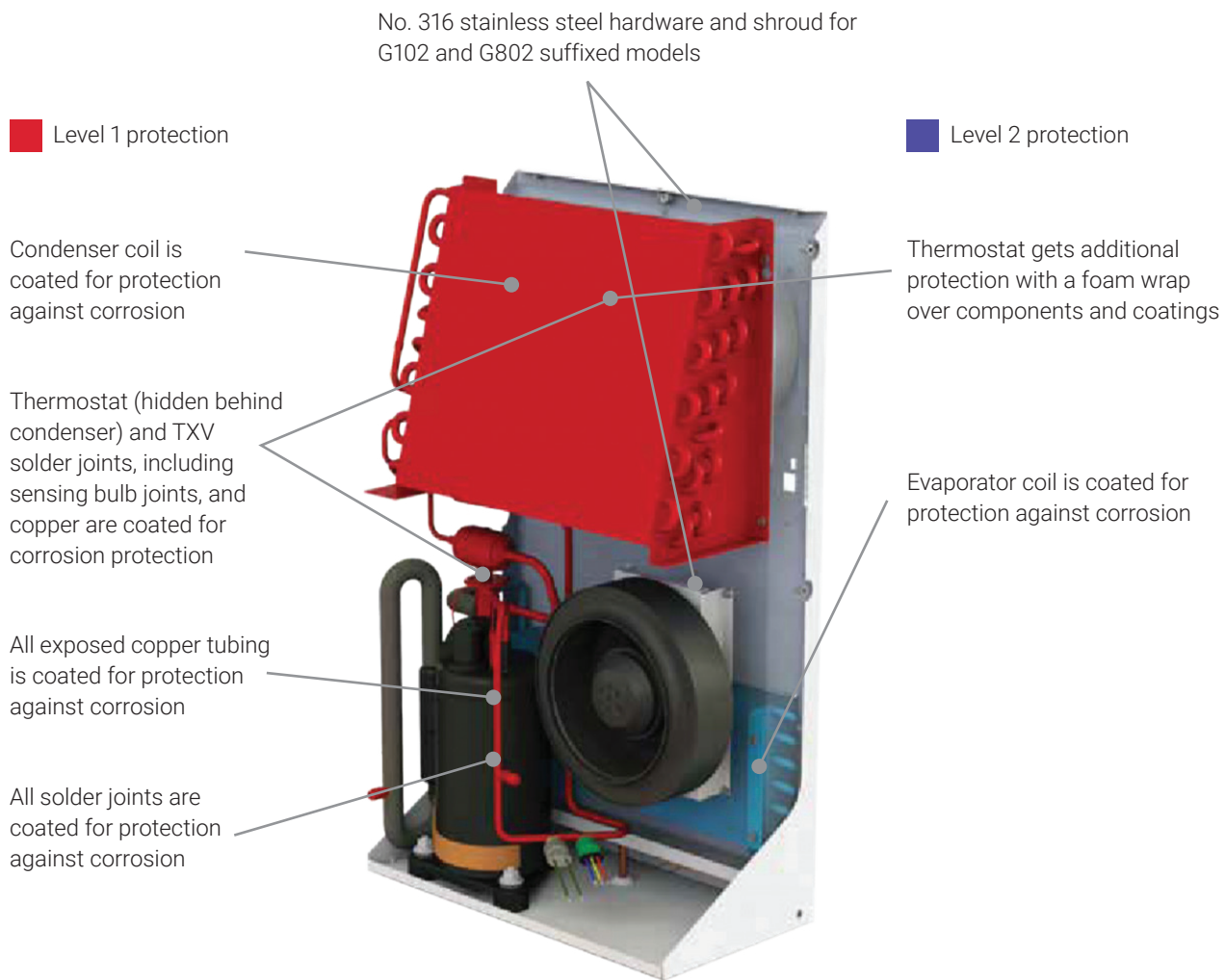


# SpectraCool with Advanced Corrosion Protection Sealed Enclosure Cooling

## SpectraCool with Advanced Corrosion Protection Overview

SpectraCool Corrosion Protection Solutions provide the industry leading corrosion protection to components critical to the performance of the air conditioner. For applications where air conditioners are exposed to harsh, corrosive, chemical elements, nVent HOFFMAN utilizes advanced coatings to protect the critical components, extending their life and optimizing the extended performance level of the product.



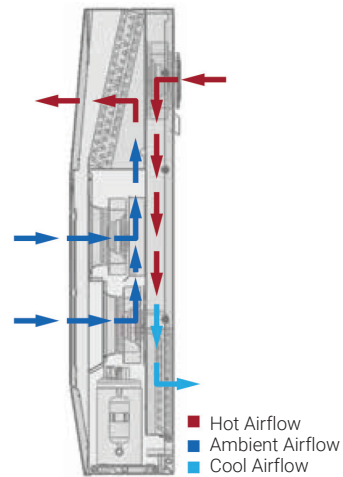
# SpectraCool with Advanced Corrosion Protection



G57  
20000 BTU/Hr  
5861 Watt

G52  
8000/12000 BTU/Hr  
2300/3500 Watt

G28  
4000/6000 BTU/Hr  
1172/1758 Watt



## INDUSTRY STANDARDS

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

CE

EAC

IP 56 Internal Loop

IP 34 on external Loop

Telcordia GR-487 capable (outdoor)

## APPLICATION

- Industrial automation
- Telecommunications equipment
- Waste water treatment systems
- Package handling equipment
- Security and defense systems
- Oil and gas
- Water treatment facilities
- Chemical manufacturing

## FEATURES

- Two levels of corrosion protection:
  - Level 1 - Protective coatings on all exposed copper tubing and solder joints, condenser coil and thermostat.
  - Level 2 - All protective coatings in Level 1 plus a coated evaporator coil. Foam wrap added over protective coatings on thermostat.
- Energy-efficient rotary compressor on most models
- R407C, R134a and R513A earth-friendly refrigerants
- 115, 230 and 400/460 VAC 3-phase power input on most models
- UL Listed to save customers time and money with agency approvals
- Operating temperature range from  $-40^{\circ}\text{F}/-40^{\circ}\text{C}$  to  $131^{\circ}\text{F}/55^{\circ}\text{C}$
- Exterior and partially recessed mounting options
- Attractive industrial design with minimal use of visible fasteners
- Dual condenser-side air movers for performance redundancy on G52 and G57 models
- Galvanized sheet-metal cover for rugged factory and outdoor environments

- Easy-mount flanges for simple installation
- Cut-out adapter options for enclosures with Genesis and T-Series 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 models include:
  - Active condensate management with heater strip
  - Power-off relay for door switch and other system requirements
  - Telcordia GR-487 capable
  - Corrosion-resistant components
  - Malfunction switch
  - Compressor heater
  - Head pressure control

## SPECIFICATIONS

- Nominal cooling capacity:
  - G28 4000 & 6000 BTU/Hr (1172 and 1758 W)
  - G52 8000 & 12000 BTU/Hr (2344 and 3516 W)
  - G57 20000 BTU/Hr (5861 W)
- Operating temperature range from  $-40^{\circ}\text{F}/-40^{\circ}\text{C}$  to  $131^{\circ}\text{F}/55^{\circ}\text{C}$

## FINISH

- RAL 7035 light-gray, semi-textured powder-coat paint
- No. 4 brushed 316 stainless steel
- Other colors and textures available

## NOTES

Visit [nVent.com/en-us/HOFFMAN/remote-access-control](http://nVent.com/en-us/HOFFMAN/remote-access-control) for more information regarding SpectraCool Remote Access control (RAC).

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

**PERFORMANCE DATA G28 MODELS 4000/6000 BTU/HR (1172/1758 WATT)**

**Catalog Number**

Level 1 Painted Galvanized - G700	G280416G700	G280426G700	G280446G700	G280616G700	-	G280646G700
Level 1 Stainless Steel 316 - G102	G280416G102	G280426G102	G280446G102	G280616G102	G280626G102	G280646G102
Level 2 Painted Galvanized - G800	G280416G800	G280426G800	G280446G800	G280616G800	G280626G800	-
Level 2 Painted with Remote Access Control - G360*	G280416G360	G280426G360	G280446G360	G280616G360	G280626G360	G280646G360
Level 2 Stainless Steel 316 - G802	G280416G802	G280426G802	G280446G802	G280616G802	G280626G802	G280646G802

**Cooling Performance**

Nominal:**						
BTU/Hr (50/60 Hz)	4000	4000	4000	6000	6000	6000
Watts (50/60 Hz)	1172	1172	1172	1757	1757	1757
At 131°F/131°F (55°C/55°C):						
BTU/Hr (50/60 Hz)	NA/3700	4600/4900	4600/4900	6000/6400	6000/6400	5400/6000
W (50/60 Hz)	NA/1084	1347/1435	1347/1435	1757/1874	1757/1874	1581/1757
At 95°F/95°F (35°C/35°C):						
BTU/Hr (50/60 Hz)	3300/3410	4300/4600	4324/4655	5600/6000	5600/6000	5054/5685
W (50/60 Hz)	967/1000	1260/1364	1267/1364	1641/1758	1641/1758	1481/1666
Refrigerant	R134a or R513A	R407C	R134a or R513A	R407C	R407C	R134a or R513A
Refrigerant Charge (ounces/grams)	12/340	20/567	16/454	20/567	20/567	16/454
Operating Temperature Range:						
Maximum (°F/°C)	131°F/55°C	131°F/55°C	131°F/55°C	131°F/55°C	131°F/55°C	131°F/55°C
Minimum (°F/°C)	-40°F/-40°C	-40°F/-40°C	-40°F/-40°C	-40°F/-40°C	-40°F/-40°C	-40°F/-40°C
Air Flow at 0 Static Pressure:						
Internal loop 50 Hz (CFM/m³/hr)	151/256	189/321	189/321	189/321	189/321	189/321
External loop 50 Hz (CFM/m³/hr)	284/482	291/494	291/494	291/494	291/494	291/494
Internal loop 60 Hz (CFM/m³/hr)	183/310	221/375	221/375	221/375	221/375	221/375
External loop 60 Hz (CFM/m³/hr)	290/492	300/509	300/509	300/509	300/509	300/509

**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)	465/1055	1058/1334	985/1199	1138.5/1311	1058/1334	985/1199
Max. Nominal Current (Amps at 50/60 Hz)	10.6/10.3	4.7/5.9	1.7/1.9	10.1/11.6	4.7/5.9	1.7/1.9
Starting Current (Amps)	36.2	17.7	7.7	36.2	17.7	7.7
Agency Approvals	UL/cUL Listed, CE, EAC					
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 on All Base Models
Factory Thermostat Setting (°F/°C)	80/27

**Sound Level**

At 1.5 Meters	68 dB(A)
---------------	----------

**Accessories**

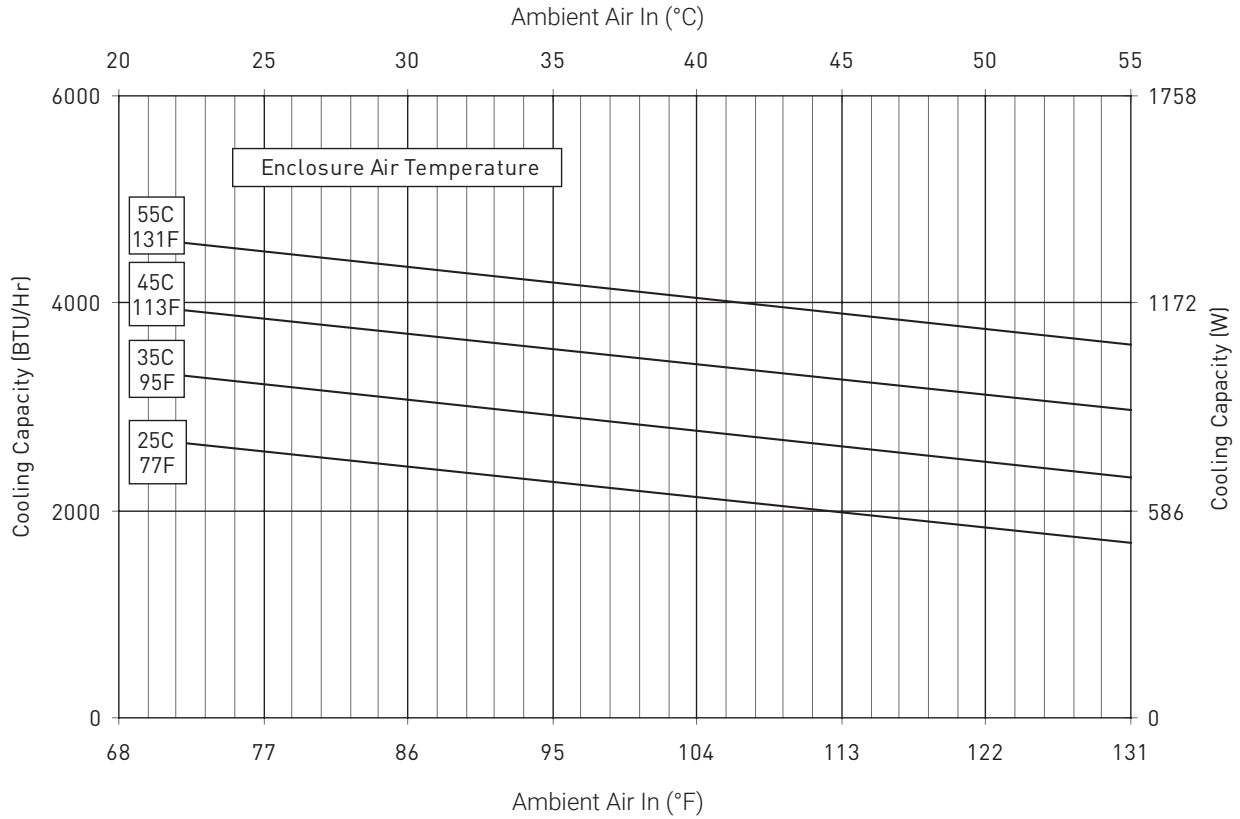
EASYSWAP Adaptor Plenum (GENESIS M28)	Enables SpectraCool to be mounted to GENESIS M28 air conditioner cutout Catalog Number PLM28G28
EASYSWAP Adaptor Plenum (T-Series T29)	Enables SpectraCool to be mounted to T-Series T29 air conditioner cutout Catalog Number PLT29G28

**Unit Dimensions**

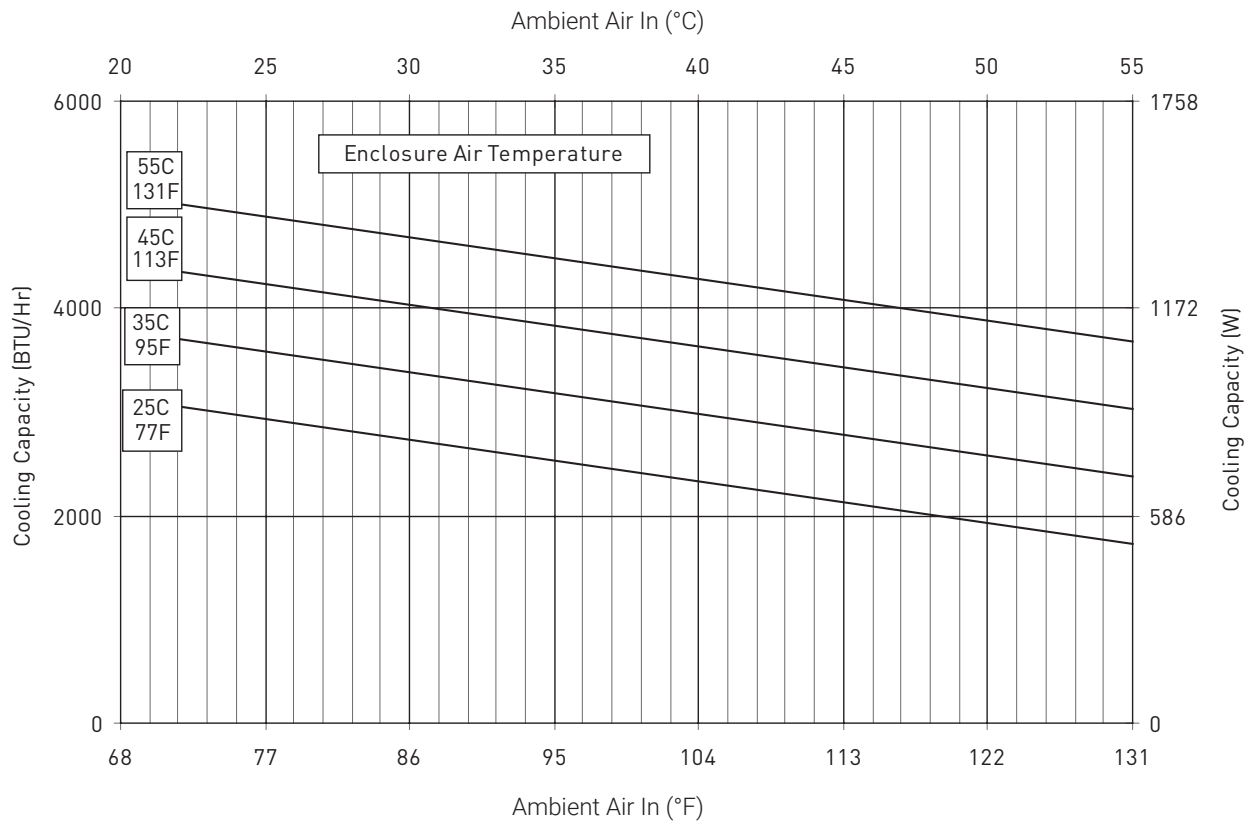
Height (in/mm)	28.59/726.2	28.59/726.2	28.59/726.2	28.59/726.2	28.59/726.2	28.59/726.2
Width (in/mm)	17.01/432.1	17.01/432.1	17.01/432.1	17.01/432.1	17.01/432.1	17.01/432.1
Depth (in/mm)	11.18/284.0	10.18/258.6	10.18/258.6	10.18/258.6	10.18/258.6	10.18/258.6
Weight (lb/kg)	84/38	84/38	84/38	84/38	84/38	84/38

\*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 values are nominal. For actual values, see performance curves.

