

SpectraCool Narrow Sealed Enclosure Cooling

SpectraCool Narrow Compact Indoor



N16 115/230 Volt
800 BTU/Hr
234 Watt



N21 115/230 Volt
2000 BTU/Hr
586 Watt

INDUSTRY STANDARDS

UL/cUL Listed; type 12, 3R, 4, 4X optional;
File no. SA6453
UR/cUR Recognized on select models for n16 and n21
CE
IP 54 Internal Loop
IP 34 External Loop EAC
Telcordia GR-487 capable (outdoor)
Reference performance data tables for agency approvals
applied to each model.

APPLICATION

- Industrial automation
- Package handling equipment
- Security and defense systems

FEATURES

- Narrow design accommodates 12-in. deep cabinets
- R134a and R513A earth-friendly refrigerants
- Models for 115, 230 and 400/460 VAC power input
- UL Listed to save customers time and money with agency approvals
- Attractive industrial design with minimal use of visible fasteners
- Reliable mechanical thermostat is located behind the cover of the unit; 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
- Cutout adapter options for enclosures with 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
 - Power-off relay for door switch and other system requirements
 - Malfunction switch

SPECIFICATION

- Nominal cooling capacity:
N16 800 Btu/Hr (234 W)
N21 2000 Btu/Hr (586 W)
- Operating temperature range
from 50°F/10°C to 125°F/52°C

FINISH

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

PERFORMANCE DATA N16 800 BTU/HR (234 WATT) MODELS

Catalog Number

Indoor Model	N160116G050	N160126G050
Indoor Model Stainless Steel Type 4X	N160116G051	N160126G051
Indoor Model with Remote Access Control*	N160116G060	N160126G060

Cooling Performance

Nominal:		
BTU/Hr (50/60Hz)	800/800	800/900
Watts (50/60Hz)	235/235	235/264
At Maximum Operating Temperatures:		
BTU/Hr (50/60Hz)	819	920/960
W (50/60Hz)	240	270/281
At 95°F/95°F (35°C/35°C):		
BTU/Hr (50/60Hz)	948	810/955
W (50/60Hz)	278	237/280
Refrigerant	R134a or R513A	R134a or R513A
Refrigerant Charge (ounces/grams)	4/113	3.8/107
Operating Temperature Range:		
Maximum (°F/°C)	125/52 (50Hz) 131/55 (60Hz)	125/52 (50Hz) 131/55 (60Hz)
Minimum (°F/°C)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50Hz (CFM/m³/hr)	25/42	25/42
External loop 50Hz (CFM/m³/hr)	48/82	48/82
Internal loop 60Hz (CFM/m³/hr)	30/51	30/51
External loop 60Hz (CFM/m³/hr)	53/90	53/90
Max. Heater W (Outdoor Models)	150	150

Electrical Data

Rated Voltage	100/115	220/230
Frequency (Hz)	50/60	50/60
Operating Range	+/- 10%	+/- 10%
Max. Power Consumption (Watts at 50/60Hz)	360/403	330/345
Max. Nominal Current (Amps at 50/60Hz)	3.6/3.5	1.5/1.5
Starting Current (Amps)	8.0/9.2	3.3/3.1
Agency Approvals	cUL Listed CE EAC Others available upon request	
Power Input Description	Terminal Block	Terminal Block

Enclosure Protection

UL Type	Type 12, 3R standard Type 4X Stainless steel optional
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Controller

Description	Basic mechanical thermostat
Thermostat Location	Enclosure behind front panel
Factory Thermostat Setting (°F/°C)	80/27

Sound Level

At 1.5 Meters	63 dB(A)
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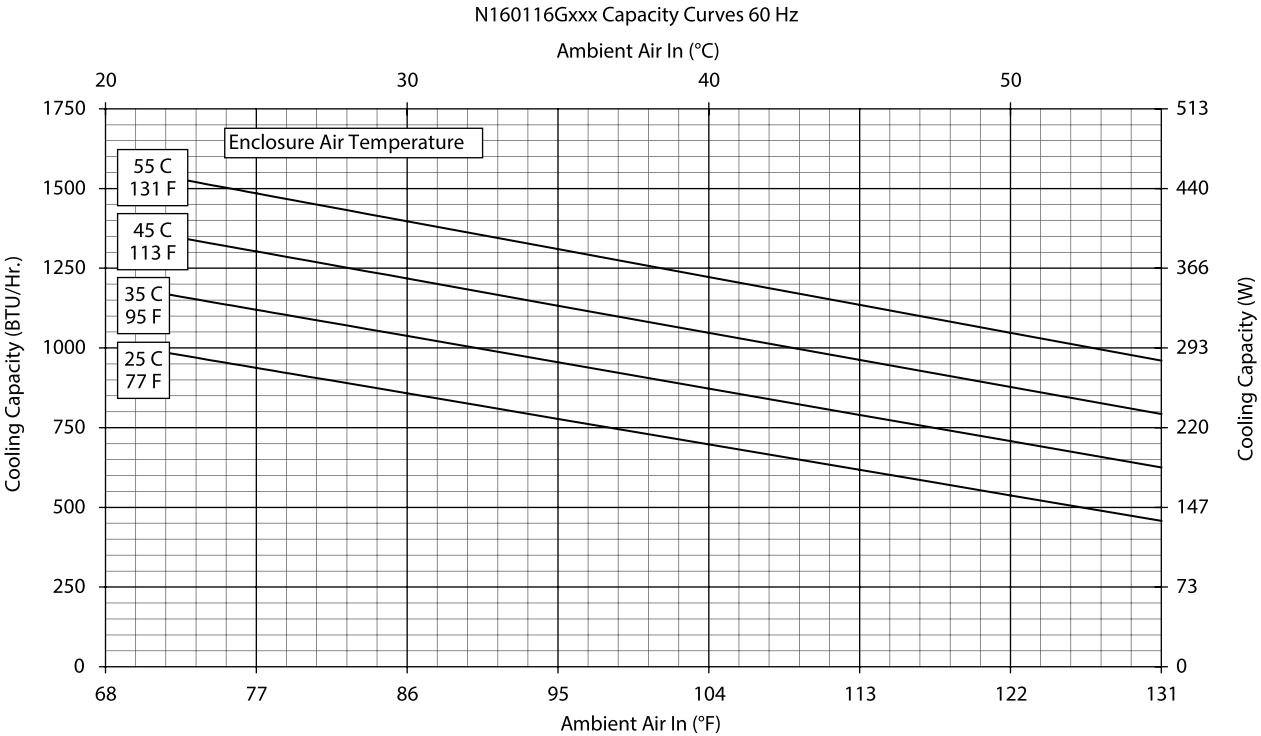
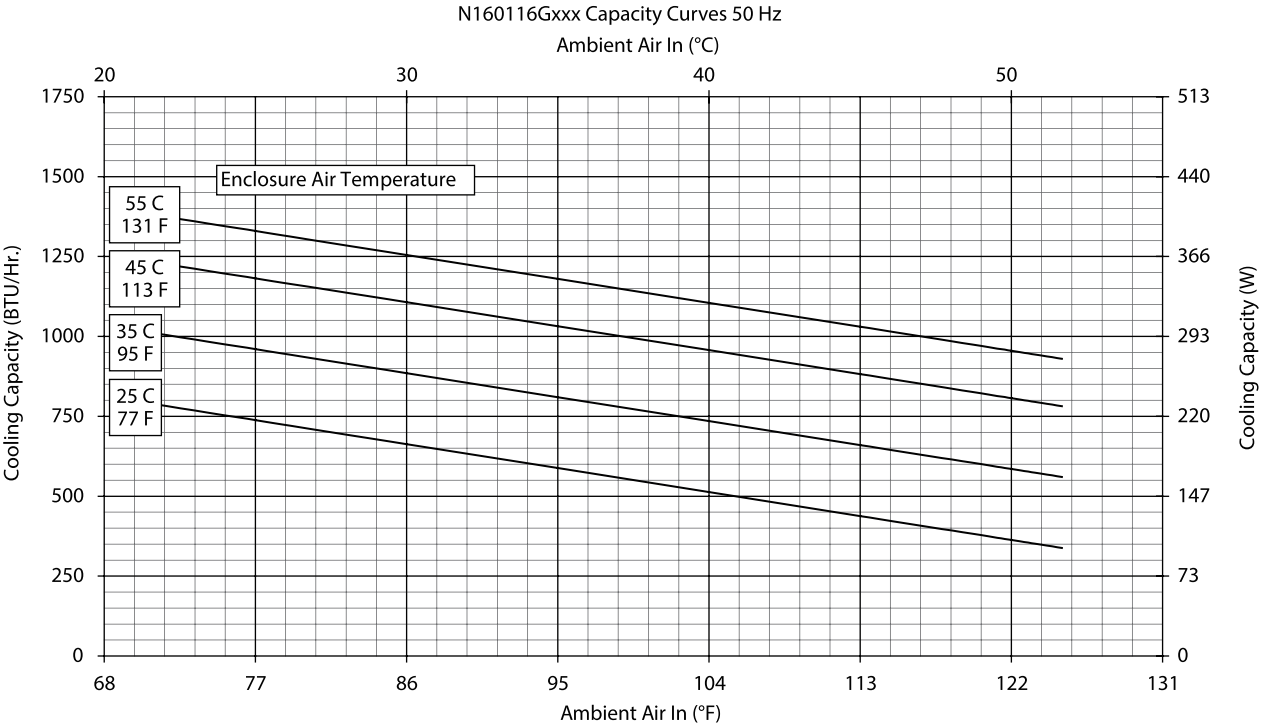
Unit Construction

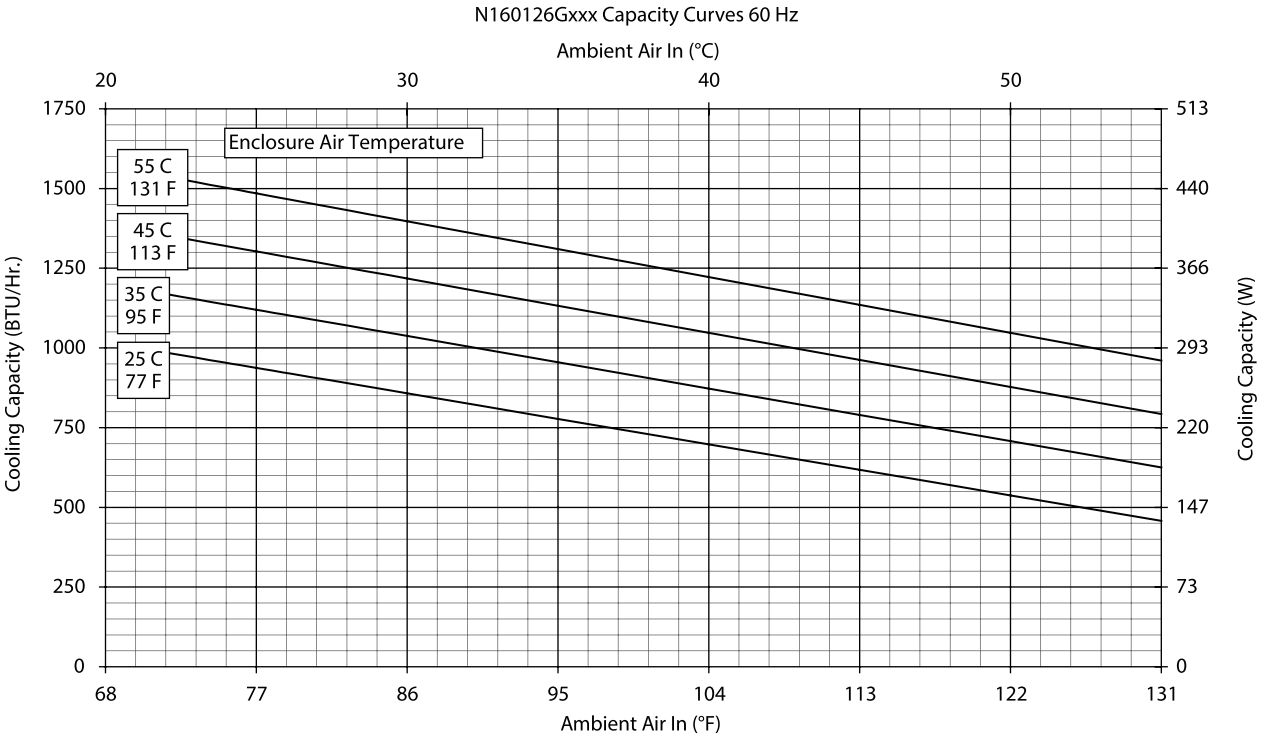
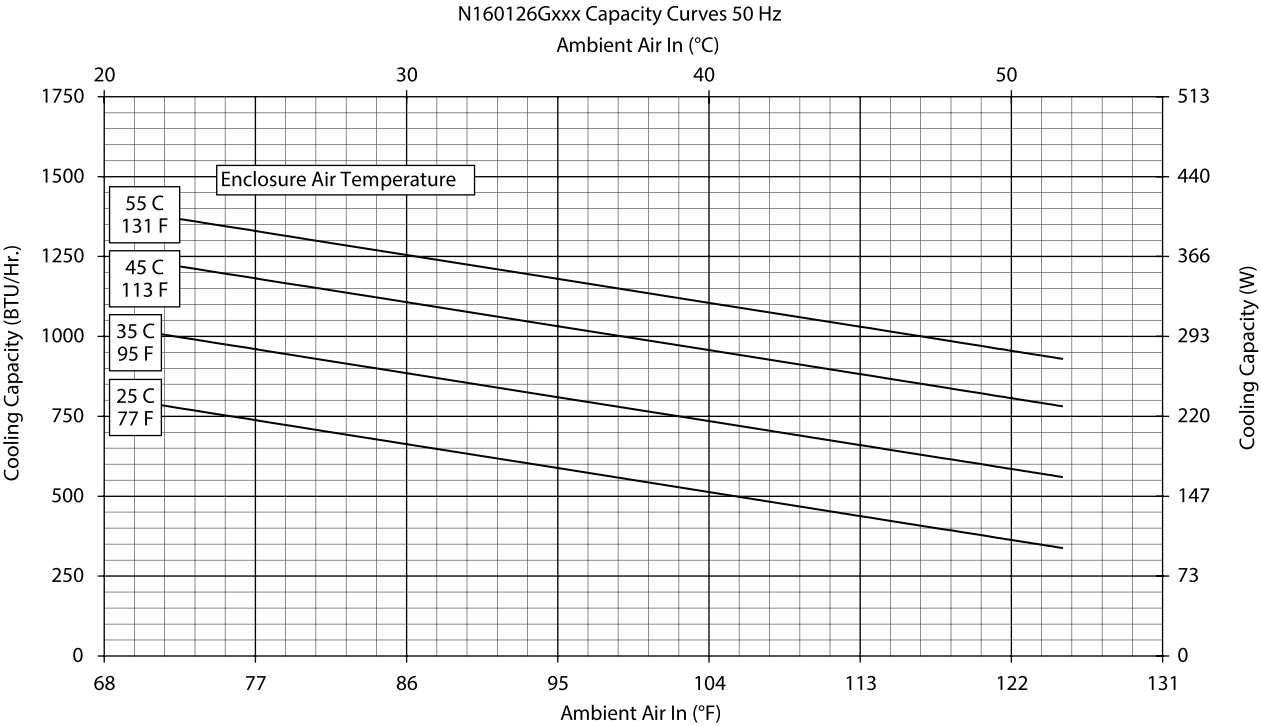
Material	Galvanized sheet metal standard Stainless steel optional
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard

