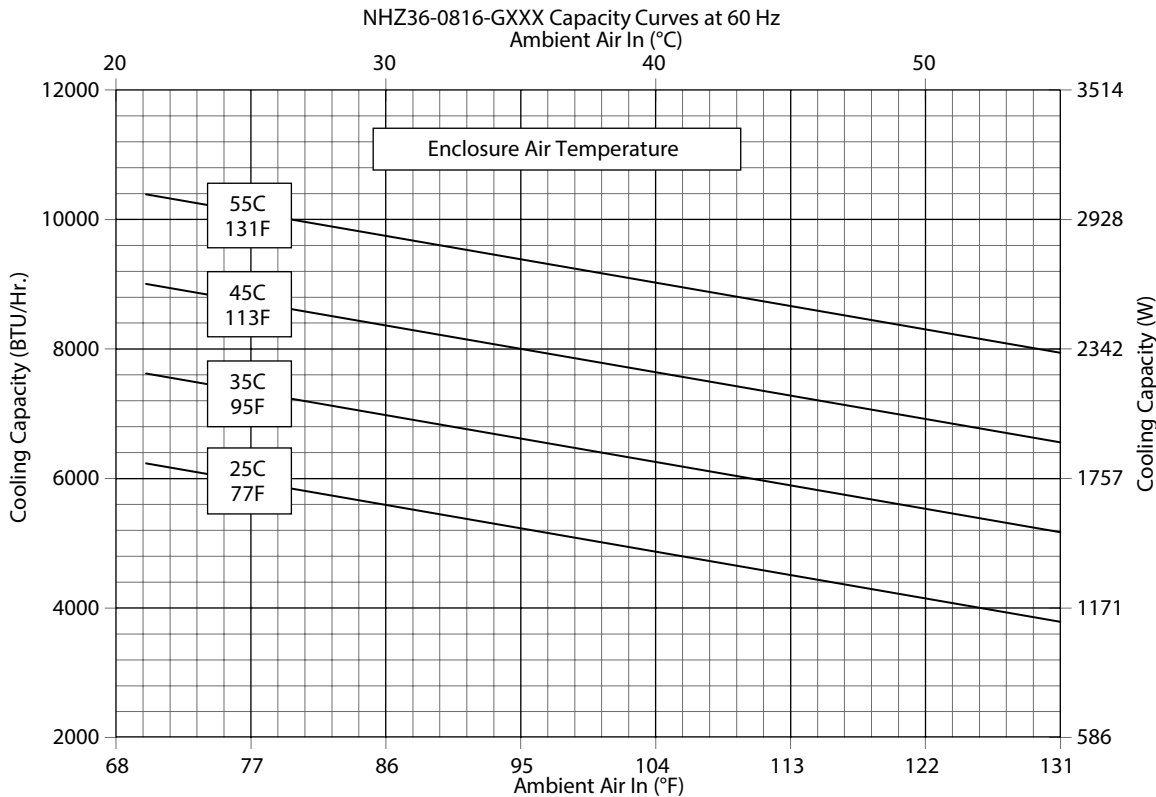
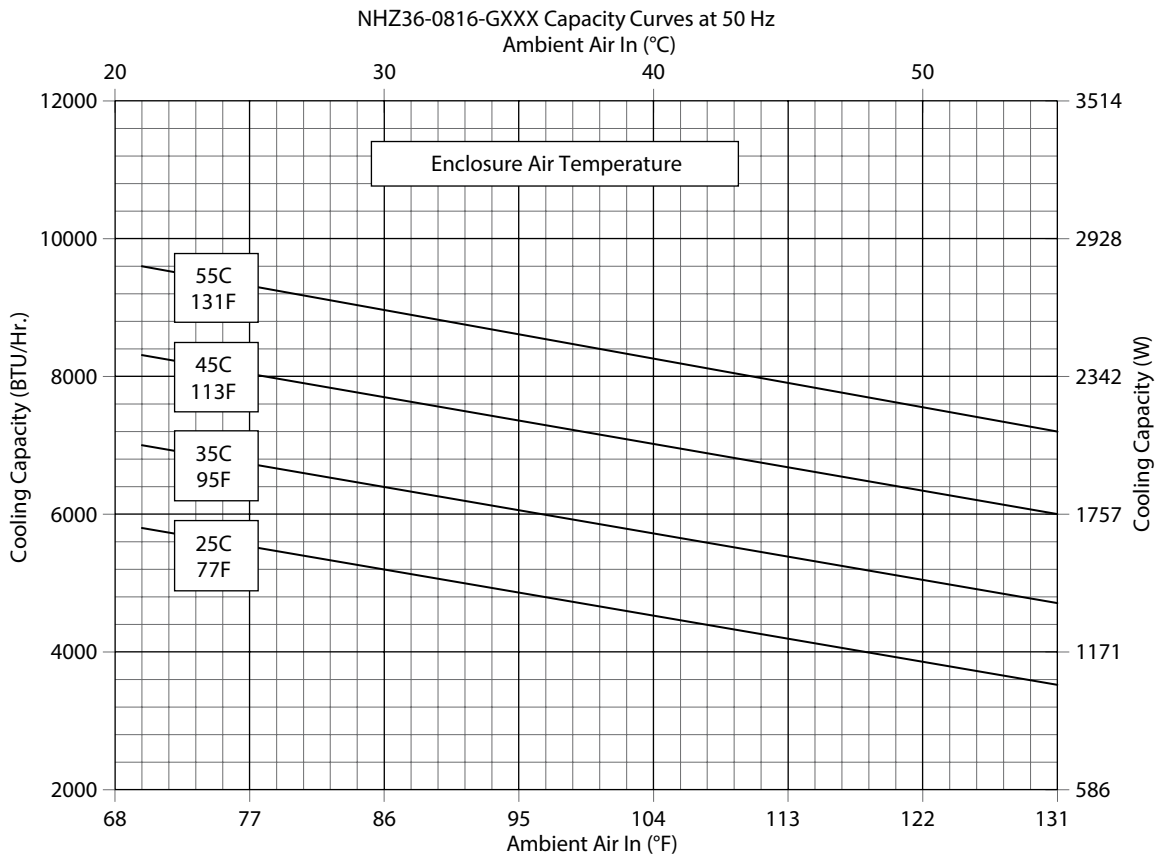
Height (in/mm)	36.00/914.4					
Width (in/mm)	11.50/292.1					
Depth (in/mm)	14.00/355.6					
Weight (lb/kg)	100/45	100/45	104/47	106/48	106/48	114/52

