

TLC-900 Liquid Chiller

Air Cooled
Bench Top

120/240 VAC and 24 VDC Input

STANDARD FEATURES

- 90-265 VAC universal integrated power supply
- Heats and cools
- 1 Liter un-cooled reservoir
- Low pressure drop 3/8 I.D. fluid quick connects
- Variable fan speed for quieter operation
- User-friendly front-fill design
- Easy prime/pump reset feature
- Wide process fluid temperature range
- Multiport bottom to top air-flow for easier bench use
- Hardwired over-temperature protection
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation

CONTROL FEATURES

- Integral PID "tunable" temperature control
- One shot smart PID control tuning or Adaptive Smart Continuous Tuning
- Internal RTD sensor
- Remote Sensibility™ switch selectable exterior sensor
- Multi-segment ramp and soak programs
- RS-232 communications standard includes EzLog® software for easy programming, tuning and charting
- Low fluid level and low flow warning
- Process fluid "out of temperature range" warning
- No flow system shut down
- Optional software iTools®, OPC Server



PUMP OPTIONS

- Option #1 - Standard Magnetic Drive, Can Pump, 0 to 50 °C process temperature
- Option #2 - Low Temperature Magnetic Drive, Impeller Pump, -20 to 90 °C process temperature
- Option #3 - Gear pump, 3.75 Liter/Min, -20 to 90 °C process temperature
- Option #4 - High Flow Magnetic Drive, Can Pump, 0 to 50 °C process temperature

SPECIFICATIONS

MODEL	PART NUMBER	PUMP OPTION	PERFORMANCE RATING BTU/HR	VOLTAGE VAC 50/60 HZ	CURRENT AMPS.	WEIGHT LBS. (KG)	MAX OPERATING AMBIENT	FLUID TEMP. RANGE °C
TLC-900	6-E4EB-1-0A1	1	1050-1100	100-240	3.5	42 (19)	50 °C (+122 F)	0 to 50
TLC-900	6-E5EB-1-0A1	1	1260-1330	100-240	4.0	42 (19)	50 °C (+122 F)	0 to 50
TLC-900	6-E4EB-1-0A2	2	1050-1100	100-240	3.5	42 (19)	50 °C (+122 F)	-20 to 90
TLC-900	6-E5EB-1-0A2	2	1260-1330	100-240	4.0	42 (19)	50 °C (+122 F)	-20 to 90
TLC-900	6-E4EB-1-0A3	3	1050-1100	100-240	3.5	42 (19)	50 °C (+122 F)	-20 to 90
TLC-900	6-E5EB-1-0A3	3	1260-1330	100-240	4.0	42 (19)	50 °C (+122 F)	-20 to 90
TLC-900	6-E4EB-1-0A4	4	1050-1100	100-240	3.5	42 (19)	50 °C (+122 F)	0 to 50
TLC-900	6-E5EB-1-0A4	4	1260-1330	100-240	4.0	42 (19)	50 °C (+122 F)	0 to 50
TLC-900	6-E4E5-1-0A1	1	1050-1100	24 VDC	22	42 (19)	50 °C (+122 F)	0 to 50
TLC-900	6-E4E5-1-0A2	2	1050-1100	24 VDC	22	42 (19)	50 °C (+122 F)	-20 to 90
TLC-900	6-E4E5-1-0A3	3	1050-1100	24 VDC	22	42 (19)	50 °C (+122 F)	-20 to 9
TLC-900	6-E4E5-1-0A4	4	1050-1100	24 VDC	22	42 (19)	50 °C (+122 F)	0 to 50

