

LS Series Chiller, Centrifugal Pump



LS-5M

Key Specifications

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 35°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

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	R404A
Shipping Weight (pounds)	102.0
Shipping Weight (kilograms)	46.3

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60 Hz Only

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

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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