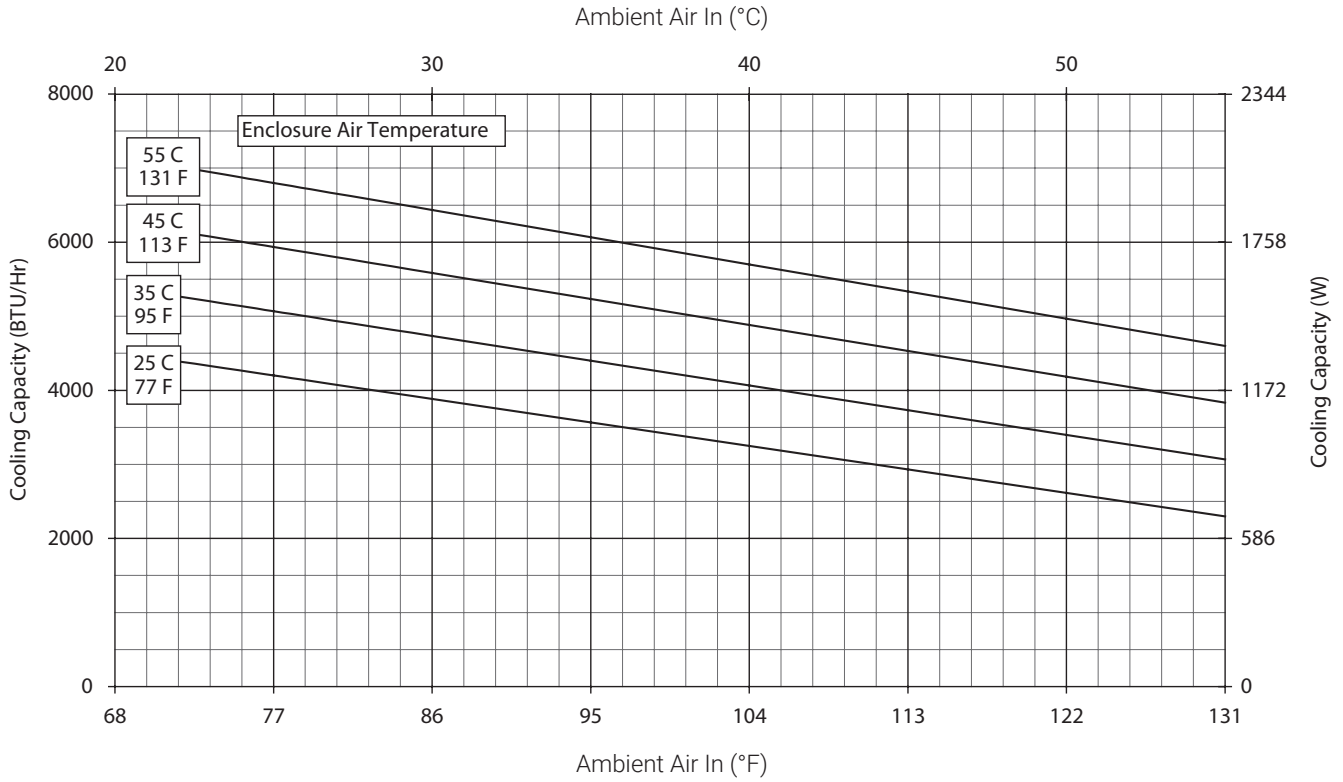
**G28-0416-GXXX Capacity Curves at 50 Hz**



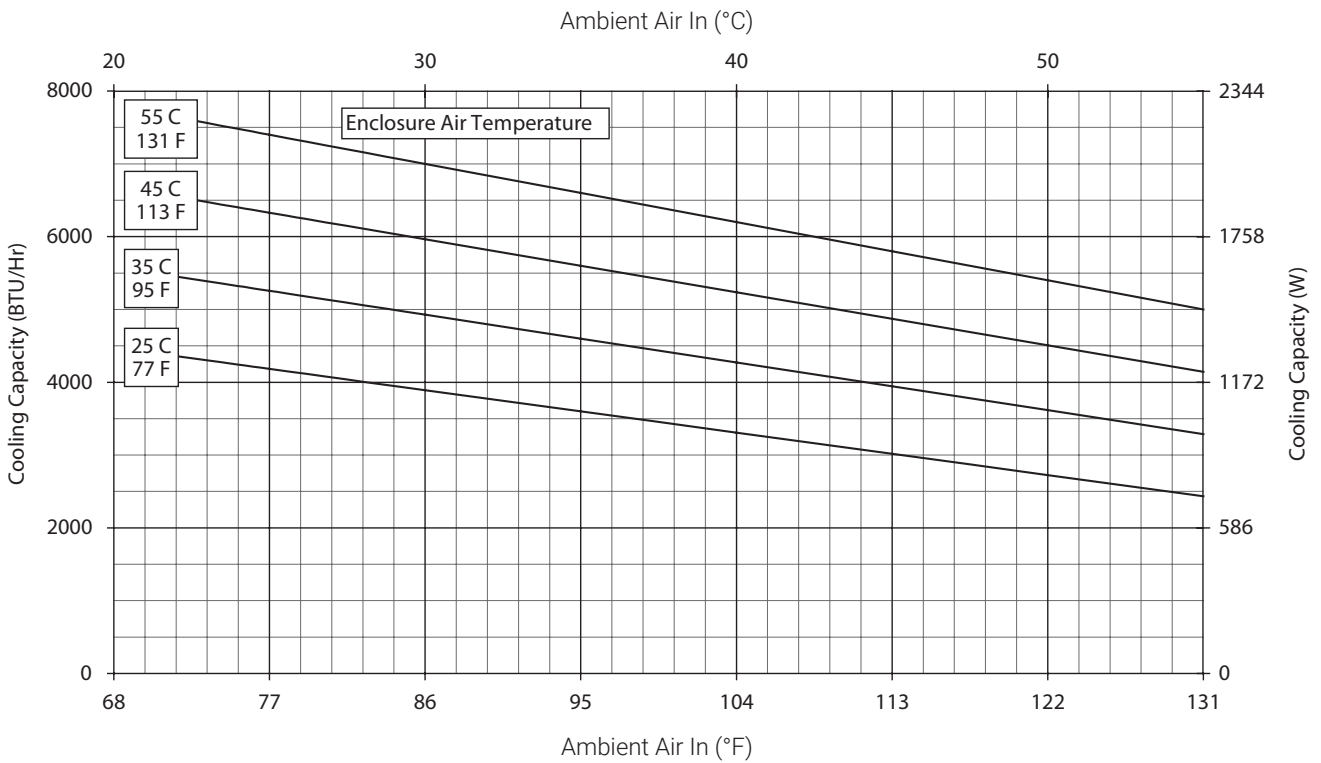
**G28-0416-GXXX Capacity Curves at 60 Hz**



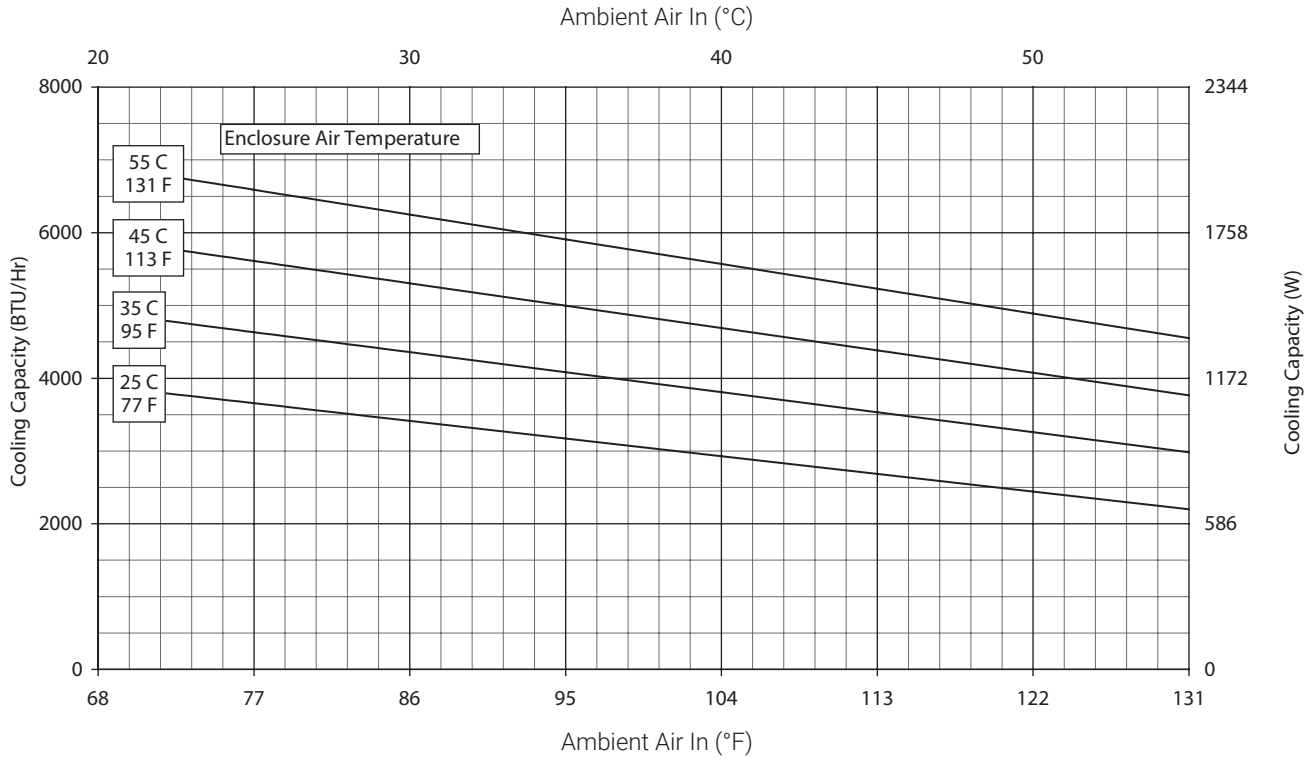
G28-0426-GXXX Capacity Curves at 50 Hz Without Air Filter



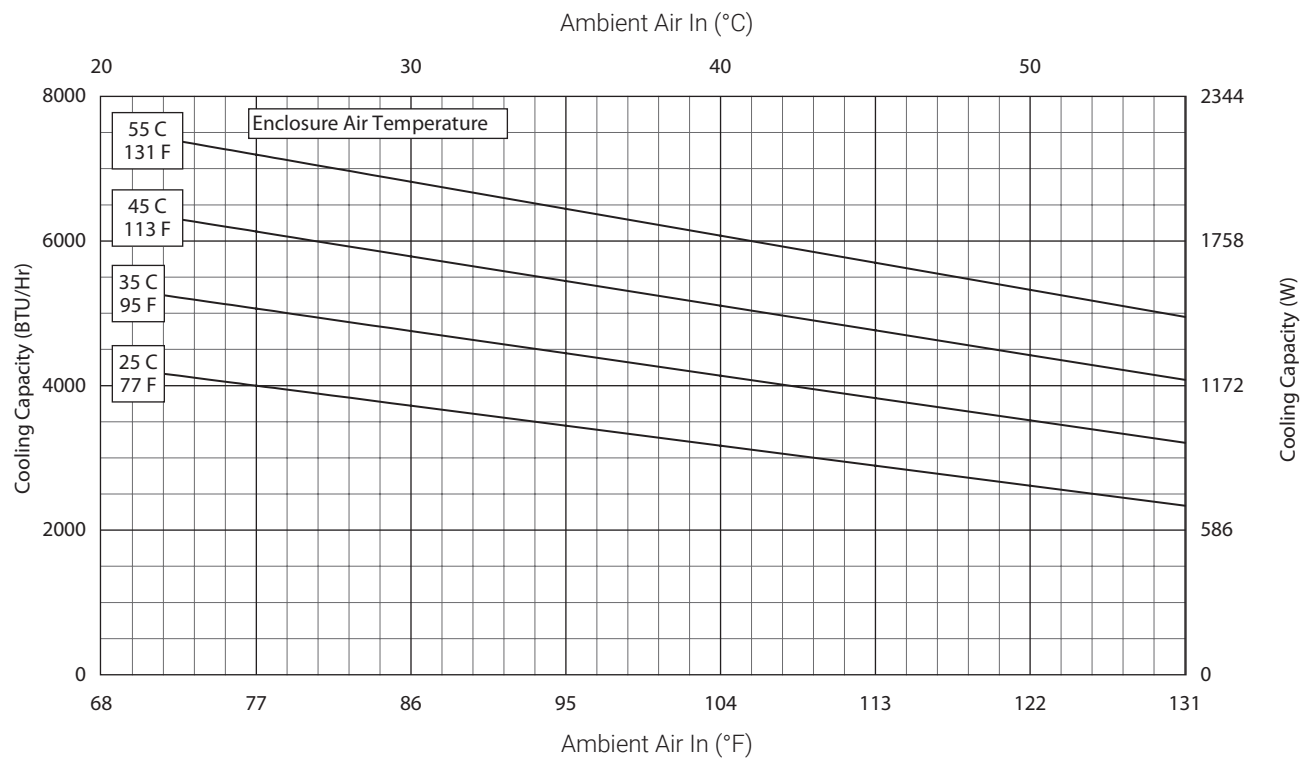
G28-0426-GXXX Capacity Curves at 60 Hz Without Air Filter



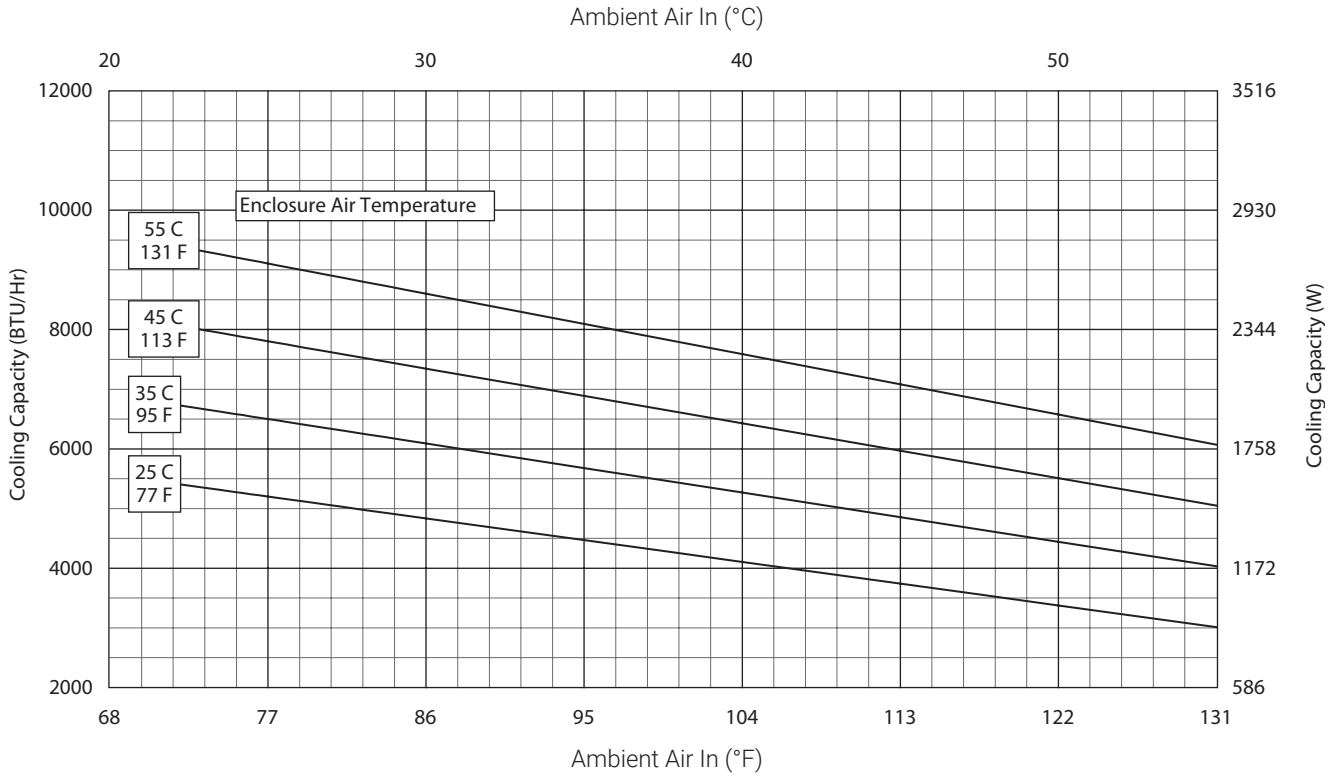
G28-0446-GXXX Capacity Curves at 50 Hz Without Filter