TLC-900

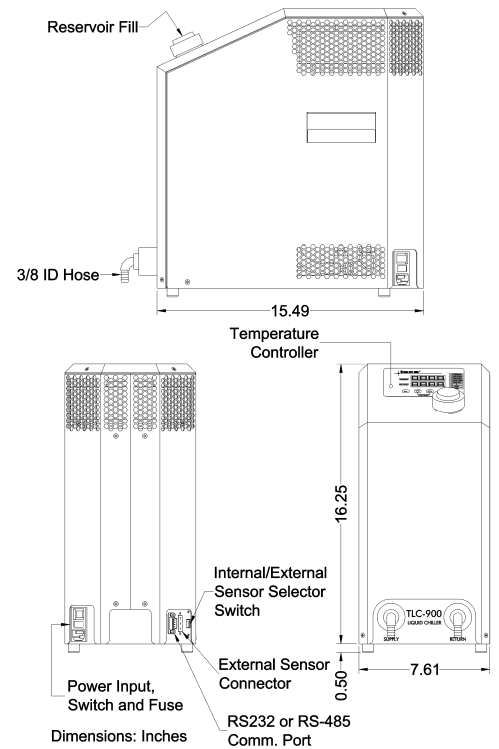
ENVIRONMENTS

- Bench top
- Laboratory
- Industrial

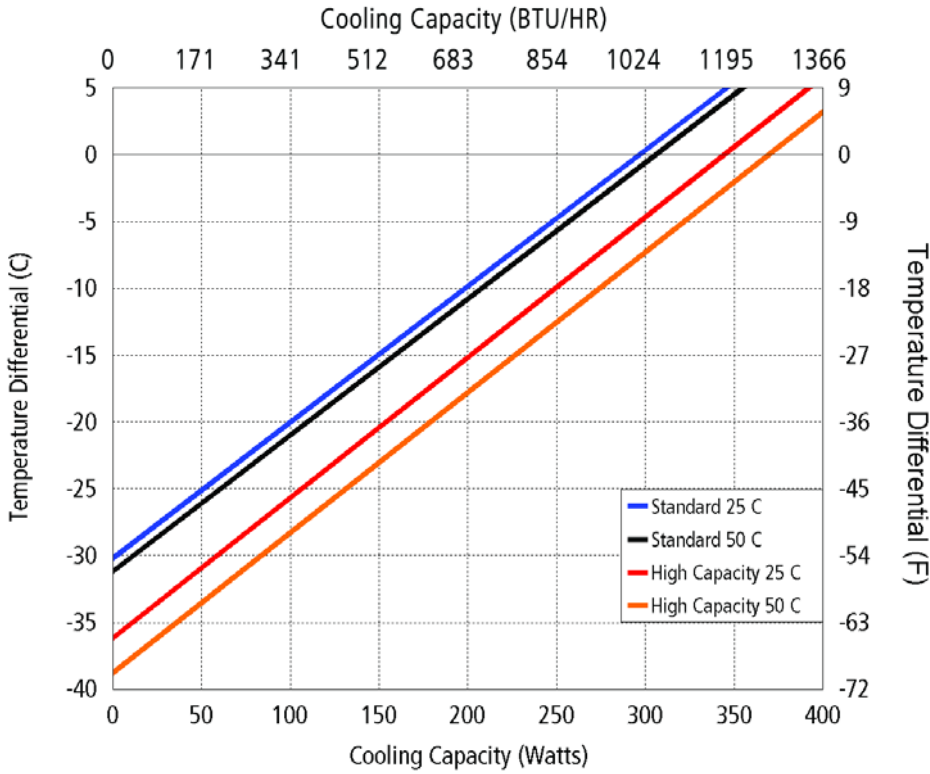
COOLING CAPACITY

- 310 Watts @ 0 °C ΔT (standard)
- 360 Watts @ 0 °C ΔT (high capacity)

DIMENSIONS



PERFORMANCE CURVE



Equation of line: $y = \Delta T(^{\circ}C)$ $x = \text{Capacity (Watts)}$		
Ambient Temp	25°C	50°C
Standard	$y = .102x - 30.3$	$y = .102x - 31.2$
High Capacity	$y = .105x - 36.2$	$y = .105x - 38.7$

PUMP CURVE

