

Wavelength Electronics TC LAB Series | Competitors Comparison

Specification	TC10 LAB	TC15 LAB	Competitor 1	Competitor 2	Competitor 3	Competitor 4	Units
General							
Size	226 x 450 x 89	226 x 450 x 89	215 x 305 x 90	185 x 305 x 89	263 x 122 x 307	230 x 450 x 90	mm
Weight	3.36	3.36	3.4	4.5	5.3	-	kg
Physical Interface	Touchscreen	Touchscreen	Display	Display	Display	Touchscreen	
Remote Interface	USB Ethernet	USB Ethernet	USB RS232	GPIB, RS232	USB	USB	
Calibration Interval	2	2	-	1	2	-	Years
Price	\$3,999	\$4,779	\$5,209	\$6,360	\$4,380	\$4,720	USD
Temperature Controller							
TEC Current Max	10	15	10	10	15	6	A
TEC Compliance Voltage	15	20	12	12	15	18	V
TEC Output Power Max	150	300	120	120	225	40	W
Short Term Stability (1hr)	0.0009	0.0009	0.004	0.005	-	0.0002	°C
Long Term Stability (24hr)	0.002	0.002	0.01	0.005	0.002	-	°C
Temperature Control Range	-99 to +250	-99 to +250	-99 to +250	-50 to +250	-55 to +150	-20 to +150	°C
IntelliTune® or AutoTune	IntelliTune®	IntelliTune®	AutoTune	AutoTune	AutoTune	AutoTune	

Additional Features:

Feature	TC10 LAB	TC10 LAB	Competitor 1	Competitor 2	Competitor 3	Competitor 4
Benchtop Instrument	✓	✓	✓	✓	✓	✓
Intuitive Touchscreen Display	✓	✓	✗	✗	✗	✓
IntelliTune® PID Temperature Control	✓	✓	✗	✗	✗	✗
Complete Command Set for Remote Capabilities	✓	✓	✓	✓	✓	✓
Recalibration Service	✓	✓	✗	✓	✓	✗
Adjustable TEC Current Limits	✓	✓	✓	✓	✓	✓
Open and Short Detection and Shutoffs	✓	✓	✓	✓	✓	✗
Compatible with Thermistors	✓	✓	✓	✓	✓	✓
Compatible with RTDs	✓	✓	✓	✓	✓	✓
Compatible with Linear Voltage or Current Sensors	✓	✓	✓	✓	✓	✓
Shutdown Signal to QCL/Laser Diode Load (over/under temp)	✓	✓	✗	✗	✓	✗
Automatic Temperature Scan Function	✓	✓	✗	✗	✗	✗
Field Upgradeable Firmware	✓	✓	✓	✗	✓	✓
Save & Recall Functions	✓	✓	✓	✓	✓	✓
CE Compliant	✓	✓	✓	✓	✓	✓
Optional Rack Mount Kit	✓	✓	✓	✓	✗	✗

*Information gathered from online specifications and manuals