## PROLINE VOICE/DATA AND SERVER CABINET. TYPE 12

**Features**
- Three-point locking handles on all doors provide easy but controlled access; two keys included
- Fully welded frame safely supports sensitive equipment
- Fully gasketed to keep contaminants away from equipment
- Two sets of 19-in. rack angles support both front and rear of equipment
- Rack angles are infinitely adjustable from front to rear for positioning flexibility
- Mobile base provides easy placement of cabinet
- Levelers and anti-tip bracket secure cabinet to the floor

**Specifications**
- Welded 12 gauge steel frame with integral struts
- Front window door made of 16 or 14 gauge steel with safety glass window
- Solid 16 or 14 gauge steel back door
- Standard package has solid 16 or 14 gauge steel sides
- AC package has cutout for easy in-the-field installation of any G28 or G52 Series air conditioner (ordered and shipped separately)
- Models available with EIA Universal standard 3/8-in. square or 10-32 tapped holes
- Mobile base includes casters, levelers and gland plate
- Gland plate allows easy routing of cable

**Finish**
Pretreated steel coated with RAL 9005 black or RAL 7035 light-gray textured, low-gloss polyester powder paint. Other finishes available—contact nVent HOFFMAN Customer Service.

**Load Rating**
**Static Load Rating: 2500 lb. (1134 kg)**
A cabinet has a static load when:
- it is in its final, permanent, fully secured location
- its levelers are fully extended
- the anti-tip bracket is installed
- its load is uniformly applied to the two sets of rack-mounting angles, and
- the casters are not supporting any load (use the casters only to move the cabinet to its final location before loading)

**Never move a cabinet with its maximum static load applied.**
Contact Hoffman if further information is needed.

**Casters Maximum Load: 1000 lb. (453 kg)**
Exercise care when using casters to move the cabinet. Do not use casters to move a cabinet with more than 1000 lb. (453 kg) load. Avoid tipping and damage to the cabinet and its contents by slowly moving the cabinet on its casters across smooth, flat flooring. Avoid obstructions such as:
- large cracks
- floor displacement
- seams
- gravel

**Never use casters while transporting a cabinet by truck on roadways.**
Contact nVent HOFFMAN if further information is needed.

**Accessories**
See the Package Components table. For AC-Ready Cabinet, see G28 or G52 air conditioner specifications following the Package Components table. Full AC specifications available in the Thermal chapter. Air conditioner must be ordered and shipped separately; it cannot be factory installed.

**Notes**
The cabinet must be fully secured in its final position before the AC unit (ordered separately) is mounted to the cabinet. **Never move the cabinet with the AC mounted.**

**BULLETIN: DPC, DPSR**

### INDUSTRY STANDARDS
- EIA RS-310-D
  - UL 508A Listed; Type 12; File Number E61997
  - cUL Listed per CSA C22.2 No 94; Type 12; File Number E61997
  - NEMA/EEMAC, Type 12

### APPLICATION
Robustly built and sealed for use in wet, dusty or hot environments, ProLine Type 12 Cabinets have optional cutouts to air condition voice/data equipment and servers.

### FEATURES
- Three-point locking handles on all doors provide easy but controlled access; two keys included
- Fully welded frame safely supports sensitive equipment
- Fully gasketed to keep contaminants away from equipment, reducing maintenance costs
- Two sets of 19-in. rack angles support both front and rear of equipment
- Rack angles are infinitely adjustable from front to rear for positioning flexibility
- Mobile base provides easy placement of cabinet
- Levelers and anti-tip bracket secure cabinet to the floor

### SPECIFICATIONS
- Welded 12 gauge steel frame with integral struts
- Front window door made of 16 or 14 gauge steel with safety glass window
- Solid 16 or 14 gauge steel back door
- Standard package has solid 16 or 14 gauge steel sides
- AC package has cutout for easy in-the-field installation of any G28 or G52 Series air conditioner (ordered and shipped separately)
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- Mobile base includes casters, levelers and gland plate
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**Never move a cabinet with its maximum static load applied.**
Contact Hoffman if further information is needed.

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- floor displacement
- seams
- gravel

**Never use casters while transporting a cabinet by truck on roadways.**
Contact nVent HOFFMAN if further information is needed.

### ACCESSORIES
See the Package Components table. For AC-Ready Cabinet, see G28 or G52 air conditioner specifications following the Package Components table. Full AC specifications available in the Thermal chapter. Air conditioner must be ordered and shipped separately; it cannot be factory installed.