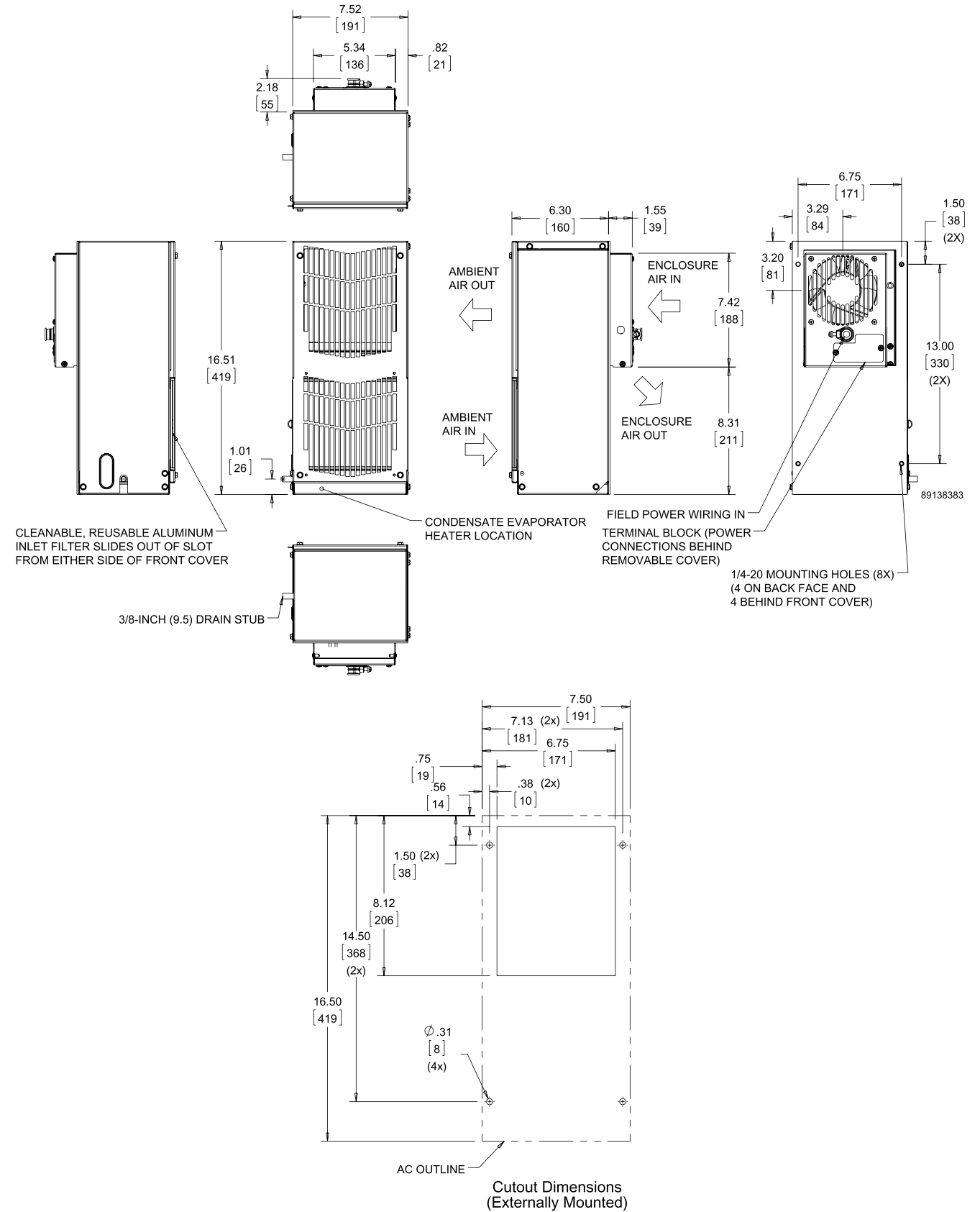
Unit Dimensions

Height (in/mm)	16.51/419
Width (in/mm)	7.52/191
Depth (in/mm)	6.30/160
Weight (lb/kg)	27/12

*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 DATA N21 2000 BTU/HR (586 WATT) MODELS

Catalog Number

Indoor Model	N210216G050	N210226G050	N210246G050
Indoor Model Stainless Steel Type 4X	N210216G051	N210226G051	N210246G051
Indoor Model with Remote Access Control*	N210216G060	N210226G060	N210246G060

Cooling Performance

Nominal:			
BTU/Hr (50/60Hz)	1800/2000	1800/2000	1800/2000
Watts (50/60Hz)	528/586	528/586	528/586
At Maximum Operating Temperatures:			
BTU/Hr (50/60Hz)	2000/2175	2000/2175	2000/2175
W (50/60Hz)	586/637	586/637	586/637
At 95°F/95°F (35°C/35°C):			
BTU/Hr (50/60Hz)	1800/1975	1800/1900	1800/1900
W (50/60Hz)	571/645	571/645	571/645
Refrigerant	R134a or R513A	R134a or R513A	R134a or R513A
Refrigerant Charge (ounces/grams)	6.5/184	6.5/184	6.5/184
Operating Temperature Range:			
Maximum (°F/°C)	131/55	131/55	131/55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50Hz (CFM/m³/hr)	77/131	77/131	77/131
External loop 50Hz (CFM/m³/hr)	150/255	150/255	150/255
Internal loop 60Hz (CFM/m³/hr)	91/155	91/155	91/155
External loop 60Hz (CFM/m³/hr)	165/280	165/280	165/280
Max. Heater W (Outdoor Models)	500	500	500

Electrical Data

Rated Voltage	115	230	460V 1PH
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (Watts at 50/60Hz)	700/805	805	874
Max. Nominal Current (Amps at 50/60Hz)	7.0/7.0	3.5/3.5	1.9
Starting Current (Amps)	19	7.6	7.2
Agency Approvals	cUL Listed CE EAC Others available upon request		cUR Recognized CE EAC
Power Input Description	Terminal Block	Terminal Block	Terminal Block

Enclosure Protection

UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional
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Controller

Description	Basic mechanical thermostat
Thermostat Location	Enclosure side on all base models
Factory Thermostat Setting (°F/°C)	80/27

Sound Level

At 1.5 Meters	66 dB(A)
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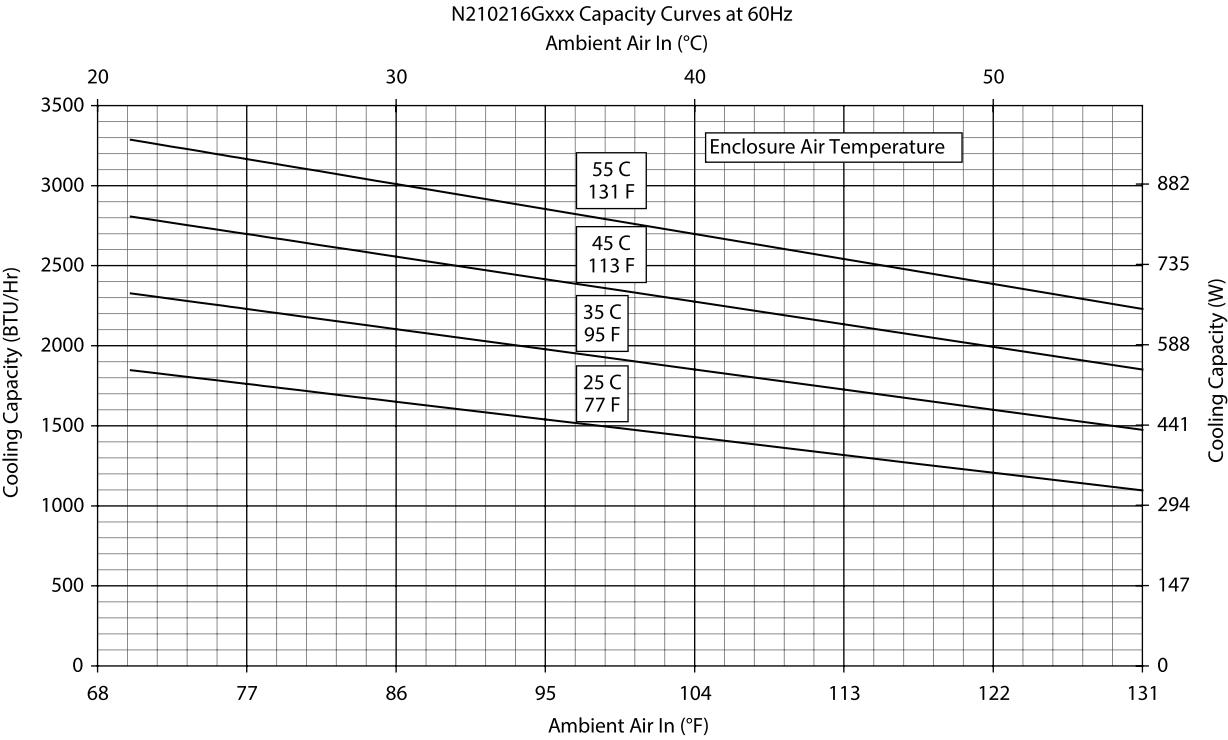
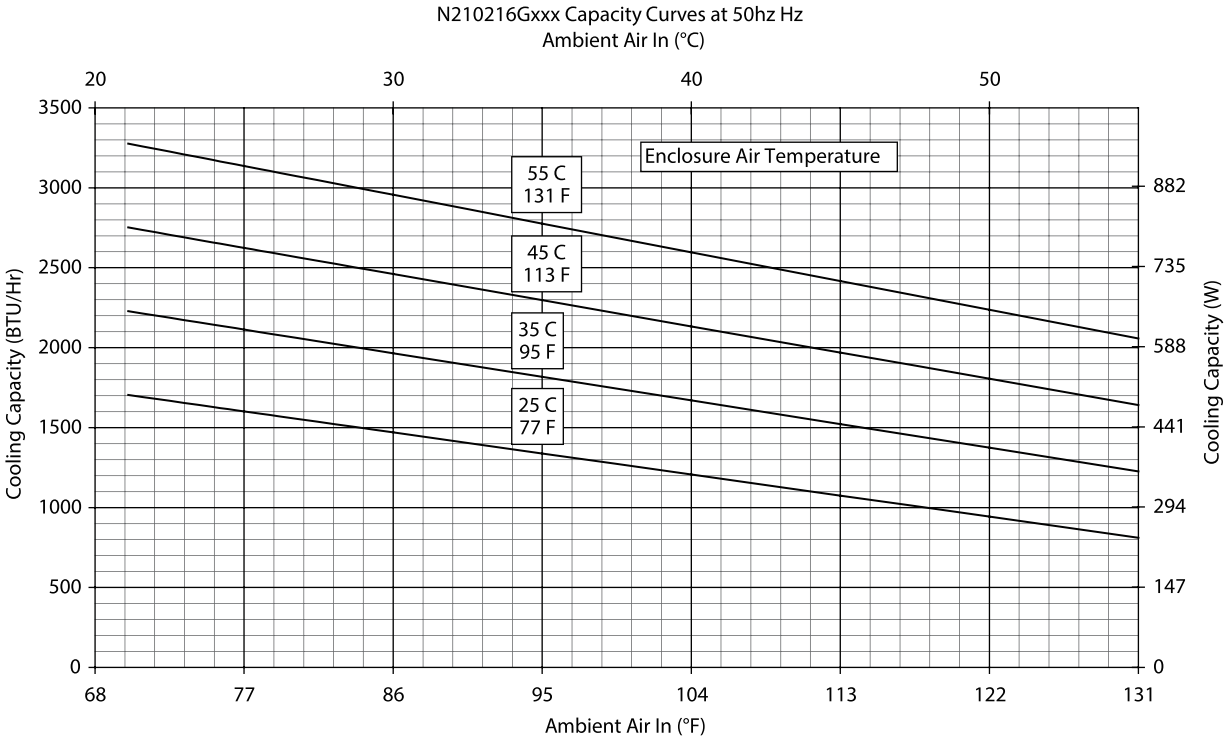
Unit Construction

