SPECTRACOOL™ INDOOR/OUTDOOR

INDUSTRY STANDARDS
UL/cUL Listed; Type 12, 3R, 4; 4X optional; File No. SA6453
CE
GOST
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
• And more

FEATURES
• Energy-efficient rotary compressor on most models
• R407c and R134a 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
• Outdoor model operating temperature range from -40 F/-40 C to 131 F/55 C
• Exterior and partially recessed mounting options
• 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
• 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 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
  - Up to 2000 Watt (G28, G52) and 3000 Watt (G57) enclosure heater

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)
• 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.HoffmanOnline.com to download 2D and 3D CAD drawings into the overall design of your electronic system.
Performance Data  G28 Models 4000/6000 BTU/Hr. (1172/1758 Watt)

**CATALOG NUMBER**

<table>
<thead>
<tr>
<th>Indoor Model</th>
<th>G280416G050</th>
<th>G280426G050</th>
<th>G280446G050</th>
<th>G280616G050</th>
<th>G280626G050</th>
<th>G280646G050</th>
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<tr>
<td>Indoor Model Stainless Steel Type 4X</td>
<td>G280416G051</td>
<td>G280426G051</td>
<td>G280446G051</td>
<td>G280616G051</td>
<td>G280626G051</td>
<td>G280646G051</td>
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<tr>
<td>Indoor Model with Remote Access Control*</td>
<td>G280416G060</td>
<td>G280426G060</td>
<td>G280446G060</td>
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</table>

**COOLING PERFORMANCE**

**Nominal:**

**BTU/Hr.:** 4600/4900 4600/4900 4600/4900 6000/6400 6000/6400 5400/6000

**W (50/60 Hz):** 1347/1435 1347/1435 1347/1435 1757/1874 1757/1874 1581/1757

**At 131 F/131 C:**

**BTU/Hr. (50/60 Hz):** 4600/4900 4600/4900 4600/4900 6000/6400 6000/6400 5400/6000

**W (50/60 Hz):** 1347/1435 1347/1435 1347/1435 1757/1874 1757/1874 1581/1757

**At 95 F/95 C:**

**BTU/Hr. (50/60 Hz):** 4300/4600 4300/4600 4324/4655 5600/6000 5600/6000 5054/5685

**W (50/60 Hz):** 1260/1364 1260/1364 1267/1364 1641/1758 1641/1758 1481/1666

**Nominal Refrigerant:** R407C R407C R134A R407C R407C R134A

**Refrigerant Charge (ounces/grams):** 20/567 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.):** 189/321 189/321 189/321 189/321 189/321 189/321

**External loop 50 Hz (CFM / m³/hr.):** 291/494 291/494 291/494 291/494 291/494 291/494

**Internal loop 60 Hz (CFM / m³/hr.):** 221/375 221/375 221/375 221/375 221/375 221/375

**External loop 60 Hz (CFM / m³/hr.):** 300/509 300/509 300/509 300/509 300/509 300/509


**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 (W at 50/60 Hz):** 1138.5/1311 1058/1334 680/874 1138.5/1311 1058/1334 680/874

**Max. Nominal Current (A at 50/60 Hz):** 9.9/11.4 4.6/5.8 1.7/1.9 9.9/11.4 4.6/5.8 1.7/1.9

**Starting Current (A):** 36.2 17.7 7.7 36.2 17.7 7.7

**Agency Approvals:** cUL Listed CE GOST

**POWER INPUT DESCRIPTION**

**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 80/27 80/27 80/27 80/27 80/27

**SOUND LEVEL**

**At 1.5 Meters:** 65dB(A)

**UNIT CONSTRUCTION**

**Material:** Galvanized Sheet Metal Standard (Optional: Stainless Steel)

**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**

**Height (in./mm):** 28.55/725.1

**Width (in./mm):** 16.97/431.1

**Depth (in./mm):** 10.10/256.6

**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, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.*
Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)

G28-0416-GXXX Capacity Curves at 50 Hz

G28-0416-GXXX Capacity Curves at 60 Hz
Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)

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

G28-0426-GXXX Capacity Curves at 50 Hz Without Air Filter
Performance Curves for G28 Models 4000 BTU/Hr. (1347/1435 Watt)

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

G28-0446-GXXX- Capacity Curves at 60 Hz; Without Filter
Performance Curves for G28 Models 4000/6000 BTU/Hr. (1172/1758 Watt)

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
Performance Curves for G28 Models 6000 BTU/Hr. (1758 Watt)

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

<table>
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<th>Ambient Air In (°C)</th>
<th>Cooling Capacity (BTU/Hr.)</th>
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<tbody>
<tr>
<td>25</td>
<td>586</td>
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<tr>
<td>35</td>
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<td>45</td>
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<td>131</td>
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**G28-0646-GXXX Performance Curve 460VAC/60Hz Without Air Filter**