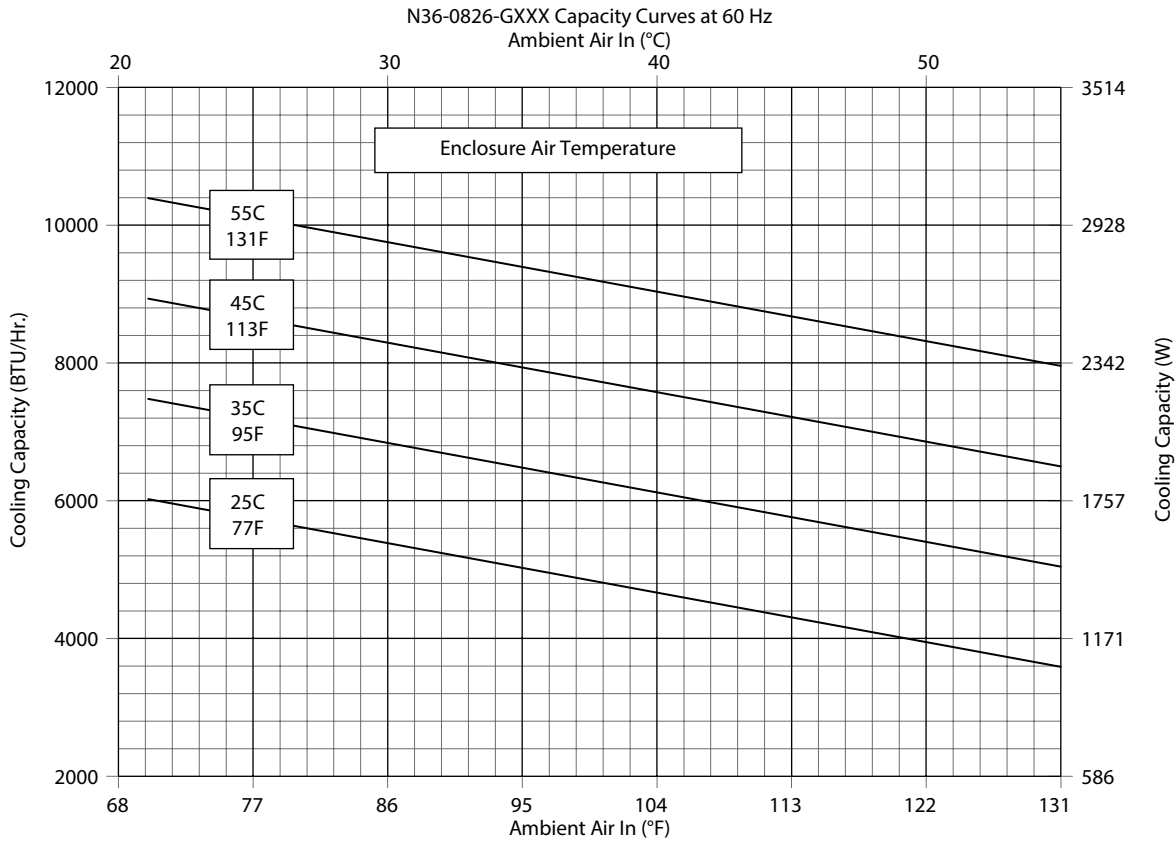
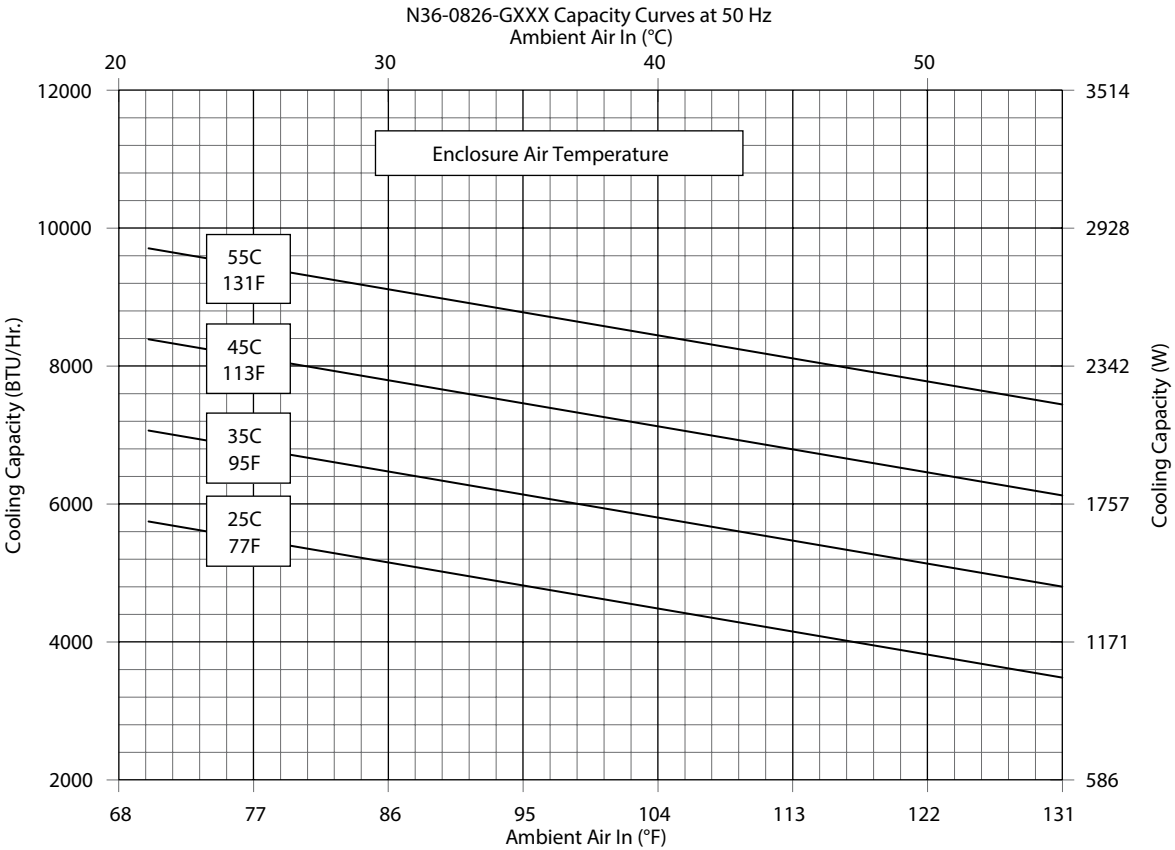
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

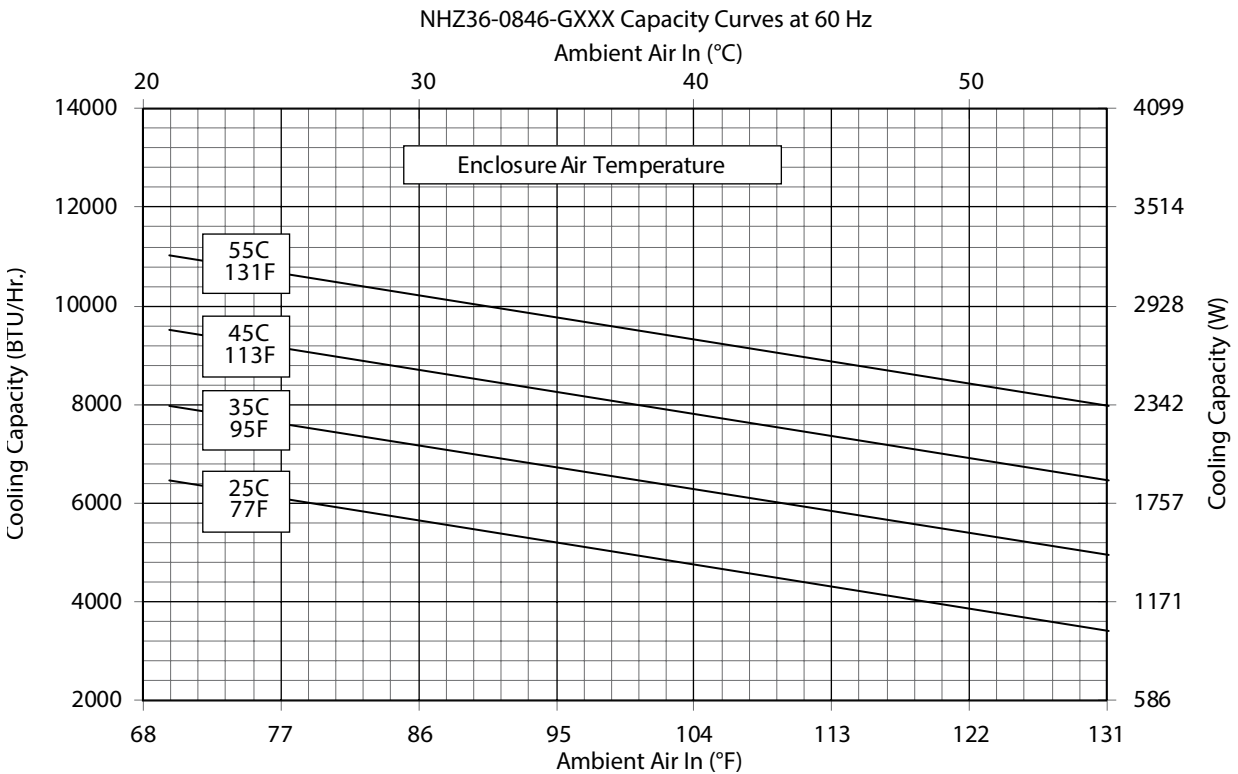
