G52 Indoor/Outdoor Base Models

G52 Indoor Model
8000 BTU/Hr.
2300 Watts

G52 Outdoor Model
12000 BTU/Hr.
3500 Watts

Industry Standards

UL/cUL Listed Type 12, 3R, 4: 4X optional

CE
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
• R134a earth-friendly refrigerant and RoHS compliant
• Models for 115, 230 and 400/460 3-phase AC volt 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
• Exterior and partial 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
• 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® and T-Series air conditioners, enabling users to easily transition to the new unit
• Cleanable, reusable aluminum mesh filter to protect 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
  - 2000 W enclosure heater

Specifications

• Nominal cooling capacity 8000 & 12000 BTUs/Hr. (2344 and 3516 W)
• R134a earth-friendly refrigerant and RoHS compliant
• 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.
### CATALOG NUMBER

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### COOLING PERFORMANCE

#### Nominal:

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

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

- **BTUs/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/95 F (35 C/35 C):

- **BTUs/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

#### Operating Temperature Range:

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

#### 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, 635/1104, 635/1104, 635/1104
- **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
- **Operating Range**: ±10%
- **Max. Power Consumption (W)**: 1250/1415, 806/957*, 2100/2427, 1830/2130, 910/1106*
- **Starting Current (A)**: 48, 27, 16, 57, 38, 16
- **Agency Approvals**: cUL Listed, CE
- **Power Input Description**: 
  - 10-ft. cord with IEC connection at unit and NEMA 5-15 plug
  - 10-ft. cord with IEC connection at unit and NEMA 6-15 plug
  - Terminal block
  - 10-ft. cord with IEC connection at unit and NEMA 5-30 plug
  - 10-ft. cord with IEC connection at unit and NEMA 6-15 plug

### ENCLOSURE PROTECTION

- **UL Type**: Type 12/3R/4 standard
- **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
- **Outdoor 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

- **Cleanable Re-usable Filter**: Aluminum mesh, Part #10-1000-102
- **Indoor Cutout Adapter**: Enables SPECTRACOOL to be mounted to a GENESIS M52 air conditioner cutout, Part #52-6216-01
- **Outdoor Cutout Adapter**: Enables SPECTRACOOL to be mounted to a T-Series T50 air conditioner cutout, Part #52-6216-03

### 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

*Watts based on .65 power factor.*
Performance Curves for G52 Models 8000 BTU/Hr. (2344 Watt)
Performance Curves for G52 Models 8000 BTU/Hr. (2300 Watt)
Performance Curves for G52 Models 12000 BTU/Hr. (3500 Watt)
Performance Curves for G52 Models 12000 BTU/Hr. (3516 Watt)

G52-1246-GXXX Capacity Curve 50 Hz
Return Air Temp (°C)

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

Cleanable, reusable aluminum inlet filter behind removable panel

Access hole to 3/8 in. O.D. Drain Stub

Mounting Cutout Dimensions (Standard)

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GS2 Models 8000/12000 BTU/Hr. (2344/3516 Watt) With Partial Recess

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