

## LM Series Chiller, Centrifugal Pump



LM-6G

### Key Specifications

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| Description                           | LM Series 1/3 HP Benchtop Chiller, Centrifugal Pump;<br>5.1 psi; 7.9 l/min |
| Display                               | LED                                                                        |
| Connectivity                          | Optional: RS232                                                            |
| Working Temperature<br>Range °C       | -10° to 30°                                                                |
| Temperature Stability °C              | ±0.1°                                                                      |
| Temperature Calibration<br>Capability | 1-point                                                                    |
| Pump Type                             | Centrifugal                                                                |

### Key Features

#### Features

- Optimized for performance at low temperatures
- Ideal for benchtop rotary evaporators
- Large, easy to read LED display
- Space-saving design
- Cooling at ambient temperatures as high as 35°C
- Low flow shutoff and alarm, high and low temperature alarms

- Simple setup, operation, and maintenance
- Choice of two different centrifugal pumps
- Fluid level indicator
- RS232 communication and external water filter optional

### Common Specifications

|                                                          |                        |
|----------------------------------------------------------|------------------------|
| Working Temperature Range °F                             | 14° to 86°             |
| Working Temperature Range °C                             | -10° to 30°            |
| Reservoir Capacity (gallons)                             | 0.7                    |
| Reservoir Capacity (liters)                              | 2.65                   |
| Reservoir Cover                                          | Screw-on Cap           |
| Cleanable Air Filter                                     | Yes                    |
| Temperature Stability °F                                 | ±0.2°                  |
| Temperature Stability °C                                 | ±0.1°                  |
| Display                                                  | LED                    |
| Pump Type                                                | Centrifugal            |
| Pump Speed                                               | Constant, Single Speed |
| Process Connections                                      | 1/2" (F) NPT           |
| Over-Temperature Protection /<br>Failsafe Heater Control | Yes                    |
| Reservoir Liquid Level Indicator                         | Yes                    |
| Cool Command Refrigeration<br>Technology                 | Yes                    |
| Reservoir Drain                                          | Yes                    |
| Maximum Ambient Temperature °F                           | 95°                    |
| Maximum Ambient Temperature °C                           | 35°                    |
| Overall Dimensions (L x W x H)<br>(inches)               | 20 x 10 x 19 in        |
| Overall Dimensions (L x W x H) (cm)                      | 50.8 x 25.4 x 48.3 cm  |
| Compressor Size (HP)                                     | 1/3                    |
| Refrigerant                                              | R404A                  |
| Shipping Weight (pounds)                                 | 75.0                   |
| Shipping Weight (kilograms)                              | 34.5                   |
| Catalog Page Number                                      | 100                    |

### 60 Hz Only

|                                       |                                                                       |
|---------------------------------------|-----------------------------------------------------------------------|
| Part Number                           | LM61GX1A110C                                                          |
| Maximum Pressure (psi)                | 5.1                                                                   |
| Maximum Pressure (bar)                | 0.35                                                                  |
| Maximum Pressure Flow Rate (gpm)      | 2.10                                                                  |
| Maximum Pressure Flow Rate (l/min)    | 7.9                                                                   |
| Cooling Capacity @ -10°C (W)          | 230                                                                   |
| Cooling Capacity @ -5°C (W)           | 295                                                                   |
| Cooling Capacity @ 0°C (W)            | 350                                                                   |
| Cooling Capacity @ +10°C (W)          | 470                                                                   |
| Cooling Capacity @ +20°C (W)          | 560                                                                   |
| Cooling Capacity @ +30°C (W)          | 650                                                                   |
| Included Hardware                     | Two sets of Inlet/Outlet Adapters: ½ inch male NPT, 5/8 inch male NPT |
| Electrical Requirements (VAC/Hz/Ph/A) | 120/60/1/12                                                           |
| Regulatory Approvals                  | TUV                                                                   |

## 50 Hz Only

|                                       |                                                                       |
|---------------------------------------|-----------------------------------------------------------------------|
| Part Number                           | LM62GY1A110E                                                          |
| Maximum Pressure (psi)                | 4.4                                                                   |
| Maximum Pressure (bar)                | 0.30                                                                  |
| Maximum Pressure Flow Rate (gpm)      | 1.80                                                                  |
| Maximum Pressure Flow Rate (l/min)    | 6.8                                                                   |
| Cooling Capacity @ -10°C (W)          | 140                                                                   |
| Cooling Capacity @ -5°C (W)           | 180                                                                   |
| Cooling Capacity @ 0°C (W)            | 250                                                                   |
| Cooling Capacity @ +10°C (W)          | 390                                                                   |
| Cooling Capacity @ +20°C (W)          | 520                                                                   |
| Cooling Capacity @ +30°C (W)          | 600                                                                   |
| Included Hardware                     | Two sets of Inlet/Outlet Adapters: ½ inch male NPT, 5/8 inch male NPT |
| Electrical Requirements (VAC/Hz/Ph/A) | 240/50/1/5                                                            |
| Regulatory Approvals                  | CE                                                                    |

© 2015 **PolyScience** 6600 W. Touhy Avenue, Niles, Illinois 60714-4516 USA

**Phone:** +1(847) 647-0611 or +1(800) 229-7569 **Fax:** +1(847) 647-1155

**Source URL (modified on 01/23/2017 - 16:51):** <https://www.polyscience.com/chillers/lm-series-chiller-centrifugal-pump>