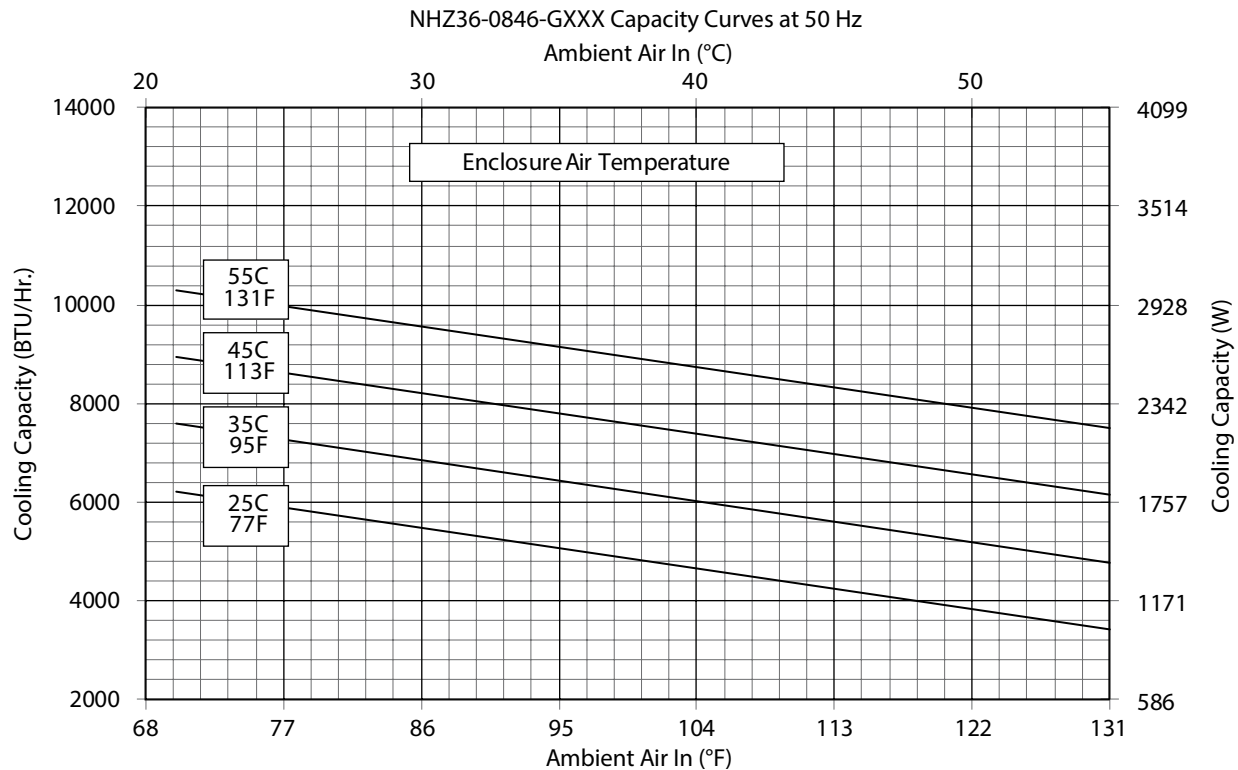


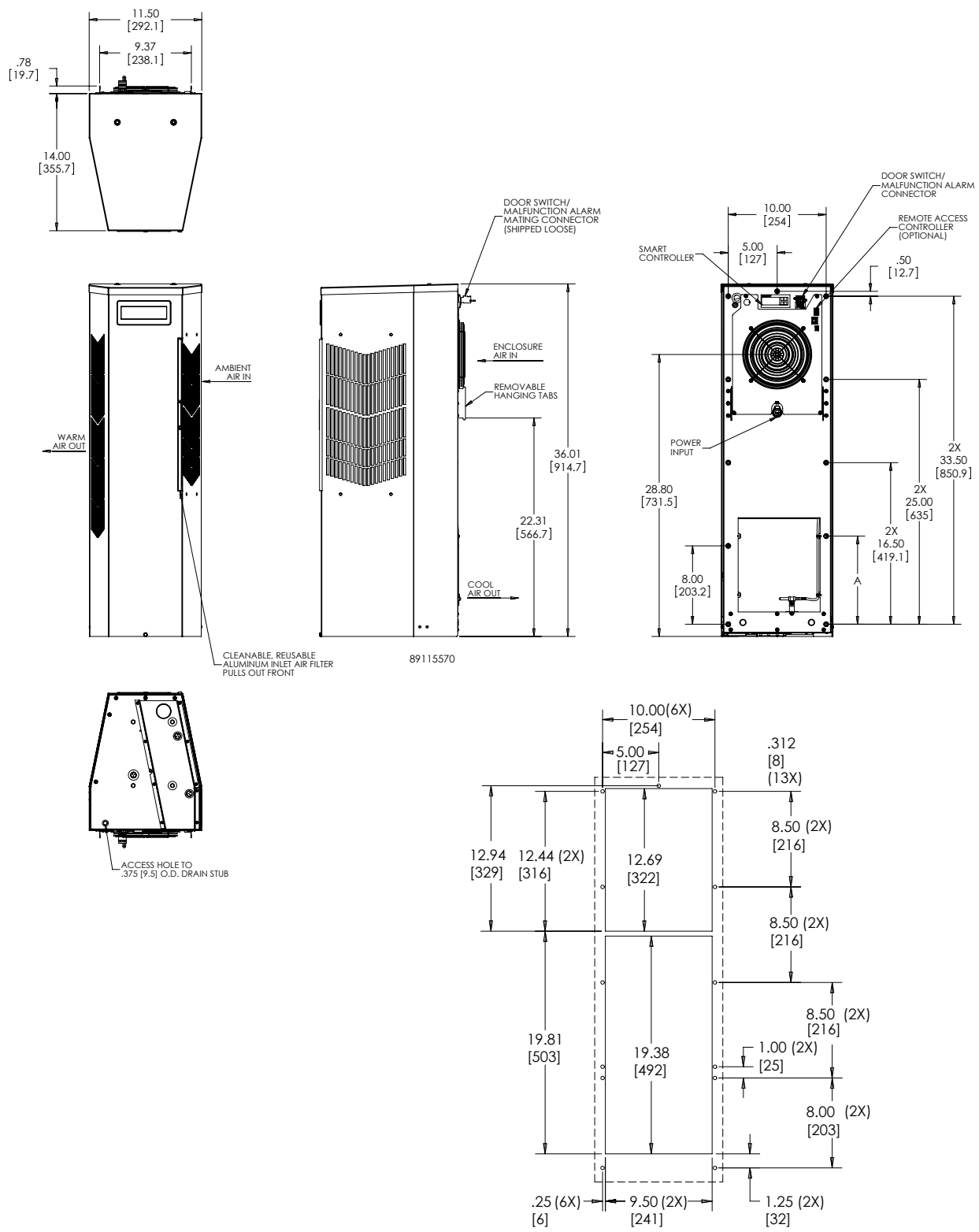












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PERFORMANCE DATA NHZ43 11000 BTU/HR (3223 WATT)

