

SPECTRACOOL™ Narrow Indoor/Outdoor



N43 11000 BTU/Hr. 3223 Watt	N36 6000/8000 BTU/Hr. 1758/2344 Watt	N28 4000 BTU/Hr. 1172 Watt
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Industry Standards

UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453

CE
IP 56 Internal Loop
IP 34 on External Loop
Telcordia GR-487 capable (Outdoor)

Application

- Industrial automation
- Waste water treatment systems
- Package handling equipment
- Security and defense systems

Features

- Narrow design accommodates 12-in. (300-mm) deep cabinets
- Energy efficient rotary compressor
- R407c and 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
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat on enclosure side of the unit; indoor Air Conditioner models include digital display on ambient side
- Galvanized sheet-metal cover for rugged factory and outdoor environments
- Easy-mount flanges for simple installation
- Cut-out adapter options for enclosures with McLean GENESIS® air conditioners enable users to easily transition to the new unit
- Dust-resistant condenser coil allows the unit to be run filterless in most applications
- Cleanable, reusable aluminum mesh filter protects coils for maximum cooling performance
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Standard Indoor Air Conditioner models also include:
 - Active condensate management with heater strip
 - Power-off relay for door switch and other system requirements
 - Malfunction switch
- Standard Outdoor Air Conditioner models also include:
 - Telcordia GR-487 capable
 - Corrosion-resistant components
 - Malfunction switch
 - Compressor heater
 - Head pressure control
 - 1300 W enclosure heater

Specifications

- Nominal cooling capacity:
 - N28 4000 BTU/Hr. (1172 W)
 - N36 6000 & 8000 BTU/Hr. (1758 and 2344 W)
 - N43 11000 BTU/Hr. (3223 W)
- Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C

Finish

- RAL 7035 light-gray, semi-textured powder-coat paint
- Other colors and textures available

Notes

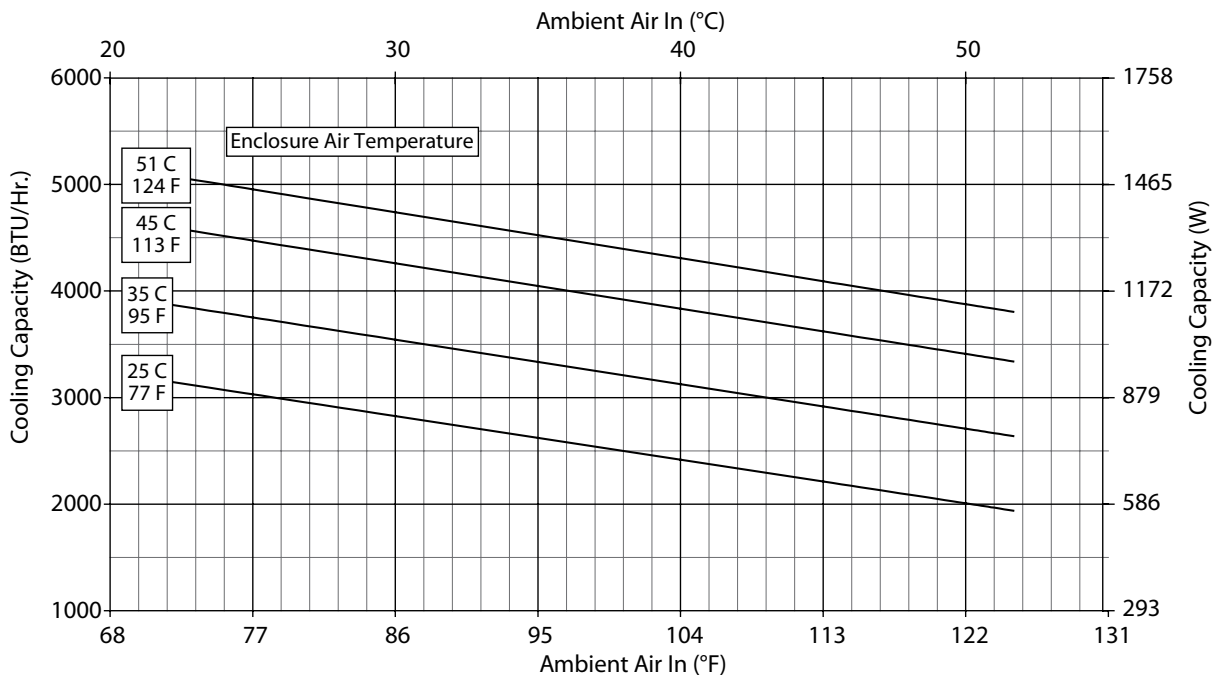
Visit www.McLeanCoolingTech.com to download 2D and 3D CAD drawings into the overall design of your electronic system.

Performance Data **N28 4000 BTU/Hr. (1172 Watt)**

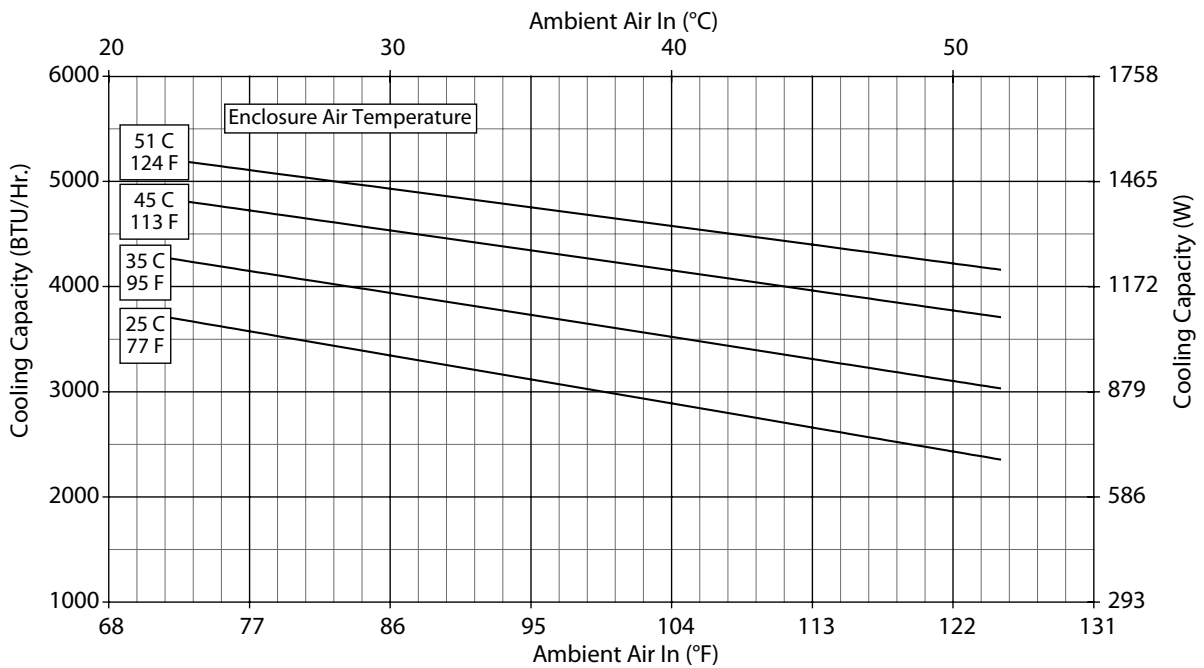
CATALOG NUMBER			
Indoor Model	N280416G050	N280426G050	N280425G050
Indoor Model Stainless Steel Type 4X	N280416G051	N280426G051	N280425G051
Outdoor Model without Heat Pkg.	N280416G100	N280426G100	N280425G100
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	N280416G102	N280426G102	N280425G102
Outdoor Model with Heat Pkg.	N280416G150	N280426G150	N280425G150
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	N280416G151	N280426G151	N280425G151
COOLING PERFORMANCE			
Nominal:			
BTUs/Hr.	3800 / 4000	3800 / 4000	3800 / 4000
Watts	1114 / 1172	1114 / 1172	1114 / 1172
At 131 F / 131 F (55 C / 55 C):			
BTU/Hr. (50 / 60 Hz)	3805 / 4162	4394	3818
Watts (50 / 60 Hz)	1115 / 1220	1288	1119
At 95 F / 95 F (35 C / 35 C):			
BTU/Hr. (50 / 60 Hz)	3589 / 3974	3690	3298
Watts (50 / 60 Hz)	1052 / 1165	1081	967
Refrigerant	R134a	R134a	R134a
Refrigerant Charge (ounces/grams)	11 / 312	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	138 / 234
External loop 50 Hz (CFM / M ³ /Hr)	268 / 455	N/A	268 / 455
Internal loop 60 Hz (CFM / M ³ /Hr)	143 / 362	143 / 243	N/A
External loop 60 Hz (CFM / M ³ /Hr)	288 / 728	288 / 489	N/A
Max. Heater W (Outdoor Models)	1300	1300	1300
ELECTRICAL DATA			
Rated Voltage	110 / 115	230	230
Frequency (Hz)	50 / 60	60	50
Operating Range	/-10%	/-10%	/-10%
Max. Power Consumption (Watts at 50 / 60 Hz)	1039 / 1191	1250	1111
Max. Nominal Current (Amps at 50 / 60 Hz)	11.6-11.2	6.5	5.8
Starting Current (Amps)	40	24.5	24.5
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 12, 3R, 4 Standard Type 4X Stainless Steel Optional	
CONTROLLER			
Description		Basic Mechanical Thermostat	
Thermostat Location		Enclosure Side	
Factory Thermostat 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 standard Stainless steel optional	
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	92/41.7