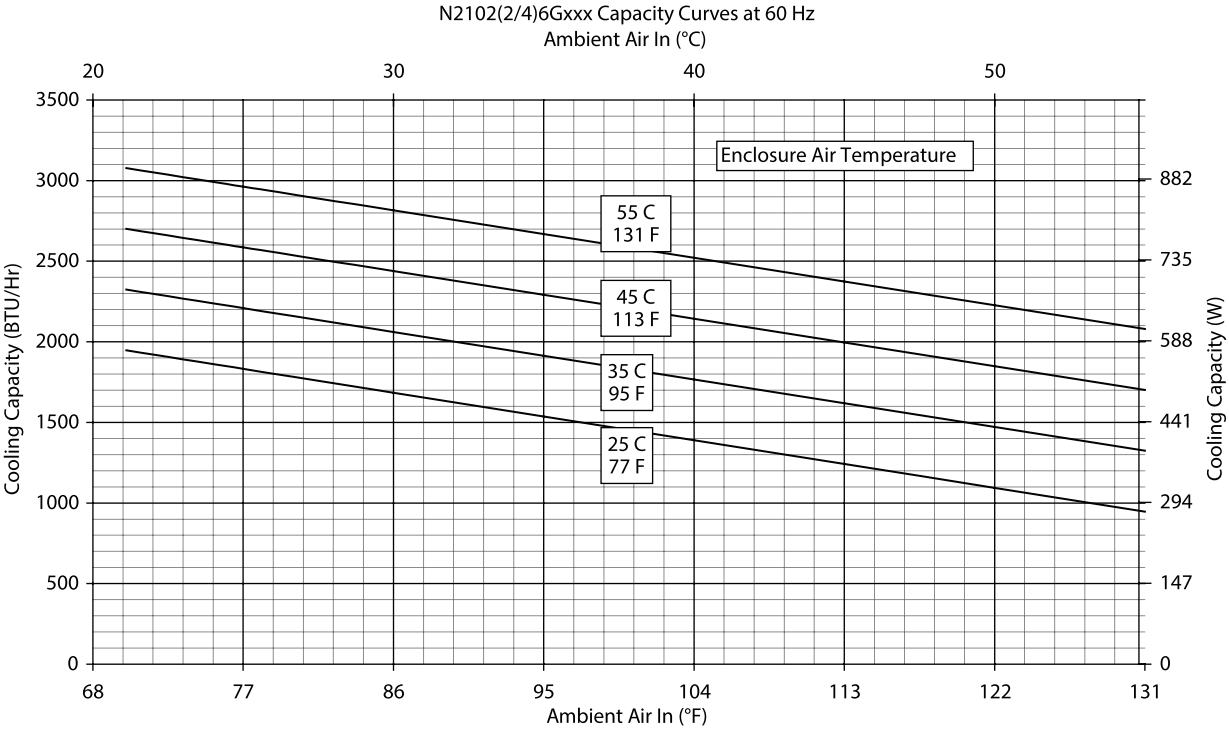
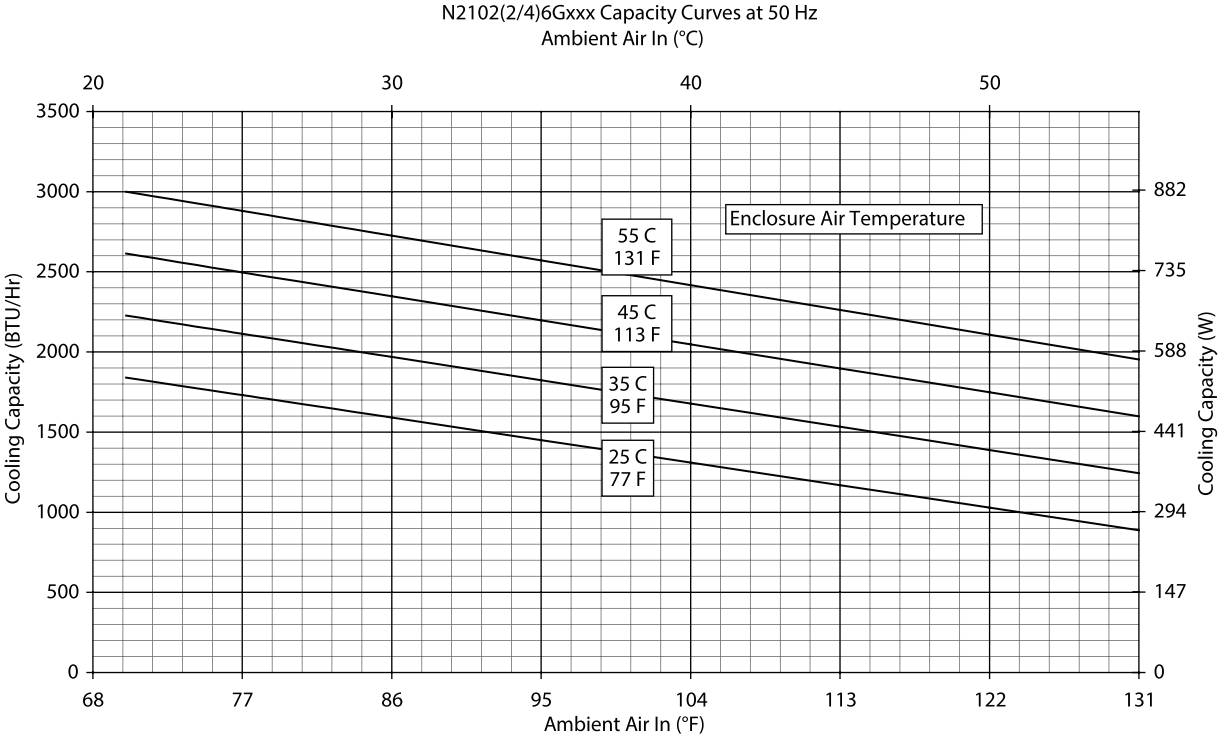
Material	Galvanized sheet metal standard Stainless steel optional
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

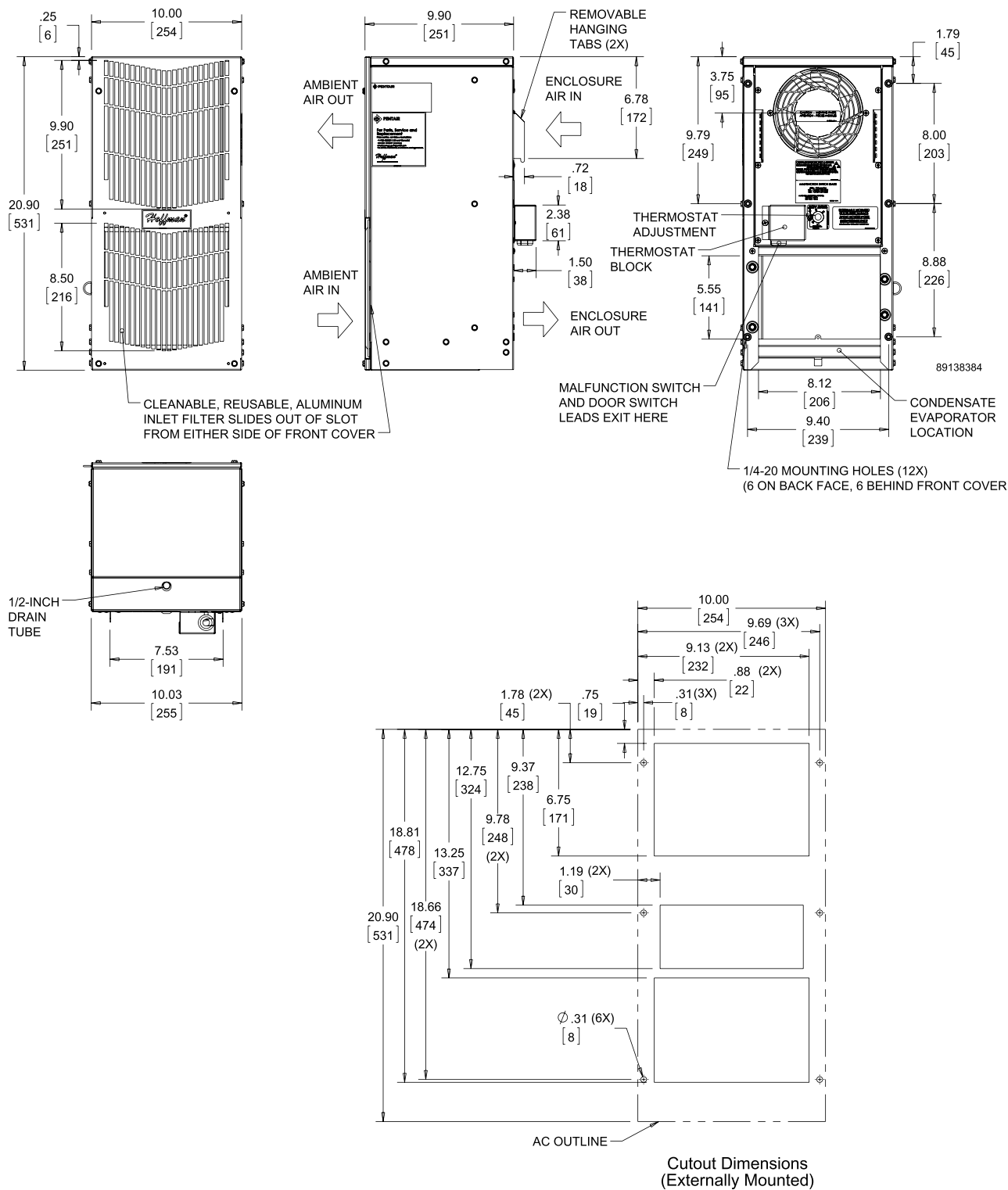
Unit Dimensions

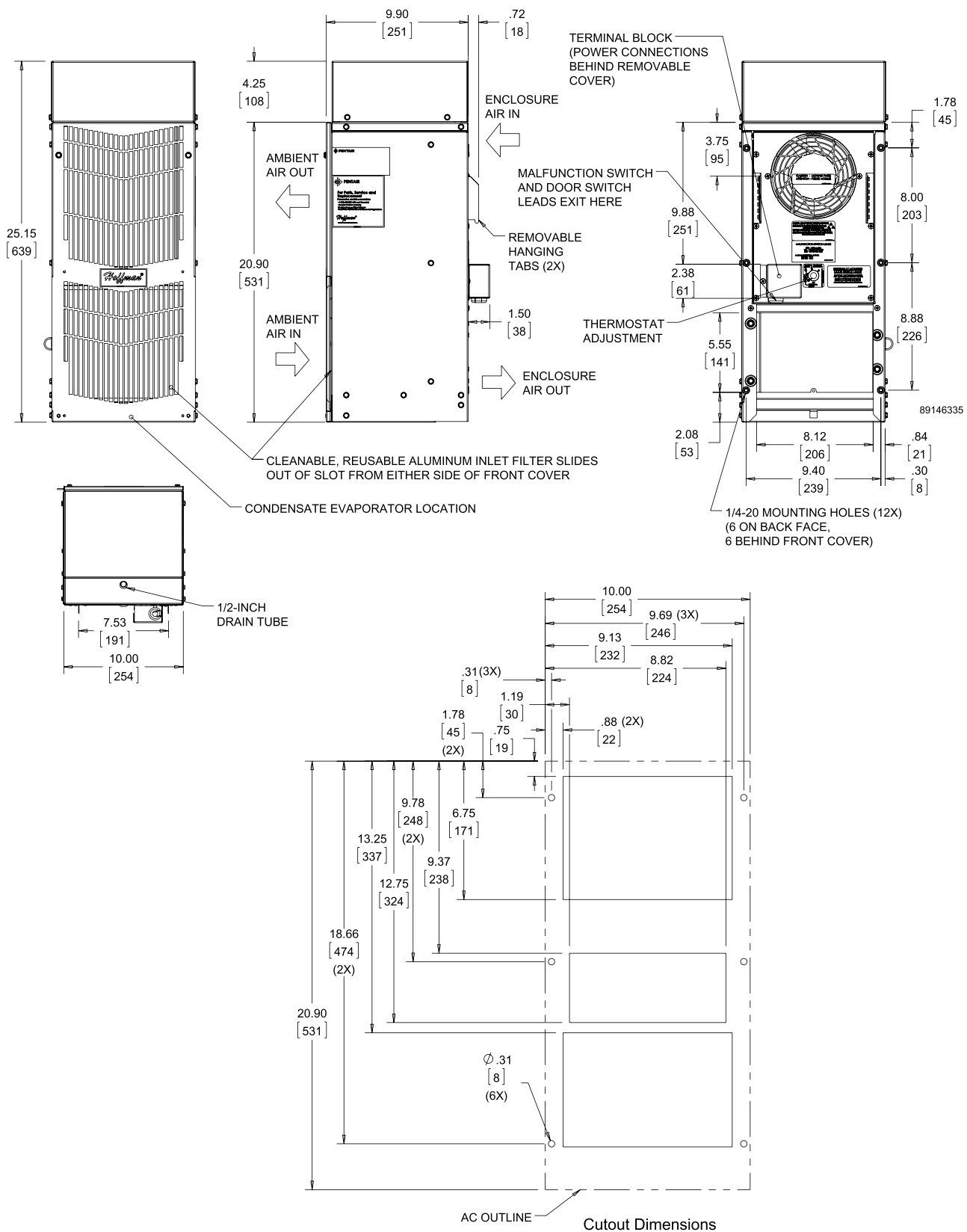
Height (in/mm)	20.92/531	20.92/531	25.17/614
Width (in/mm)	10.00/254	10.00/254	10.00/254
Depth (in/mm)	9.90/251	9.90/251	9.90/251
Weight (lb/kg)	56/25	56/25	66/30

*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.









SpectraCool Narrow Indoor/Outdoor



N43
11000 BTU/Hr
3223 Watt

N36
6000 BTU/Hr
1758/2344 Watt

N28
4000 BTU/Hr
1172 Watt

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

SPECIFICATION

- 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 (125°F/52°C on N28 Series)

FINISH

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

FEATURES

- Narrow design accommodates 12-in. (300-mm) deep cabinets
- Energy efficient reciprocating compressor on N28 models
- Energy efficient rotary compressor on N36 and N43 models
- R407c, 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
- Outdoor model operating temperature range from -40°F/-40°C to 131°F/55°C (125°F/52°C on N28 Series)
- 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 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

PERFORMANCE DATA N21 2000 BTU/HR (586 WATT) MODELS

Catalog Number

Indoor Model	N280416G050	N280426G050	N280446G050
Indoor Model Stainless Steel Type 4X	N280416G051	N280426G051	N280446G051
Indoor Model with Remote Access Control*	N280416G060	N280426G060	N280446G060
Outdoor Model without Heat Pkg.	N280416G100	N280426G100	N280446G100
Outdoor Model with Heat Pkg.	N280416G150	N280426G150	—
Outdoor Model with Heat Pkg. Stainless Steel Type 4X	N280416G151	N280426G151	N280446G151

Cooling Performance

Nominal:			
BTU/Hr (50/60Hz)	3800/4000	3800/4000	3800/4000
Watts (50/60Hz)	1114/1172	1114/1172	1114/1172
At Maximum Operating Temperatures:			
BTU/Hr (50/60Hz)	3940/4104	4269/4703	4269/4703
W (50/60Hz)	1150/1000	1250/1378	1250/1378
At 95°F/95°F (35°C/35°C):			
BTU/Hr (50/60Hz)	3754/4011	3700/4291	3700/4291
W (50/60Hz)	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
Airflow at 0 Static Pressure:			
Internal loop 50Hz (CFM/m³/hr)	138/234	138/234	138/234
External loop 50Hz (CFM/m³/hr)	268/455	268/455	268/455
Internal loop 60Hz (CFM/m³/hr)	143/243	143/243	143/243
External loop 60Hz (CFM/m³/hr)	288/489	288/489	288/489
Max. Heater W (Outdoor Models)	1300	1300	N/A

Electrical Data

Rated Voltage	115	230	460V 1PH
Frequency (Hz)	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (Watts at 50/60Hz)	971/1116	975/1104	1104
Max. Nominal Current (Amps at 50/60Hz)	10.1/11.2	4.9/5.0	2.5
Starting Current (Amps)	40	24.5	12.5
Agency Approvals	cUL Listed CE Others available upon request		
Power Input Description	Terminal Block	Terminal Block	Terminal Block

Enclosure Protection

UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional
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Controller

Description	Basic mechanical thermostat
Thermostat Location	Enclosure side
Factory Thermostat Setting (°F/°C)	80/27

Sound Level

At 1.5 Meters	64.4 dB(A)	65.5 dB(A)	65.5 dB(A)
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Unit Construction

Material	Galvanized sheet metal standard Stainless steel optional
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

