

LS Series Chiller, Centrifugal Pump



LS-5M

Key Specifications

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|-------------------------------------------|---------------------------------------------------------------------------|
| Description | LS Series 1/2 HP Benchtop Chiller, Centrifugal Pump; 14.5 psi; 13.2 l/min |
| Display | LED |
| Connectivity | Optional: RS232 |
| Working Temperature Range °C | -20° to 40° |
| Temperature Stability °C | ±0.1° |
| Temperature Calibration Capability | 1-point |
| Pump Type | Centrifugal |

Key Features

Features

- Optimized for high performance at low temperatures
- Capable of cooling multiple rotary evaporators
- WhisperCool® Environmental Control System
- Large, easy to read LED display
- Space-saving design
- Cooling at ambient temperatures as high as 30°C

- Low flow shutoff and alarm, high and low temperature alarms
- Simple setup, operation, and maintenance
- Centrifugal or turbine pump
- Fluid level indicator
- RS232 communication and external water filter optional

Common Specifications

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|--------------------------------------------------------------|------------------------|
| Working Temperature Range °F | -4° to 104° |
| Working Temperature Range °C | -20° to 40° |
| 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 / Failsafe Heater Control | Yes |
| Reservoir Liquid Level Indicator | Yes |
| WhisperCool Environmental Control Technology | Yes |
| Cool Command Refrigeration Technology | Yes |
| Reservoir Drain | Yes |
| Maximum Ambient Temperature °F | 95° |
| Maximum Ambient Temperature °C | 35° |
| Overall Dimensions (L x W x H) (inches) | 23.9 x 10 x 19 in |
| Overall Dimensions (L x W x H) (cm) | 60.7 x 25.4 x 48.3 cm |
| Compressor Size (HP) | 1/2 |
| Refrigerant | R452A |
| Shipping Weight (pounds) | 102.0 |
| Shipping Weight (kilograms) | 46.3 |
| Catalog Page Number | 98-99 |

60 Hz Only

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|-------------------------------------------|--------------|
| Part Number | LS51MX1A110C |
| Maximum Pressure (psi) | 14.5 |
| Maximum Pressure (bar) | 1.00 |
| Maximum Pressure Flow Rate (gpm) | 3.50 |
| Maximum Pressure Flow Rate (l/min) | 13.2 |
| Cooling Capacity @ -20°C (W) | 260 |

| | |
|----------------------------------------------|-----------------------------------------------------------------------|
| Cooling Capacity @ -10°C (W) | 475 |
| Cooling Capacity @ -5°C (W) | 600 |
| Cooling Capacity @ 0°C (W) | 750 |
| Cooling Capacity @ +10°C (W) | 1130 |
| Cooling Capacity @ +20°C (W) | 1290 |
| Cooling Capacity @ +30°C (W) | 1460 |
| Cooling Capacity @ +40°C (W) | 1610 |
| 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

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|----------------------------------------------|-----------------------------------------------------------------------|
| Part Number | LS52MY1A110E |
| Maximum Pressure (psi) | 10.5 |
| Maximum Pressure (bar) | 0.72 |
| Maximum Pressure Flow Rate (gpm) | 3.10 |
| Maximum Pressure Flow Rate (l/min) | 11.7 |
| Cooling Capacity @ -20°C (W) | 240 |
| Cooling Capacity @ -10°C (W) | 460 |
| Cooling Capacity @ -5°C (W) | 560 |
| Cooling Capacity @ 0°C (W) | 700 |
| Cooling Capacity @ +10°C (W) | 1070 |
| Cooling Capacity @ +20°C (W) | 1190 |
| Cooling Capacity @ +30°C (W) | 1420 |
| Cooling Capacity @ +40°C (W) | 1580 |
| Included Hardware | Two sets of Inlet/Outlet Adapters: ½ inch male NPT, 5/8 inch male NPT |
| Electrical Requirements (VAC/Hz/Ph/A) | 240/50/1/6 |
| Regulatory Approvals | CE |



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