Performance Curves for N28 Models 4000 BTU/Hr. (1172 Watt)

N28-0416-GXXX Capacity Curves at 50 Hz

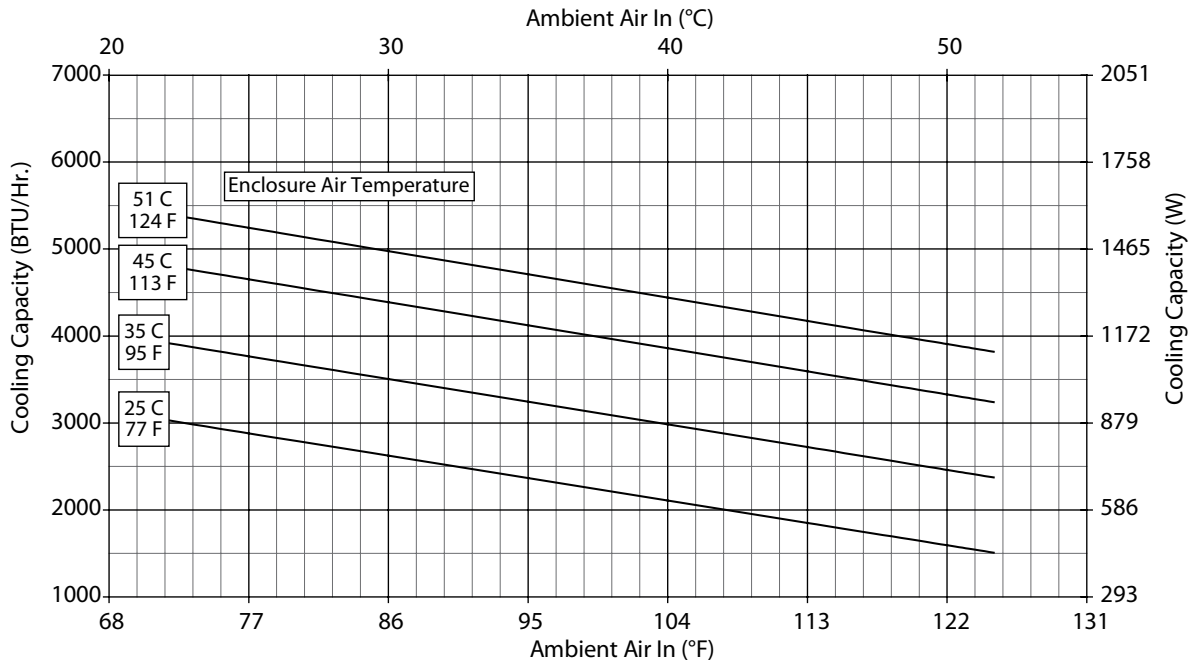


N28-0416-GXXX Capacity Curves at 60 Hz

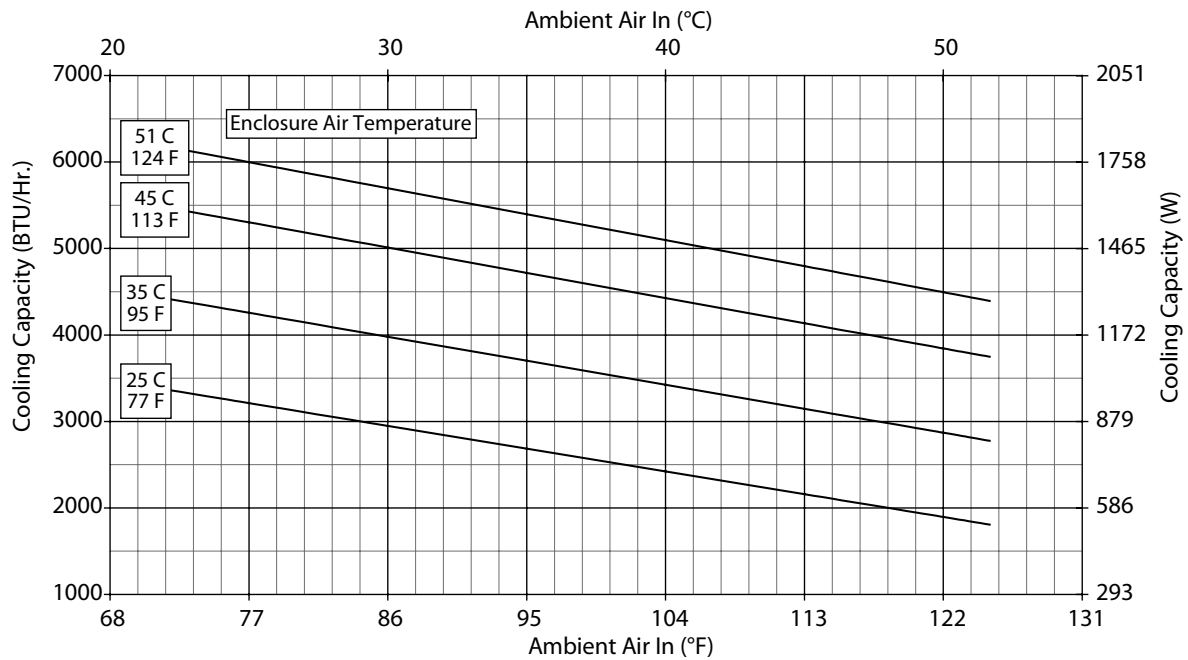


Performance Curves for N28 Models 4000 BTU/Hr. (1172 Watt)

N28-0426-GXXX Capacity Curves at 50 Hz



N28-0426-GXXX Capacity Curves at 60 Hz

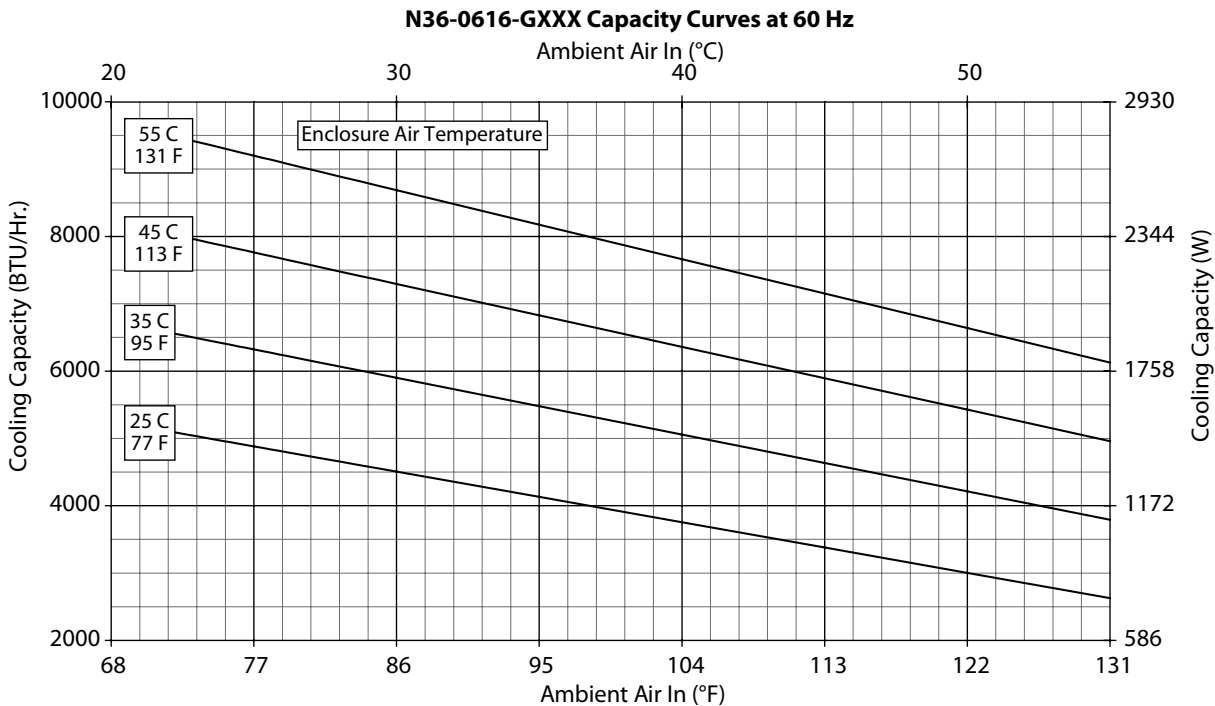
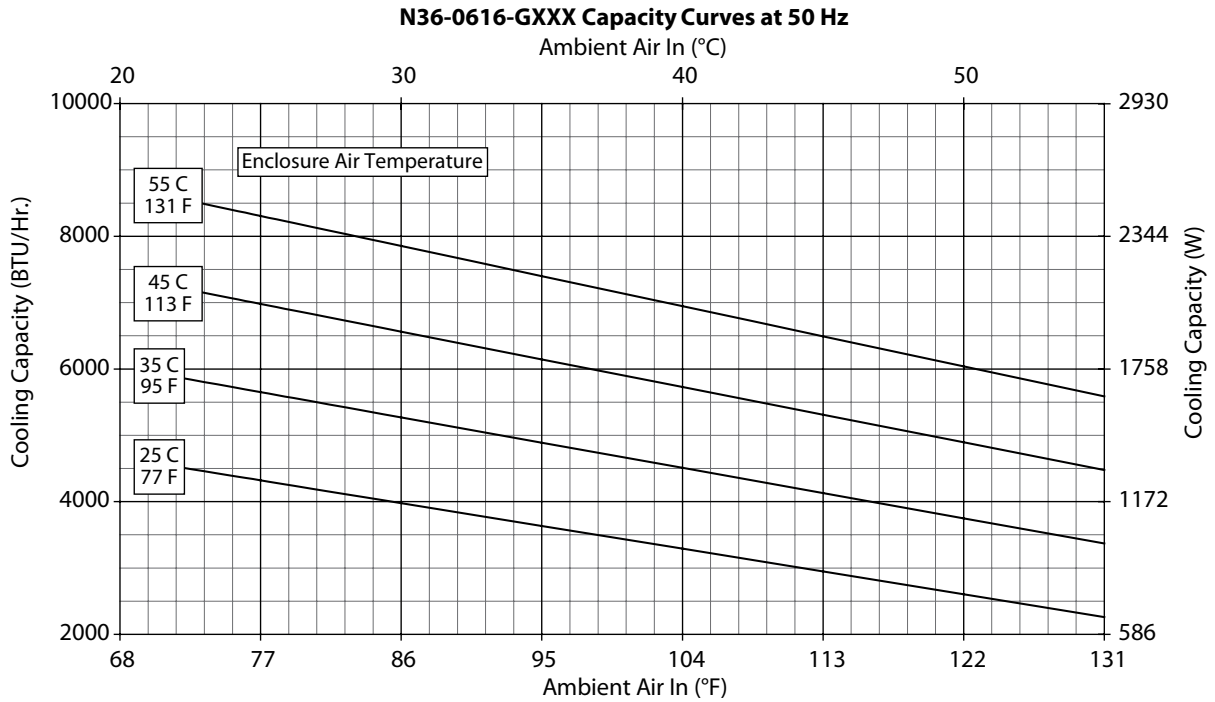