### NOTES
The cabinet must be fully secured in its final position before the AC unit (ordered separately) is mounted to the cabinet. **Never move the cabinet with the AC mounted.**

**BULLETIN: DPC, DPSR**

### Catalog Number
<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>AxBxC mm</th>
<th>AxBxC in.</th>
<th>Cabinet, Package Type</th>
<th>Finish</th>
<th>Rack Units</th>
<th>Hole Type</th>
<th>Rack Angle</th>
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<tr>
<td>PDCP2078B12</td>
<td>2085 x 708 x 799</td>
<td>82.10 x 27.93 x 31.33</td>
<td>Voice/Data, Standard</td>
<td>DataCom Black</td>
<td>42</td>
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### AC-Ready Cabinets

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<th>Finish</th>
<th>AC</th>
<th>Rack Units</th>
<th>Hole Type</th>
<th>Rack Angle</th>
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<td>42</td>
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<td>82.10 x 23.94 x 39.34</td>
<td>Server, AC-Ready</td>
<td>ProLine Gray</td>
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<tr>
<td>PDCP2078BAC2</td>
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<td>81.96 x 27.87 x 31.37</td>
<td>Voice/Data, AC-Ready</td>
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<td>G52</td>
<td>42</td>
<td>Tapped</td>
<td>PRA1920THL1</td>
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<tr>
<td>PDCP2078GAC2</td>
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<td>81.96 x 27.87 x 31.37</td>
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<td>Server, AC-Ready</td>
<td>ProLine Gray</td>
<td>G52</td>
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## Package Components and Replacement Parts

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>AsStC mm</th>
<th>AsStC in.</th>
<th>Description</th>
<th>Finish</th>
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<td>Frame</td>
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<td>Window Doors</td>
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<td>Window Doors</td>
<td>Gray</td>
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<td>Window Doors</td>
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<td>23.60 x 39.37</td>
<td>Mobile Base</td>
<td>Gray</td>
</tr>
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</table>
Air conditioners are appropriate for applications in which:
- The temperature inside the enclosure must be maintained at or below ambient temperature.
- Humidity must be removed from the enclosure.
- Ambient air contaminants must be kept out of the enclosure.

The following air conditioner sizing procedure applies to uninsulated, sealed and gasketed enclosures in indoor locations.

**Step 1. Determine the internal heat load in watts (W)**
Add the maximum heat output specifications for all equipment to be installed in cabinet.
Conversion: 1 W = 3.413 BTU/hr.

**Step 2. Determine the desired temperature difference \(\Delta T\) between the ambient temperature and the temperature inside the cabinet**
Subtract the desired maximum temperature inside the cabinet \(T_i\) from the maximum expected temperature \(T_o\) outside the cabinet.

\[
T_o - T_i = \Delta T
\]
Conversion: 1 K or \(\Delta T\) = 1.8 \(\Delta T\) F

**Step 3. Determine the exposed surface area of the cabinet in square feet.**
Use the following formula to determine area when \(H\), \(W\) and \(D\) are the cabinet dimensions in inches.

\[
\frac{2[(H \times W) + (H \times D) + (W \times D)]}{144} = \text{Area (ft.}^2)\]
Conversion: If dimensions are in millimeters, substitute 1,000,000 for 144. Then multiply the result by 10.76 to convert from \(m^2\) to \(ft.\)^2

**Step 4. Determine the air conditioner capacity required**
Use the following formula:

\[
(Watts \times 3.413) + [(1.25 \times \text{Area in ft.}^2) \times \Delta T \text{ in F}] = BTU/hr.
\]
Required air conditioner capacity in BTU/hr.

Use this formula to determine the required cooling capacity needed to maintain the desired operating temperature for your enclosure. This selection procedure applies to uninsulated, sealed, gasketed enclosures in indoor locations.

All industrial air conditioners are rated at their maximum operating point. Operating an air conditioner at temperatures below maximum conditions will result in reduced cooling capacity. In other words, operating 95 F ambient and 95 F enclosure temperature results in a 10 percent to 20 percent reduction in the rated capacity.

**Full cooling capacity is probably not necessary at lower ambient temperatures.**
## G28 AIR CONDITIONER SPECIFICATIONS

### Performance Data  G28 Models 4000/6000 BTU/Hr. (1172/1758 Watt)

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>Indoor Model</th>
<th>Outdoor Model without Heat Pkg</th>
<th>Outdoor Model with Heat Pkg</th>
<th>Outdoor Model Partial Recessed Mount**</th>
<th>Outdoor Model with Heat Pkg, Stainless Steel Type 4X</th>
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<tbody>
<tr>
<td></td>
<td>G280416G050</td>
<td>G280426G050</td>
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</table>

### COOLING PERFORMANCE

- **Nominal**
  - **BTU/Hr.**
    - 4000
    - 4600/4900
    - 4600/4900
    - 6000/6400
    - 6000/6400
    - 5400/6000
  - **Watts**
    - 1172
    - 1347/1435
    - 1347/1435
    - 1757/1874
    - 1757/1874
    - 1581/1757

- **At 131°F/55°C**
  - **BTU/Hr.**
    - 3700
    - 4600/4900
    - 4600/4900
    - 6000/6400
    - 6000/6400
    - 5400/6000
  - **Watts**
    - 1084
    - 1347/1435
    - 1347/1435
    - 1757/1874
    - 1757/1874
    - 1581/1757

- **At 95°F/35°C**
  - **BTU/Hr.**
    - 3300/3410
    - 4300/4600
    - 4324/4655
    - 5600/6000
    - 5600/6000
    - 5045/5685
  - **Watts**
    - 967/1000
    - 1260/1364
    - 1267/1364
    - 1641/1758
    - 1641/1758
    - 1481/1666