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/m³/hr)	239/406	259/440	254/432
External loop 50 Hz (CFM/m³/hr)	494/839	489/831	341/579
Internal loop 60 Hz (CFM/m³/hr)	250/425	267/454	260/442
External loop 60 Hz (CFM/m³/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
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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
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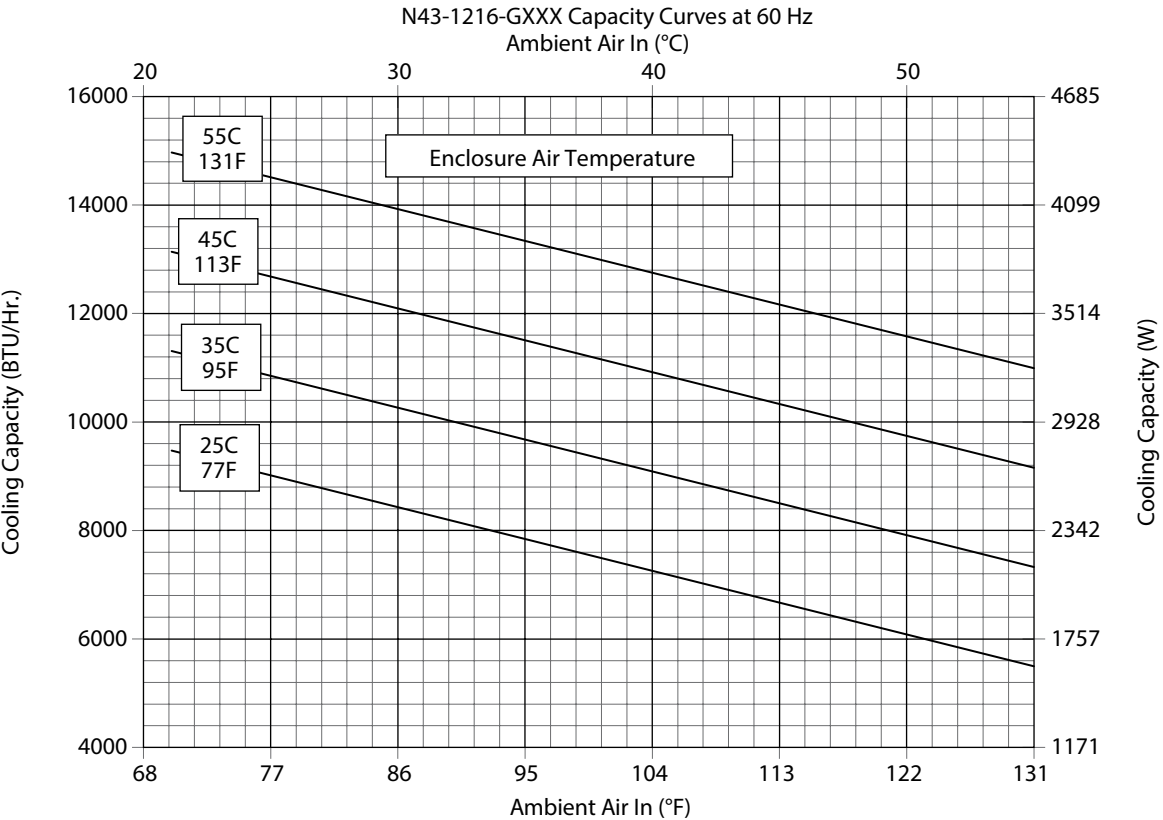
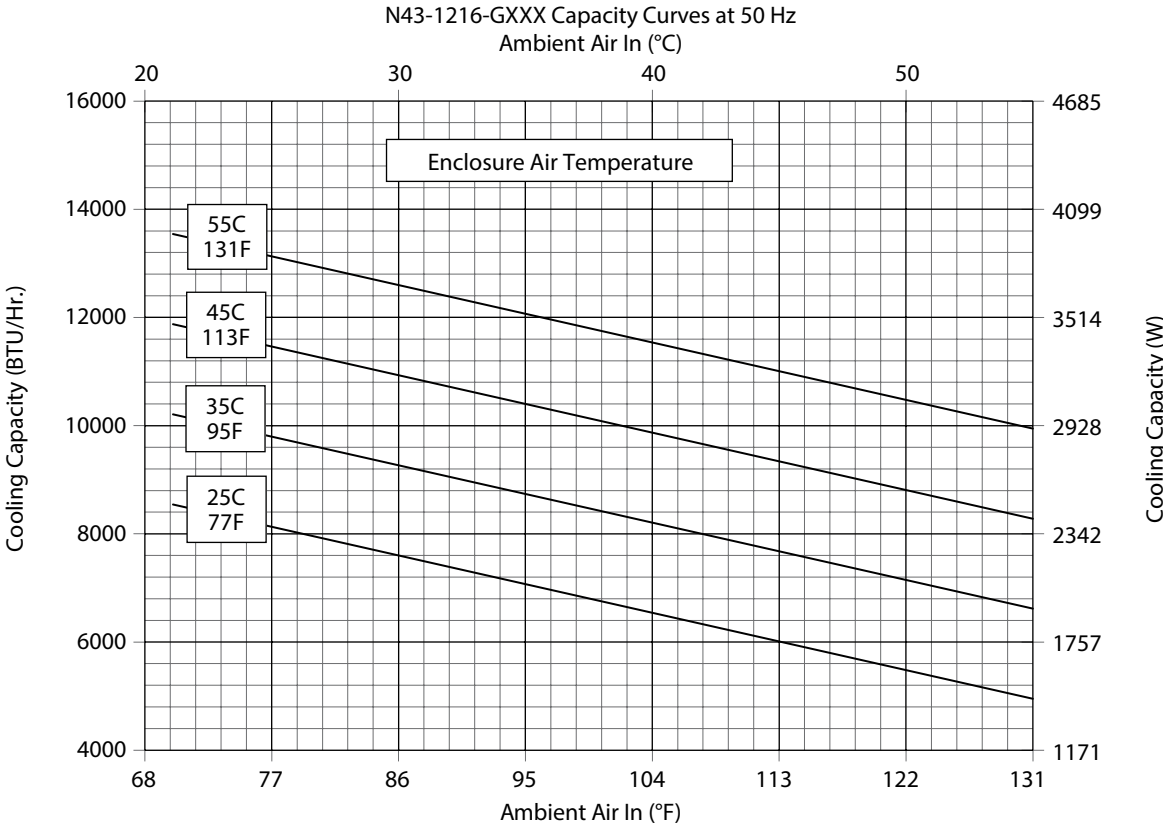
Unit Construction

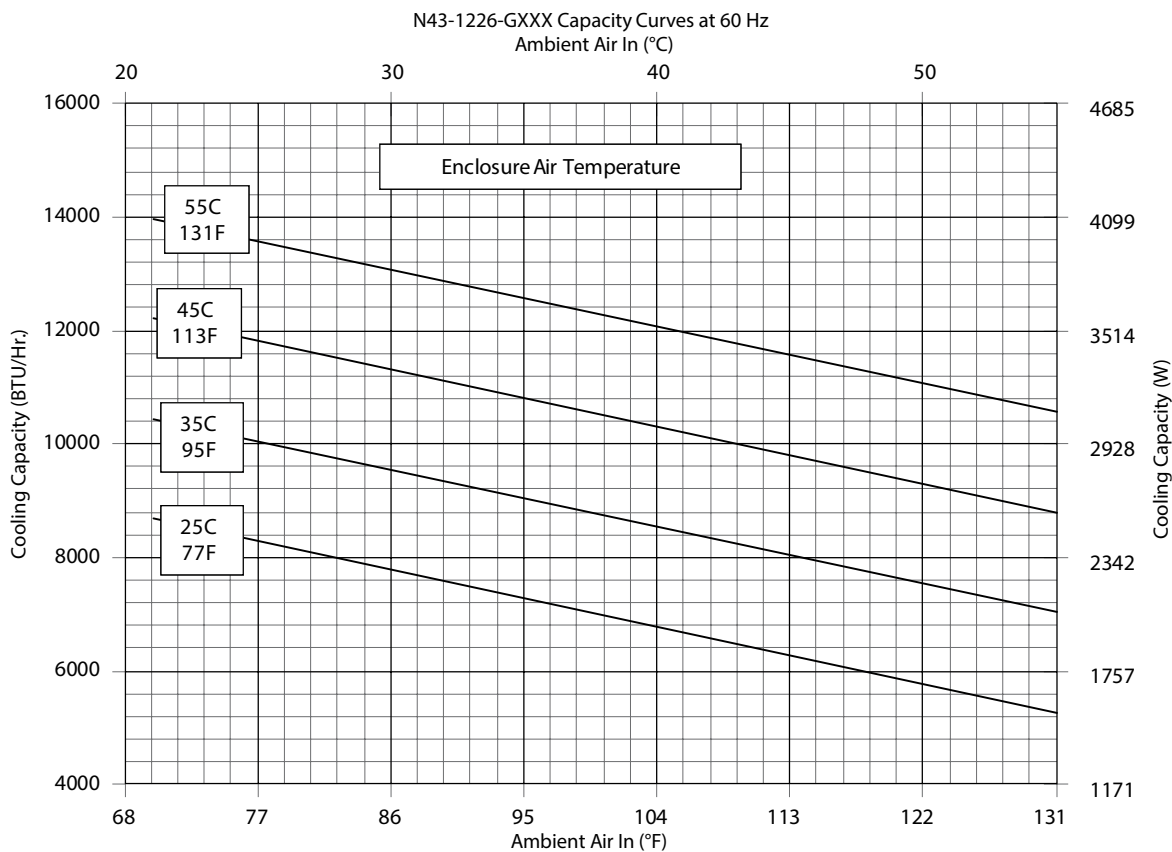
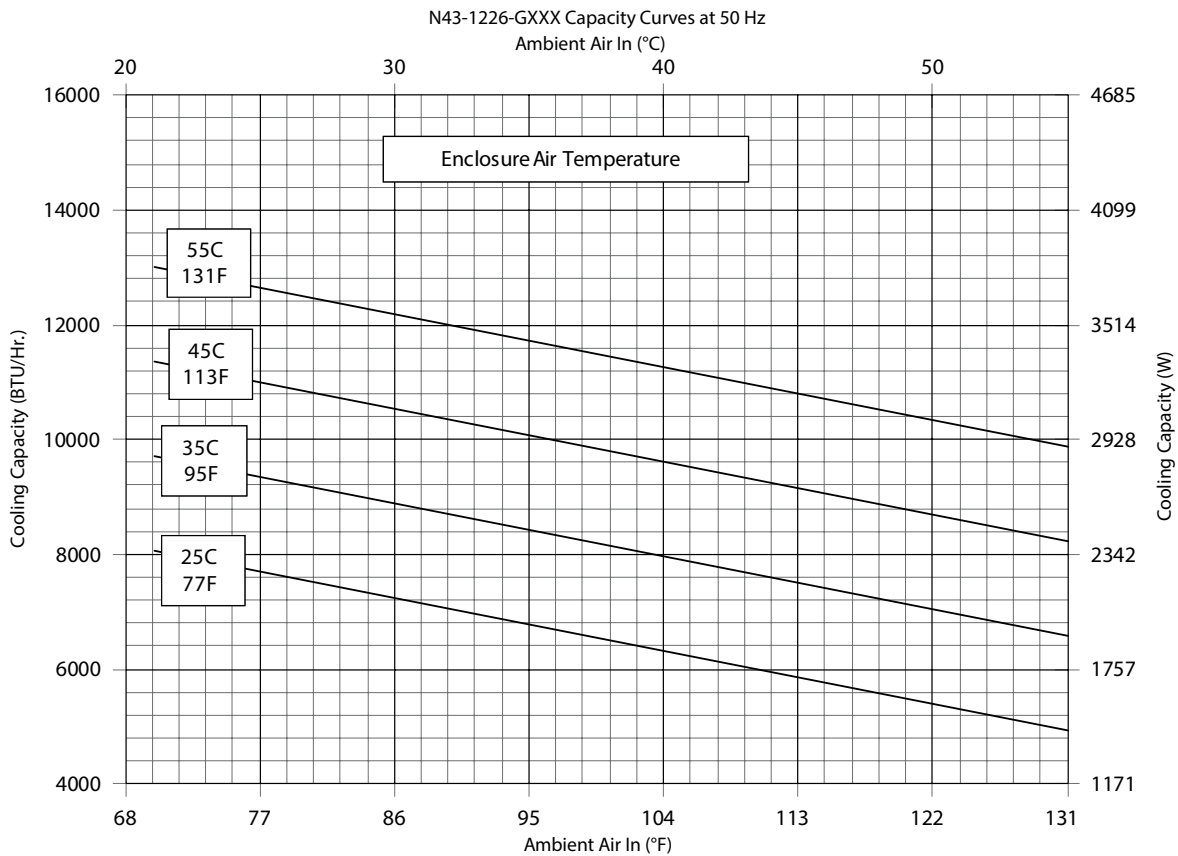