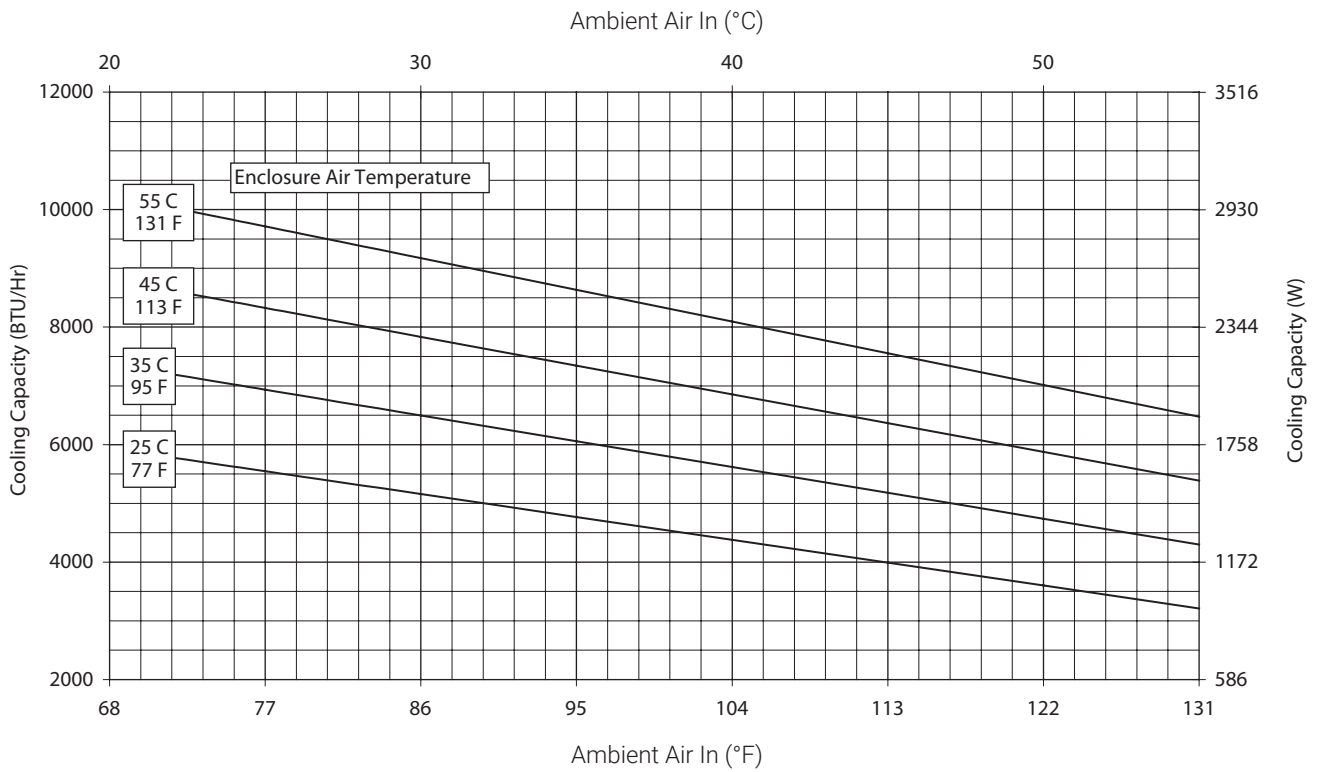
G28-0446-GXXX Capacity Curves at 60 Hz Without Filter



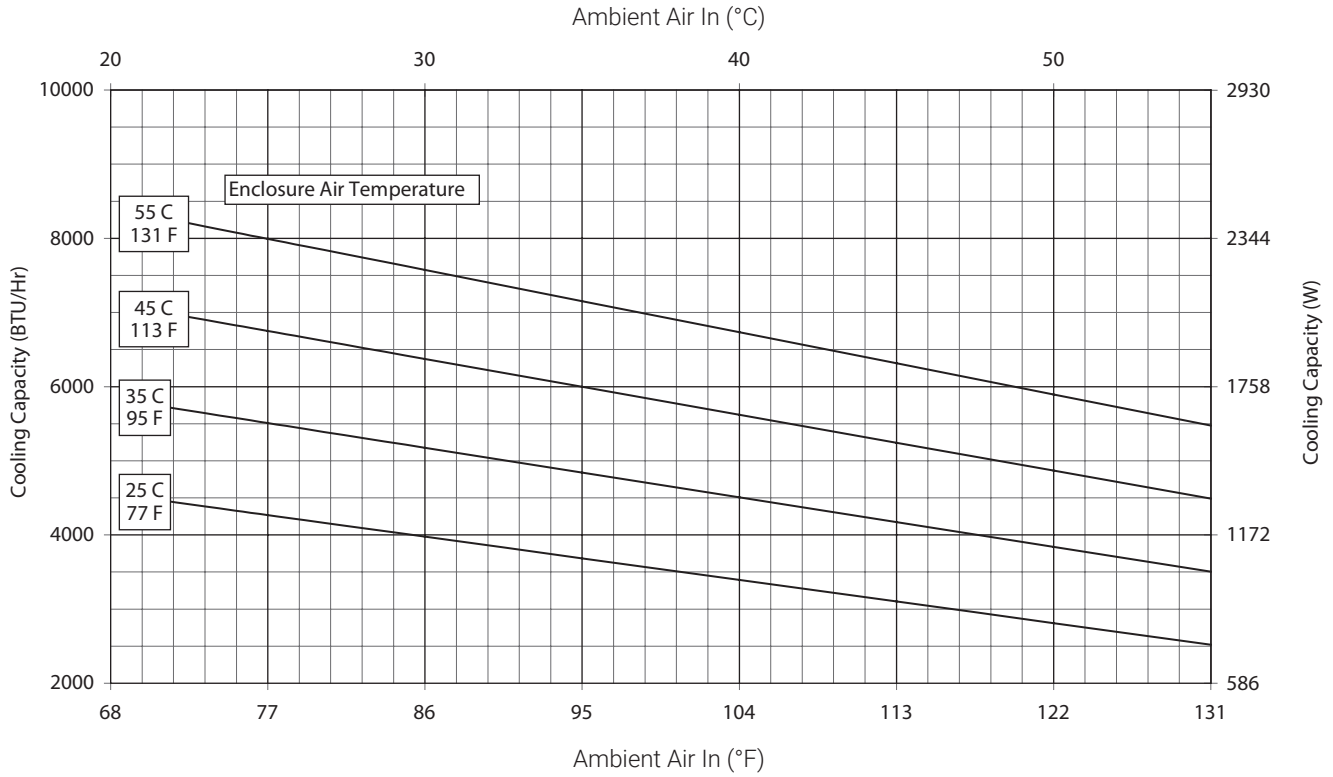
G28-06(1/2)6-GXXX Capacity Curves at 50 Hz Without Filter



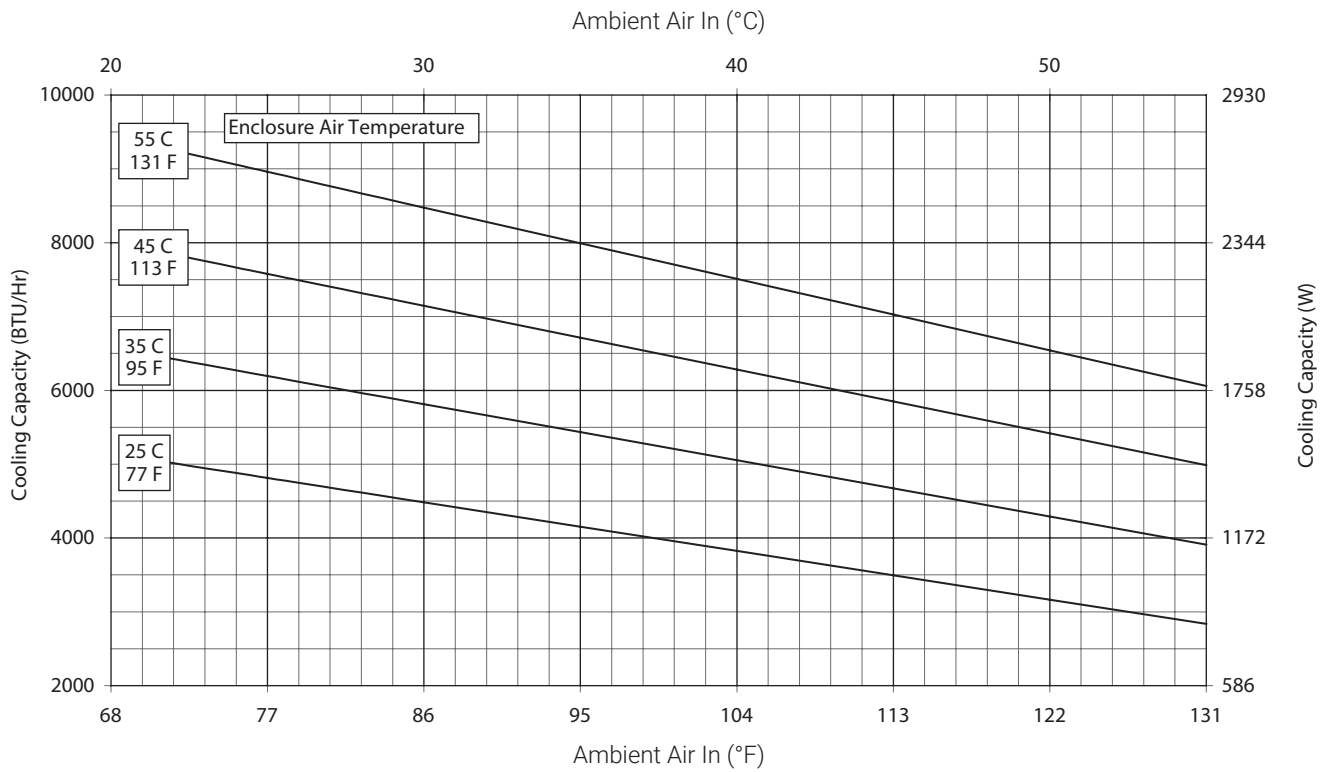
G28-06(1/2)6-G002-P#2 Capacity Curves at 60 Hz Without Filter



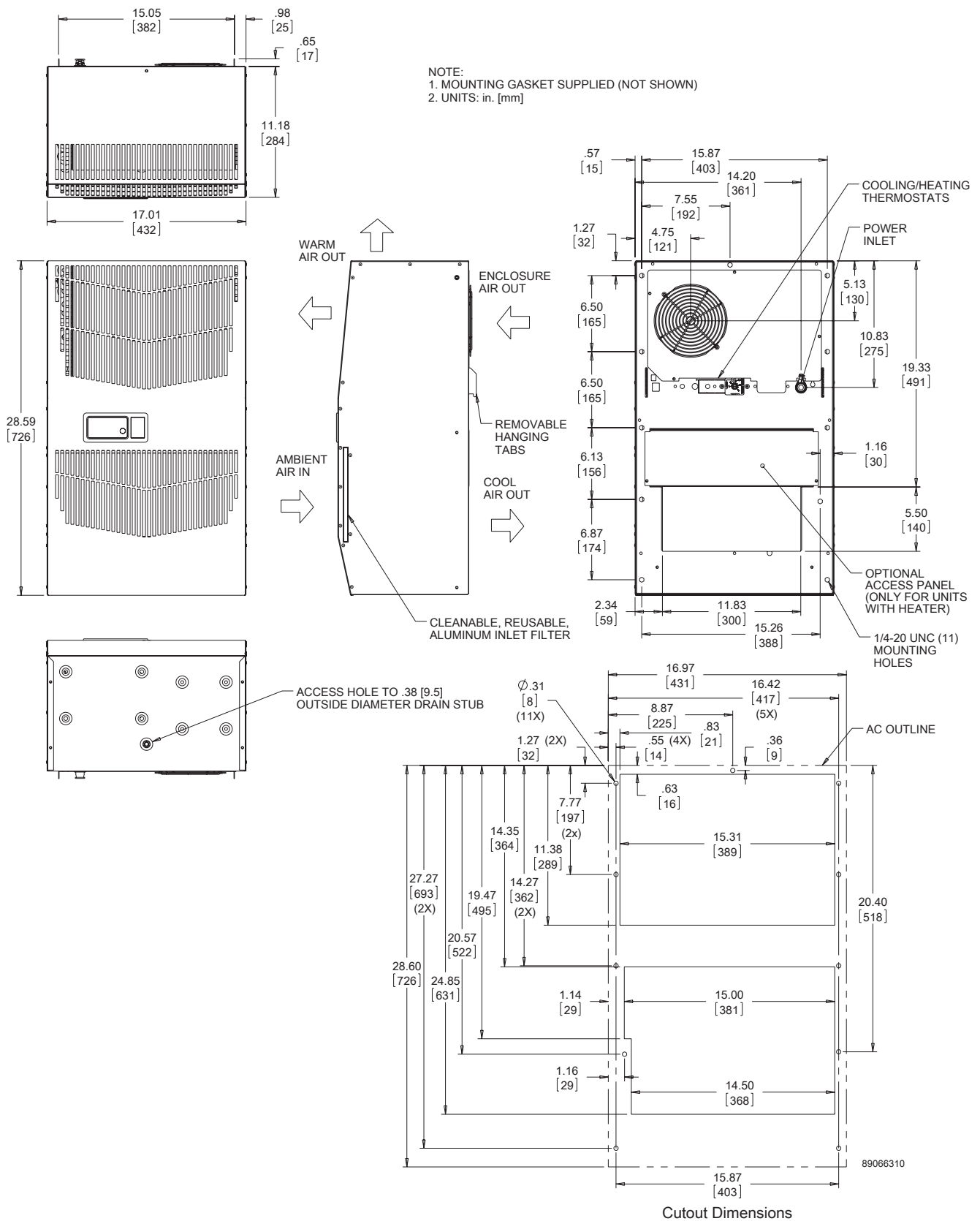
G28-0646-GXXX Performance Curve 400 VAC/50 Hz Without Air Filter