<table>
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<th>Ambient Air In (°C)</th>
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<th>Ambient Air In (°F)</th>
<th>Cooling Capacity (W)</th>
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<td>131</td>
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</table>
G28 Models 4000 BTU/Hr. 115 V (1172 Watt)

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

Visit www.HoffmanOnline.com to download 2D and 3D CAD drawings into the overall design of your electronic system.
Visit www.HoffmanOnline.com to download 2D and 3D CAD drawings into the overall design of your electronic system.
G28 Models 4000 BTU/Hr. 115 V (1172 Watt) Partial Recess

Visit www.HoffmanOnline.com to download 2D and 3D CAD drawings into the overall design of your electronic system.
Visit www.HoffmanOnline.com to download 2D and 3D CAD drawings into the overall design of your electronic system.
### Performance Data  **G52 Models 8000/12000 BTU/Hr. (2300/3500 Watt)**

<table>
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#### COOLING PERFORMANCE

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<th>Nominal:</th>
<th>BTU/Hr.</th>
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<td>3500</td>
<td>12000/12500</td>
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<td>3500</td>
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<th>Stainless Steel Type 4X</th>
<th>Partial Recessed</th>
<th>With Heat Pkg.</th>
<th>Stainless Steel Type 4X</th>
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#### ELECTRICAL DATA

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<tr>
<td>115</td>
<td>50/60</td>
<td>+/- 10%</td>
<td>1250/1415</td>
<td>11.2/12.3</td>
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#### UNIT CONSTRUCTION

<table>
<thead>
<tr>
<th>Material</th>
<th>Galvanized sheet metal standard</th>
<th>Stainless steel optional</th>
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<tr>
<td>Finish</td>
<td>RAL 7035 light-gray, semi-textured powder-coat paint standard</td>
<td>Other colors available</td>
</tr>
</tbody>
</table>

#### ACCESSORIES

- **Cleanable Re-usable Filter**: Aluminum mesh Part #101000103
- **EASTSWAP Adaptor Plenum (GENESIS M52)** Enables SPECTRACOOL to be mounted to a GENESIS M52 air conditioner cutout Catalog Number PLM52052
- **UNIVERSAL 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 **128/58.1 138/62.6 138/62.6 138/62.6 138/62.6 138/62.6**

**Notes:**
- *Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.
- **Watts based on .65 power factor.
Performance Curves for G52 Models 8000 BTU/Hr. (23 Watt)

G52-08(1/2)-GXXX Capacity Curves at 50 Hz

Ambient Air In (°C)

Ambient Air In (°F)

Cooling Capacity (BTU/Hr.)

Cooling Capacity (W)

G52-08(1/2)-GXXX Capacity Curves at 60 Hz

Ambient Air In (°C)

Ambient Air In (°F)

Cooling Capacity (BTU/Hr.)

Cooling Capacity (W)
Performance Curves for G52 Models 8000 BTU/Hr. (2300 Watt)

GS2-0846-GXXX Capacity Curves at 50 Hz

Ambient Air In (°C)

Cooling Capacity (BTU/Hr.)

0 3000 6000 9000 12000 15000

0 68 77 86 95 104 113 122 131

Ambient Air In (°F)

Cooling Capacity (W)

0 879 1758 2637 3516 4395

GS2-0846-GXXX Capacity Curves at 60 Hz

Ambient Air In (°C)

Cooling Capacity (BTU/Hr.)

0 3000 6000 9000 12000 15000

0 68 77 86 95 104 113 122 131

Ambient Air In (°F)

Cooling Capacity (W)

0 879 1758 2637 3516 4395

Enclosure Air Temperature

68 77 86 95 104 113 122 131

25 C 77 F

35 C 95 F

45 C 113 F

55 C 131 F
Performance Curves for G52 Models 12000 BTU/Hr. (3500 Watt)

<table>
<thead>
<tr>
<th>Ambient Air In (°C)</th>
<th>Cooling Capacity (BTU/Hr.)</th>
<th>Ambient Air In (°F)</th>
<th>Cooling Capacity (W)</th>
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</thead>
<tbody>
<tr>
<td>55 C 131 F</td>
<td>5860</td>
<td>122 221</td>
<td>1172</td>
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<td>45 C 113 F</td>
<td>4688</td>
<td>131 269</td>
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<tr>
<td>35 C 95 F</td>
<td>3516</td>
<td>122 221</td>
<td>2344</td>
</tr>
<tr>
<td>25 C 77 F</td>
<td>2344</td>
<td>113 237</td>
<td>1172</td>
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<tr>
<td>20 30 40 50</td>
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<td>95 206</td>
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<tr>
<td>68 77 86 95 104</td>
<td>1172</td>
<td>68 77 86 95 104</td>
<td>1172</td>
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GS2-12(1/2)6-GXXX Capacity Curve 50 Hz