Material	Galvanized Sheet Metal Type 4 Models Stainless steel 316L Type 4X and Offshore Models
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

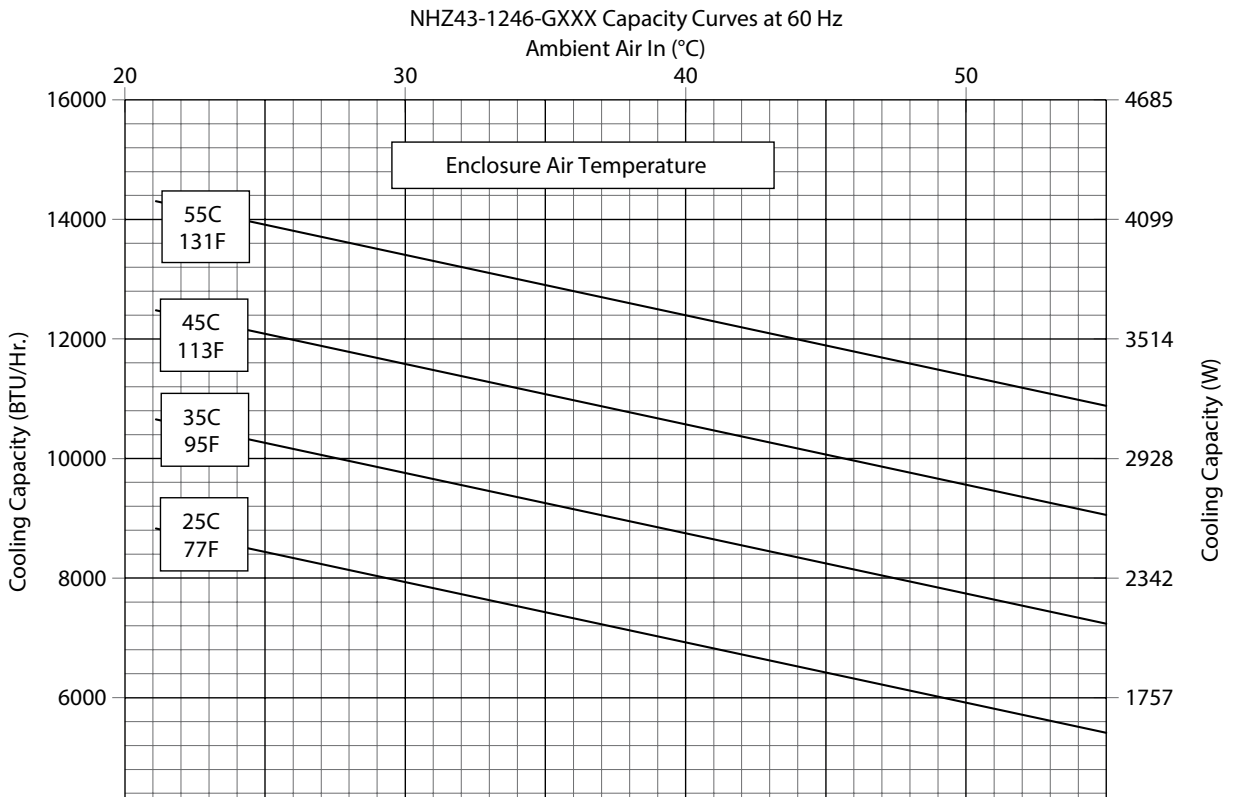