G28-0646-GXXX Performance Curve 460 VAC/60 Hz Without Air Filter



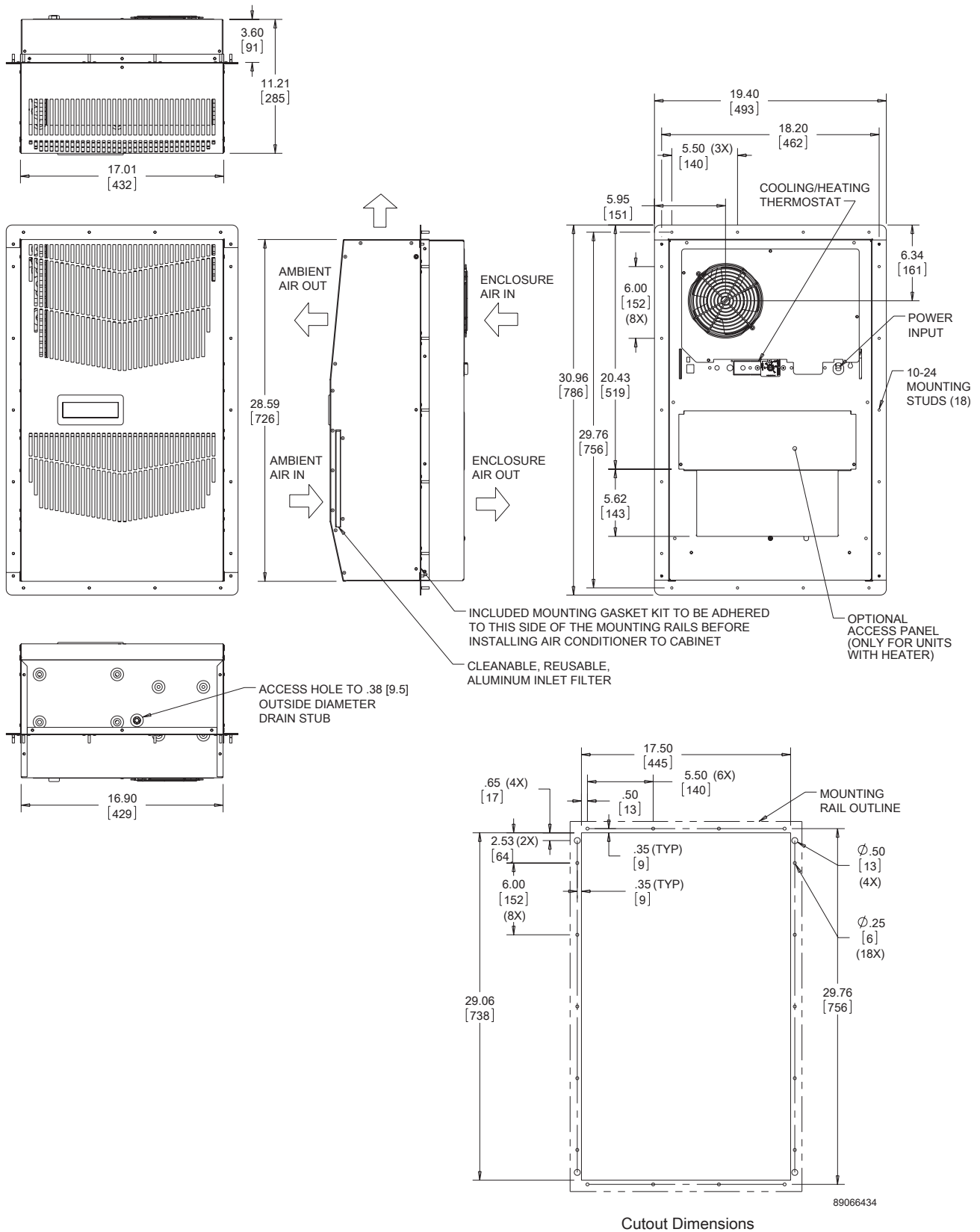
**G28 4000 BTU/HR 115 V (1172 WATT)**



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



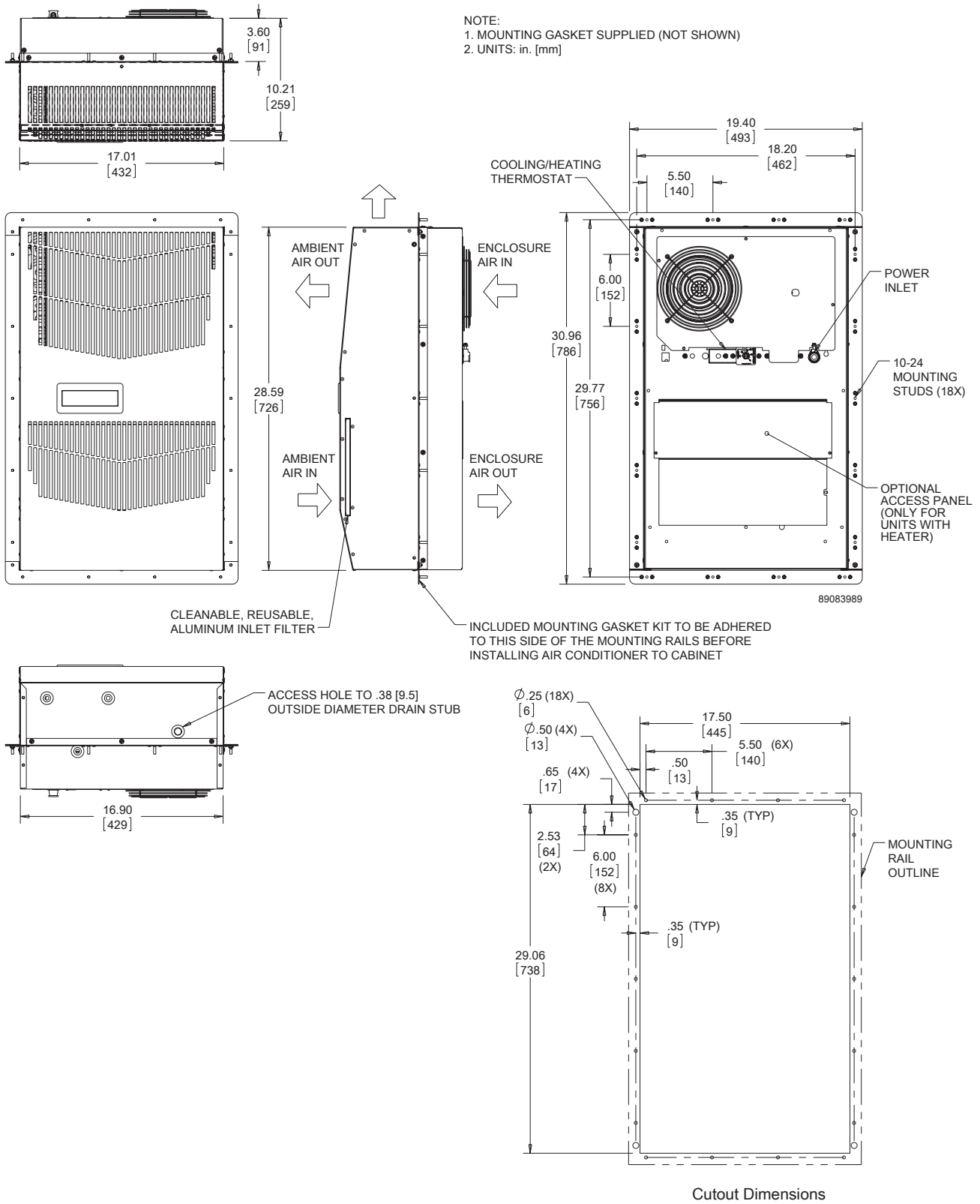
**G28 4000 BTU/HR 115 V (1172 WATT) PARTIAL RECESS**



Cutout Dimensions

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

**G28 4000 BTU/HR 230/460 V, 6000 BTU/HR 115/230/460 V (1172/1758 WATT) PARTIAL RECESS**



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

## PERFORMANCE DATA G52 MODELS 8000/12000 BTU/HR (2300/3500 WATT)

### Catalog Number

Level 1 Painted Galvanized - G700	G520816G700	G520826G700	G520846G700	G521216G700	G521226G700	G521246G700
Level 1 Stainless Steel 316 - G102	G520816G102	G520826G102	G520846G102	G521216G102	G521226G102	G521246G102
Level 2 Painted Galvanized - G800	G520816G800	G520826G800	G520846G800	G521216G800	G521226G800	G521246G800
Level 2 Painted with Remote Access Control - G360*	G520816G360	G520826G360	G520846G360	G521216G360	G521226G360	G521246G360
Level 2 Stainless Steel 316 - G802	G520816G802	G520826G802	G520846G802	G521216G802	G521226G802	G521246G802

### Cooling Performance

Nominal:**						
BTU/Hr (50/60 Hz)	8000	8000	8000	12000	12000	12000
Watts (50/60 Hz)	2344	2344	2344	3516	3516	3516
At 131°F/131°F (55°C/55°C):						
BTU/Hr (50/60 Hz)	7611/8363	7300/8200	7636/8314	12000/12500	10914/11679	10448/11853
Watts (50/60 Hz)	2231/2451	2139/2403	2239/2438	3516/3662	3201/3425	3064/3397
At 95°F/95°F (35°C/35°C):						
BTU/Hr (50/60 Hz)	6134/6793	6000/6800	6716/7112	9900/10700	9219/9913	8660/9757
Watts (50/60 Hz)	1798/1991	1758/1992	1970/2086	2900/3135	2704/2907	2540/2861
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	24/680	23/652	36/1021	36/1021	38/1077
Operating Temperature Range:						
Maximum (°F/°C)	131/55	131/55	131/55	131/55	131/55	131/55
Indoor Minimum (°F/°C)	50/10	50/10	50/10	50/10	50/10	50/10
Outdoor Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40	-40/-40
Airflow at 0 Static Pressure:						
Internal loop 50 Hz (CFM/m <sup>3</sup> /hr)	285/484	285/484	285/484	287/487	287/487	287/487
External loop 50 Hz (CFM/m <sup>3</sup> /hr)	650/1104	650/1104	650/1104	635/1078	635/1078	635/1078
Internal loop 60 Hz (CFM/m <sup>3</sup> /hr)	310/527	310/527	310/527	305/518	305/518	305/518
External loop 60 Hz (CFM/m <sup>3</sup> /hr)	700/1189	700/1189	700/1189	650/1104	650/1104	650/1104

### Electrical Data

Rated Voltage	115	230/208-230	400/460 3~	115	230/208-230	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)	1111/1332	1250/1415	1342/1724	2100/2427	1839/2297	1610/2005
Max. Nominal Current (Amps at 50/60 Hz)	9.9/11.4	5.7/7.1-6.3	2.4/2.8	15.5/19.7	8.0/10.9-10.2	3.2/3.5
Starting Current (Amps)	38	27	13	30	30	20
Agency Approvals	UL/cUL Listed, CE EAC, Others available upon request					
Power Input Description	Terminal Block					

### Enclosure Protection

UL Type	Type 12, 3R, 4 standard, Type 4X Stainless steel optional
International Rating	IP56 internal loop, IP34 external loop

### Controller

Description	Basic mechanical thermostat with digital display
Thermostat Location	Enclosure side on all base models
Digital Display Location	-
Indoor Models	Ambient side
Outdoor Models	Enclosure side
Factory Thermostat Setting (°F/°C)	80/27

### Sound Level

At 1.5 Meters	68 dB(A)
---------------	----------

### Accessories

EASYSWAP Adaptor Plenum (GENESIS M52)	Enables SpectraCool to be mounted to a GENESIS M52 air conditioner cutout Catalog Number PLM52G52
---------------------------------------	--

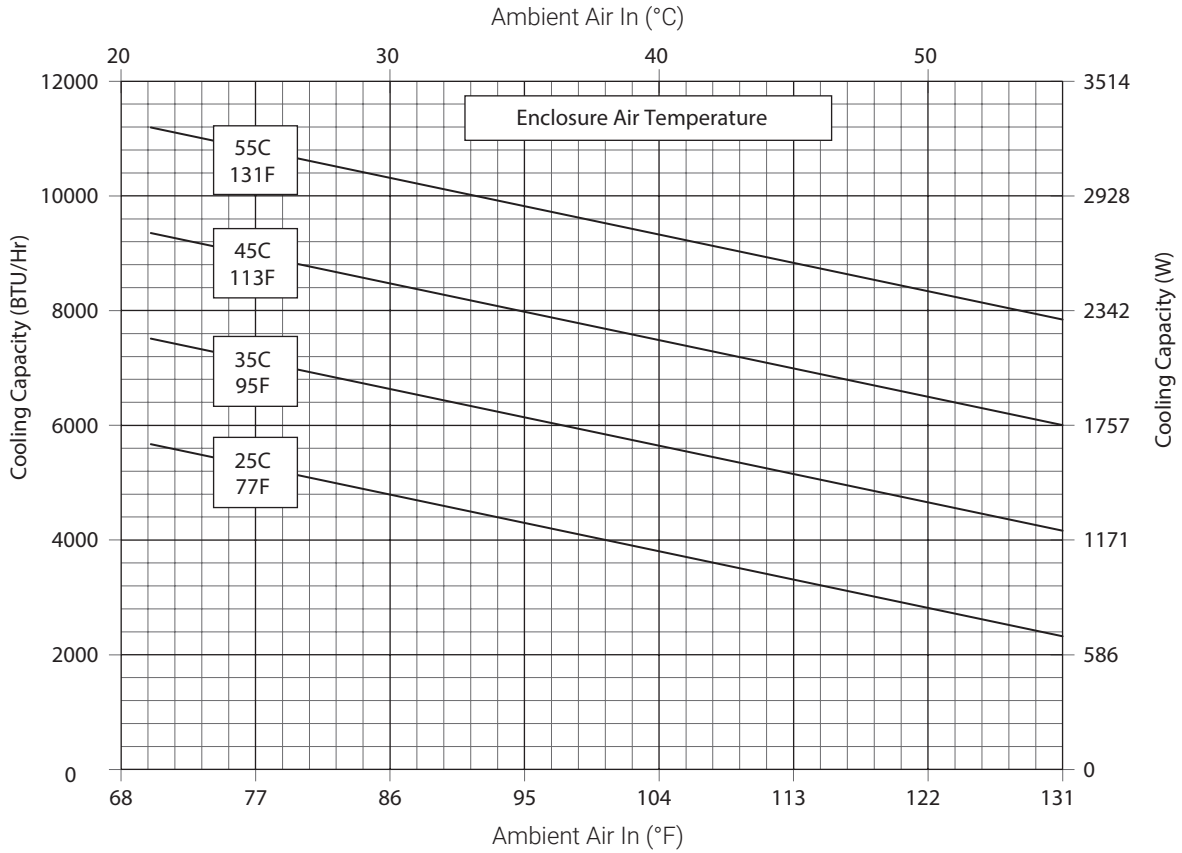
### Unit Dimensions

Height (in/mm)	52.70/1339					
Width (in/mm)	17.14/435					
Depth (in/mm)	11.65/296					
Weight (lb/kg)	128/58.1	128/58.1	138/62.6	151/68.5	131/59.4	141/64.0

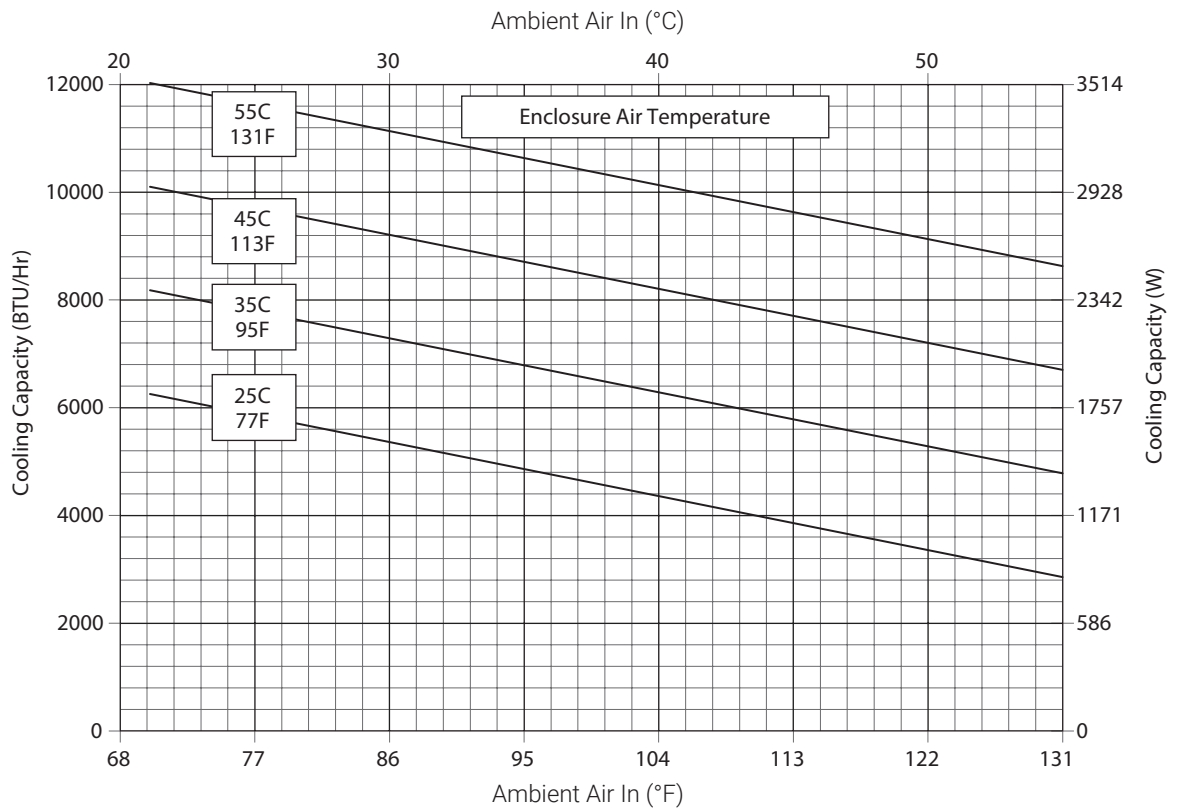
\*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

\*\*Performance values are nominal. For actual values, see performance curves.