Air Conditioners

Performance Data **N36 6000/8000 BTU/Hr. (1758/2344 Watt)**

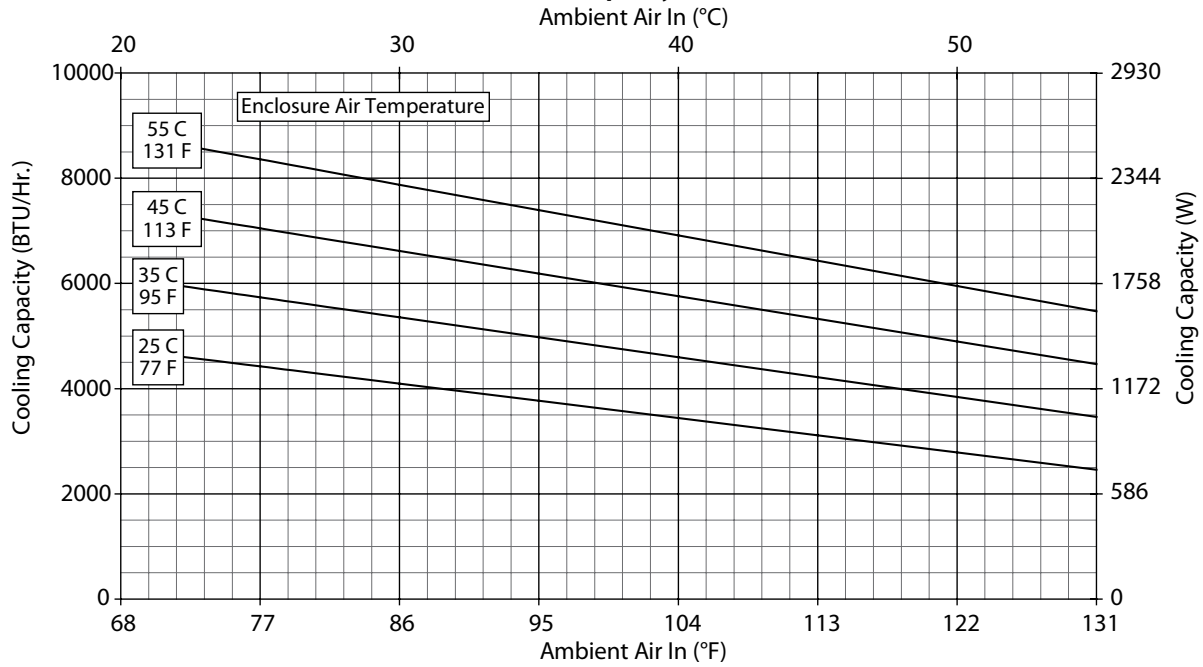
CATALOG NUMBER						
Indoor Model	N360616G050	N360626G050	N360646G050	N360816G050	N360826G050	N360846G050
Indoor Model Stainless Steel Type 4X	N360616G051	N360626G051	N360646G051	N360816G051	N360826G051	N360846G051
Outdoor Model without Heat Pkg.	N360616G100	N360626G100	N360646G100	N360816G100	N360826G100	N360846G100
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	N360616G102	N360626G102	N360646G102	N360816G102	N360826G102	N360846G102
Outdoor Model with Heat Pkg.	N360616G150	N360626G150	N360646G150	N360816G150	N360826G150	N360846G150
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	N360616G151	N360626G151	N360646G151	N360816G151	N360826G151	N360846G151
COOLING PERFORMANCE						
Nominal:						
BTU/Hr.	5400 / 6000	5400 / 6000	5400 / 6000	8250 / 8500	8250 / 8500	8250 / 8500
Watts	1581 / 1757	1581 / 1757	1581 / 1757	2416 / 2489	2313 / 2635	2284 / 2401
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 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	313 / 532	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	338 / 574	382 / 648	394 / 669
Max. Heater W (Outdoor Models)	1300	1300	1300	1300	1300	1300
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	697 / 895	1334 / 1530	1265 / 1403	572 / 628
Max. Nominal Current (Amps at 50 / 60 Hz)	9.1 / 10.1	4.5 / 4.7	1.59 / 1.69	11.6 / 13.3	5.5/6.1	2.9/3.0
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					
ENCLOSURE PROTECTION						
UL Type	Type 12, 3R, 4 Standard Type 4X Stainless Steel Optional					
CONTROLLER						
Description	Basic Mechanical Thermostat					
Thermostat Location	Enclosure Side					
Factory Thermostat 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 standard Stainless steel optional					
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

Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)

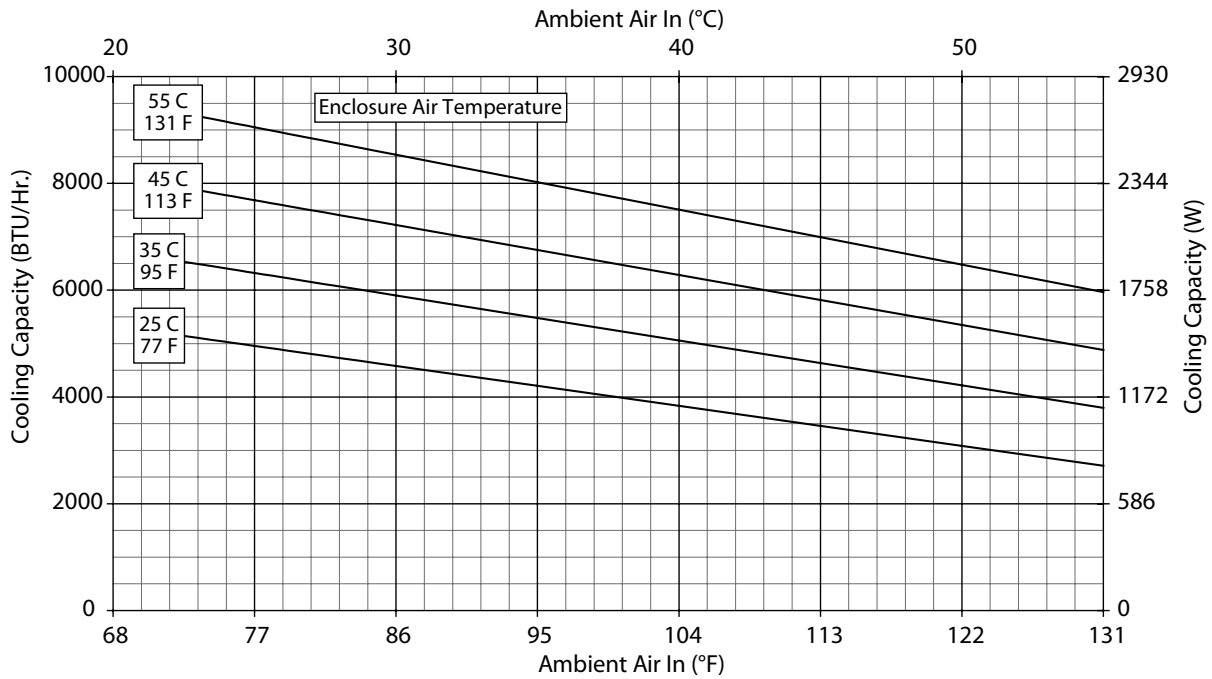


Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)

