

CSL Thermal and Gradient Thermal Cyclers

- ◆ Multiple program options and reaction formats provide **exceptional flexibility**
- ◆ Gradient model has four quick change block options for 0.2ml & 0.5ml tubes, 96 & 384 well plates and slides
- ◆ Low price and wide range of features provide **superior value** for any laboratory
- ◆ Easy-to-read touchscreen for **single-screen programming** of entire protocol
- ◆ Heated lid allows **complete sealing** of plates, tubes and slide chambers
- ◆ Large **on-screen** display shows program content and progress at a glance
- ◆ **Small footprint** saves laboratory bench space



Cleaver Scientific TC and GTC cyclers are small, reliable, flexible and economical. Featuring large touch-screen interfaces for intuitive easy programming and heated lids that effectively seal and reduce condensation in the sample vessel.

Stage	Cycle	Step	Temp	Time	Options
1	1	1	95	1:00	▲
2	30	1	95	0:30	
		2	55	0:30	
3	1	1	72	0:10	
		2	72	0:30	
4	1	1	4	Hold	▼

Press scroll to view more

Program Pref. Add Delete Save As



The TC32/80 model is the most cost-effective, non gradient option for a powerful, high-performance cycler for all your standard laboratory needs.

Added convenience is provided by a combiblock for 0.5ml tubes or 0.2ml tubes.

Offering unsurpassed flexibility, the GTC series of Gradient Thermal Cyclers offers four interchangeable blocks for use with 0.2 ml and 0.5 ml tubes, 96-well and 384-well plates, and slides. A gradient of 20° C can be programmed across the tube and 96-well plate blocks. An optional printer allows easy recording of experimental protocols in laboratory notebooks.



Thermal Cycler Specifications

Sample Blocks	TC32/80	GTC Series
Capacity	CombiBlock: 80 x 0.2 ml tubes or 32 x 0.5 ml tubes	0.2 ml Gradient Block: 96 x 0.2 ml tubes or 1x 96-well plate 0.5 ml Gradient Block: 48 x 0.5 ml tubes or 96 x 0.2 ml tubes 384-Well Block: 1x 384-well plate Flat Block: 4 slides
Temperature	4°C – 99°C	
Heating rate	Up to 3°C /sec	
Cooling rate	Up to 2°C /sec	
Uniformity	±0.5°C within 15 sec	±0.4°C within 15 sec
Material	Nickel-plated aluminum	
Heated Lid		
Temperature	105°C	
Pressure	Spring-loaded	Electromechanical adjustment
Programming		
Display/Input	5.7" diag. touchscreen (b&w)	5.7" diag. touchscreen (color)
Number of programs	60	100
Maximum program stages	5	10
Maximum steps per stage	5	7
Gradient software	n/a	20° range from 30°C– 70°C
Max programmed dwell time	Infinite	
Pause function	Yes	
Temp increments/decrements	No	Yes
Time increments/decrements	No	Yes
Auto-restart function	No	Yes
Run "end time" calculation	Yes	
Temperature control options	Block control and simulated tube control	Block control, active tube control, and simulated tube, plate and slide controls
Working Conditions		
Temperature	Ambient (12°C – 32°C)	
Relative humidity	Up to 80%	
Power requirements	550W at 115/230V a.c. +/- 10% and 50/60Hz	
Physical Characteristics		
Dimensions (W x D x H)	10 x 13 x 8" 254 x 30 x 203 mm	
Shipping Weight	26 lbs (11.8 kg)	

Ordering Information

Catalog #	Description
TC32/80	CSL Thermal Cycler with CombiBlock for 0.2ml and 0.5ml tubes
GTC96	CSL Gradient Thermal Cycler with 0.2 ml Gradient Block
GTC48	CSL Gradient Thermal Cycler with 0.5 ml Gradient Block
GTC384	CSL Gradient Thermal Cycler with 384-well block
GTCFB	CSL Gradient Thermal Cycler with Flat Block
TCPR1	Optional Printer for CSL Gradient Thermal Cycler
GB96	0.2 ml Thermal Block for GTC Series Thermal Cycler
GB48	0.5 ml Thermal Block for GTC Series Thermal Cycler
GB384	384-Well Thermal Block for GTC Series Thermal Cycler
GBFB	Flat Block for GTC Series Thermal Cycler