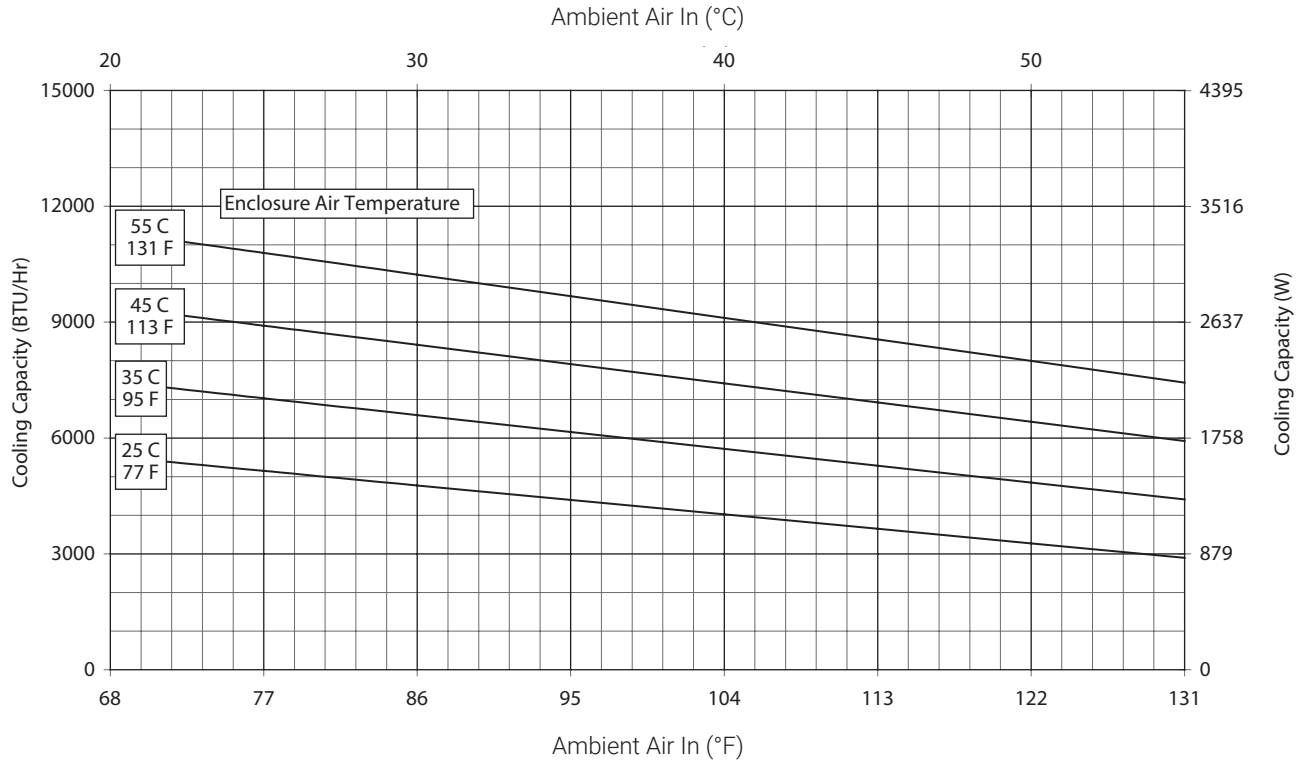
G52-0816-GXXX Capacity Curves at 50 Hz



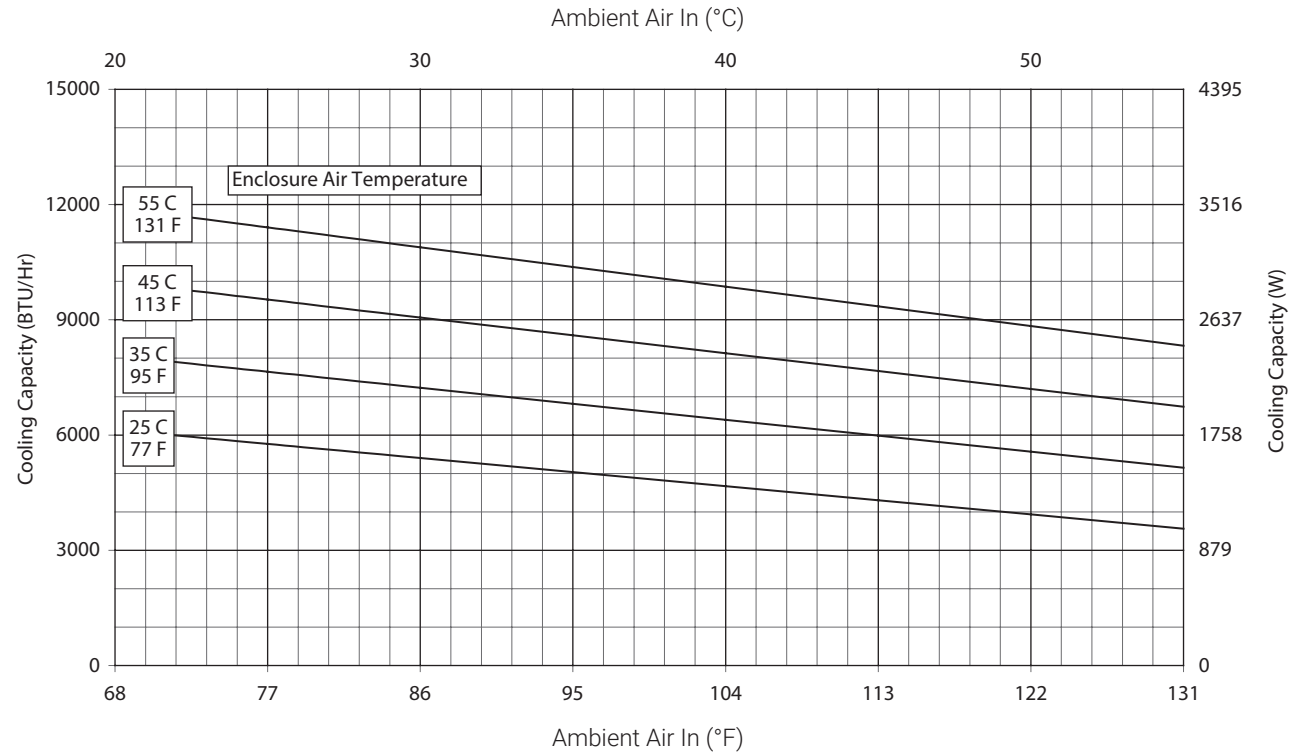
G52-0816-GXXX Capacity Curves at 60 Hz



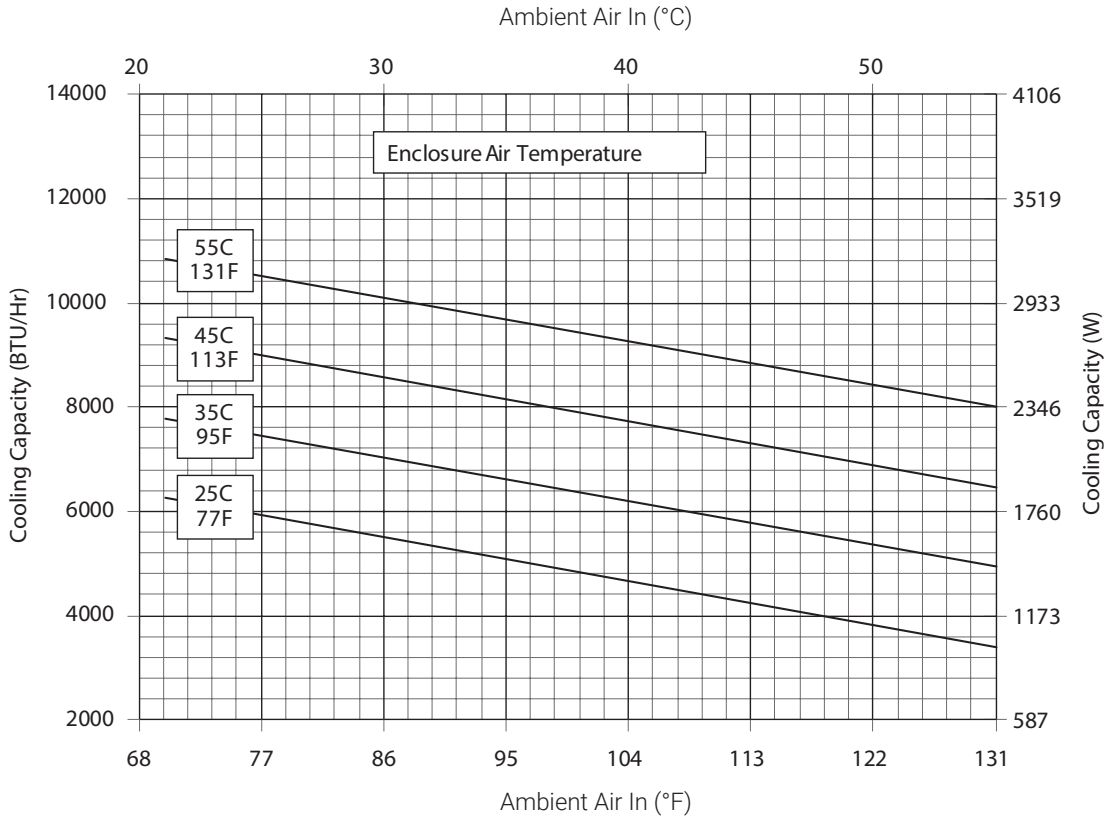
G52-0826-GXXX Capacity Curves at 50 Hz



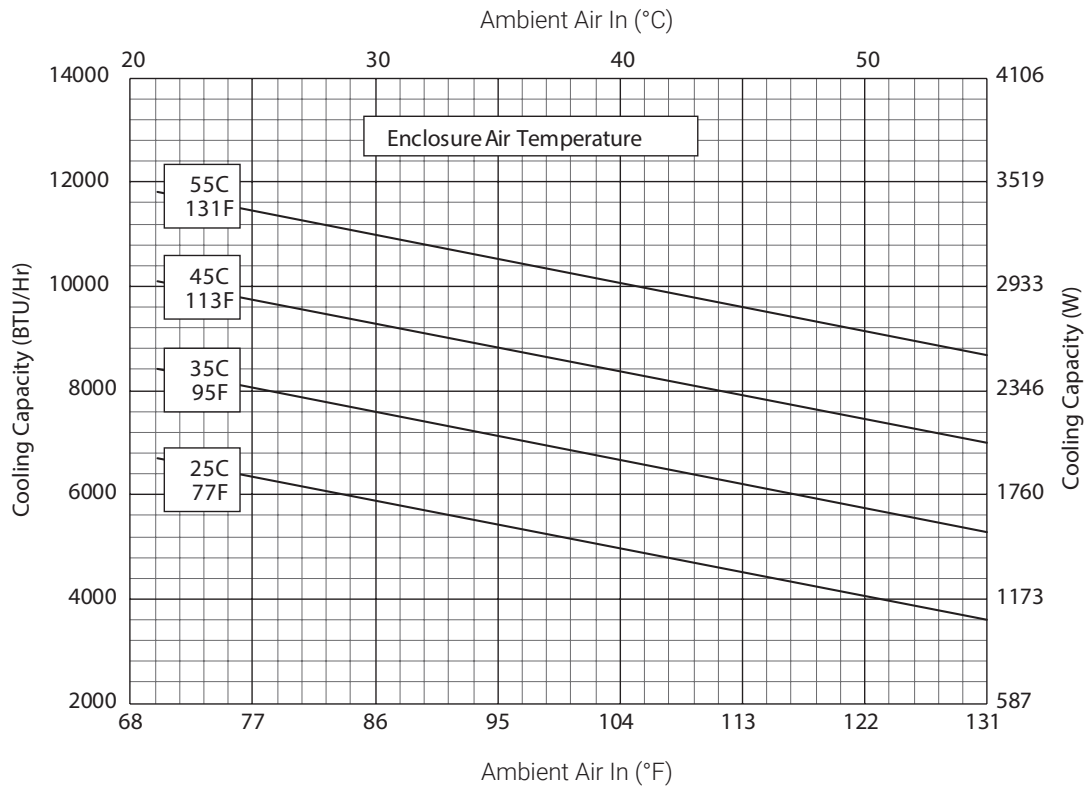
G52-0826-GXXX Capacity Curves at 60 Hz



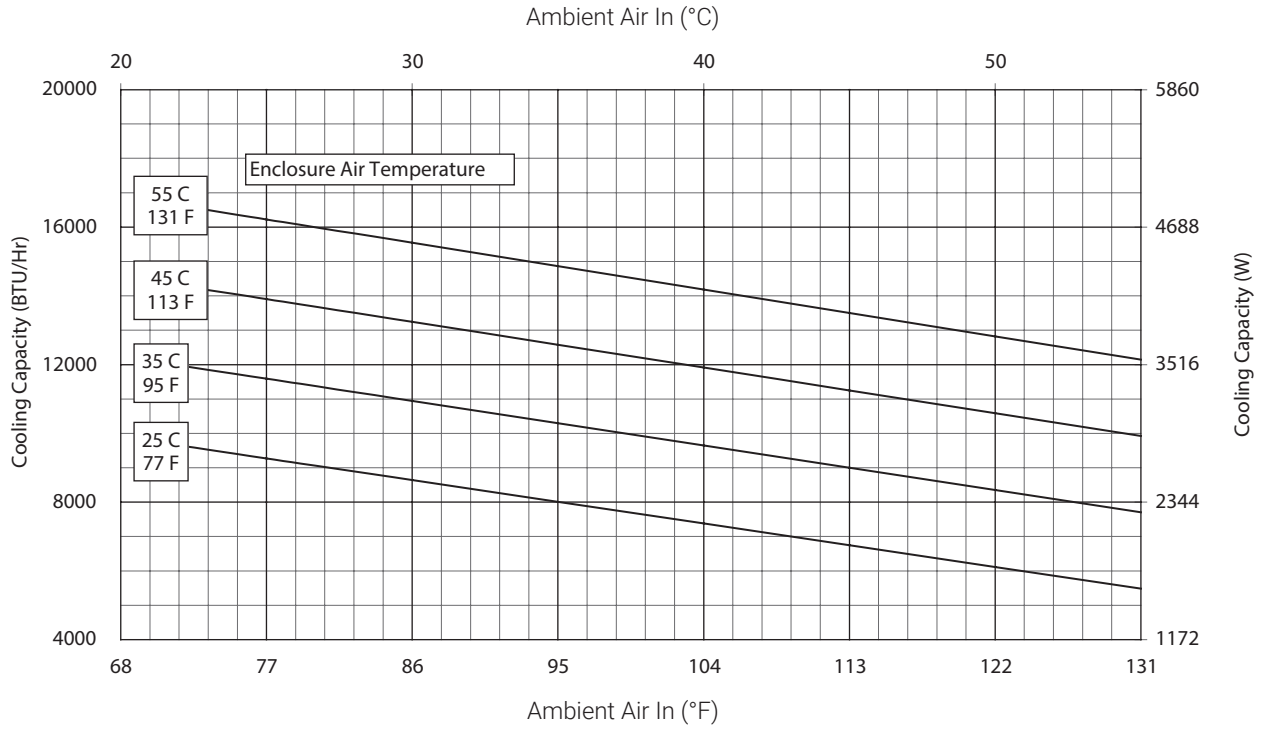
G52-0846-GXXX Capacity Curves at 50 Hz



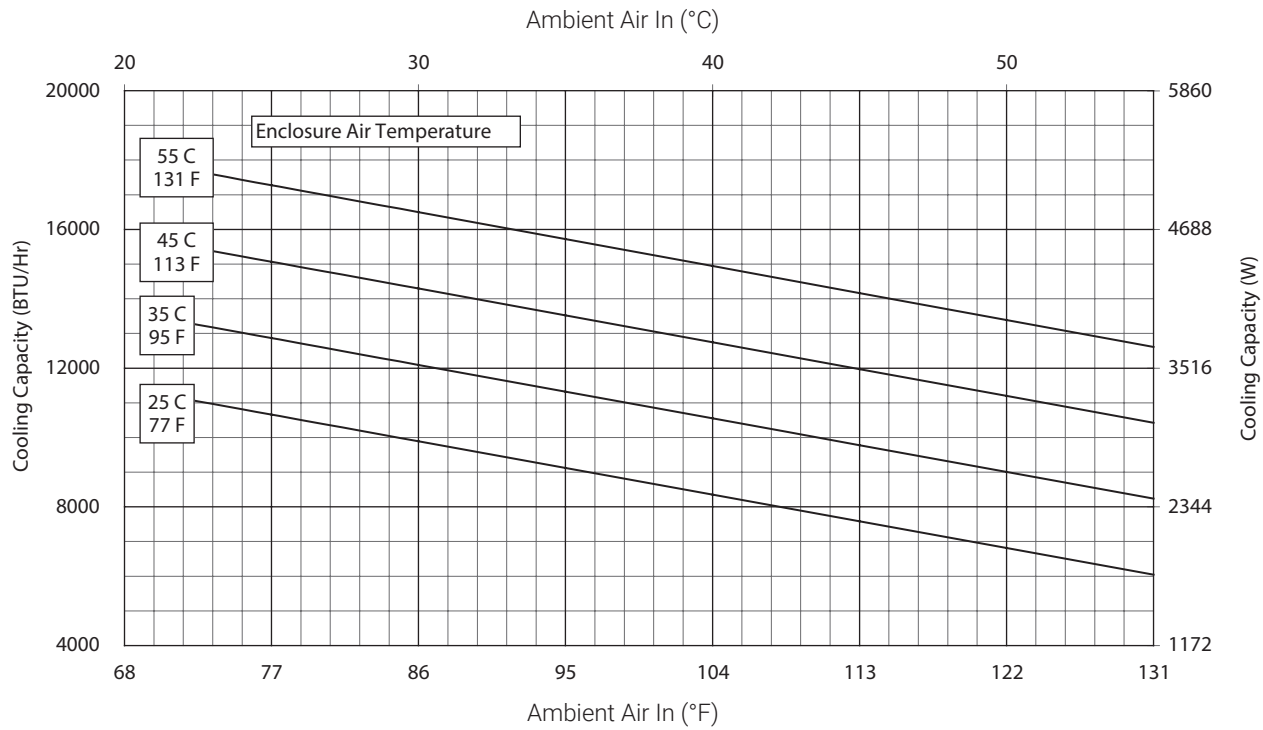
G52-0846-GXXX Capacity Curves at 60 Hz



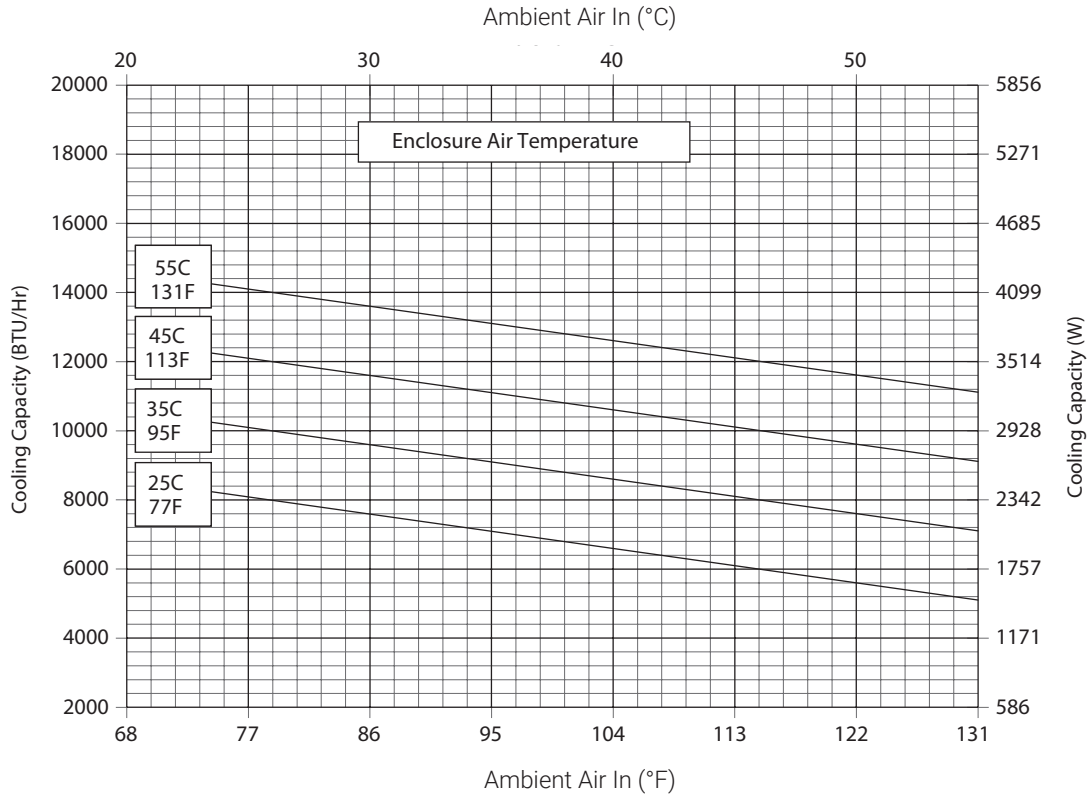
**G52-1216-GXXX Capacity Curve 50 Hz**



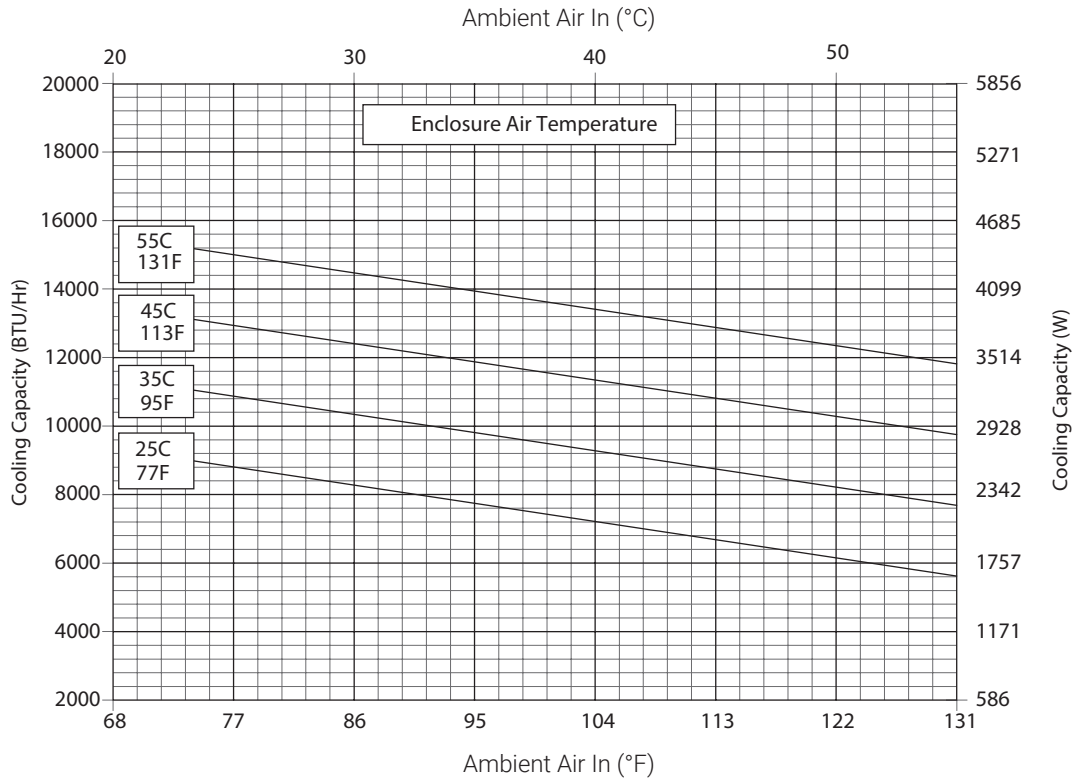