N36-0626-GXXX Capacity Curves at 50 Hz

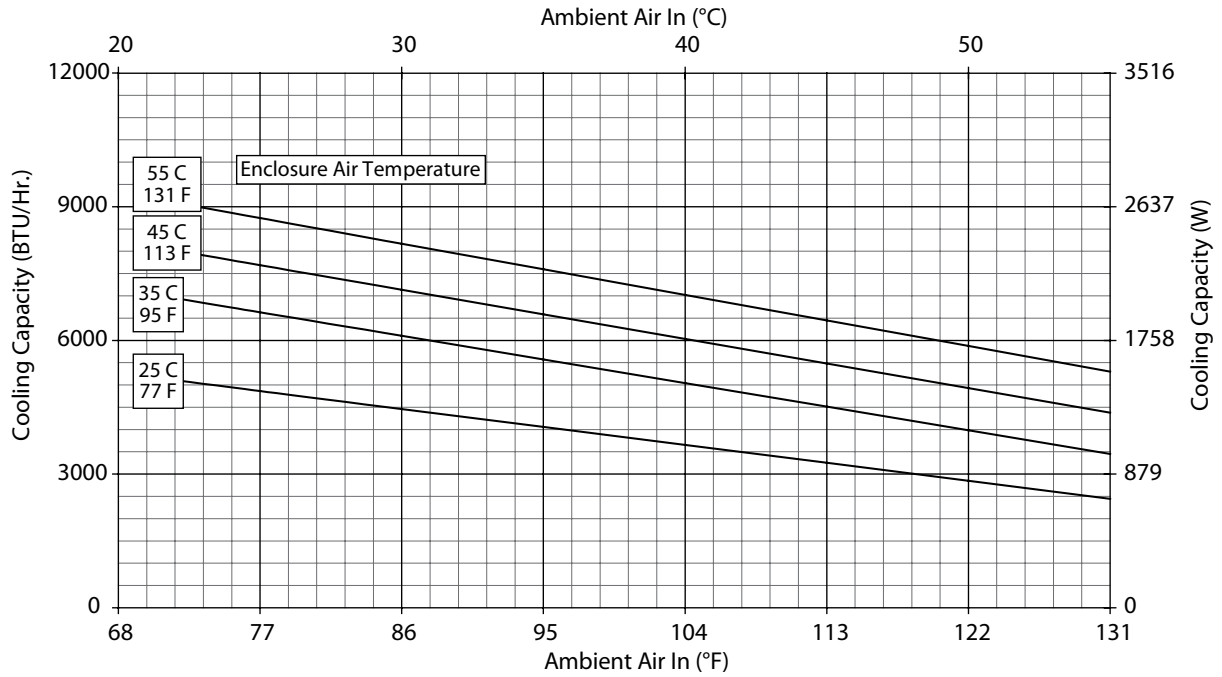


N36-0626-GXXX Capacity Curves at 60 Hz

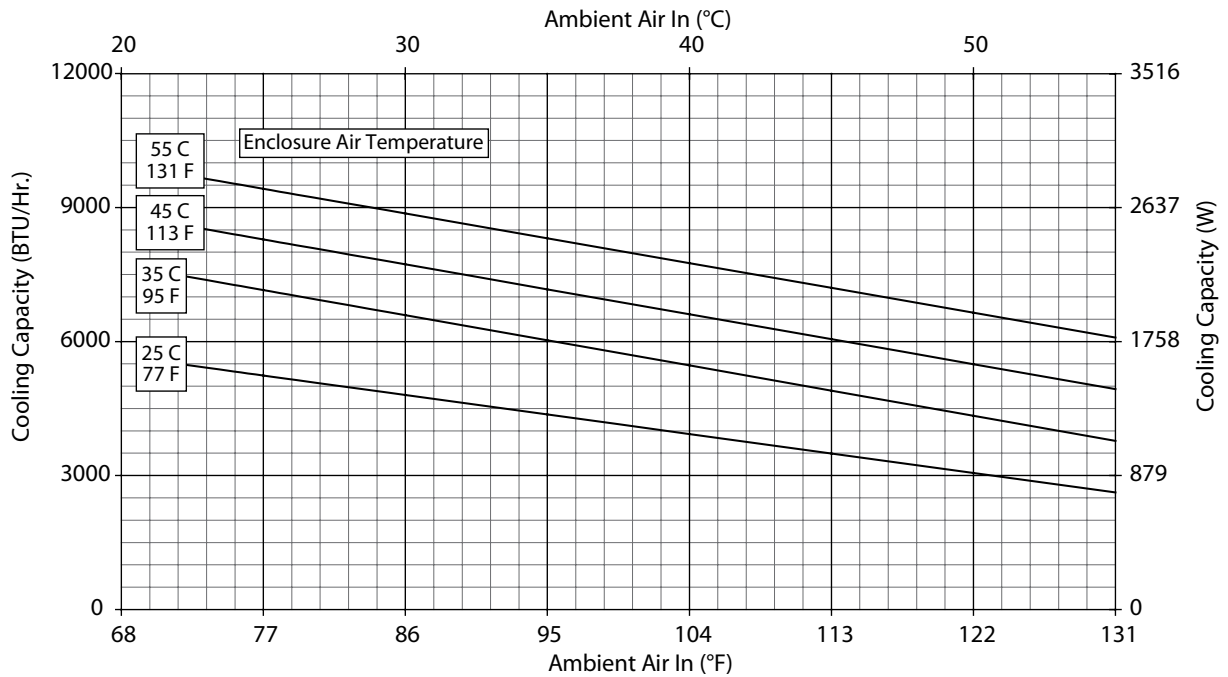


Performance Curves for N36 Models 6000 BTU/Hr. (1758 Watt)

N36-0646-GXXX Capacity Curves at 50 Hz

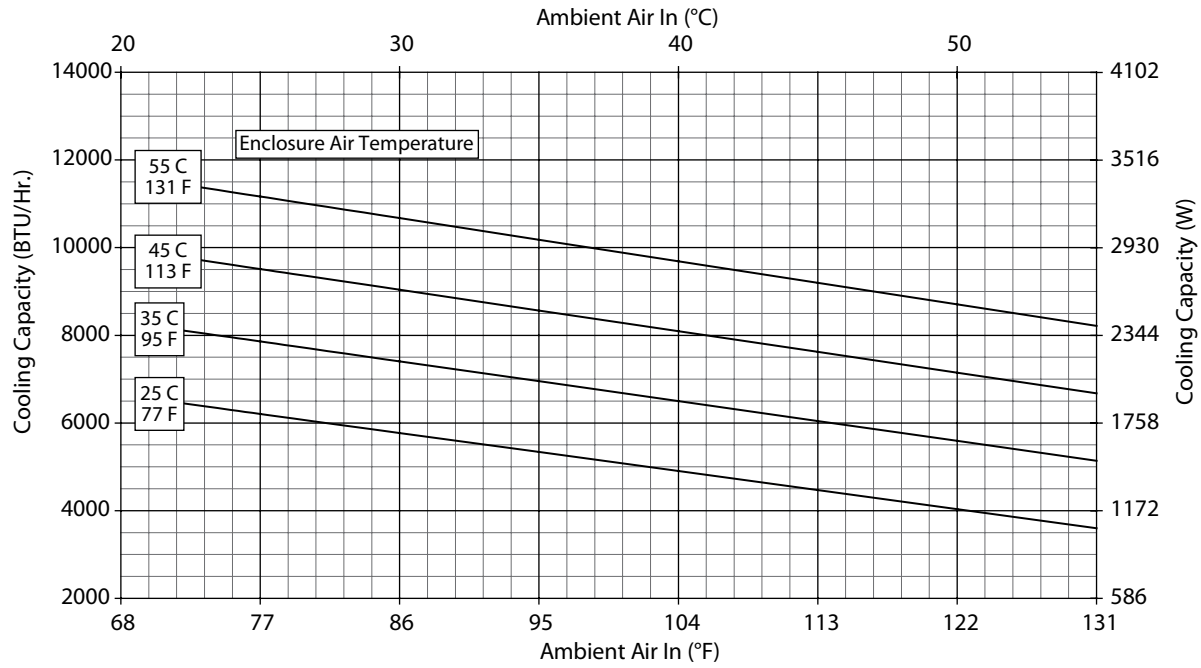


N36-0646-GXXX Capacity Curves at 60 Hz

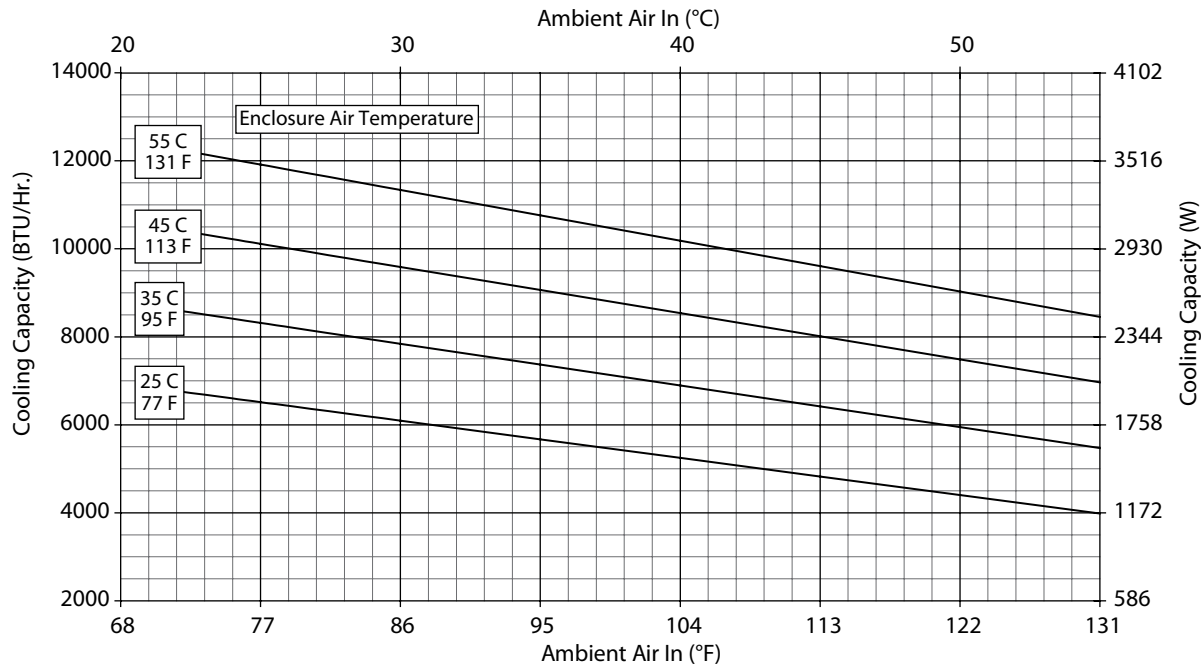


Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)