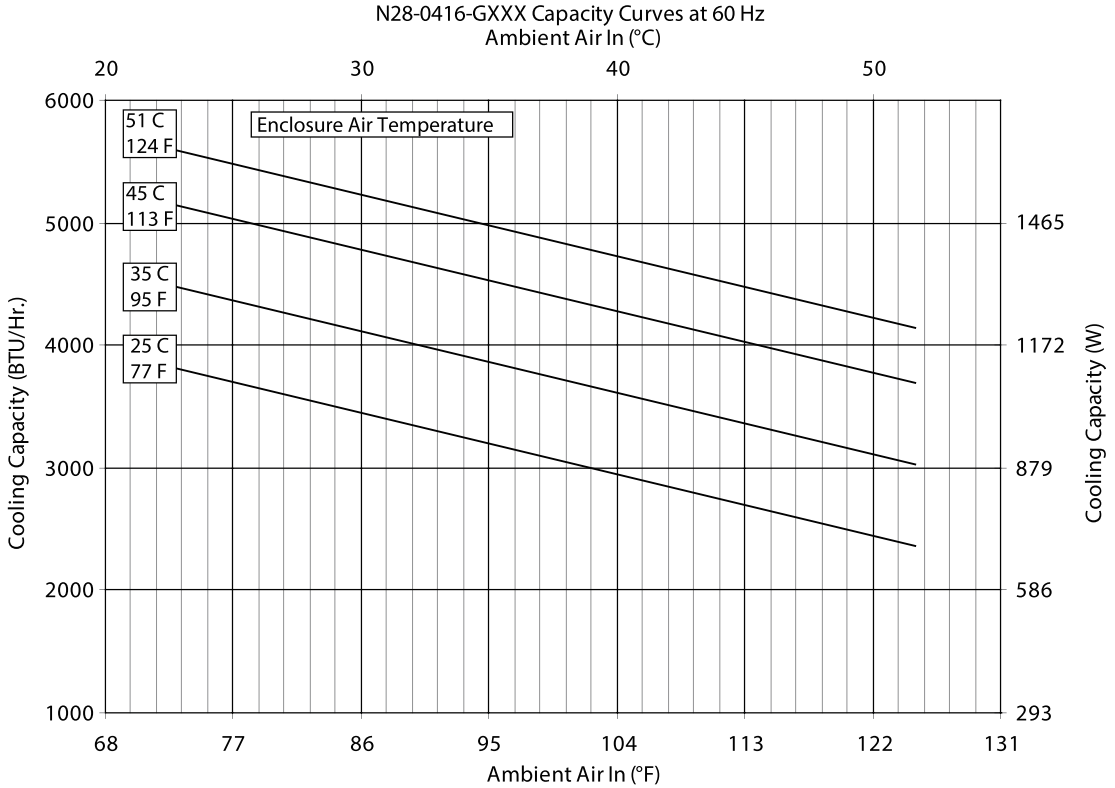
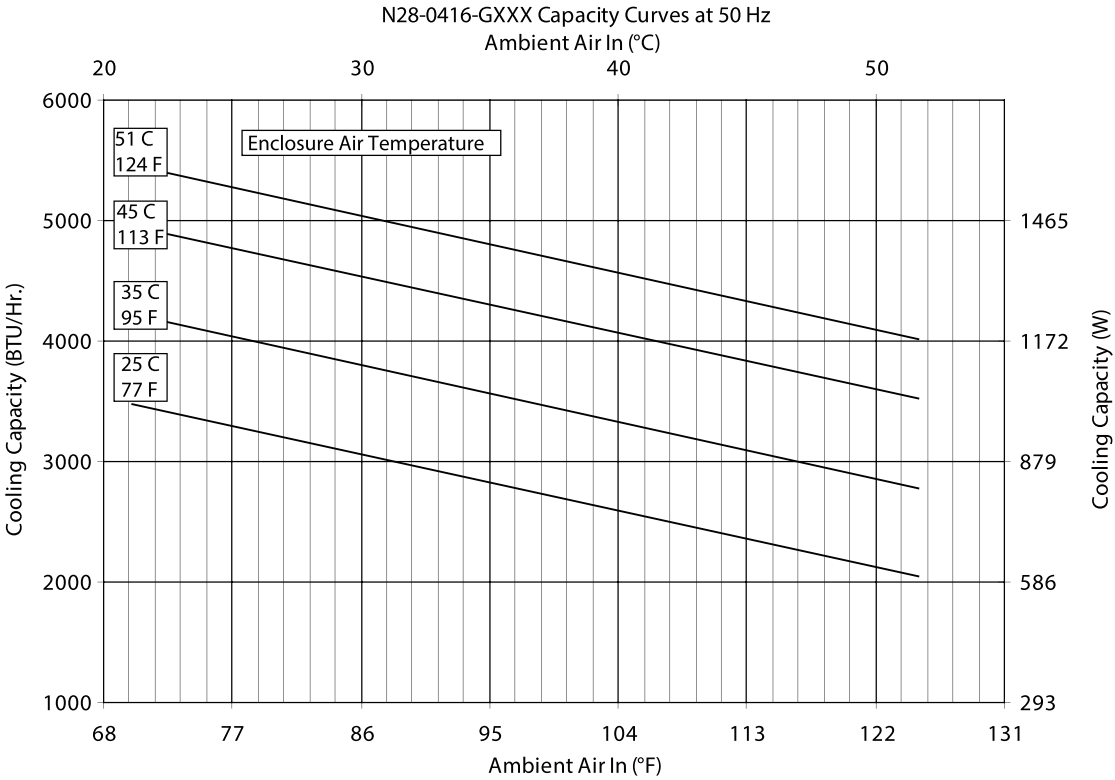
Accessories

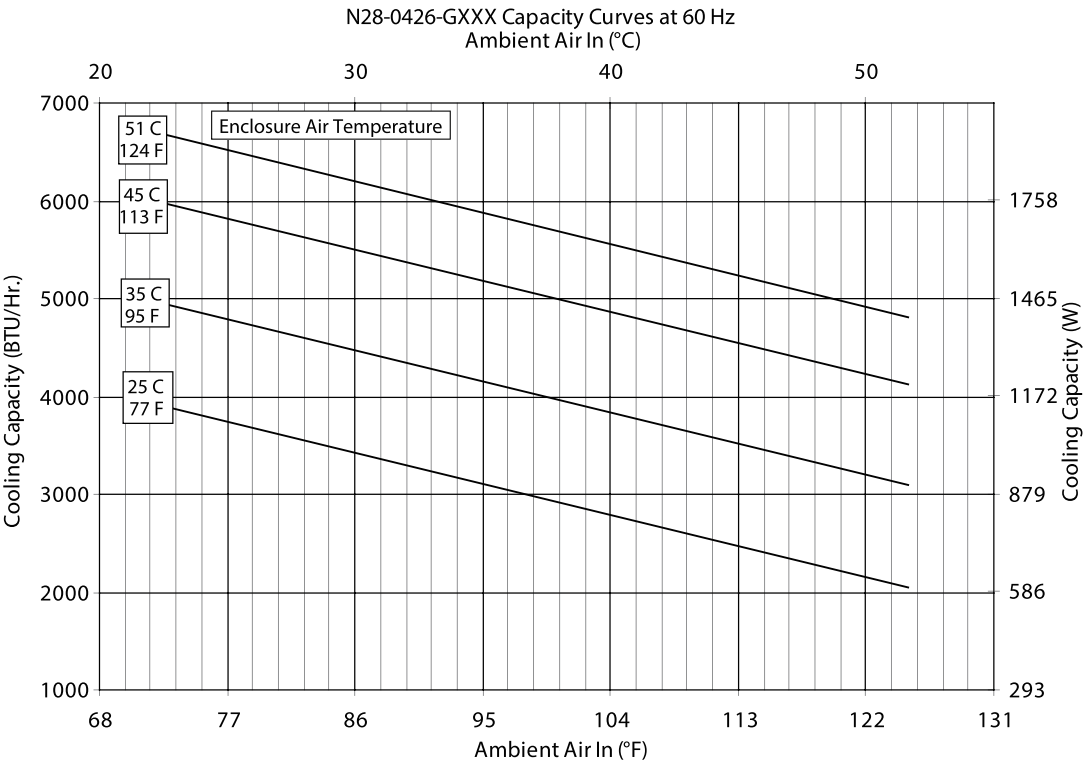
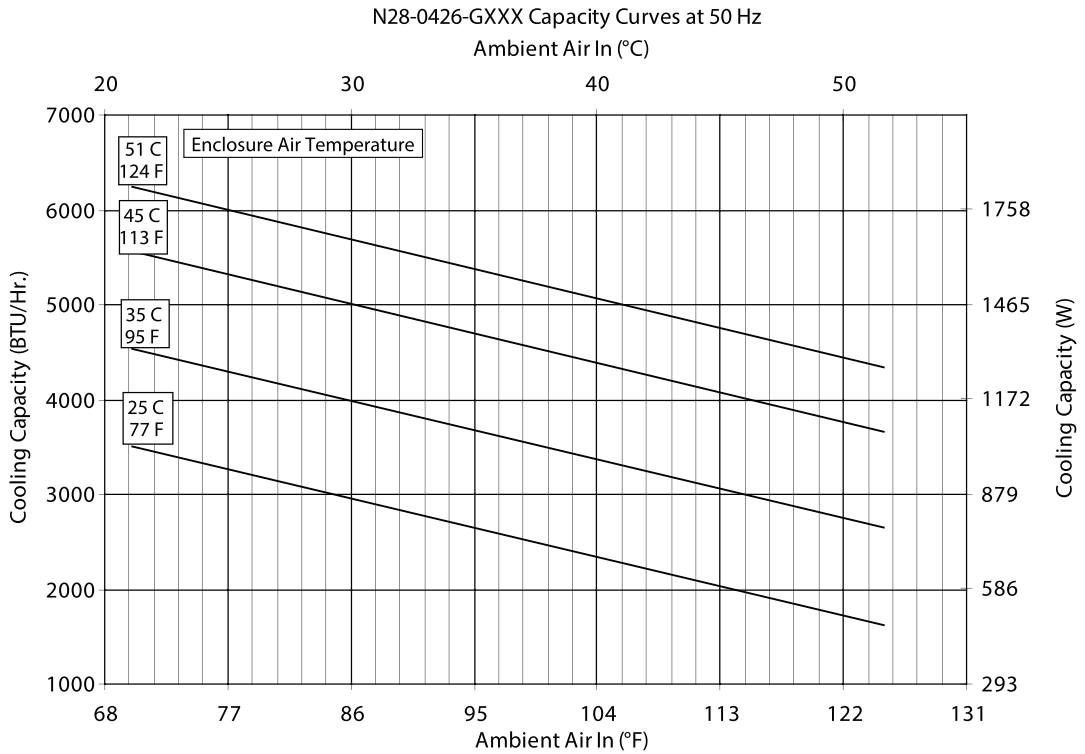
EASYSWAP Adaptor Plenum (GENESIS M33)	Enables SPECTRACOOOL to be mounted to a GENESIS M33 air conditioner cutout Catalog Number PLM33N28
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Unit Dimensions

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

*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 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
Indoor Model with Remote Access Control*	N360616G060	N360626G060	N360646G060	N360816G060	N360826G060	N360846G060
Outdoor Model without Heat Pkg.	N360616G100	N360626G100	N360646G100	N360816G100	N360826G100	N360846G100
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 (50/60Hz)	5400/6000	5400/6000	5400/6000	7100/7800	7400/8000	8250/8500
Watts (50/60Hz)	1581/1757	1581/1757	1581/1757	2081/2286	2169/2345	2284/2401
At Maximum Operating Temperatures:						
BTU/Hr (50/60Hz)	5639/6217	5771/6410	5300/6089	7074/7754	7444/7955	7311/7940
W (50/60Hz)	1653/1822	1691/1879	1553/1785	2073/2272	2182/2331	2143/2327
At 95°F/95°F (35°C/35°C):						
BTU/Hr (50/60Hz)	5104/5654	5613/5647	5572/6026	6248/6739	6515/6855	6448/6716
W (50/60Hz)	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
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
Airflow at 0 Static Pressure:						
Internal loop 50Hz (CFM/m³/hr)	251/426	250/425	250/425	250/425	245/416	243/413
External loop 50Hz (CFM/m³/hr)	284/483	338/574	338/574	353/600	347/589	365/620
Internal loop 60Hz (CFM/m³/hr)	261/443	261/443	261/443	263/447	258/439	254/432
External loop 60Hz (CFM/m³/hr)	311/528	356/605	356/605	396/673	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 50/60Hz)	914/1074	949/1097	697/895	1100/1333	1199/1476	1327/1647
Max. Nominal Current (Amps at 50/60Hz)	8.6/9.4	4.7/5.0	1.59/1.69	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 12, 3R, 4 standard Type 4X Stainless steel optional
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Controller

Description	Basic mechanical thermostat
Thermostat Location	Enclosure side
Factory Thermostat Setting (°F/°C)	80/27

Sound Level

At 1.5 Meters	66.9 dB(A)	66.7 dB(A)	68.2 dB(A)	74.5 dB(A)	66.0 dB(A)	66.0 dB(A)
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Unit Construction

Material	Galvanized sheet metal standard Stainless steel optional
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