**G52-1216-GXXX Capacity Curve 60 Hz**



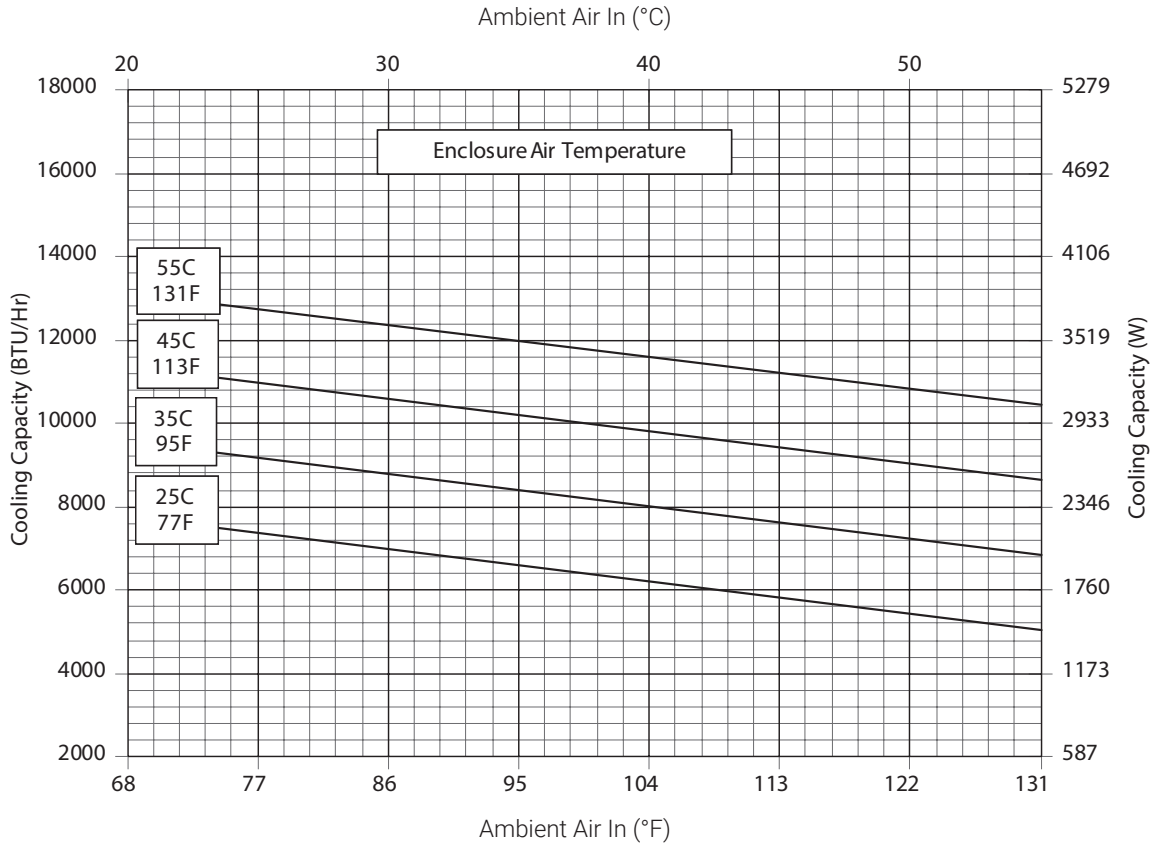
**G52-1226-GXXX Capacity Curve 50 Hz**



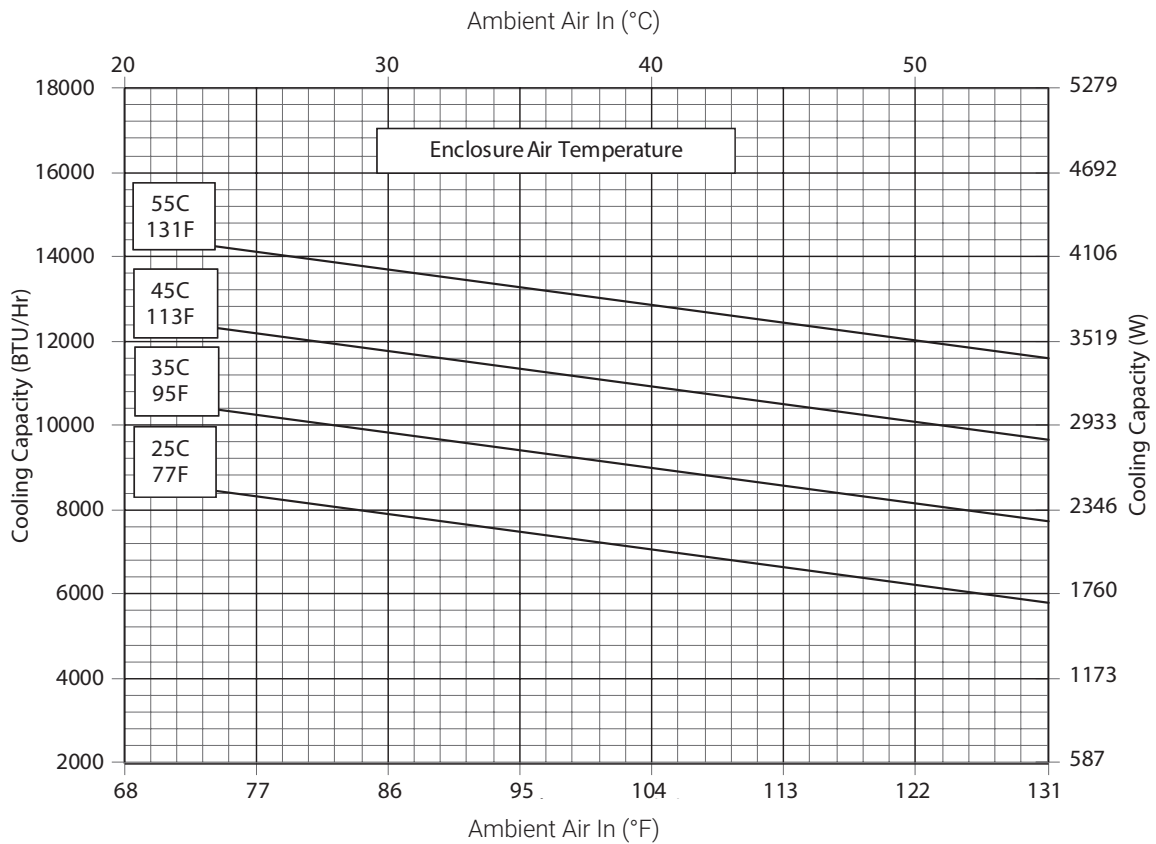
**G52-1226-GXXX Capacity Curve 60 Hz**



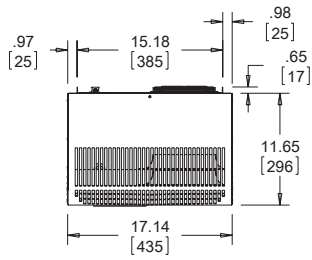
**G52-1246-GXXX Capacity Curve 50 Hz**



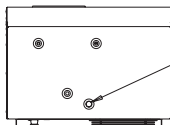
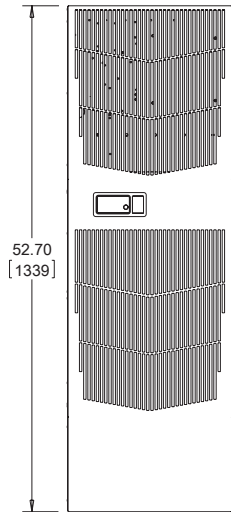
**G52-1246-GXXX Capacity Curve 60 Hz**



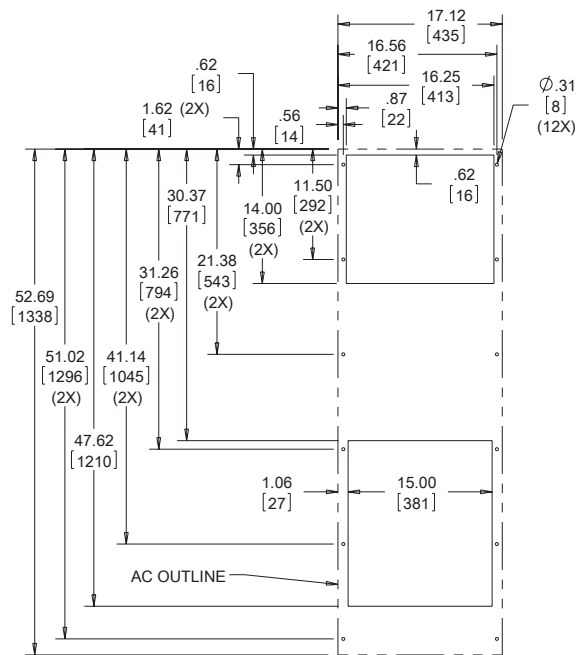
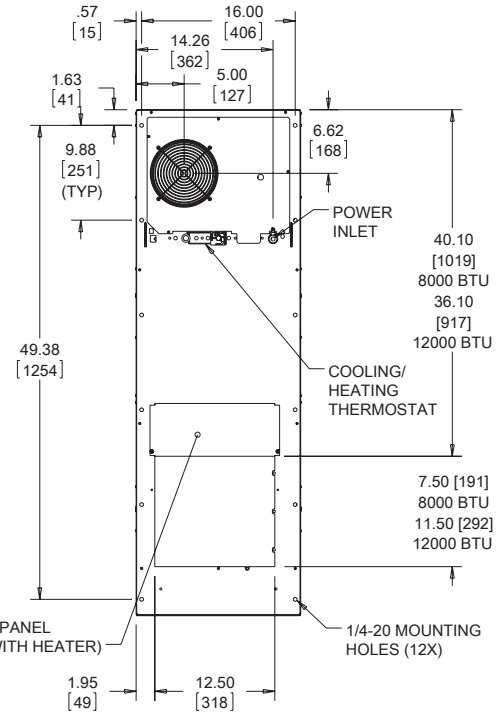
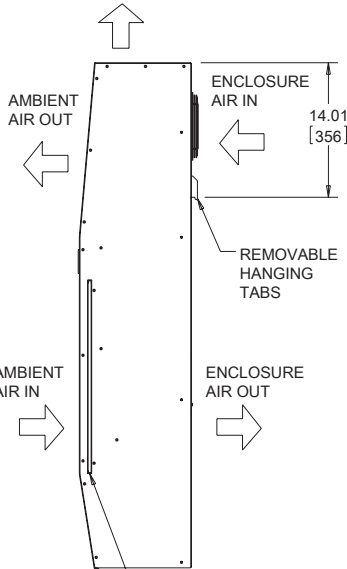
**G52 8000/12000 BTU/HR (2300/3500 WATT)**