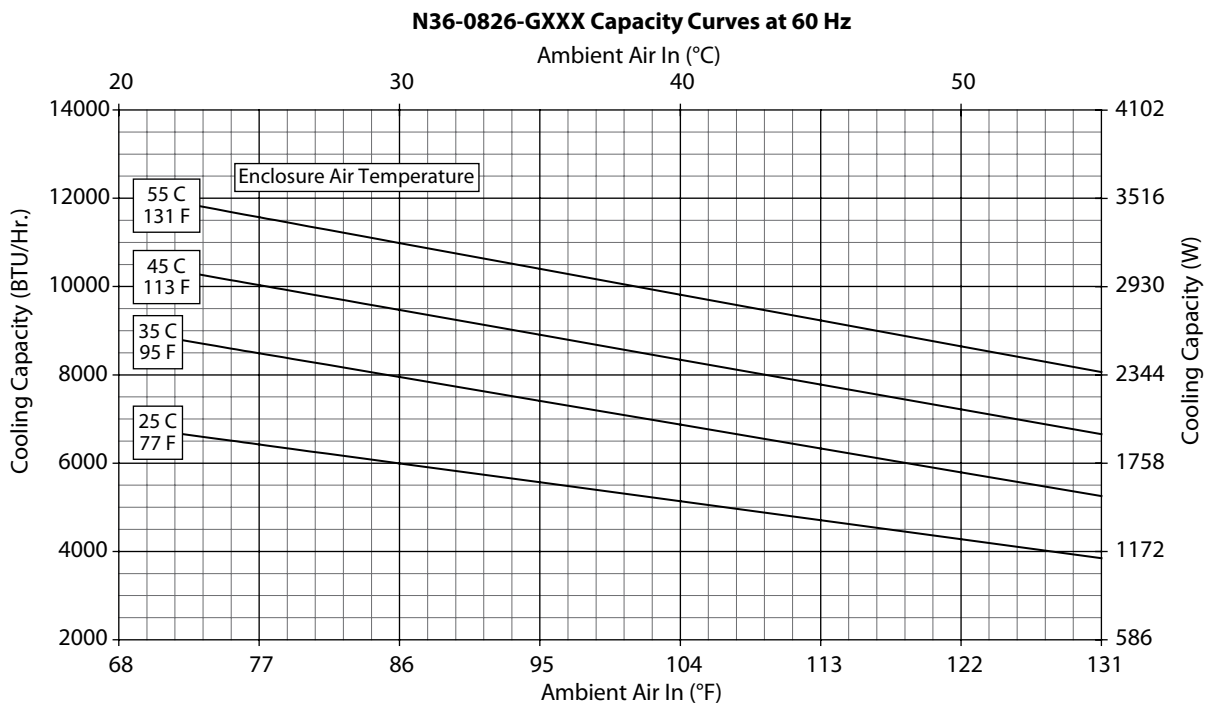
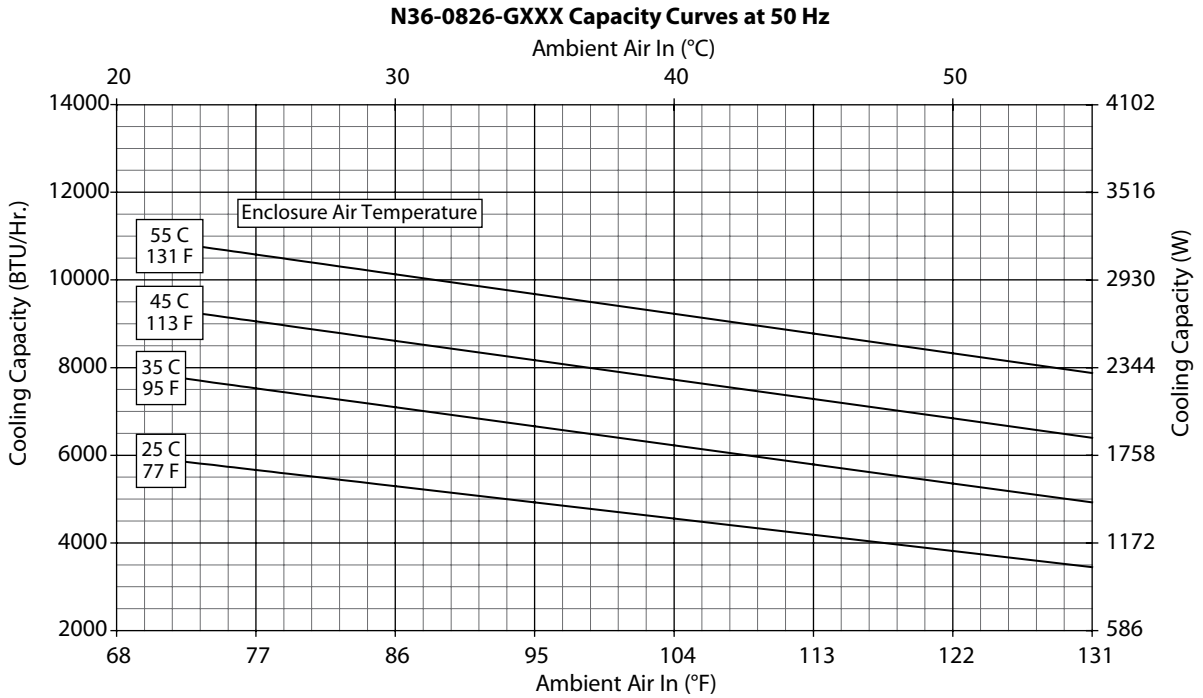
N36-0816-GXXX Capacity Curves at 50 Hz



N36-0816-GXXX Capacity Curves at 60 Hz

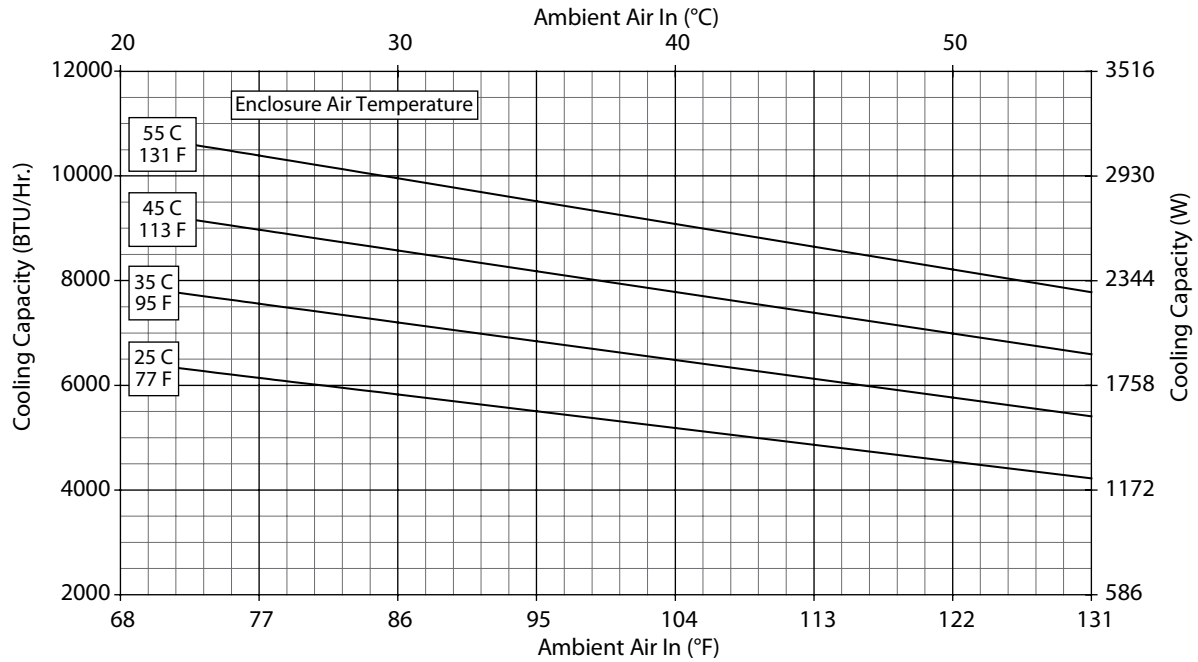


Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)

