

**Benchmark** 

# **MultiCYCLER™**

**MULTI-BLOCK THERMAL CYCLERS**

- + **Dual or Triple Block Format**  
*2x48x0.2ml or 3x32x0.2ml options*  
*Each block functions independently*
- + **Intuitive Touch Screen Control**  
*Large 10" adjustable touch screen*  
*Folds away when not in use*
- + **Program Wizard**  
*Fast and easy programming*  
*Advanced programming features*
- + **Gradient Capabilities**  
*Up to 8 temperatures/block*



# MultiCYCLER™

## MULTI-BLOCK THERMAL CYCLERS

Designed for laboratories wanting flexibility in their applications, Benchmark's MultiCycler™ Thermal Cyclers offer multiple, independent cycling blocks in a single unit. Dual or triple block models are available, both offering extremely fast cycling profiles, large touch screen interfaces, self-adjusting heated lids, gradient capabilities, and an easy-to-use program wizard.

All programming features are accessed from the large, 10" full color touch screen. The screen can be angled towards the user when in use and then tucked away to save space. A program wizard guides users through the simple protocol set up process. Advanced programming features include gradient, adjustable ramp rates, and time increments and decrements. For multi-user labs, password protection prevents interference of an existing run. A USB provides for unlimited program storage and easy transfer of protocols between MultiCycler machines.

The auto-adjusting heated lid prevents condensation and evaporation of samples. Lid temperature can be programmed, and when the block temperature is below 35°C, the lid automatically shuts off. Peltier units allow for exceptionally fast heating and cooling of the blocks. Temperature change is precisely and accurately controlled within tight tolerances by a proprietary algorithm that simulates sample temperature, resulting in fast runs and reproducible results.

The wells are arranged in a 4x8 and 6x8 format, allowing for the use of PCR strip tubes in both models. Each block is independently controlled.



Adjustable Screen



Quick and Easy Programming



Independent Blocks

### Technical Data:

#### Capacity:

MultiCycler 332: 3 x 32-well blocks  
 MultiCycler 248: 2x48 well blocks  
 All accept 0.2mL PCR tubes and strips, flat or dome caps

#### Heating and Cooling:

Peltier elements

#### Display:

10" full color touch screen with adjustable angle

#### Comm Ports:

USB 2.0 and LAN

#### Block Temp Range:

4°C - 99.9°C

#### Max. Heating Rate:

7.5°C/sec

#### Max. Cooling Rate:

6°C/sec

#### Temp. Uniformity:

±0.2°C (at 90°C)

#### Temp. Accuracy:

±0.2°C (at 90°C)

#### Ramp Rate Adjustment:

0.1- 5.0°C

#### Gradient Functionality:

Yes, 8 different temps/block

#### Gradient Accuracy:

±0.1°C

#### Gradient Range:

30 - 99.9°C

#### Heated Lid:

Yes

#### Lid Temp. Range:

30-112°C

#### Power:

100-240V, 50-60Hz

#### Dimensions (L x W x H):

37.5 x 27 x 27.7cm  
 14.75 x 10.5 x 10.9in

#### Weight:

28.7lbs, 13kg

#### Warranty:

2 years

### Ordering Information:

T3-0248G\* MultiCycler 248, Dual block gradient thermal cycler, 2x48 well blocks

T3-0332G\* MultiCycler 332, Triple block gradient thermal cycler, 3x32 well blocks

\*Supplied with US plug. For EU plug, please add (-E) to item number.

### Also available:

Benchmark offers both full size and mini thermal cyclers as well as a full complement of PCR and qPCR reagents



**Benchmark** Scientific