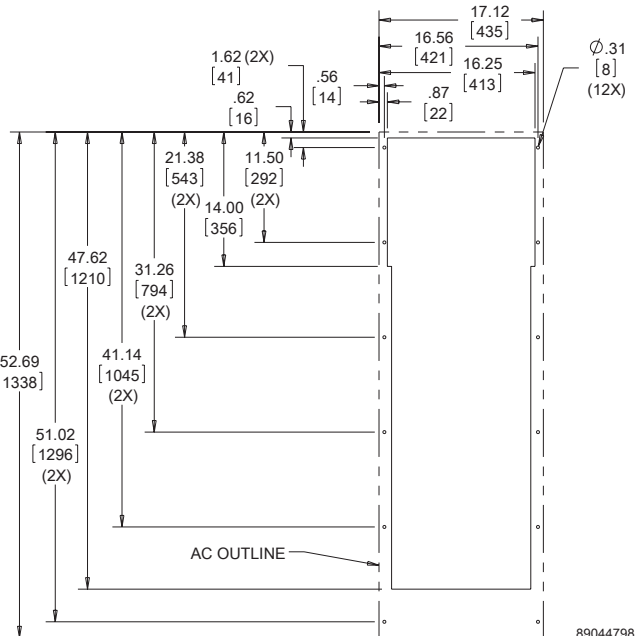
NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in. [mm]



CLEANABLE, REUSABLE ALUMINUM INLET FILTER



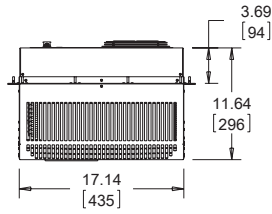
Cutout Dimensions (Standard)



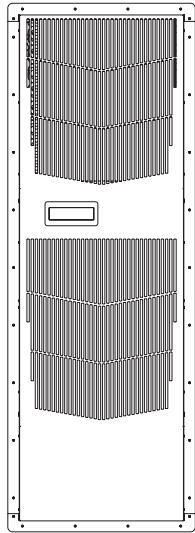
Cutout Dimensions (G520846G150, G520846G151, G521246G150, G521246G151 only)

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

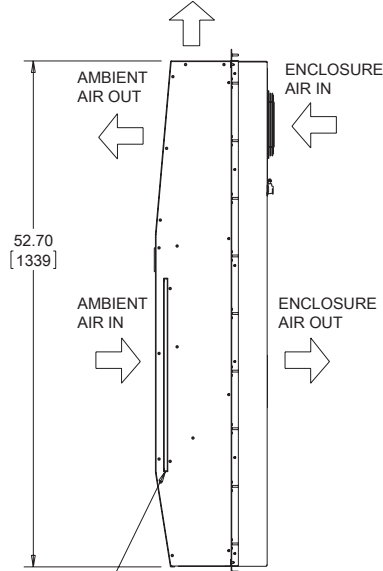
**G52 8000/12000 BTU/HR (2344/3516 WATT) WITH PARTIAL RECESS**



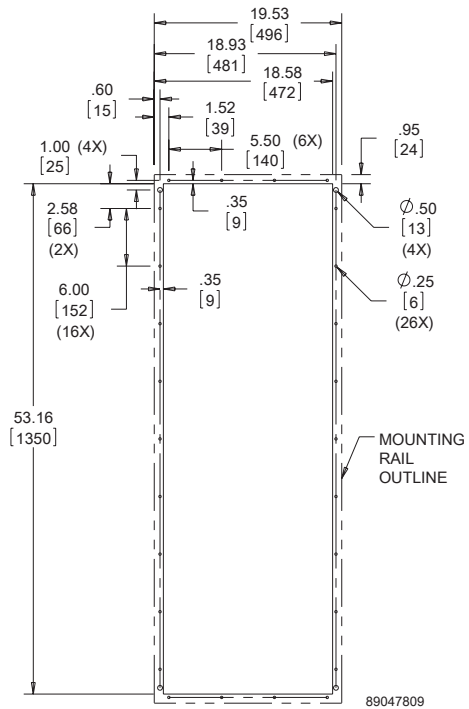
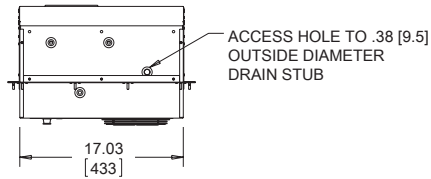
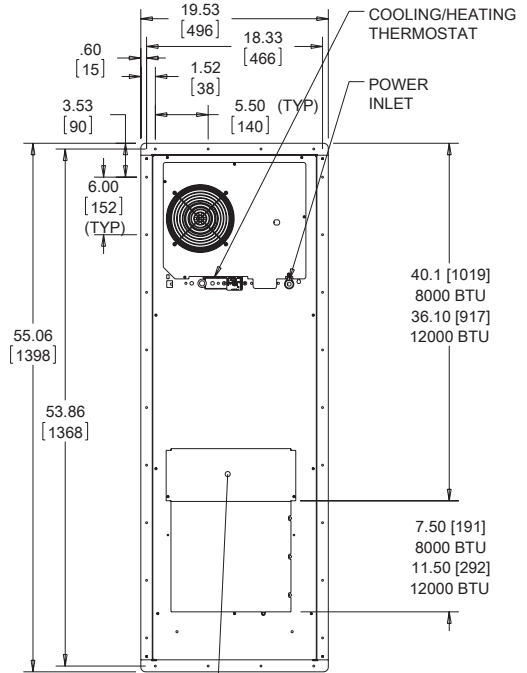
NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in. [mm]



CLEANABLE, REUSABLE ALUMINUM INLET FILTER



INCLUDED MOUNTING GASKET KIT TO BE ADHERED TO THIS SIDE OF MOUNTING RAILS BEFORE INSTALLING AIR CONDITIONER TO CABINET



Cutout Dimensions

89047809

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

## PERFORMANCE DATA G57 MODELS 20000 BTU/HR (5861 WATT)

### Catalog Number

Level 1 Painted Galvanized - G700	G572026G700	G572046G700
Level 1 Stainless Steel 316 - G102	G572026G102	G572046G102
Level 2 Painted Galvanized - G800	G572026G800	G572046G800
Level 2 Painted with Remote Access Control - G360*	G572026G360	G572046G360
Level 2 Stainless Steel 316 - G802	G572026G802	G572046G802

### Cooling Performance

Nominal:**		
BTU/Hr (50/60 Hz)	20000	20000
Watts (50/60 Hz)	5861	5861
At 131°F/131°F (55°C/55°C):		
BTU/Hr (50/60 Hz)	17500/19600	21400/23400
W (50/60 Hz)	5129/5744	6272/6857
At 95°F/95°F (35°C/35°C):		
BTU/Hr (50/60 Hz)	16000/18000	19300/21400
W (50/60 Hz)	4689/5275	5656/6272
Refrigerant	R407c	R407c
Refrigerant Charge (ounces/grams)	50/1417	48/1361
Operating Temperature Range:		
Maximum (°F/°C)	131/55	131/55
Indoor Minimum (°F/°C)	50/10	50/10
Outdoor Minimum (°F/°C)	-40/-40	-40/-40
Airflow at 0 Static Pressure:		
Internal loop 50 Hz (CFM/m <sup>3</sup> /hr)	513/872	513/872
External loop 50 Hz (CFM/m <sup>3</sup> /hr)	919/1562	919/1562
Internal loop 60 Hz (CFM/m <sup>3</sup> /hr)	587/998	587/998
External loop 60 Hz (CFM/m <sup>3</sup> /hr)	1055/1794	1055/1794

### Electrical Data

Rated Voltage	230/230	400/460 3~
Frequency (Hz)	50/60	50/60
Operating Range	+/-10%	+/-10%
Max. Power Consumption (Watts at 50/60 Hz)	4508/5106	4017/5043
Max. Nominal Current (Amps at 50/60 Hz)	16.7/22.3	6.0/6.8
Starting Current (Amps)	63	27
Agency Approvals	UL/cUL Listed CE, EAC, Others available upon request	
Power Input Description	Terminal Block	

### Enclosure Protection

UL Type	Type 12, 3R, 4 standard, Type 4X stainless steel optional
International Rating	IP56 internal loop, IP34 external loop

### Controller

Description	Basic mechanical thermostat with digital display
Thermostat Location	Enclosure side on all base models
Digital Display Location	-
Indoor Models	Ambient side
Outdoor Models	Enclosure side
Factory Thermostat Setting (°F/°C)	80/27

### Sound level

At 1.5 Meters	74.1 dB(A)
---------------	------------

### Accessories

EASYSWAP Adaptor Plenum (T-Series T53)	Enables SpectraCool to be mounted to a T-Series T53 air conditioner cutout part #57721601SP
--	---

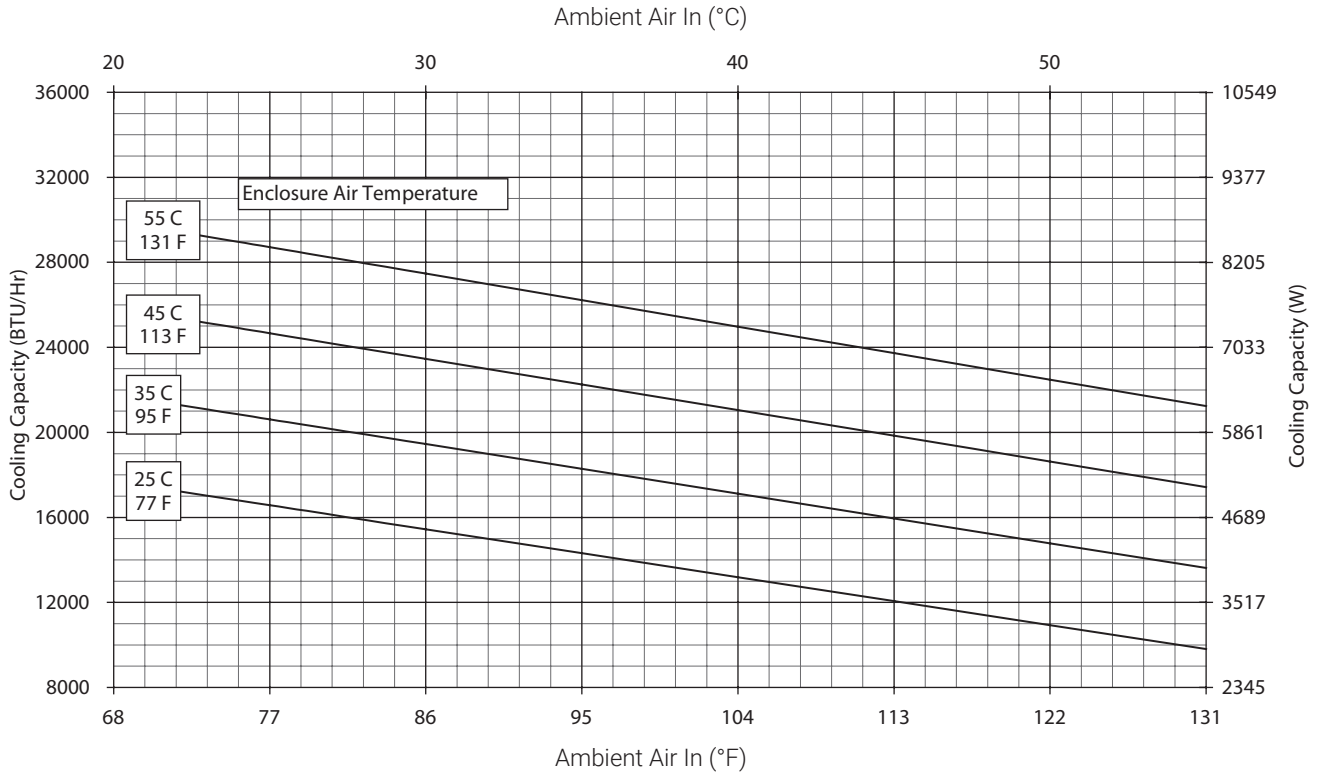
### Accessories

Height (in/mm)	57.70/1465
Width (in/mm)	20.89/531
Depth (in/mm)	15.36/390
Weight (lb/kg)	197/89

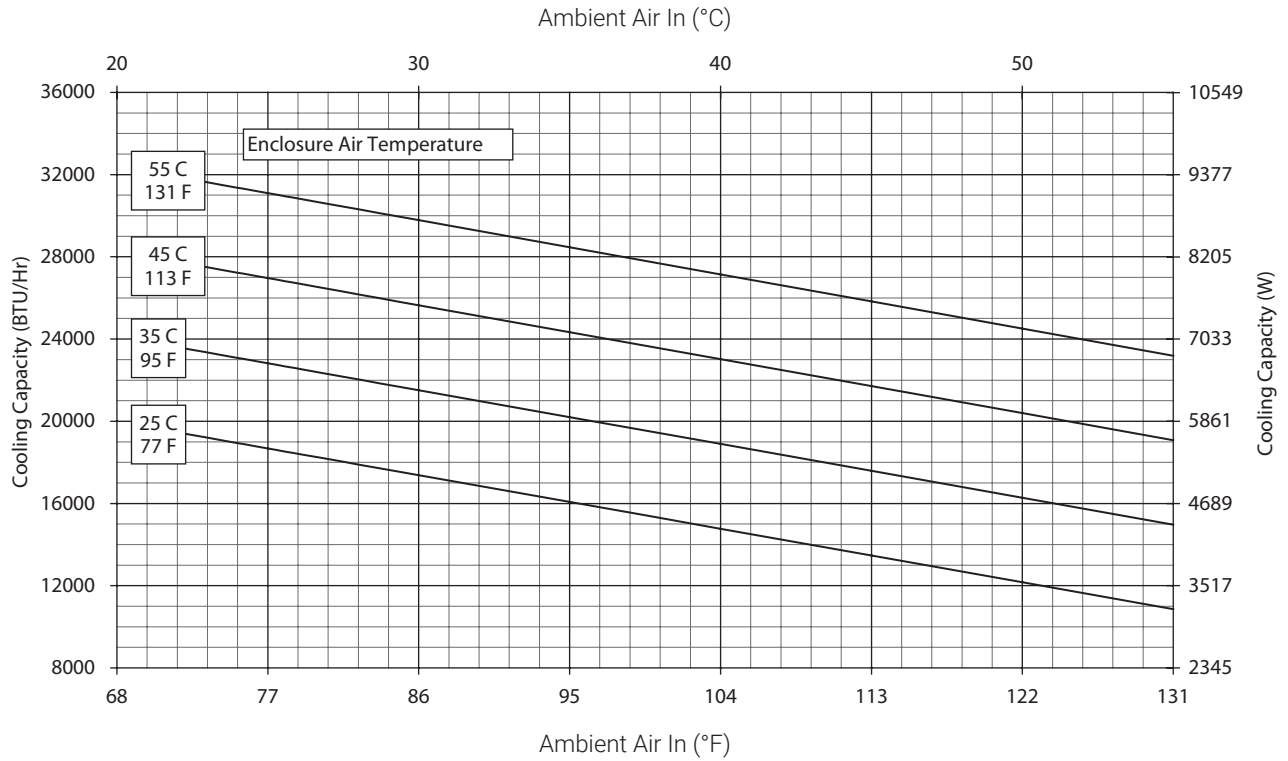
\*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Profinet, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.