GS2-12(1/2)6-GXXX Capacity Curve 60 Hz
Performance Curves for G52 Models 12000 BTU/Hr. (3516 Watt)

G52-1246-GXXX Capacity Curve 50 Hz

G52-1246-GXXX Capacity Curve 60 Hz
G52 Models 8000/12000 BTU/Hr. (2300/3500 Watt)

NOTE:
1. MOUNTING GASKET SUPPLIED (NOT SHOWN)
2. UNITS: in. [mm]
G52 Models 8000/12000 BTU/Hr. (2344/3516 Watt) with Partial Recess

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

Visit www.HoffmanOnline.com to download 2D and 3D CAD drawings into the overall design of your electronic system.
Performance Data  G57 Models 20000 BTU/Hr. (5861 Watt)

**CATALOG NUMBER**

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<th>Indoor Model</th>
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<tr>
<td>Indoor Model with Remote Access Control*</td>
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<td>Outdoor Model without Heat Pkg.</td>
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<td>Outdoor Model Partial Recessed Mount</td>
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<tr>
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**COOLING PERFORMANCE**

Nominal:

- **BTU/Hr.**: 20000
- **Watts**: 5861

At 131 F/131 F (55 C/55 C):

- **BTU/Hr. (50/60 Hz)**: 17500/19600
- **W (50/60 Hz)**: 5129/5744

At 95 F/95 F (35 C/35 C):

- **BTU/Hr. (50/60 Hz)**: 16000/18000
- **W (50/60 Hz)**: 4689/5275

Refrigerant: R407c

Refrigerant Charge (ounces/grams): 50/1417

Operating Temperature Range:

- **Maximum (ºF/ºC)**: 131/55
- **Indoor Minimum (ºF/ºC)**: 50/10
- **Outdoor Minimum (ºF/ºC)**: -40/-40

Airflow at 0 Static Pressure:

- **Internal loop 50 Hz (CFM / m³/hr.)**: 513/872
- **External loop 50 Hz (CFM / m³/hr.)**: 919/1562
- **Internal loop 60 Hz (CFM / m³/hr.)**: 587/998
- **External loop 60 Hz (CFM / m³/hr.)**: 1055/1794

Max. Heater W (Outdoor Models): 3000

**ELECTRICAL DATA**

- **Rated Voltage**: 230/230
- **Frequency (Hz)**: 50/60
- **Operating Range**: +/- 10%
- **Max. Power Consumption (W at 50/60 Hz)**: 4508/5106
- **Max. Nominal Current (A at 50/60 Hz)**: 19.6/22.2
- **Starting Current (A)**: 63

Agency Approvals: cUL Listed

- **CE**
- **GOST**
- Others available upon request

**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
- **Factory Thermostat Setting (ºF/ºC)**: 80/27

**SOUND LEVEL**

At 1.5 Meters: 74.1 dB(A)

**UNIT CONSTRUCTION**

- **Material**: Galvanized sheet metal standard
- **Finish**: RAL 7035 light-gray, semi-textured powder-coat paint standard

**ACCESSORIES**

Cleanable Re-usable Filter: Aluminum mesh part #101000103 BA

EASYSWAP Adaptor Plenum (T-Series T53): Enables SPECTRACOOL to be mounted to a T-Series T53 air conditioner cutout part #577216015P

**UNIT DIMENSIONS**

- **Height (in./mm)**: 57.69/1465.4
- **Width (in./mm)**: 20.87/530.1
- **Depth (in./mm)**: 15.28/388.1
- **Weight (lb./kg)**: 19/8.9

*Units with Remote Access Control utilize a digital controller and communicate via EtherNet/IP, Modbus TCP/IP and SNMP over ethernet or modbus RTU over USB.*
Performance Curves for G57 Models 20000 BTU/Hr.

G57-2026-GXXX Capacity Curves at 50 Hz

G57-2026-GXXX Capacity Curves at 60 Hz
Performance Curves for G57 Models 20000 BTU/Hr.

G57-2046-GXXX Capacity Curves at 50 Hz

G57-2046-GXXX Capacity Curves at 60 Hz
G57 Models 20000 BTU/Hr. (5861 Watt)

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

Visit www.HoffmanOnline.com to download 2D and 3D CAD drawings into the overall design of your electronic system.
G57 Models 20000 BTU/Hr. (5861 Watt) With Partial Recess

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

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