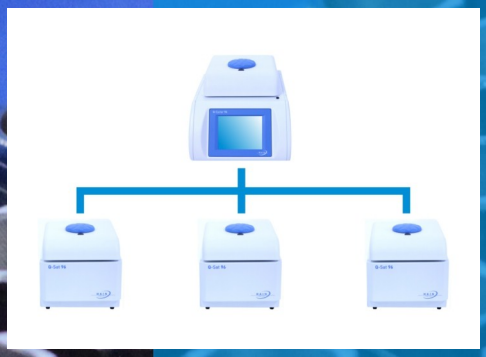

# >>Thermal Cycler Range for the Lifescience Market<<

HAIN LIFESCIENCE

# Q-Cycler 96

The **Q-Cycler 96** is a high performance gradient thermal cycler which, when fitted with a user-interchangeable thermal block, offers state-of-the-art performance in every regard. The unit is fully compatible with the entire range of Hain user-interchangeable thermal blocks offering users an unparalleled level of adaptability. The intuitive software is accessed through a large touch screen providing a full function bench top thermal cycler.



USB networking can be used to connect and drive up to three further satellite thermal cyclers.

The **Q-Cycler 96** independently controls and displays real time data for both itself and each connected satellite — choose any combination from the **Q-Sat** range of thermal cycler satellites.

Data pertaining to each and every experiment performed is recorded in a unique electronic GLP file ensuring full laboratory traceability and experimental validation.

**Features**

- Expandable at any time to meet the increasing capacity of a growing lab
- Fully adjustable heated lid
- Block/simulated consumable control modes
- Inbuilt OQ testing and GLP reporting
- Program storage in individual user directories for > 10,000 programs
- Intelligent protocol creation wizard
- Program resume/abandon function in the event of a power failure
- USB connectivity
- Universal mains operating voltage 85 - 275 Va.c.

# Interchangeable Thermal Blocks

An extensive range of high performance user-interchangeable thermal blocks to suit every customer's needs.

Thermal blocks can be changed by the user in seconds without the use of any tools.

**Formats include:**

- 96 well 0.2 ml/microplate block (available as gradient or ultra gradient)
- 48 x 0.5 ml / 48 x 0.2 ml combi block
- 384 well microplate block for high throughput laboratories
- Microarray/slide blocks

**Features**

- Ramp rates up to 6°C/s
- Uniformity better than ±0.4°C
- Accuracy better than ±0.5°C
- Thermal overshoot less than 1°C
- Up to 30°C gradients
- 100% UKAS /NIST traceable performance verification

Every user-interchangeable thermal block undergoes comprehensive thermal performance testing during its manufacture, utilising Hain's advanced TAS temperature acquisition system.

# Q-Sat Satellites


The **Q-Sat** range of satellites are high performance modular thermal cyclers. They all offer state of the art thermal engine technology and can be controlled by either a **Q-Cycler 96,** or by a PC running Hain thermal cycler software, through a simple USB connection. As will all Hain's thermal cyclers, the satellites operate on any input voltage in the range 85 - 275 Va.c.

The **Q-Sat 96 satellite** perfectly complements the **Q-Cycler 96** utilising the same control technology and is fully compatible with the complete range of user-interchangeable thermal blocks.
The **Q-Sat 48** has a fixed 48 well (8 x 6) 0.2 ml block, can again be controlled by a **Q-cycler 96** or a PC, and can be used in stand-alone mode repeating the last stored protocol.

The **Q-Sat 24** has a fixed 24 well (8 x 3) 0.2 ml block, is one of the quietest cyclers, and is commonly used in stand alone mode.

# Q-Cycler 24 and Q-Cycler 48

These two personal thermal cyclers utilise an intuitive graphical user interface based on that of the **Q-Cycler 96**. This software facilitates rapid program creation and execution of even the most complex protocols including touchdown, time and temperature increments, hot starts and gradient steps where applicable.

The **Q-Cycler 24** has the smallest footprint on the market and is near silent in operation. It has a fixed 24 well (8 x 3) 0.2 ml block which is controlled by the same thermal engine as fitted to the **Q-Cycler 96**.

The **Q-Cycler 48** has a small footprint and is ideal for use as a personal cycler. It has a fixed 48 well (8 x 6) 0.2 ml block, and is controlled by the same thermal engine as the **Q-Cycler 96.**


Both the **Q-Cycler 24** and **Q-Cycler 48** have extremely low power requirements making them ideal for in-the-field operation or where power consumption is generally of concern.

In each case the software is operated via a 3.5" colour touch screen.

# Ordering Information

## Thermal Cyclers

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|---|---|
| **Q-Cycler 96**<br>7019000 | Standard server thermal cycler. Chassis only. Order blocks separately. |
| **Q-Cycler 24**<br>7019015 | Personal thermal cycler with block for 24 x 0.2 ml tubes |
| **Q-Cycler 48**<br>7019016 | Personal thermal cycler with block for 48 x 0.2 ml tubes |
| **Q-Sat 96**<br>7019005 | Satellite thermal cycler and software (requires separate control from **Q-Cycler 96** server or PC). Chassis only. Block type is ordered separately. |
| **Q-Sat 24**<br>7019008 | Non gradient satellite personal thermal cycler including block for 24 x 0.2 ml tubes and software (requires separate control from **Q-Cycler 96** server or PC) |
| **Q-Sat 48**<br>7019007 | Non gradient satellite personal thermal cycler including block for 48 x 0.2 ml tubes and software (requires separate control from **Q-Cycler 96** server or PC) |

## Blocks

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|---|---|
| 7004003 | Block for 4 microarray/slides for **Q-Cycler 96** and **Q-Sat 96** cyclers |
| 7004004 | Gradient block for 96 x 0.2 ml/96 well plate for **Q-Cycler 96** and **Q-Sat 96** cyclers |
| 7004005 | Gradient block 48 x 0.2 ml/48 x 0.5 ml combi block for **Q-Cycler 96** and **Q-Sat 96** cyclers |
| 7004007 | Ultra gradient block for 96 x 0.2 ml/96 well plate for **Q-Cycler 96** and **Q-Sat 96** cyclers |
| 7004008 | Ultra gradient block for 384 well plate for **Q-Cycler 96** and **Q-Sat 96** cyclers |

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