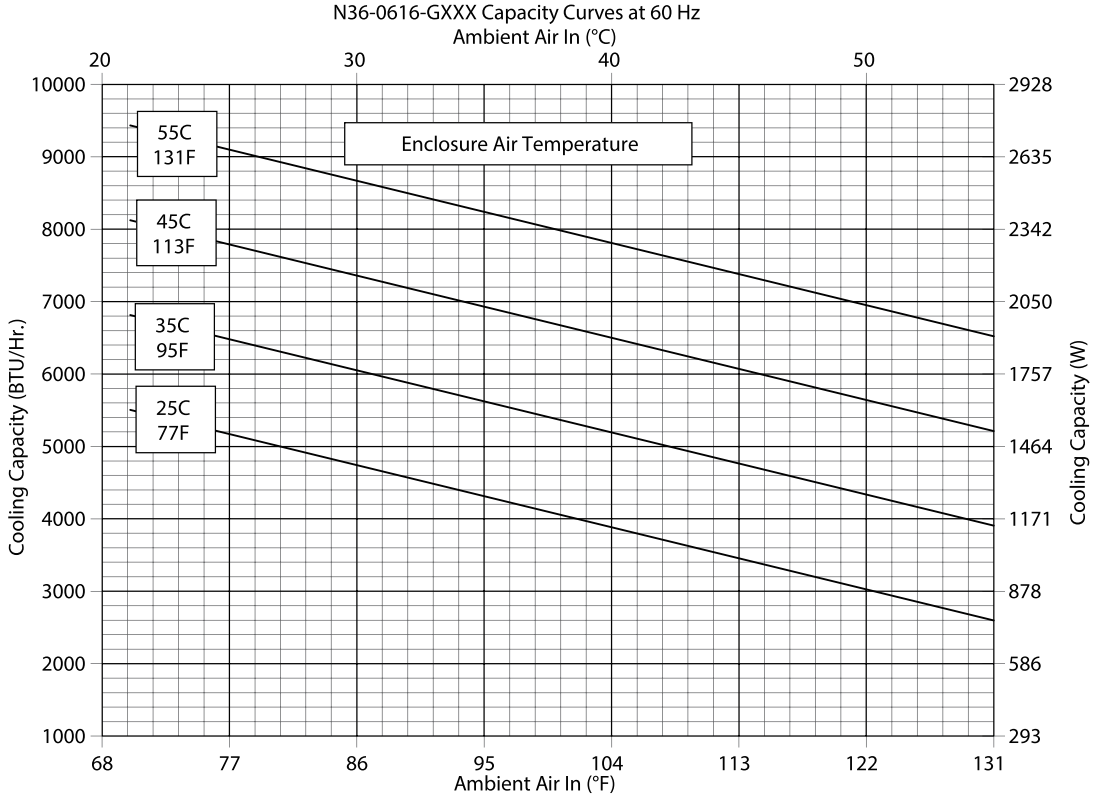
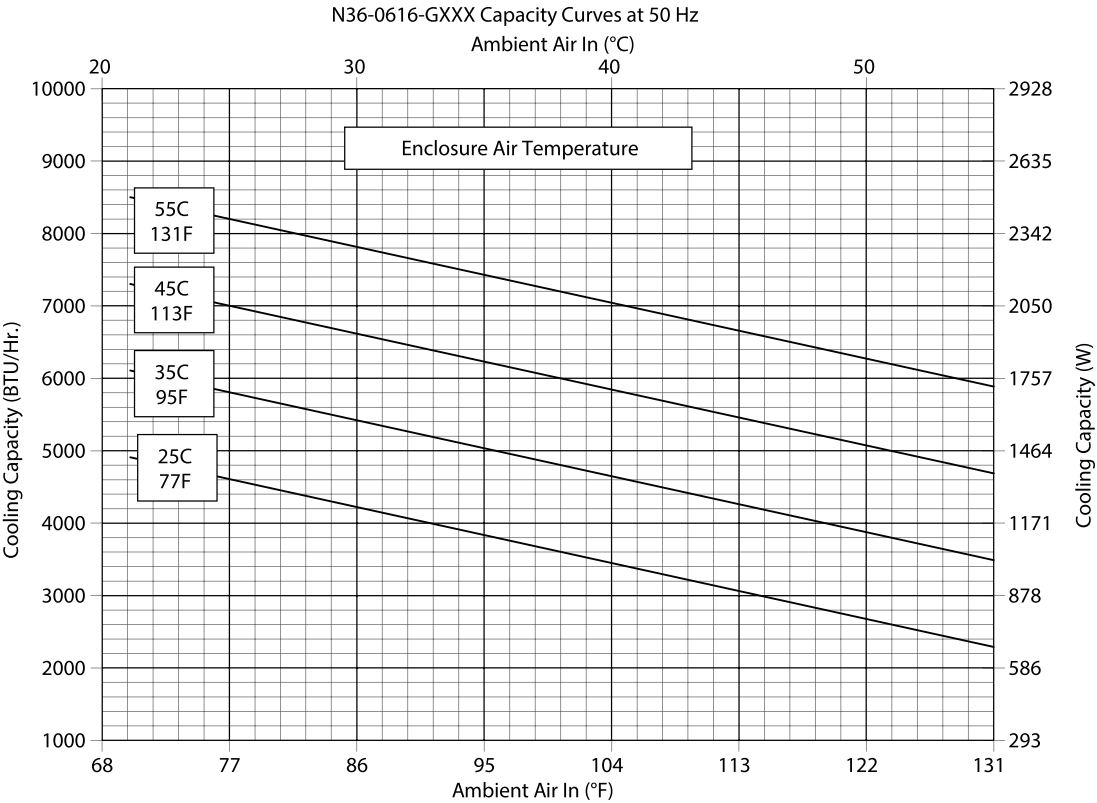
Accessories

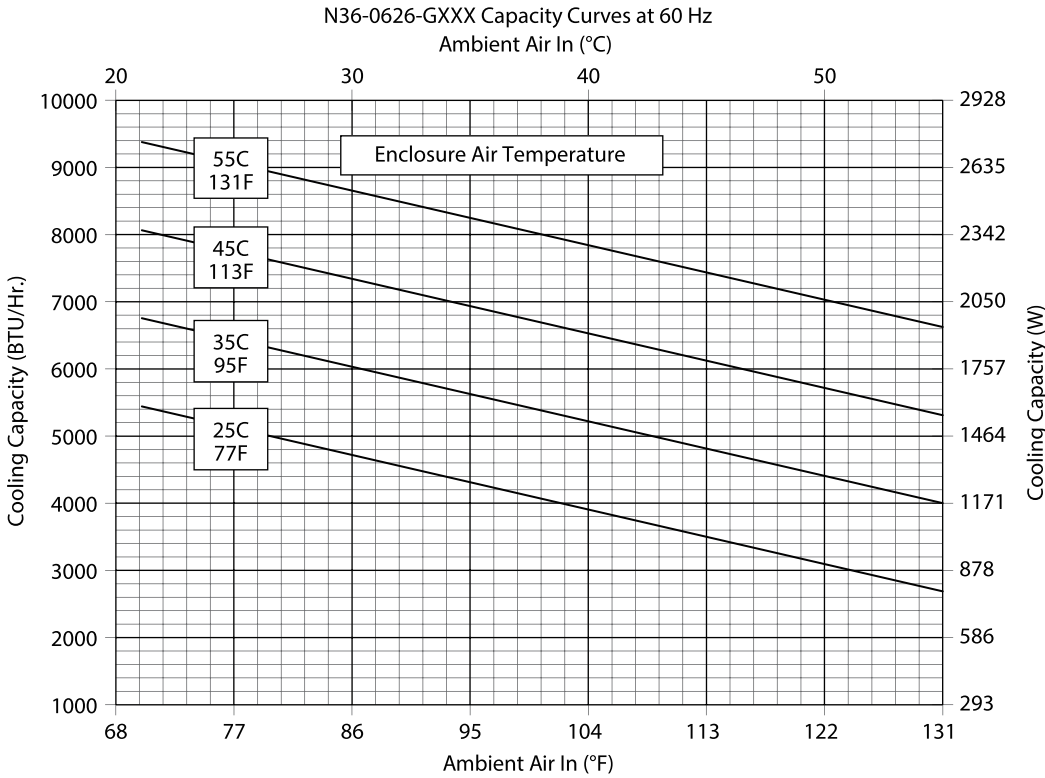
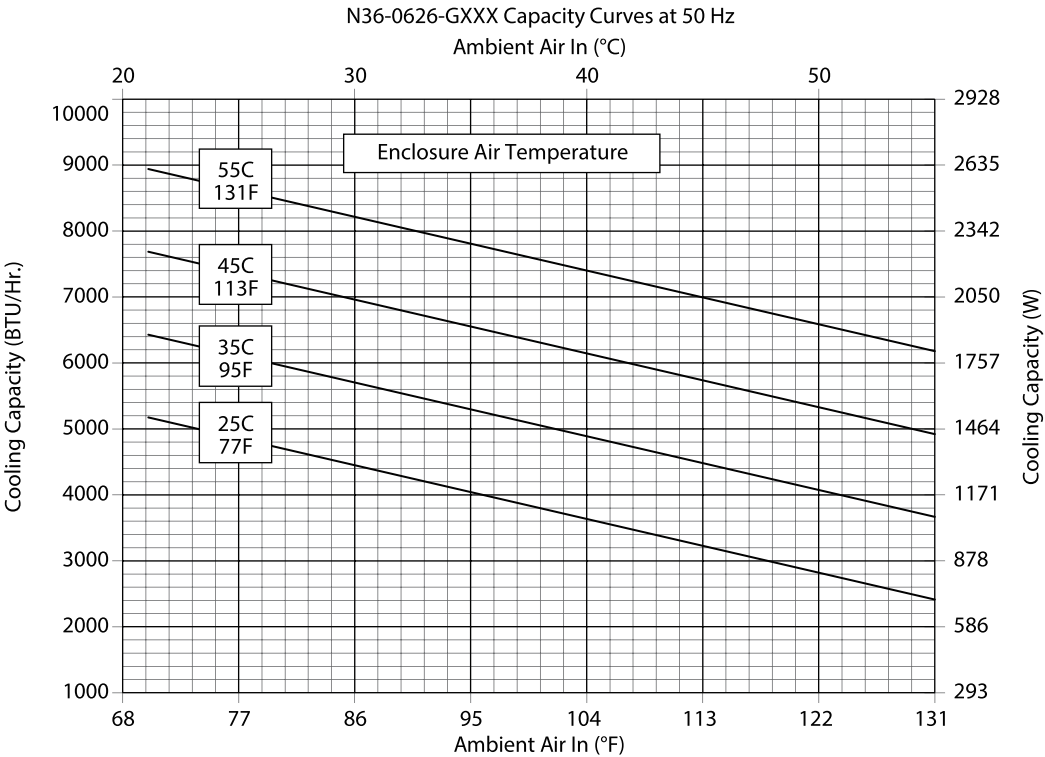
EASYSWAP Adaptor Plenum (GENESIS M33)	Enables SPECTRACOOOL to be mounted to a GENESIS M36 air conditioner cutout Catalog Number PLM36N36
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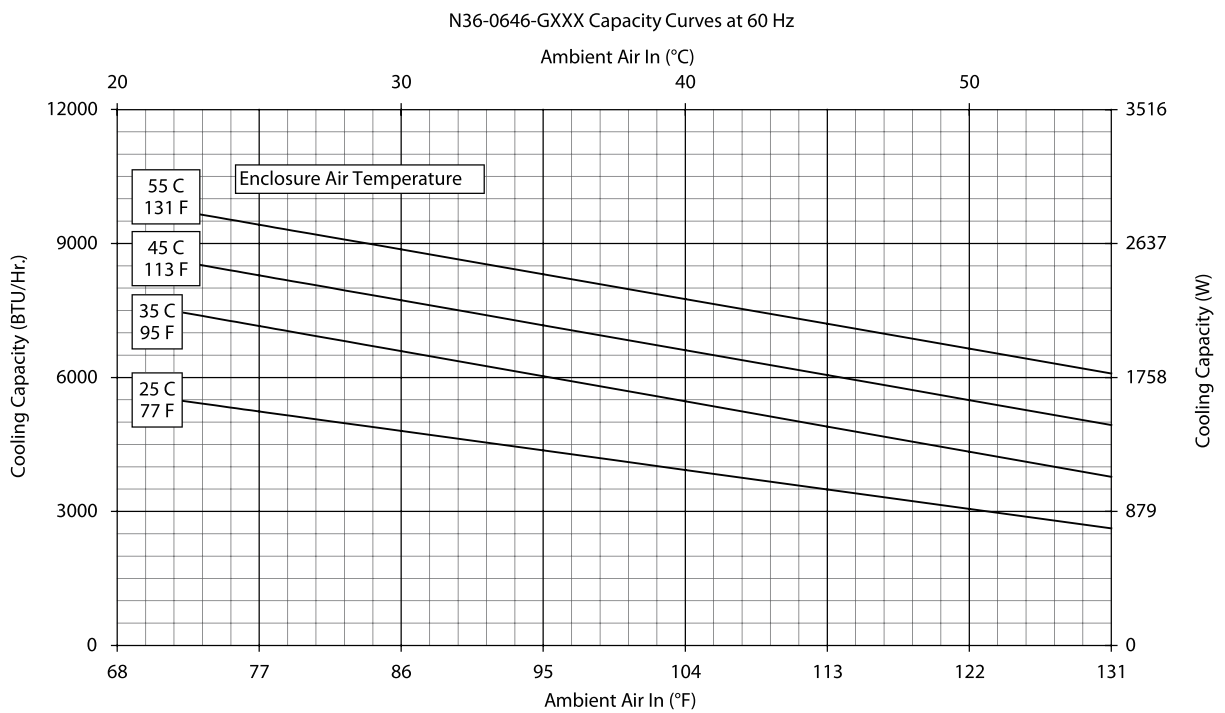
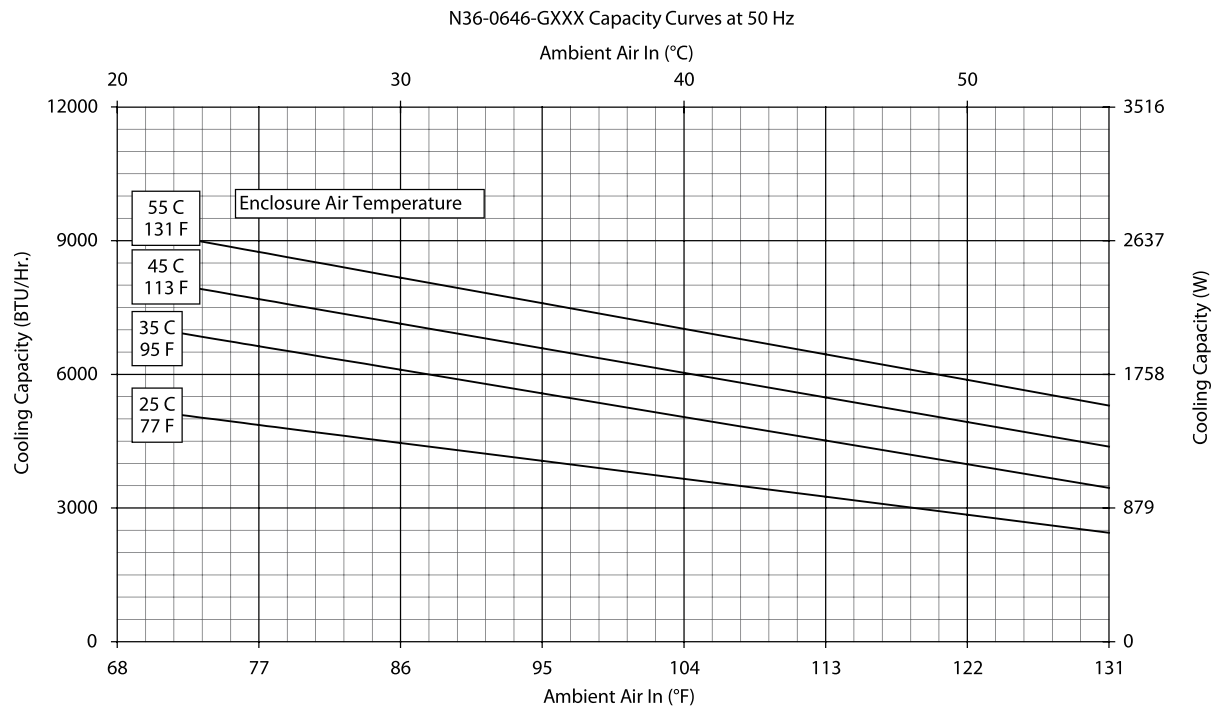
Unit Dimensions