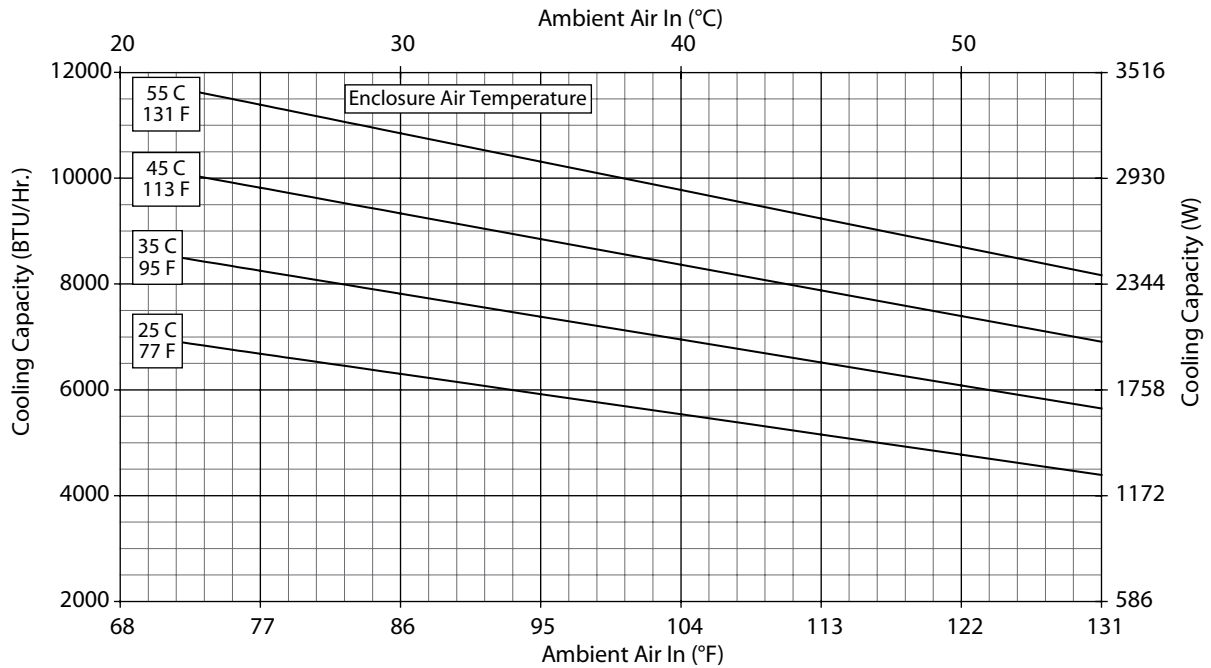


Performance Curves for N36 Models 8000 BTU/Hr. (2344 Watt)

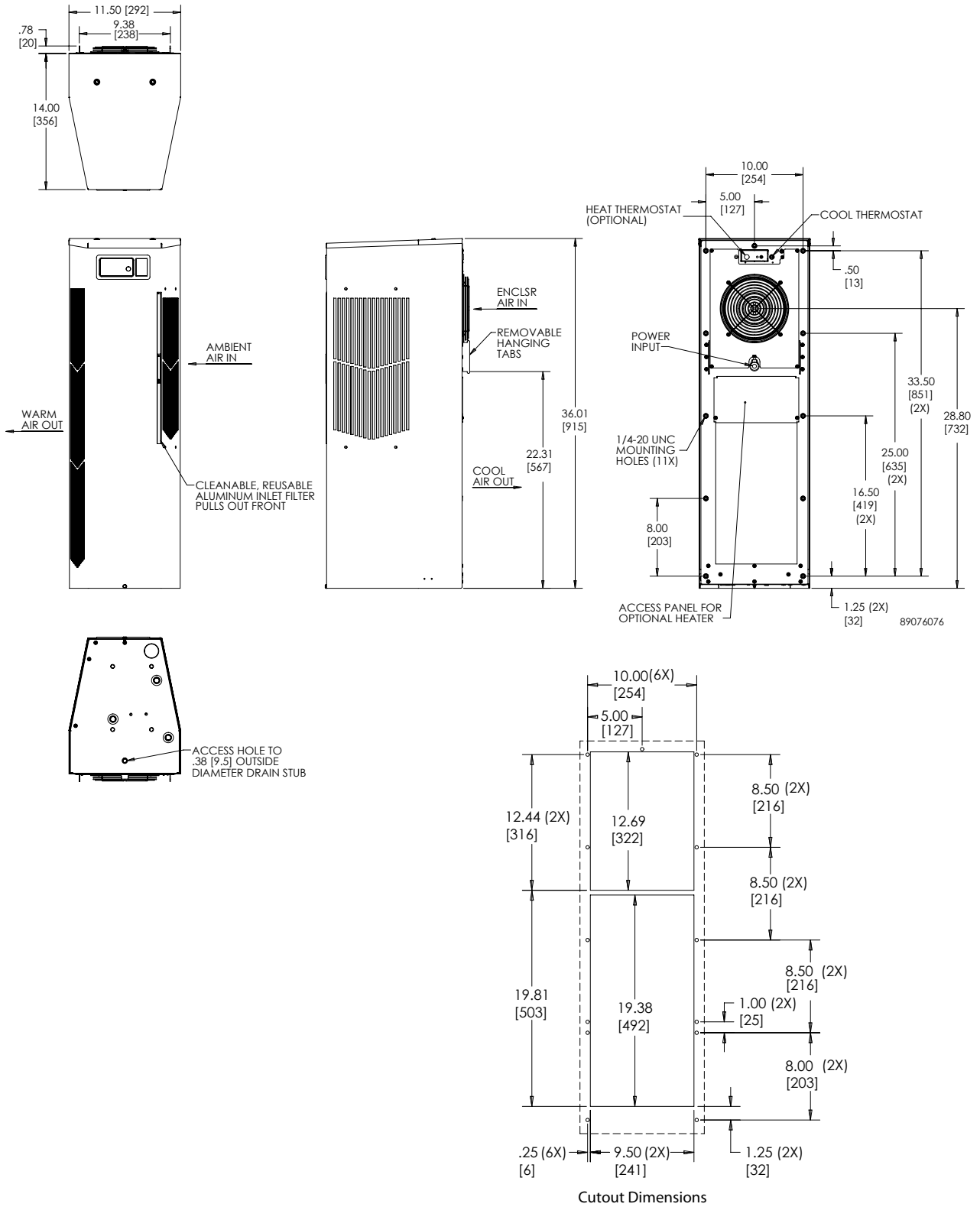
N36-0846-GXXX Capacity Curves at 50 Hz



N36-0846-GXXX Capacity Curves at 60 Hz



N36 6000/8000 BTU/Hr. (1758/2344 Watt)



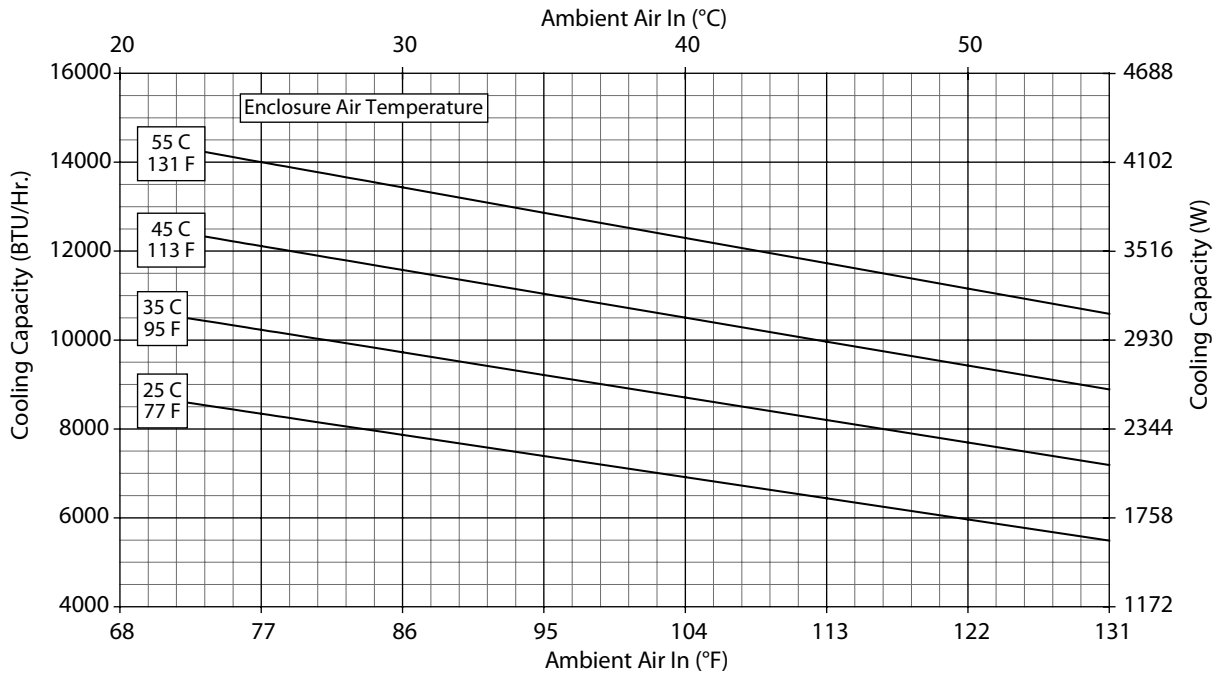
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Performance Data **N43 11000 BTU/Hr. (3223 Watt)**