### Refrigerant
- **R134A**
- **R407C**

### 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

### 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

### 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
- **Max. Power Consumption (W at 50/60 Hz)**
  - 465/1055
  - 1058/1334
  - 680/874
  - 1138.5/1311
  - 1058/1334
  - 680/874

### Starting Current (A)
- 36.2
- 17.7
- 7.7
- 36.2
- 17.7
- 7.7

### Agency Approvals
- UL/cUL Listed
- CE
- EAC

### ENCLOSURE PROTECTION

### CONTROLLER

### Thermostat Location
- Enclosure Side on All Base Models

### Factory Thermostat Setting (°F/°C)
- 80/27
- 80/27
- 80/27
- 80/27
- 80/27
- 80/27

### SOUND LEVEL
- At 1.5 Meters
  - 68 dB(A)

### UNIT CONSTRUCTION

### Material
- Galvanized Sheet Metal Standard
- Stainless Steel Optional

### Finish
- Powder Coat RAL 7035 Light Gray Standard

### 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

<table>
<thead>
<tr>
<th>Height (in./mm)</th>
<th>Width (in./mm)</th>
<th>Depth (in./mm)</th>
<th>Weight (lb./kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.55/725.1</td>
<td>16.97/431.1</td>
<td>10.10/256.6</td>
<td>84/38</td>
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<tr>
<td>28.55/725.1</td>
<td>16.97/431.1</td>
<td>10.10/256.6</td>
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<tr>
<td>28.55/725.1</td>
<td>16.97/431.1</td>
<td>10.10/256.6</td>
<td>84/38</td>
</tr>
</tbody>
</table>

*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.

**Outdoor Model Partial Recessed Mount units are UL Type 12, 3R only."
## Performance Data  G52 Models 8000/12000 BTU/Hr. (2300/3500 Watt)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Indoor Model</th>
<th>Indoor Model Stainless Steel Type 4X</th>
<th>Indoor Model with Remote Access Control*</th>
<th>Outdoor Model without Heat Pkg.</th>
<th>Outdoor Model Partial Recessed Mount**</th>
<th>Outdoor Model with Heat Pkg. Stainless Steel Type 4X</th>
</tr>
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### Cooling Performance

**Nominal:**
- BTU/Hr.: 8000, 8000, 8000, 12000, 12000, 12000
- Watts: 2300, 2300, 2300, 3500, 3500, 3500

**At 131°F (55°C):**
- BTU/Hr.: 7300/8200, 7300/8200, 8800/9800, 12000/12500, 12000/12500, 11100/12000
- Watts: 2139/2403, 2139/2403, 2578/2871, 3516/3662, 3516/3662, 3252/3516

**At 95°F (35°C):**
- BTU/Hr.: 6000/6800, 6000/6800, 7400/8200, 9900/10700, 9900/10700, 9900/10700

**Refrigerant:** R134a, R134a, R134a, R134a, R134a, R134a

**Refrigerant Charge (ounces/grams):** 24/680, 24/680, 24/680, 38/1077, 38/1077, 38/1077

**Airflow at 0 Static Pressure:**
- Internal loop 50 Hz (CFM / m³/hr.): 285/484, 285/484, 285/484, 287/487, 287/487, 287/487
- External loop 50 Hz (CFM / m³/hr.): 650/1104, 650/1104, 650/1104, 635/1078, 635/1078, 635/1078
- Internal loop 60 Hz (CFM / m³/hr.): 310/527, 310/527, 310/527, 305/518, 305/518, 305/518
- External loop 60 Hz (CFM / m³/hr.): 700/1189, 700/1189, 700/1189, 650/1104, 650/1104, 650/1104


### Electrical Data

- **Rated Voltage:** 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 (W):** 1250/1415, 1250/1415, 805/957***, 2100/2427, 1830/2310, 910/1105***
- **Max. Nominal Current (A at 50/60 Hz):** 11.2/12.3, 5.6/7.0, 3.1/3.2, 16.1/21.1, 9.1/10.6, 3.6/3.5
- **Starting Current (A):** 48, 27, 16, 57, 38, 16

### 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:** Ambient side
- **Outoor Models:** Enclosure side
- **Factory Thermostat Setting (F/C):** 80/27

### Sound Level

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

### 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 M52):** Enables SPECTRACOOL to be mounted to a GENESIS M52 air conditioner cutout
- **Catalog Number:** PLM52G52

### Unit Dimensions

- **Height (in./mm):** 52.69/1338
- **Width (in./mm):** 17.12/435
- **Depth (in./mm):** 11.66/296
- **Weight (lb./kg):** 128/58.1, 128/58.1, 138/62.6, 131/59.4, 131/59.4, 141/64.0

**Notes:**
- *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.
- **Outdoor Model Partial Recessed Mount units are UL Type 12, 3R only.
- ***Watts based on .65 power factor.
Notes