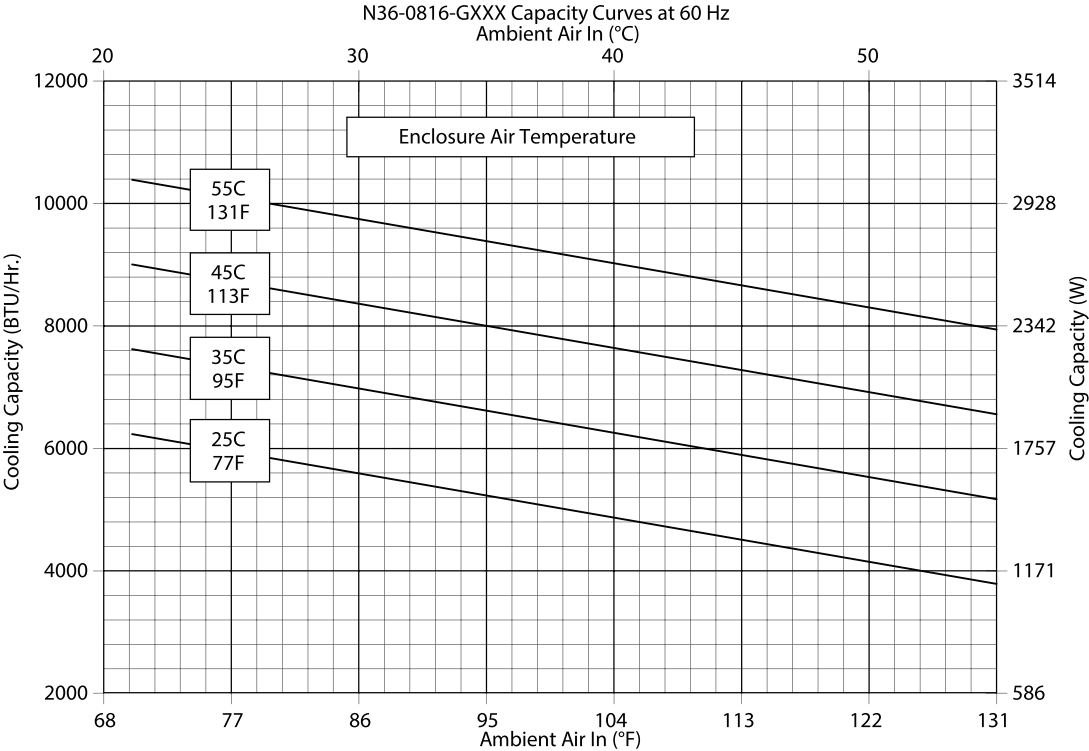
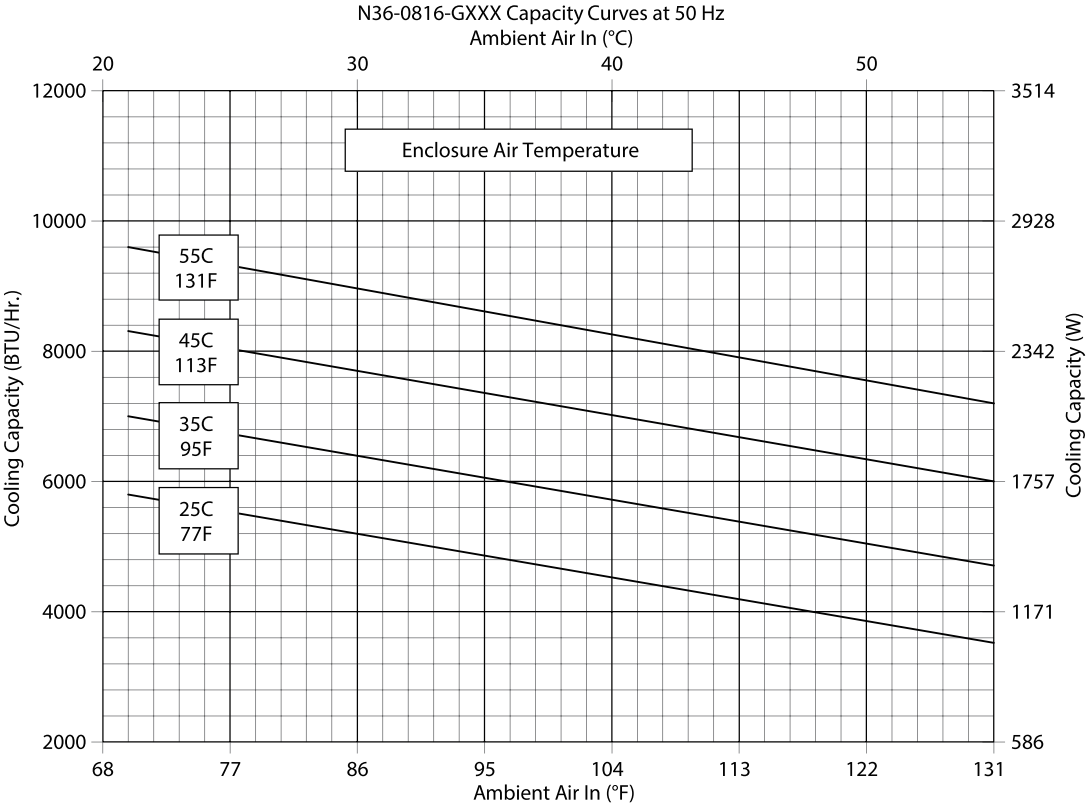
Height (in/mm)	36.00/914.4					
Width (in/mm)	11.50/292.1					
Depth (in/mm)	14.00/355.6					
Weight (lb/kg)	100/45	100/45	104/47	106/48	106/48	114/52

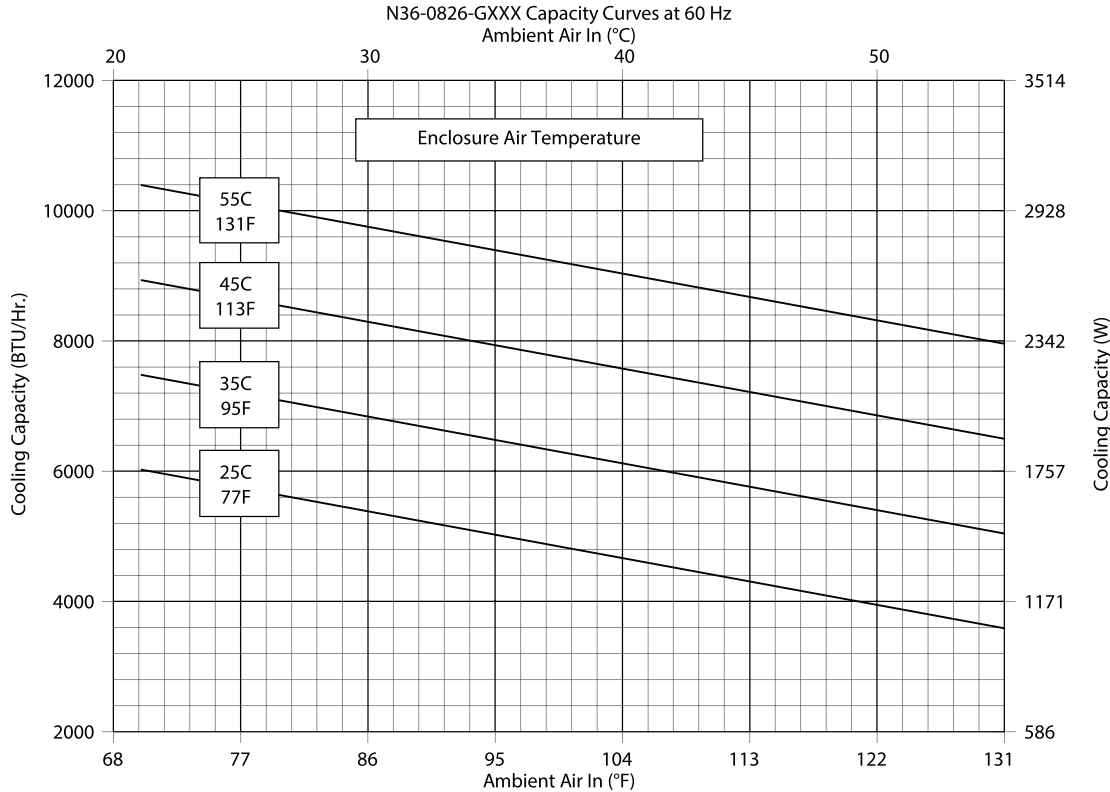
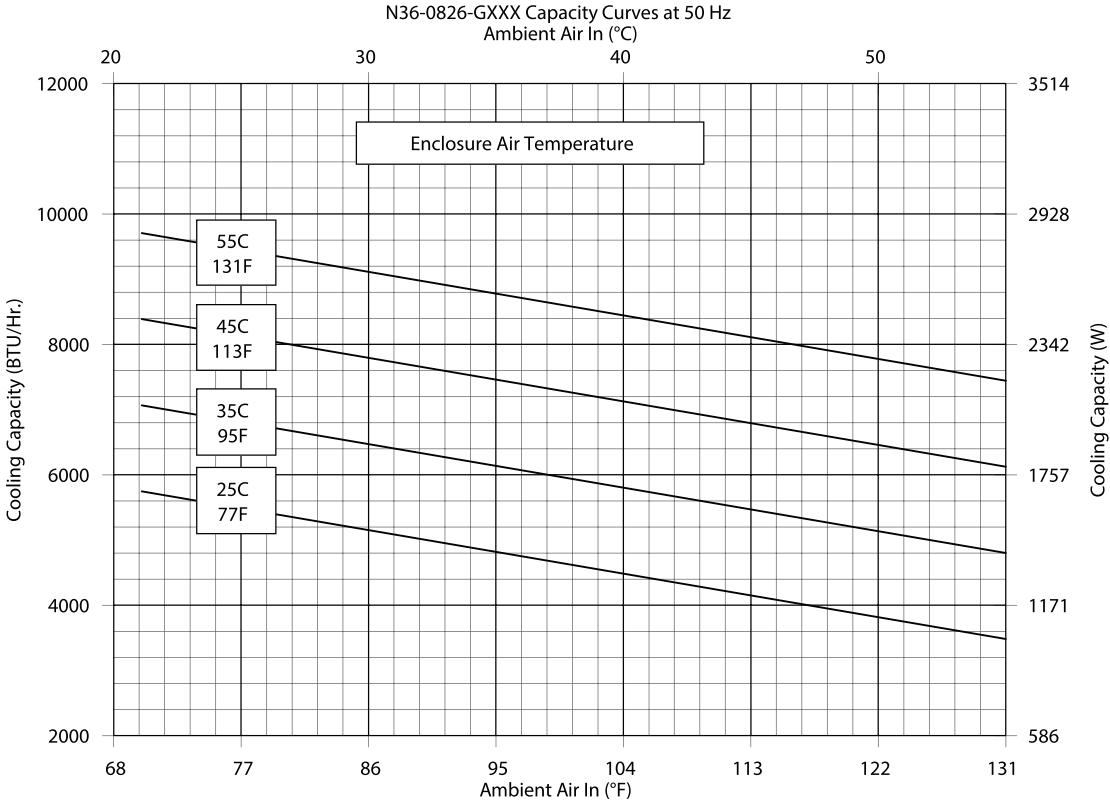
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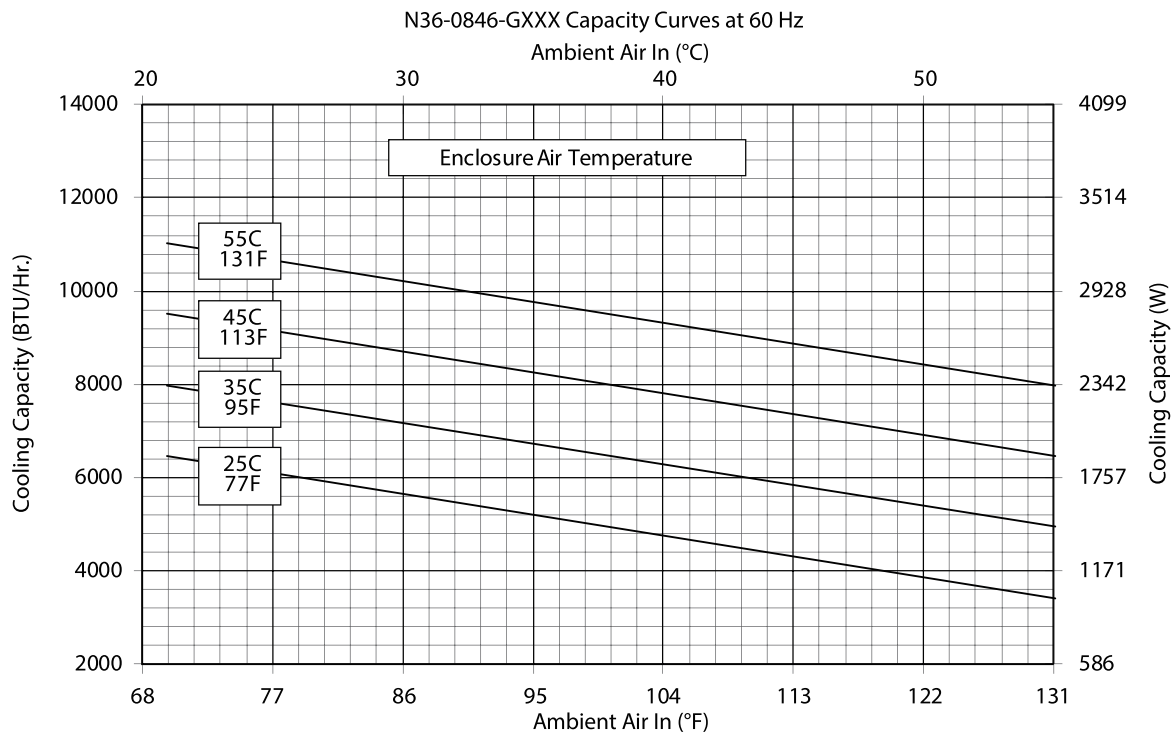
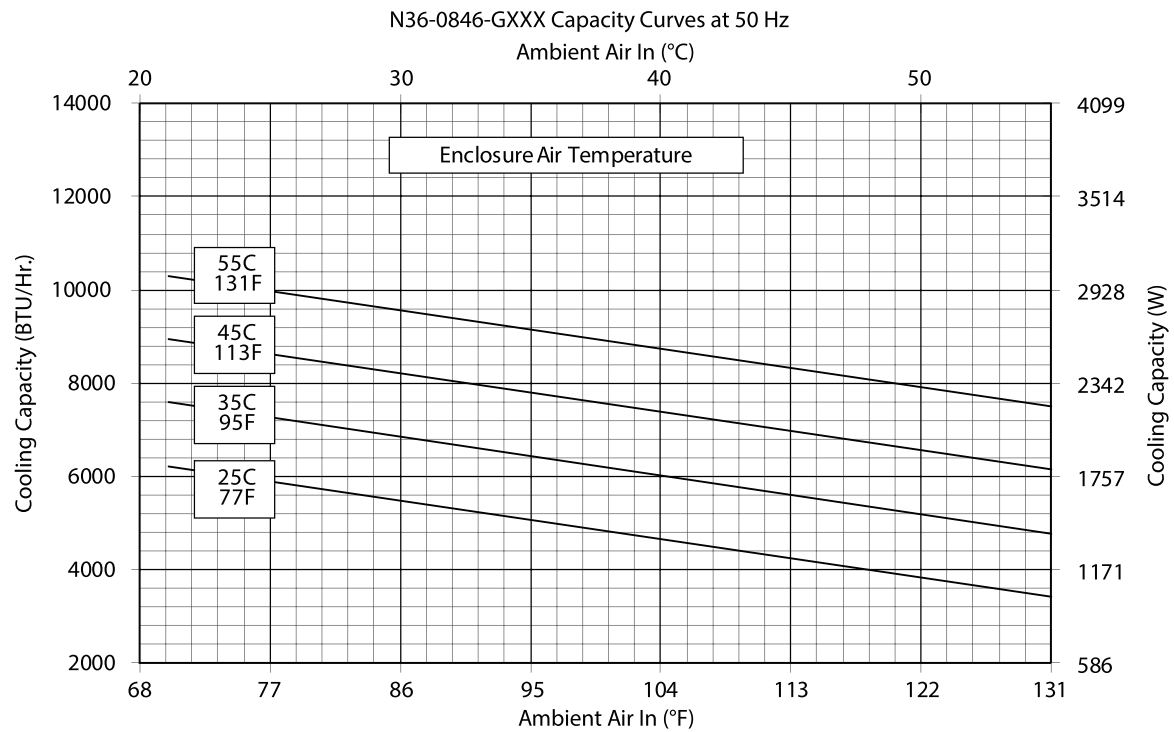


