

NEW

# Thermal and Gradient Thermal Cyclers

Cleaver Scientific offer a range of reliable, easy-to-use, flexible and cost-effective thermal cyclers.

CSL Thermal Cyclers and Gradient Thermal Cyclers offer unsurpassed flexibility and ease-of-use. They incorporate a host of features and benefits, such as; large touch-screen control panels for intuitive, easy programming and heated lids that effectively seal and reduce condensation in the sample vessel.

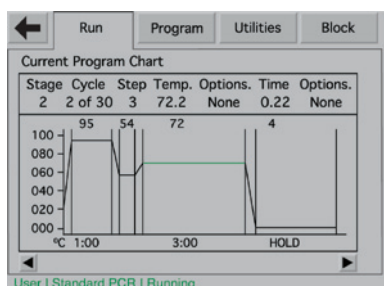
More features, exceptional flexibility, yet easy on your budget.



Very large touch screen displays programme content, progress and status, at-a-glance

Stage	Cycle	Step	Temp.	Options	Time	Options
1	1	1	94.0		1:00	
		1	94.0		0:30	
2	30	2	50-70		0:30	
		3	72.0		0:30	
3	1	1	72.0		5:00	
		2	4.0		HOLD	

Program Pref. Add Delete Print Save as  
User | Standard | Editing



## FEATURES:

- Multiple programme options and reaction formats ensure outstanding flexibility
- Low price combined with numerous features means exceptional value for any laboratory
- Easy-to-read touch screen for single-screen programming of entire protocol
- Heated lid allows complete sealing of plates, tubes and slide chambers
- Gradient model has four quick change block options for 0.2ml or 0.5ml tubes, 96 or 384 well plates and slides
- Compact design means a small footprint saving valuable bench space
- TC32/80 Non gradient economical model option for when microplates or gradient are not required
- TC32/80 includes a combi block for 0.2ml and 0.5ml tubes
- Two Year warranty

Specifications and ordering information overleaf

Sample Blocks	TC32/80	GTC Series
Capacity	<b>CombiBlock:</b> 80 x 0.2 ml tubes or 32 x 0.5 ml tubes	<b>0.2 ml Gradient Block:</b> 96 x 0.2 ml tubes or 1x 96-well plate <b>0.5 ml Gradient Block:</b> 54 x 0.5 ml tubes <b>384-Well Block:</b> 1x 384-well plate <b>Flat Block:</b> 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)	1 260 x 300 x 240 mm	
Shipping Weight	12kg	

#### Ordering Information

Catalogue	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
GTC54	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
TCPRT	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