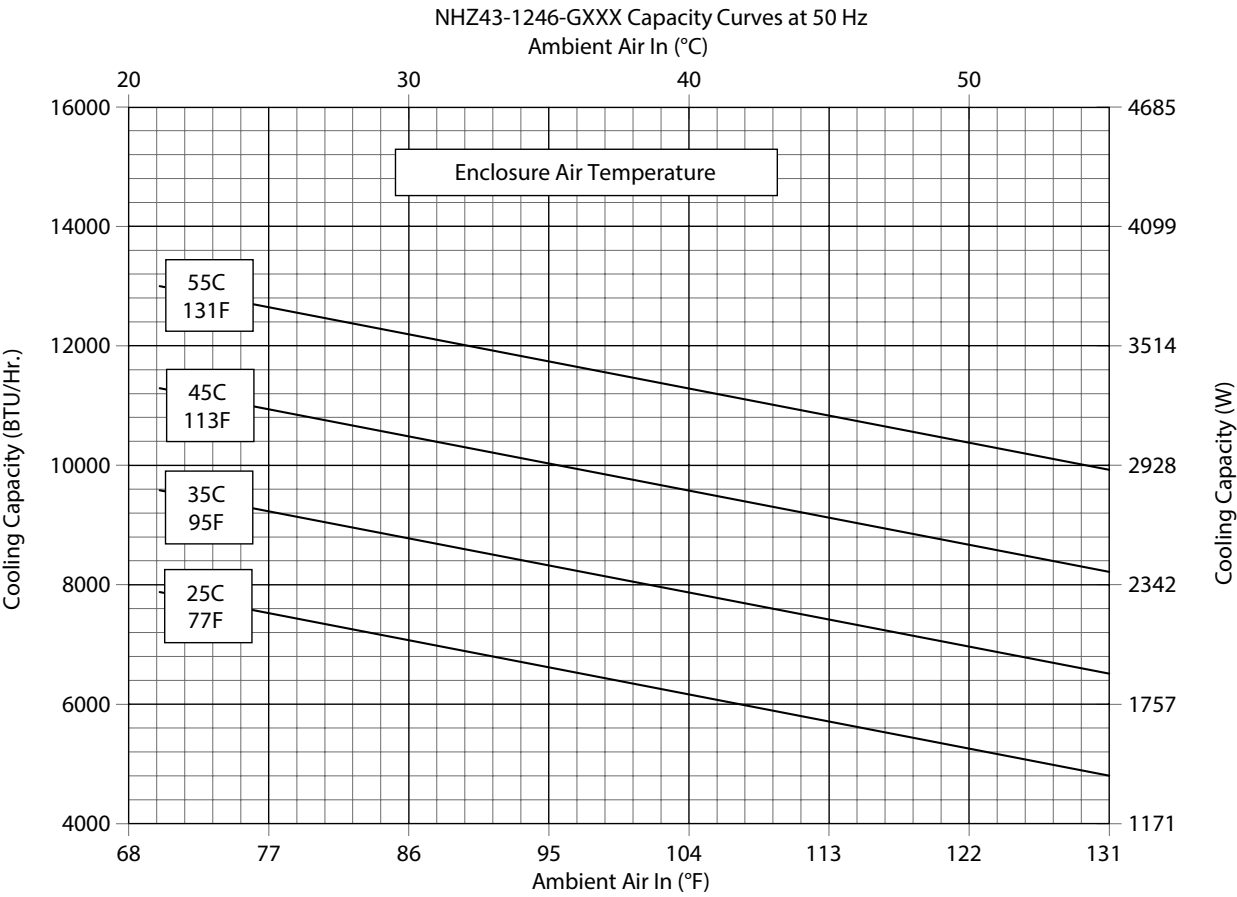
Unit Dimensions

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

*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.









CADDY ERICO HOFFMAN ILSCO RAYCHEM SCHROFF