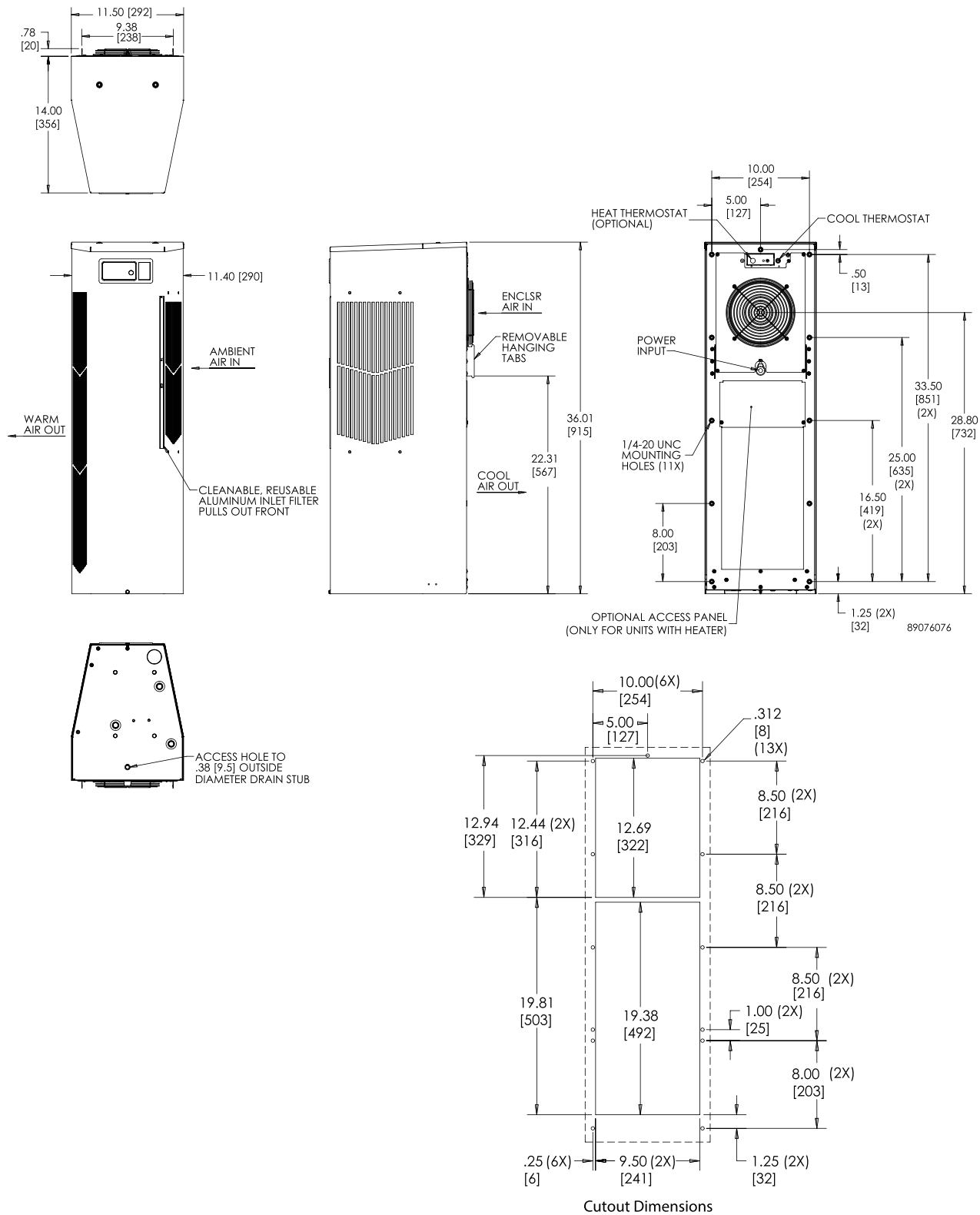












PERFORMANCE DATA N21 2000 BTU/HR (586 WATT) MODELS

Catalog Number

Indoor Model	N431216G050	N431226G050	N431246G050
Indoor Model Stainless Steel Type 4X	N431216G051	N431226G051	N431246G051
Indoor Model with Remote Access Control*	N431216G060	N431226G060	N431246G060
Outdoor Model without Heat Pkg.	N431216G100	N431226G100	N431246G100
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 (50/60Hz)	10400 / 11000	10400 / 11000	10400 / 11000
Watts (50/60Hz)	3047 / 3223	3047 / 3223	3047 / 3223
At Maximum Operating Temperatures:			
BTU/Hr (50/60Hz)	9555/10793	9664/10420	9669/10463
W (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
W (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)	131 / 55	131 / 55	131 / 55
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:			
Internal loop 50Hz (CFM/m³/hr)	239 / 406	259 / 440	254 / 432
External loop 50Hz (CFM/m³/hr)	494 / 839	489 / 831	341 / 579
Internal loop 60Hz (CFM/m³/hr)	250 / 425	267 / 454	260 / 442
External loop 60Hz (CFM/m³/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 50/60Hz)	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	Terminal Block	Terminal Block

Enclosure Protection

UL Type	Type 12, 3R, 4 standard Type 4X Stainless steel optional
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Controller

Description	Basic mechanical thermostat
Thermostat Location	Enclosure side
Factory Thermostat Setting (°F/°C)	80/27

Sound Level

At 1.5 Meters	68.4 dB(A)	68.4 dB(A)	69.6 dB(A)
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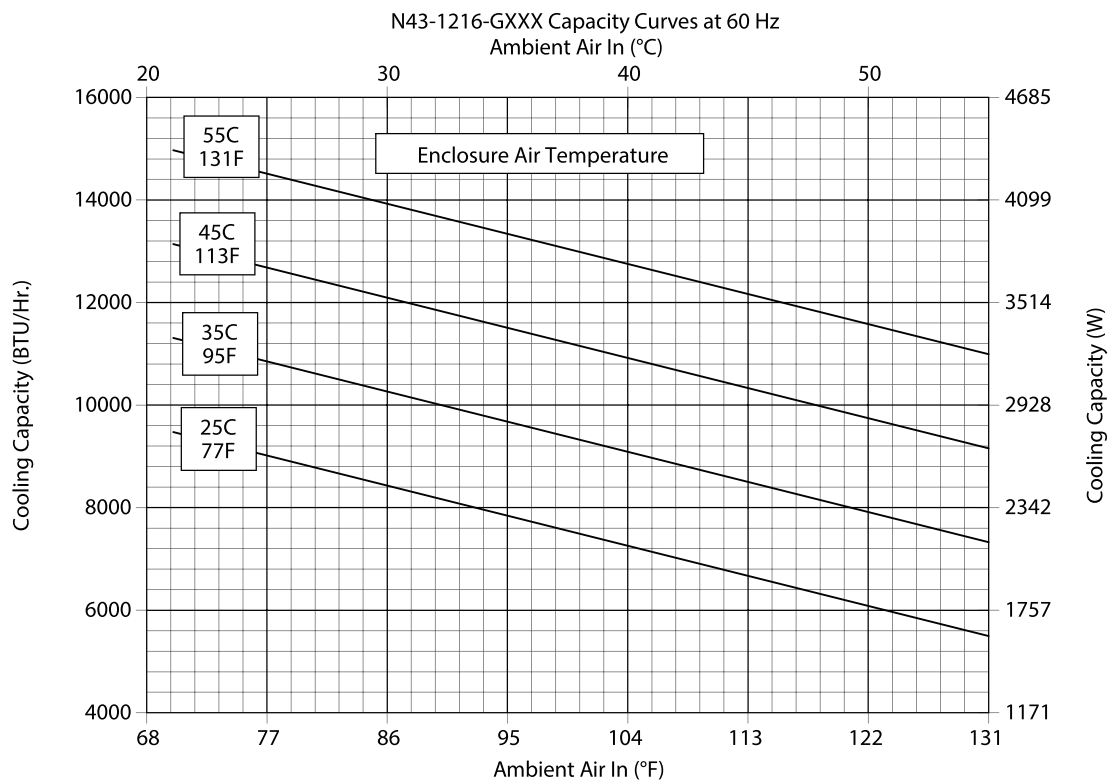
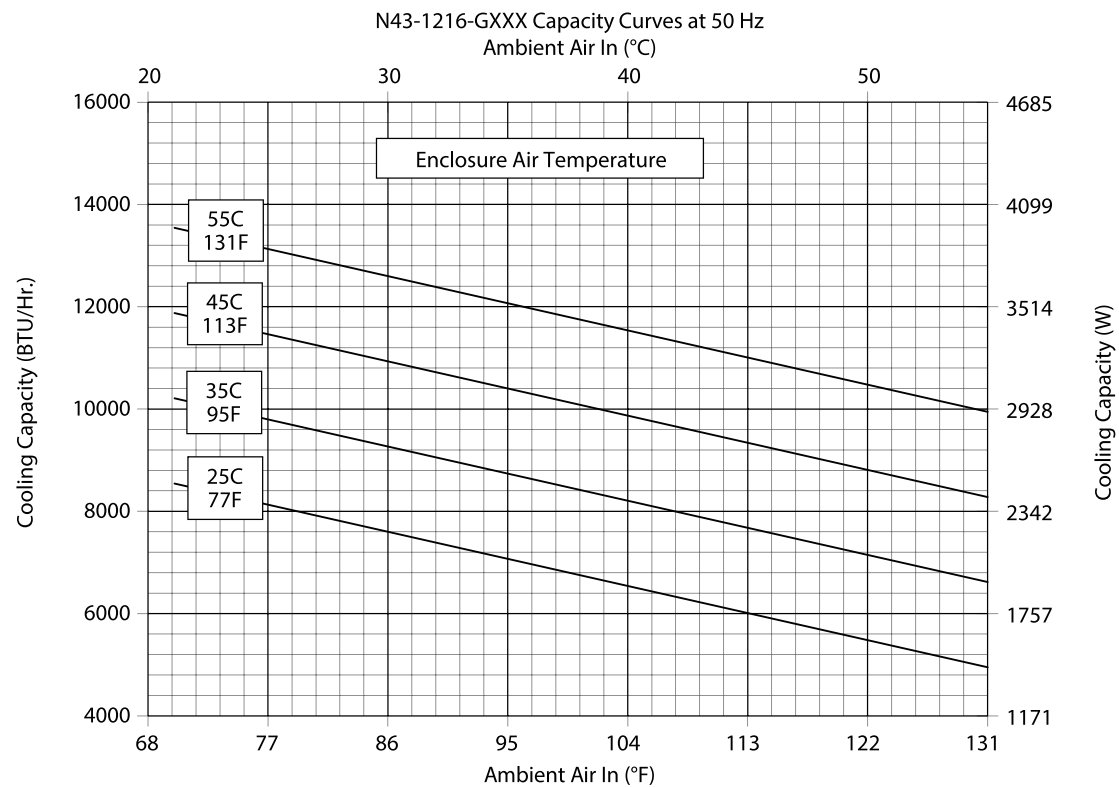
Unit Construction

