PROVAC SALES
PHONE: 831-462-8900 FAX: 831-462-3536 WWW.PROVAC.COM

PolyScience LS Benchtop Chiller

Technical Specifications

LS51/LS53 60Hz Compact Chiller

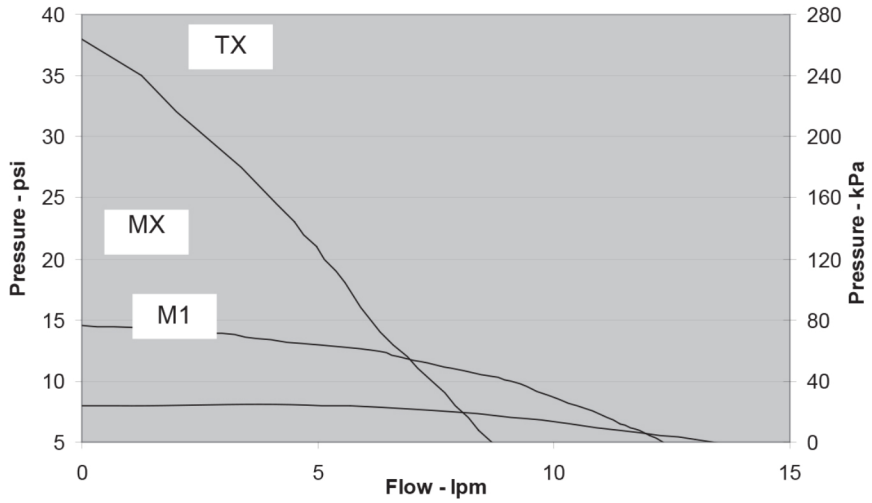
Performance 120/230V, 60Hz

Working temperature range [1]	-20° to +40°C / -4° to +104°F
Operating temperature range [2]	-20° to +60°C / -4° to +140°F
Temperature Stability	±0.1°C (±0.18°F)
Cooling capacity	Ethylene Glycol & Water (50/50 mix)

Pump	MX Centrifugal		M1 Centrifugal		TX Turbine		
@	Watts	BTU/Hr	Watts	BTU/Hr	@	Watts	BTU/Hr
-20°C	260	888	230	785	-20°C	150	512
-10°C	475	1622	435	1486	-10°C	345	1178
0°C	750	2561	680	2322	0°C	540	1844
+10°C	1130	3859	1030	3518	+10°C	790	2698
+20°C	1290	4406	1160	3962	+20°C	900	3074
+30°C	1460	4986	1380	4713	+30°C	1020	3483
+40°C	1610	5498	1550	5294	+40°C	1140	3893

1. The temperature that the chiller can reach without an external heating or cooling source.
2. The temperature range in which the chiller can control temperature, limited by electronics.

Pump option	MX - Centrifugal	M1 - Centrifugal	TX - Turbine
Maximum Flow	13.2 lpm / 3.5 gpm	14.8 lpm / 3.9 gpm	9.8 lpm / 2.6 gpm
Maximum Pressure	14.5 psi / 0.99 bar	9 psi / 0.62 bar	43.4 psi / 2.99 bar
Maximum Head	10.2 m / 33.5 ft H_2O	5.6 m / 18.5 ft H_2O	26.75 m / 87.8 ft H_2O



Performance data based on 120V or 230V, 60hz input power, 20°C ambient temperature and a 50/50 mix of Ethylene Glycol and distilled water as coolant.

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Features & Benefits

- 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 & alarm, high & low temperature alarms
- simple setup, operation, & maintenance
- centrifugal or turbine pump
- fluid level indicator
- RS232 communication & external water filter optional