

LS Series Chiller, Turbine Pump



LS-5T

Key Specifications

Description	LS Series 1/2 HP Benchtop Chiller, Turbine Pump; 43.4 psi; 9.8 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	Turbine

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	Turbine
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	LS51TX1A110C
Maximum Pressure (psi)	43.4
Maximum Pressure (bar)	3.00
Maximum Pressure Flow Rate (gpm)	2.60
Maximum Pressure Flow Rate (l/min)	9.8
Cooling Capacity @ -20°C (W)	150
Cooling Capacity @ -10°C (W)	345
Cooling Capacity @ -5°C (W)	395
Cooling Capacity @ 0°C (W)	540
Cooling Capacity @ +10°C (W)	790
Cooling Capacity @ +20°C (W)	900
Cooling Capacity @ +30°C (W)	1020
Cooling Capacity @ +40°C (W)	1140
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	LS52TY1A110E
Maximum Pressure (psi)	32.0
Maximum Pressure (bar)	2.20
Maximum Pressure Flow Rate (gpm)	2.20
Maximum Pressure Flow Rate (l/min)	8.3
Cooling Capacity @ -20°C (W)	140
Cooling Capacity @ -10°C (W)	330
Cooling Capacity @ -5°C (W)	370
Cooling Capacity @ 0°C (W)	500
Cooling Capacity @ +10°C (W)	750
Cooling Capacity @ +20°C (W)	830
Cooling Capacity @ +30°C (W)	990

Cooling Capacity @ +40°C (W)	1105
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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