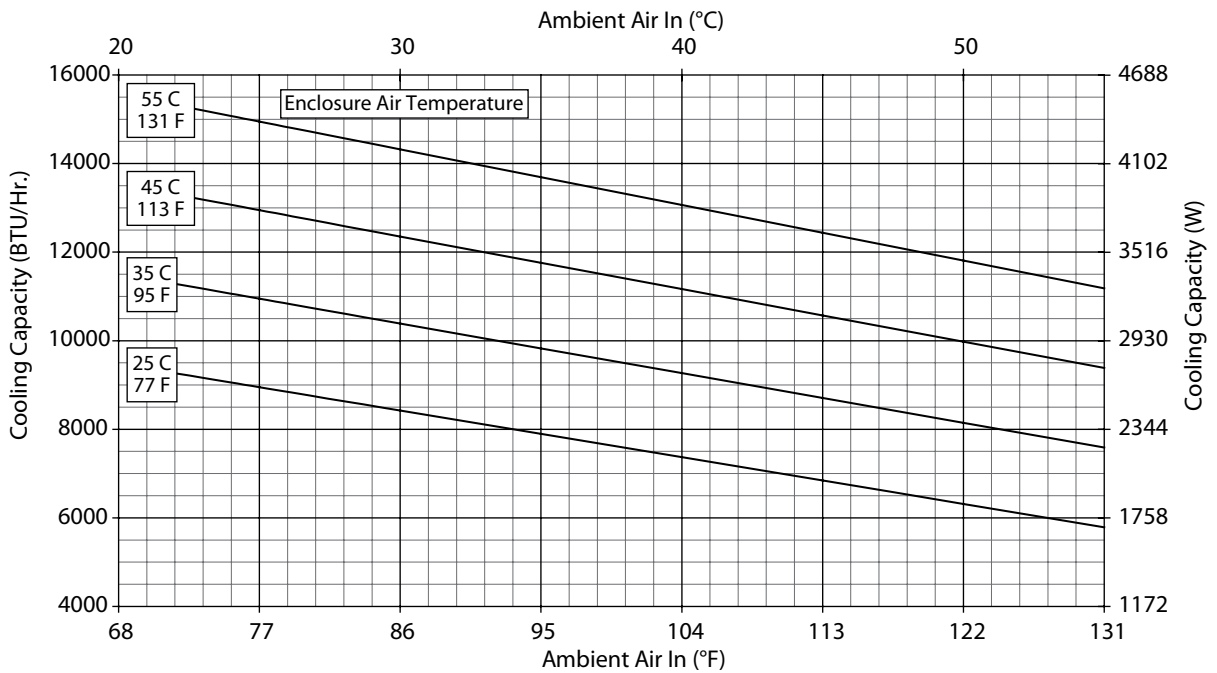
CATALOG NUMBER			
Indoor Model	N431216G050	N431226G050	N431246G050
Indoor Model Stainless Steel Type 4X	N431216G051	N431226G051	N431246G051
Outdoor Model without Heat Pkg.	N431216G100	N431226G100	N431246G100
Outdoor Model without Heat Pkg. Stainless Steel Type 4X	N431216G102	N431226G102	N431246G102
Outdoor Model with Heat Pkg.	N431216G150	N431226G150	N431246G150
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	N431216G151	N431226G151	N431246G151
COOLING PERFORMANCE			
Nominal:			
BTU/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	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)	131 / 55	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
Max. Heater W (Outdoor Models)	1300	1300	1300
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)	1802 / 2446	1802 / 2446	1283 / 1644
Max. Nominal Current (Amps at 50 / 60 Hz)	16.6 / 22.0	8.7 / 9.1	3.1 / 3.3
Starting Current (Amps)	57	38	16
Agency Approvals		cUL Listed CE Others available upon request	
Power Input Description		Terminal Block	
ENCLOSURE PROTECTION			
UL Type		Type 12, 3R, 4 Standard Type 4X Stainless Steel Optional	
CONTROLLER			
Description		Basic Mechanical Thermostat	
Thermostat Location		Enclosure Side	
Factory Thermostat 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 standard Stainless steel optional	
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

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

N43-1216-GXXX Capacity Curves at 50 Hz

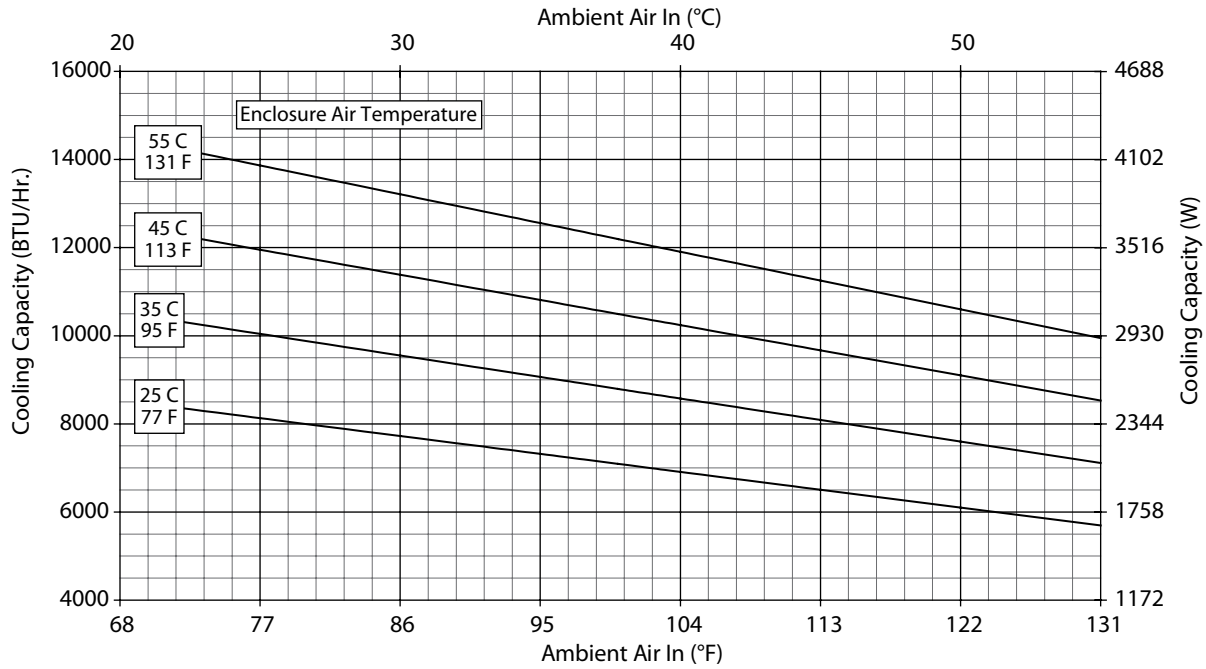


N43-1216-GXXX Capacity Curves at 60 Hz

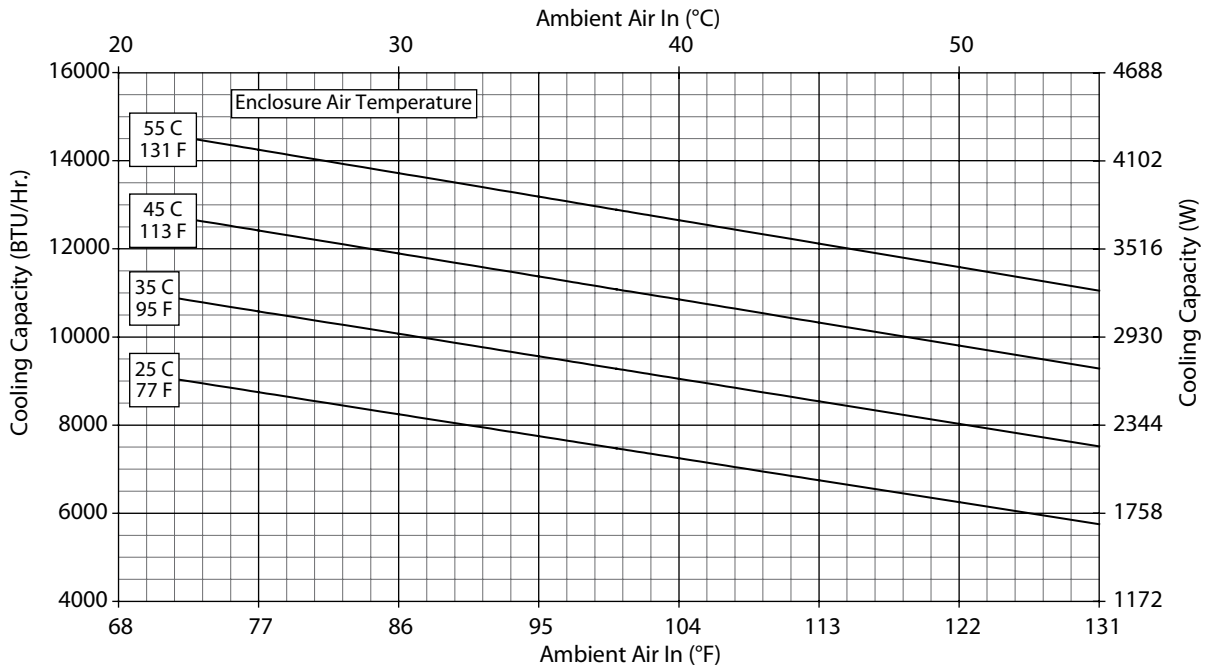


Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)