\*\*Performance values are nominal. For actual values, see performance curves.

G57-2026-GXXX Capacity Curves at 50 Hz

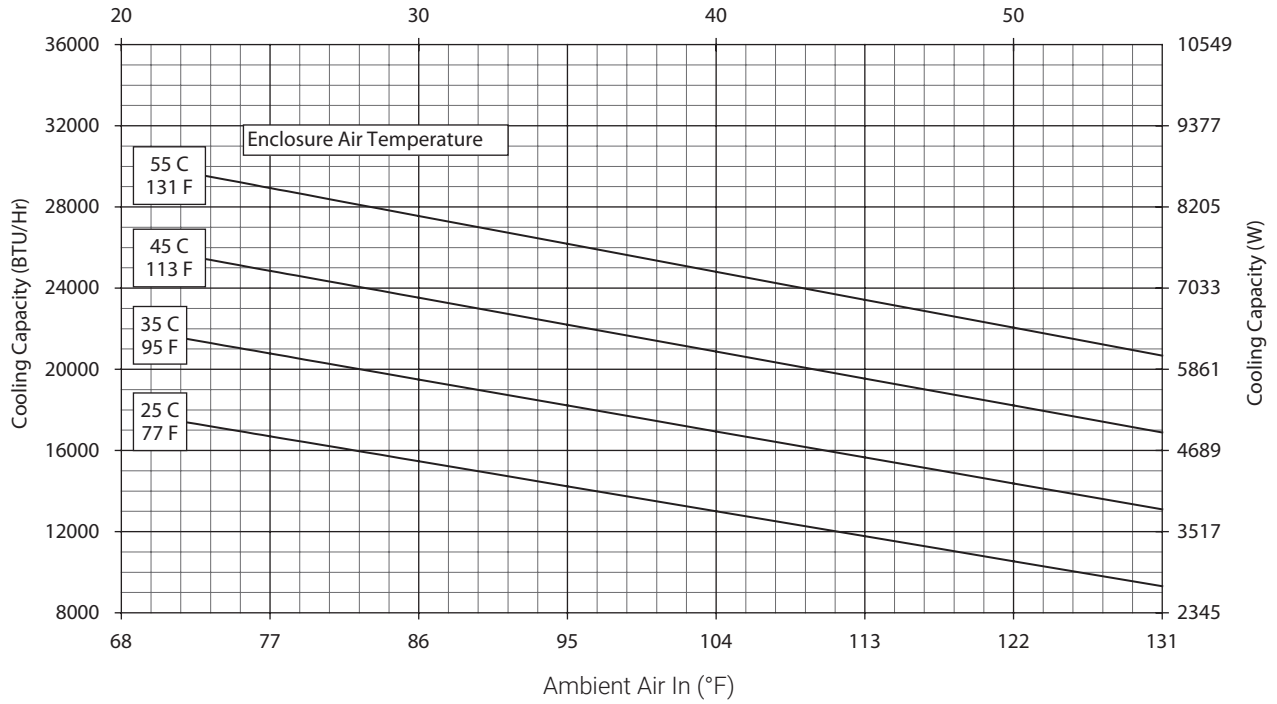


G57-2026-GXXX Capacity Curves at 60 Hz



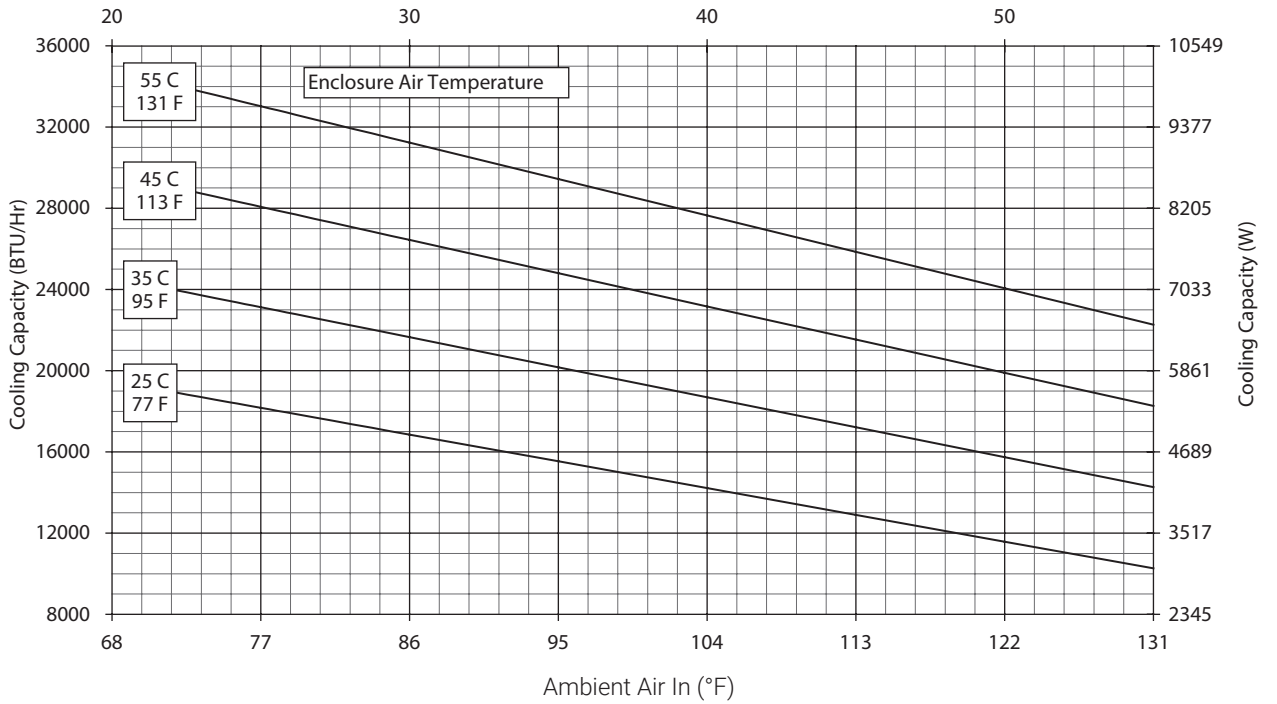
G57-2046-GXXX Capacity Curves at 50 Hz

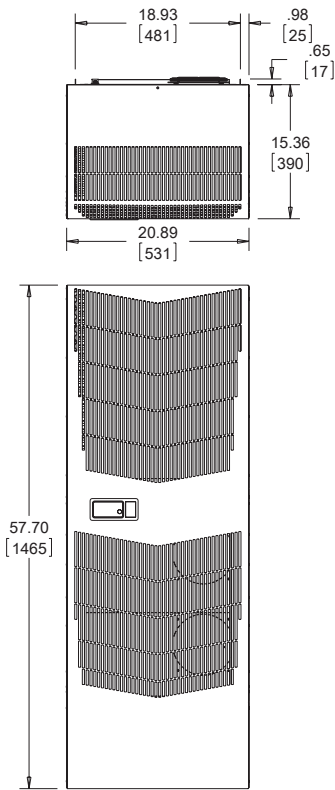
Ambient Air In (°C)



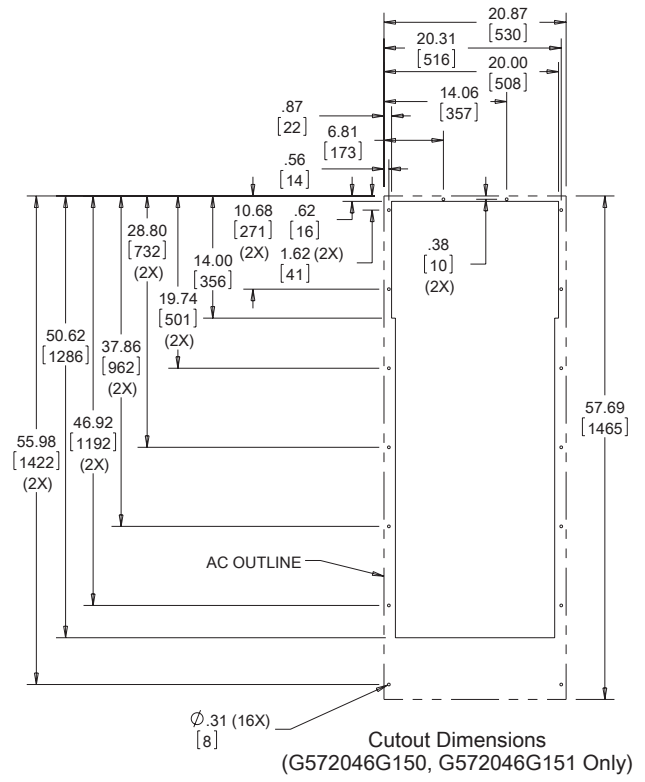
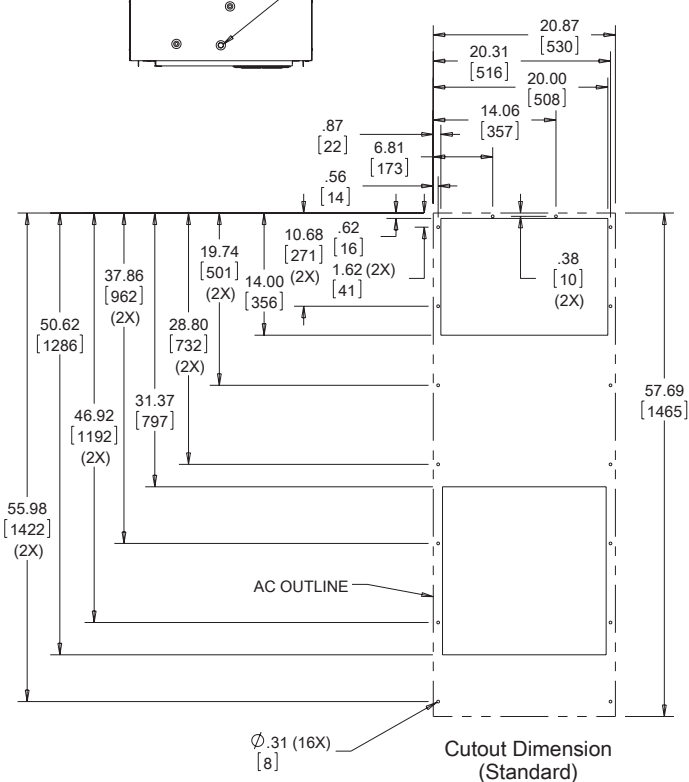
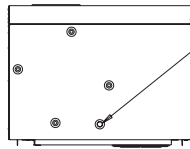
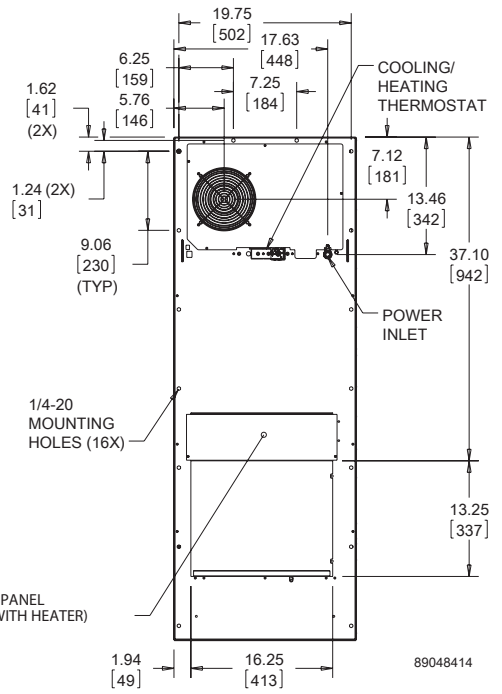
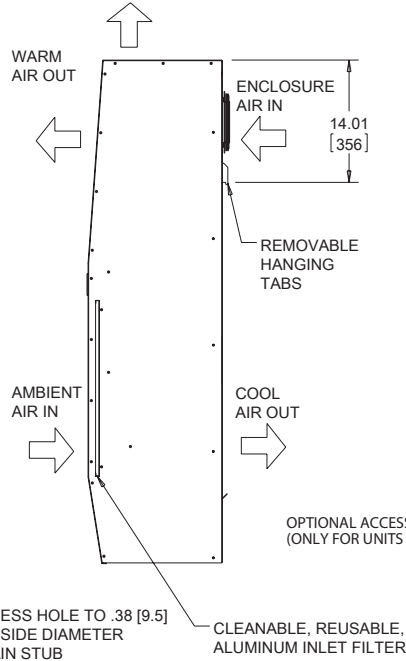
G57-2046-GXXX Capacity Curves at 60 Hz

Ambient Air In (°C)



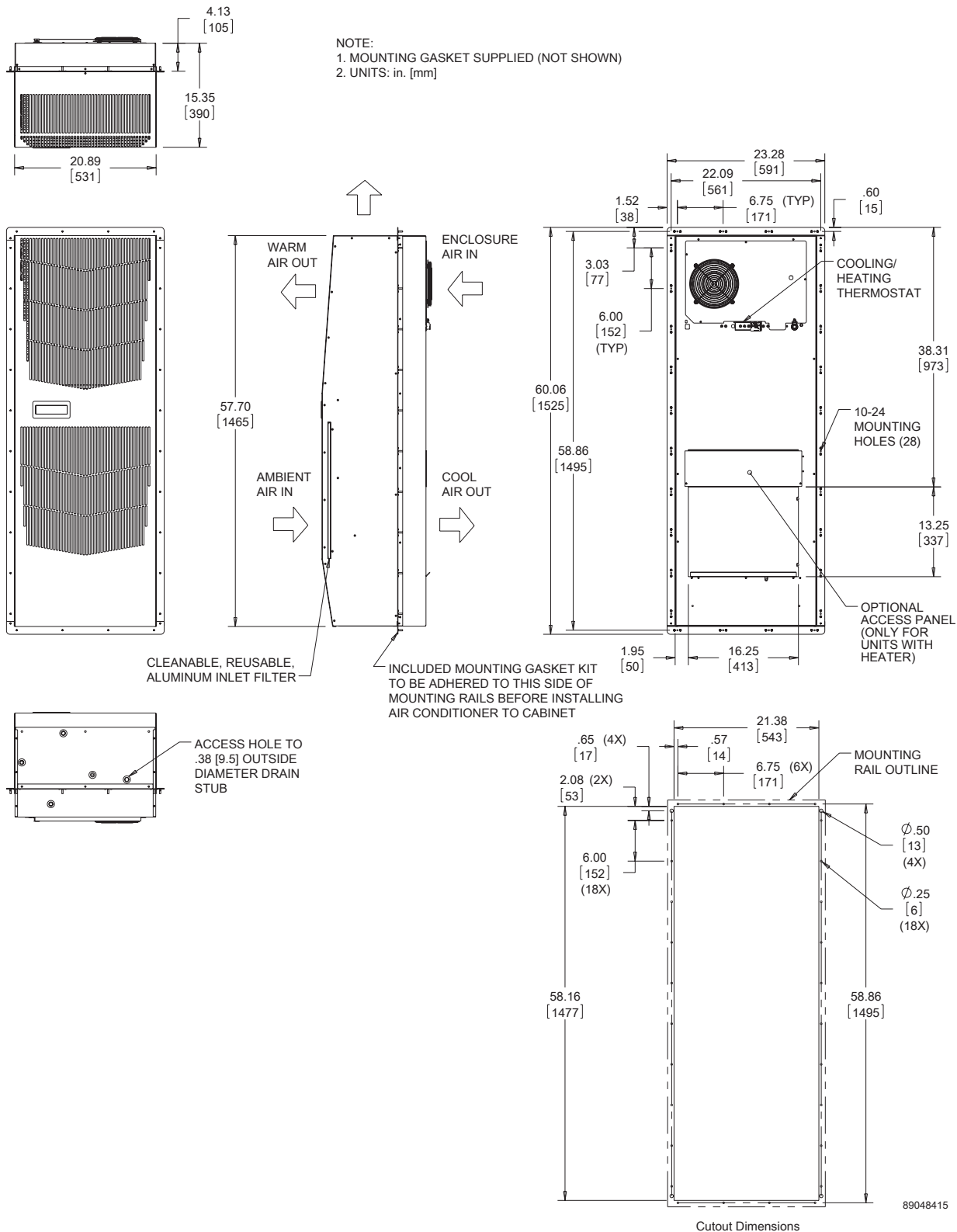


NOTE:  
 1. MOUNTING GASKET SUPPLIED (NOT SHOWN)  
 2. UNITS: in. [mm]



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

**G57 20000 BTU/HR (5861 WATT) WITH PARTIAL RECESS**



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



Our powerful portfolio of brands:

**CADDY ERICO HOFFMAN ILSCO RAYCHEM SCHROFF**