

LASERtech

The Power to Save Energy.



LASER COOLING UNIT



Lasertech challenges four major issues in a laser machine cooling system;

- Providing two different temperatures to cool resonator and laser heat exchanger.
- Precision of the water temperature $\pm 1^{\circ}\text{C}$
- The compatibility of the hydraulic circuit with very low conductivity water.
- Deionization of the water

Whether it is for CO₂ lasers, or fiber lasers, Lasertech is the correct choice. When it comes to precise temperature control for your resonator and optics, Lasertech has a complete line of industrial laser chillers to meet your requirements.

- Precise cooling for the resonator and optics circuit
- Single or Dual temperature for resonator and optic circuits.
- Cooling range from 0,8 kW to 116 kW
- Stainless Steel circuit design
- Conductivity Measurement
- Deionization filtering system optional
- Dual Pump Configuration
- PLC touch pad control
- Setpoint regulation based on return water temperature
- R-410 gas standart and R-134 for hot climates
- Modbus communication interface between Lasertech & your machine
- Customizable to meet your specific requirement



LST 6

Technical specifications

LTC MODEL	MINI									MIDI				
	LTC 1	LTC 1,5	LTC 2	LTC 3	LTC 6	LTC 10	LTC 18	LTC 25	LTC 30	LTC 40	LTC 50	LTC 61	LTC 80	LTC 104
Cooling Capacity (kcal/h)	1.000	1.500	2.000	3.000	6.000	10.000	18.000	25.000	30.000	40.000	50.000	61.000	80.000	104.000
	Compressor													
Type	1	1	1	1	1	1	1	1	1	2	2	2	2	2
n°	Piston				Scroll					Scroll				
Absorbed Power (Kw)	0,4	0,5	0,8	1	1,4	1,92	3,24	4,3	5,9	6,48	8,78	12,3	15,3	19,3
	Fan													
n°	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Power	100	100	100	180	180	220	220	680	1100	1800	1800	1800	3600	3600
Diameter (mm)	300	300	300	450	180	500	500	630	710	800	800	800	800	800
	Water Pump													
Power (Hp)	0,5	0,5	0,5	0,5	0,5	1	1	1	2	2	3	3	4	4
Maksimum Flow (lt/min.)	40	40	40	40	40	100	100	100	220	220	240	240	450	450
Maksimum Pressure (bar)	3,8	3,8	3,8	3,8	3,8	3,3	3,3	3,3	3,3	3,3	3,3	3,3	3,3	3,3
	Water Tank													
Liter	15	15	25	70	70	70	120	130	200	200	200	350	350	350
Pipe connections	1/2"+ 1/2"	1/2"+ 1/2"	1" - 1"	1" - 1"	1" - 1"	1" - 1"	1" - 1"	1" - 1"	2" - 1"	2" - 1"	2" - 1"	2" - 1"	2" - 2"	2" - 2"
	Dimensions													
Lenght (mm)	550	550	600	1010	1010	1010	1010	1400	1400	2000	2000	2000	2650	2650
Width (mm)	480	480	480	670	670	670	670	850	850	1050	1050	1050	1375	1375
Height (mm)	800	800	890	1130	1130	1130	1300	1600	1600	1950	1950	1950	2000	2000
Weight (kg)	45	45	60	80	110	190	225	260	400	450	470	650	900	1100