N43-1226-GXXX Capacity Curves at 50 Hz

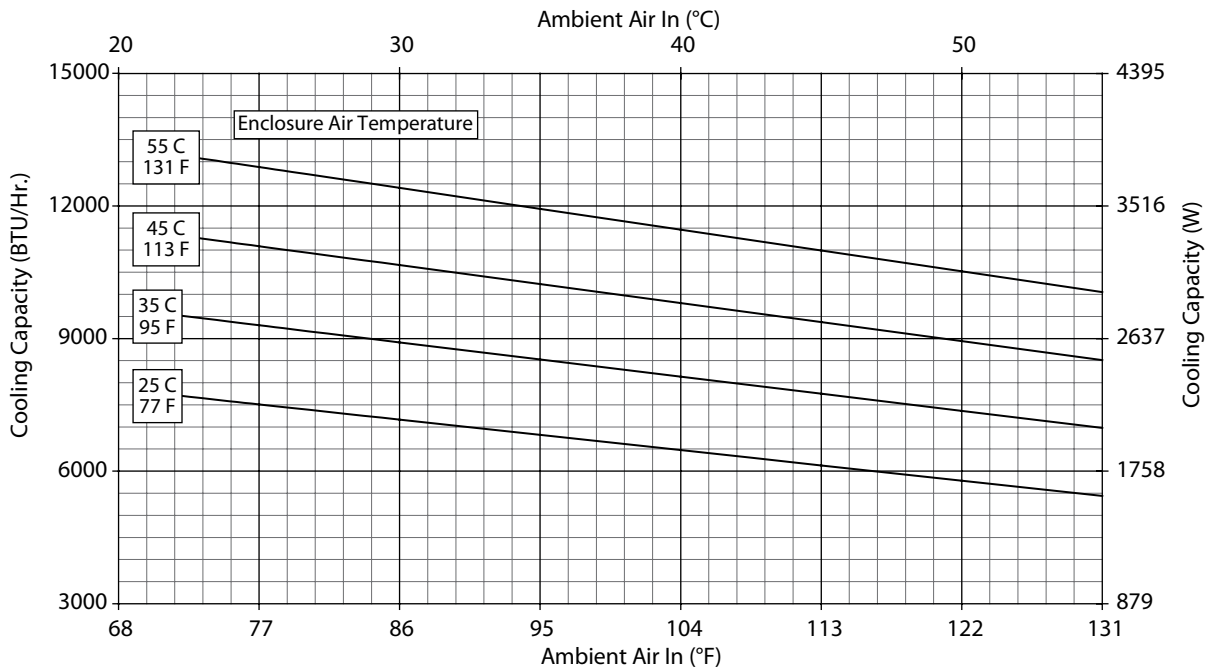


N43-1226-GXXX Capacity Curves at 60 Hz

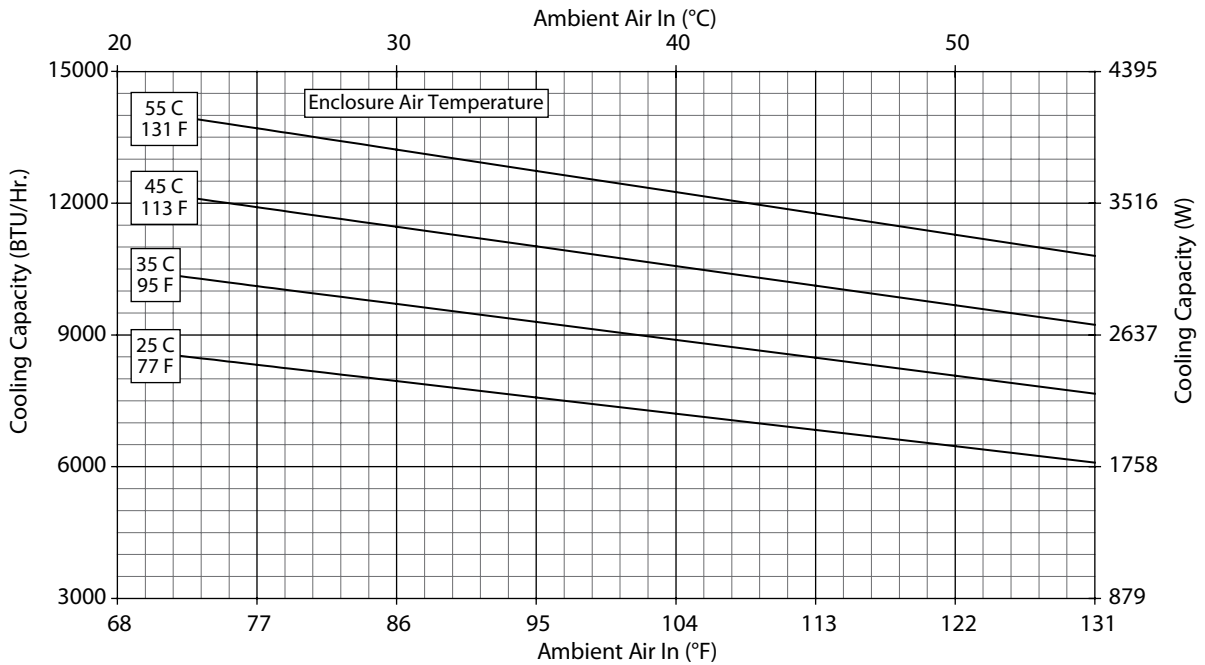


Performance Curves for N43 Models 11000 BTU/Hr. (3223 Watt)

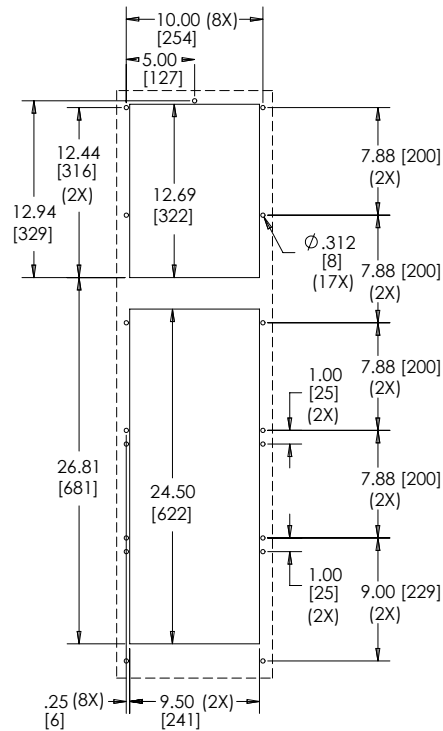
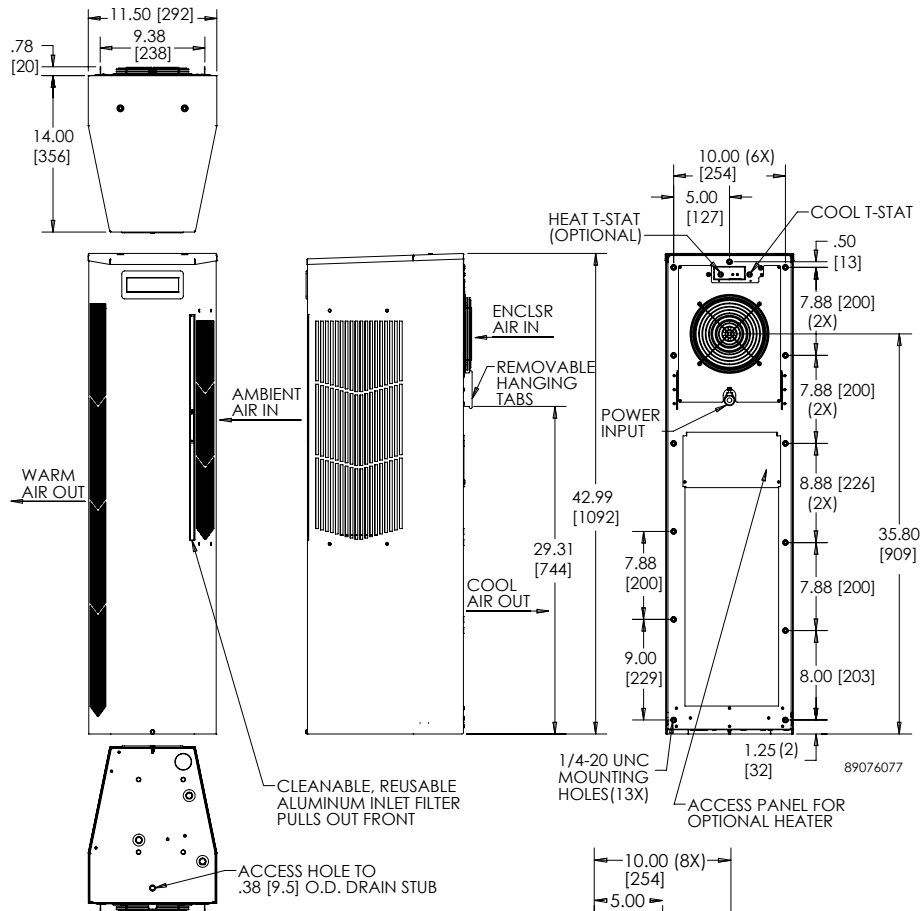
N43-1246-GXXX Capacity Curves at 50 Hz



N43-1246-GXXX Capacity Curves at 60 Hz



N43 12000 BTU/Hr. (3516 Watt)



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