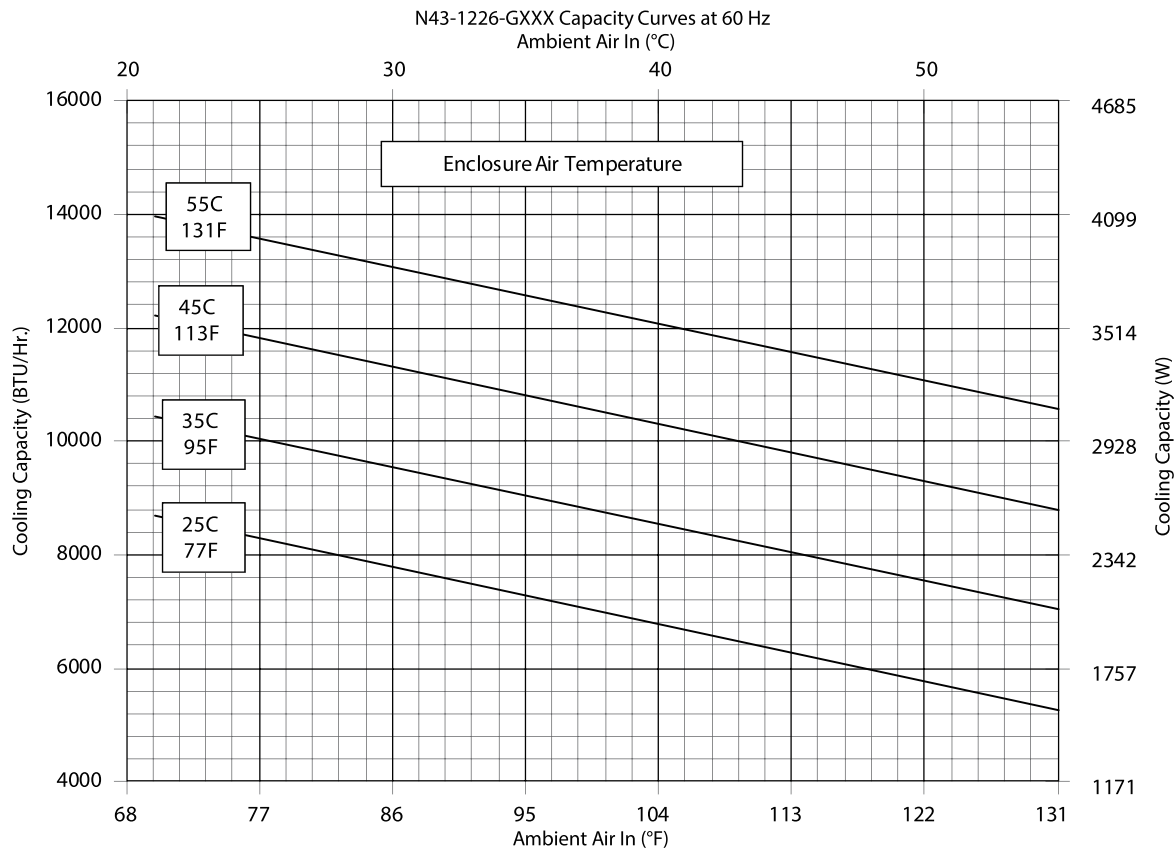
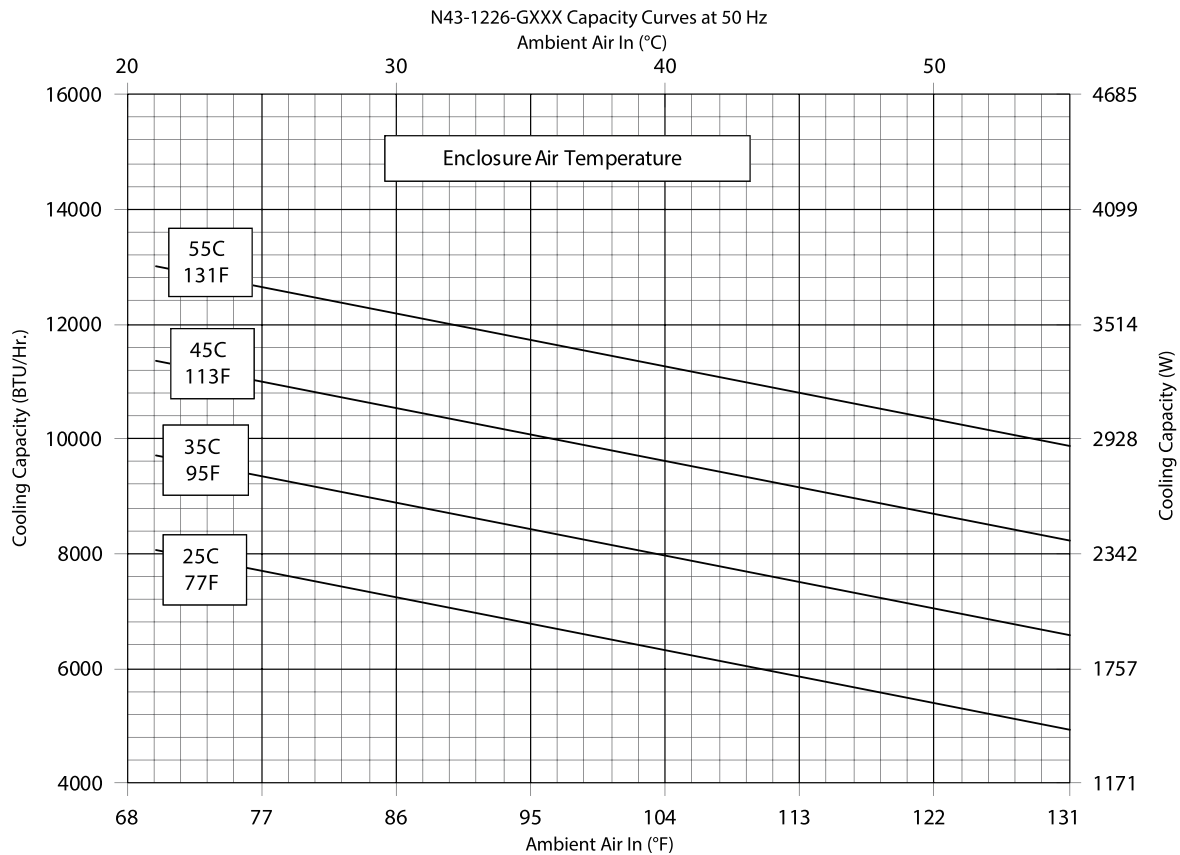
Material	Galvanized sheet metal standard Stainless steel optional
Finish	RAL 7035 light-gray, semi-textured powder-coat paint standard Other colors available

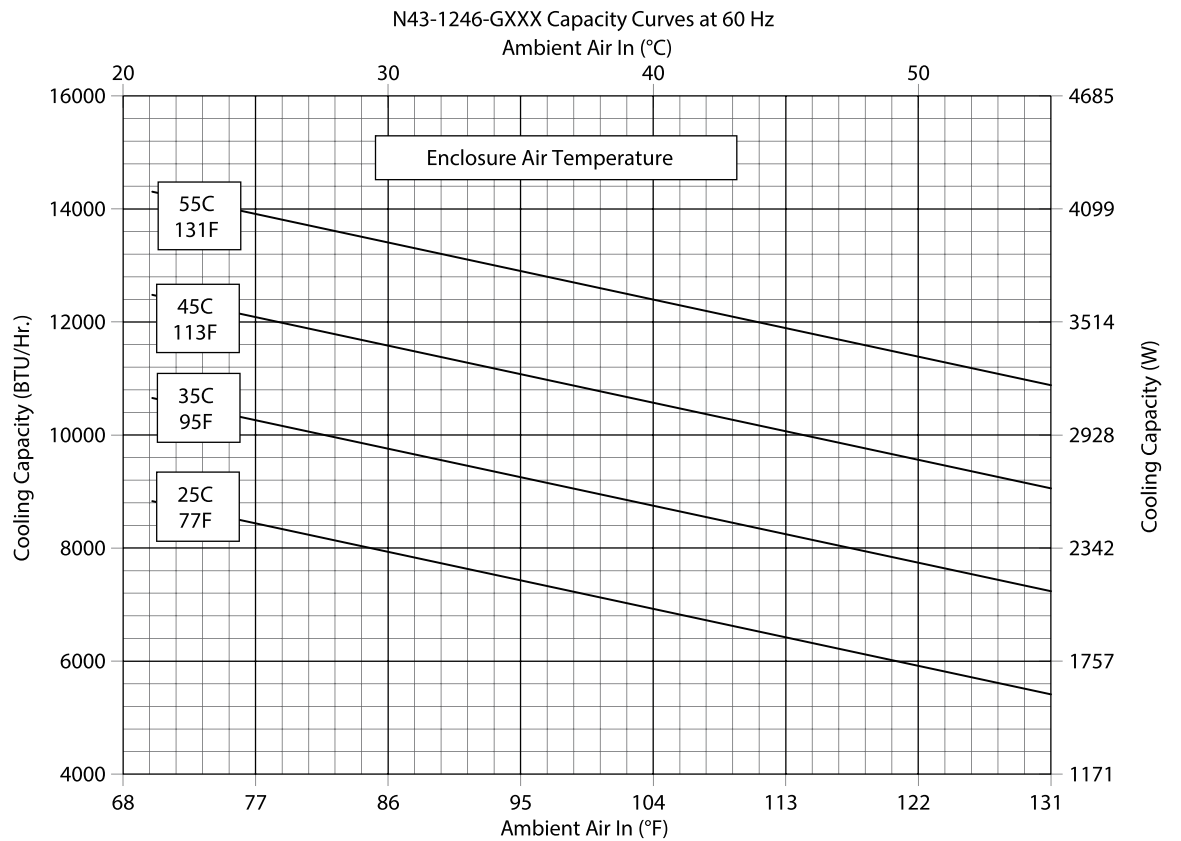
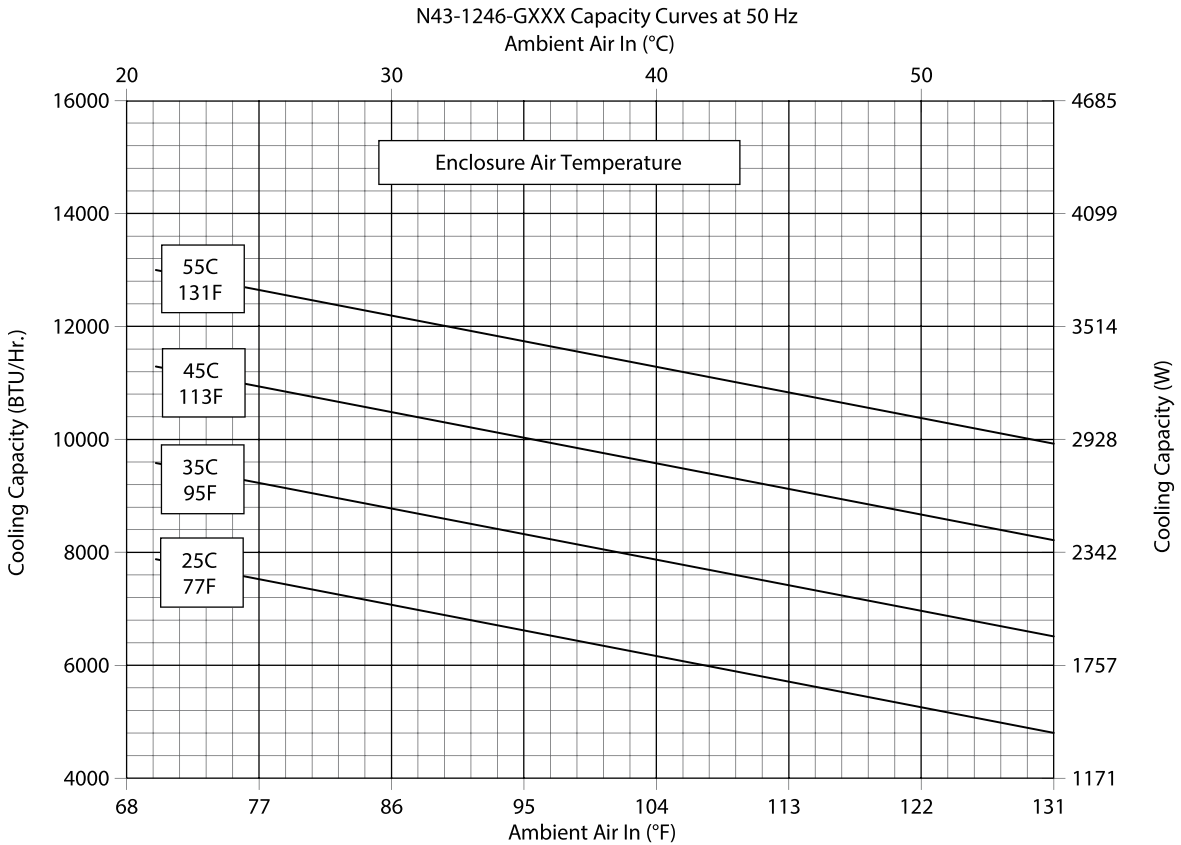
Unit Dimensions

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

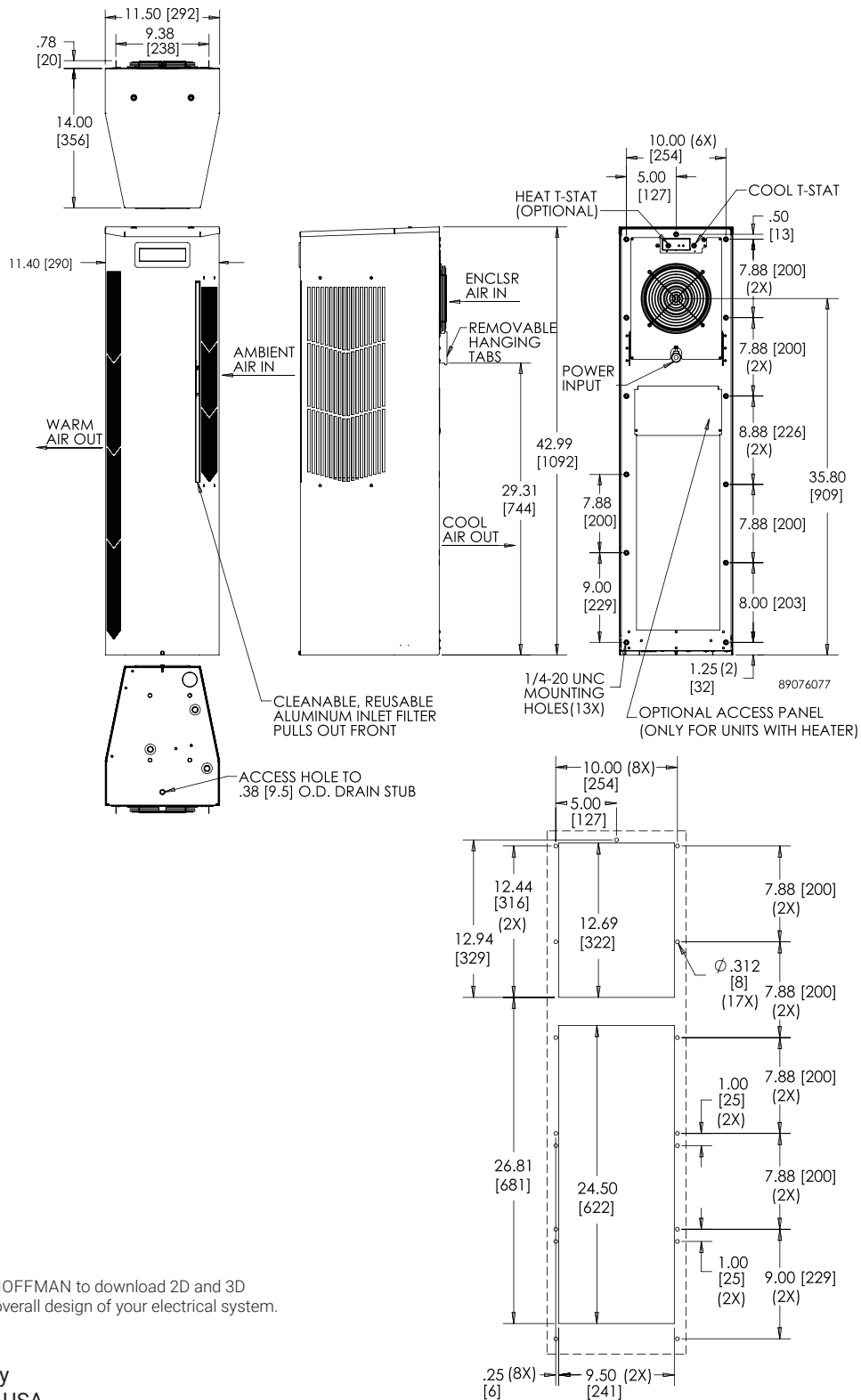
*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.







N43 12000 BTU/HR (3516 WATT)



Visit www.nVent.com/HOFFMAN to download 2D and 3D CAD drawings into the overall design of your electrical system.

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