

# qLab Thermal Cyclers TCL-1400



## Description

qLab Thermal Cyclers TCL-1400 designed with a 96-well block, with the availability of a gradient function. The most popular block dual 96/96 well block is capable of holding up to 384 well, with each side acting as its own independent thermal cycler, with a programmable thermal gradient for optimizing annealing or denaturing temperatures.

The combination of excellent technical data and an attractive price makes it the right choice for many research and routine laboratories. qLab Thermal Cyclers TCL-1400 accommodates 384 well, and this block are completely independently of each other and without interference. Fabricated with anodizing technology that has prompt heating conducting and adequate corrosion resistance property.

## Technical:

| Model                     | TCL-1100                     | TCL-1200              | TCL-1300  | TCL-1400 |
|---------------------------|------------------------------|-----------------------|-----------|----------|
| Capacity                  | 96×0.2 ml                    | 96×0.2 ml + 77×0.5 ml | 60×0.5 ml | 384 well |
| Display                   | LCD, 8 inch, 800×600 pixels, |                       |           |          |
| Temperature Range         | 0 to 100°                    |                       |           |          |
| Number of Program         | 10000 +(USB FLASH)           |                       |           |          |
| Uniformity                | ± 0.2°                       |                       |           |          |
| Accuracy                  | ± 0.1°                       |                       |           |          |
| Resolution                | 0.1°                         |                       |           |          |
| Number of Cycle           | 100                          |                       |           |          |
| Number of Step            | 30                           |                       |           |          |
| Holding Temperature       | 4°                           |                       |           |          |
| Temperature Control       | Block\Tube                   |                       |           |          |
| Heating Rate              | 4.5°/s                       |                       |           |          |
| Cooling Rate              | 4°/s                         |                       |           |          |
| Ramping Rate Adjustable   | 0.1 to 4.5°                  |                       |           |          |
| Gradient Temp. Range      | 30 to 100°                   |                       |           |          |
| Gradient Uniformity       | ±0.2°                        |                       |           |          |
| Gradient Accuracy         | ±0.2°                        |                       |           |          |
| Gradient Spread           | 1 to 30°                     |                       |           |          |
| Hot Lid Height Adjustable | Step less Adjustable         |                       |           |          |
| Hot Lid Temperature       | 30 to 110°                   |                       |           |          |
| Connectivity              | USB 2.0, LAN                 |                       |           |          |
| Temp Increment/Decrement  | 0.1 to 10.0°                 |                       |           |          |
| Increase/Decrease in Time | 1 Sec to 600 Sec             |                       |           |          |
| Power consumption         | 600 W                        |                       |           |          |
| Overall                   | 390×270×255 mm               |                       |           |          |

|                           |                              |                      |           |           |
|---------------------------|------------------------------|----------------------|-----------|-----------|
| Dimensions                |                              |                      |           |           |
| Net Weight                | 8.5 kg                       |                      |           |           |
| Shipping Dimensions       | -                            |                      |           |           |
| Shipping Weight           | -                            |                      |           |           |
| Electrical Requirements   | AC 85 to 264 V/47, 63 Hz     |                      |           |           |
| Catalogue No.             | 620050503                    | 620051003            | 620051503 | 620052003 |
| Model                     | TCL-1100                     | TCL-1200             | TCL-1300  | TCL-1400  |
| Capacity                  | 96×0.2 ml                    | 96×0.2 ml +77×0.5 ml | 60×0.5 ml | 384 well  |
| Display                   | LCD, 8 inch, 800×600 pixels, |                      |           |           |
| Temperature Range         | 0 to 100?                    |                      |           |           |
| Number of Program         | 10000 +(USB FLASH)           |                      |           |           |
| Uniformity                | ? ± 0.2?                     |                      |           |           |
| Accuracy                  | ? ± 0.1?                     |                      |           |           |
| Resolution                | 0.1?                         |                      |           |           |
| Number of Cycle           | 100                          |                      |           |           |
| Number of Step            | 30                           |                      |           |           |
| Holding Temperature       | 4?                           |                      |           |           |
| Temperature Control       | Block\Tube                   |                      |           |           |
| Heating Rate              | 4.5?/s                       |                      |           |           |
| Cooling Rate              | 4?/s                         |                      |           |           |
| Ramping Rate Adjustable   | 0.1 to 4.5?                  |                      |           |           |
| Gradient Temp. Range      | 30 to 100?                   |                      |           |           |
| Gradient Uniformity       | ?±0.2?                       |                      |           |           |
| Gradient Accuracy         | ?±0.2?                       |                      |           |           |
| Gradient Spread           | 1 to 30?                     |                      |           |           |
| Hot Lid Height Adjustable | Step less Adjustable         |                      |           |           |
| Hot Lid Temperature       | 30 to 110?                   |                      |           |           |
| Connectivity              | USB 2.0, LAN                 |                      |           |           |
| Temp Increment/Decrement  | 0.1 to 10.0?                 |                      |           |           |
| Increase/Decrease in Time | 1 Sec to 600 Sec             |                      |           |           |
| Power consumption         | 600 W                        |                      |           |           |
| Overall Dimensions        | 390×270×255 mm               |                      |           |           |
| Net Weight                | 8.5 kg                       |                      |           |           |

|                         |                          |           |           |           |
|-------------------------|--------------------------|-----------|-----------|-----------|
| Shipping Dimensions     | -                        |           |           |           |
| Shipping Weight         | -                        |           |           |           |
| Electrical Requirements | AC 85 to 264 V/47, 63 Hz |           |           |           |
| Catalogue No.           | 620050503                | 620051003 | 620051503 | 620052003 |

|                             |                       |
|-----------------------------|-----------------------|
| <b>Shipping:</b>            | 2 - 3 weeks Delivery. |
| <b>number_of_cycle:</b>     | 100                   |
| <b>gradient_temp_range:</b> | 30 to 100?            |
| <b>power:</b>               | 600 W                 |
| <b>resolution:</b>          | 0.1?                  |
| <b>temperature_range:</b>   | 0 to 100?             |
| <b>capacity:</b>            | 384 well              |
| <b>model:</b>               | TCL-1400              |

## **Iris Analytical Ltd.**

66 W Flagler St #900  
Miami, Florida 33130  
United States