

Ordering information

Preduct	Order numb
laboyder Gradient Without block	011-101
labcycler Basic Without block	011-103
Inter System Copy Cable	011-702
Gradient Upgrade (Only for labcyder Basic)	011-801
Thermoblock 384 For microtiterplates 384-well	012-101
Thermoblock 48 For reaction tubes of 0.5 ml	012-102
Thermoblock 96 For reaction tubes of 0.2 ml and microtiterplates 96-well	012-103
Triple Block Without passive lid	012-104
Passive Lid 3 lids are necessary for Triple Block application	012-201
Sealing Pad for Thermoblock 384	012-701



± 0.25 °C at 55 °C, ± 0.40 °C at 95 °C

Thermoblock 48 (48-wells, 0.5 ml single tubes)

Thermoblock 96 (96-wells, 0.2 ml single tubes,

stripes & microtiterplates) and Thermoblock

384 (384-wells, microtiterplates), electroformed gold plated silver, gradient capable (40 °C, ± 20 °C between the narrow sides of the block)

heating rate: 4.2 °C/s, cooling rate: 3.6 °C/s Triple Block, 3 x 21 wells, anodised aluminium, 3 passive lids, separately controllable, 0.2 ml single tubes, not gradient capable, heating rate: 2.5 °C/s, cooling rate: 2.2 °C/s

3 different PCR processes at the same time

± 0.01 °C

0.001 °C/s to 5.0 °C/s

Temperature ± 9.99 °C

Time ± 99.99 seconds

Uniformity:

Ramp rate:

Control accuracy:

De(In)crements:



silver block.

Your local distributor

Hightech Thermocycler

Cycler-Technology

for life. Labcycler

www.sensoquest.com

labcycler

The SensoQuest team has been developing and making thermocyclers since 1990. After all we thought it was time for a new generation, which we came out with in 2005.

The labcyder features a truly intuitive user interface with a coloured touchscreen, a nice design and solid construction. All that comes with a unique block changing system, giving full flexibility for present and future applications. A choice of three gold plated silver blocks was designed for high speed, yet low energy consumption and good temperature uniformity. These are complemented by the Triple Block, which lets you run three independent processes on one machine.

Sustainability and good value were prime considerations. The peldier elements were tested to 600,000 cycles without any failures, giving at least 20 years of lifetime even under the harshest conditions. The silver blocks are electroformed for lowest heat capacity and best heat conductance. This allows high speed with a maximum power of only 350 Watts. The average during a typical run is less than 150 Watts. The result is good performance with flow energy consumption, low carbon dioxide footprint, less heat in the lab and, last but not least, less noise from the cooling fans,

Precision is further enhanced by a 6-zone temperature regulation that corrects for any differences between the 6 peltier elements. Each block has its own processor with a continuously self-calibrating temperature measuring circuitry, Indefinite cooling at 4 °C is of course possible, the blocks even go down to 5 °C.

Although the user interface is quite self-explanatory, a context sensitive online help function further assists you, making the manual a rarely used item.

Programs can be copied between two labcyclers via a cable, making it easy to keep several of them "in line".

Of course there is an **automatic restart** after a failure of the power line. The program will continue with the last denaturation step to prevent false annealing.





TFT Touchscreen

The labcycler has a TFT display with a touchscreen featuring alphanumeric and function keys. Familiar buttons and icons enable an intuitive use. The interface "speaks" English and German.

Graphic monitoring allows tracking of the PCR process for single and Triple Blocks. The Triple Block system is displayed with the TFT touchscreen separated in the process.

	TFT 1/4 VGA illuminated colour display
\sim	320* 240 Pixel, 5.7"diagonal
~	Languages: English and German

Context-sensitive help function

Alpha-keyboard on touchscreen

Graphic monitoring of PCR process



Black Manitor Vertneb 5Q	10.5ept 13:26:46 14: 28.5FC		
Temp 94.5°C Step Letting Graphic	Info	Time	Om 10s
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	32		tin)

Thermoblocks

With the unique **quick block changing system**, a block change takes one hand and ten seconds.

All thermoblocks have their own processor with 6 separately controlled peltier elements for extraordinary temperature uniformity at high heating and cooling rates.

The temperature measuring system is entirely in the block and continuously **self-calibrating**, ensuring precise and identical operation of a block in any machine.

Thermoblock 48	Thermoblock 96	Thermoblock 384			
	Material: Electroformed gold plated silver Thermal conductivity: 429 W/mK Heating rate 4.2 °C/s · Cooling rate 3.6 °C/s				
48 well block	96 well block	384 well block			
8 zone gradient	12 zone gradient	24 zone gradient			
0.5 ml tubes	0.2 ml tubes	-			
Gradient capable: 40 °C, ± 20 °C from the left to the right					
-	96 Well microtiterplates	384 Well microtiterplates			
Minimum reaction volumina					
20 μΙ	10 µl	3 µl			

Automatic Lid

The heated lid is controlled by an electric motor. Pressure and temperature are fully programmable.

It quickly reaches its uniform temperature through high power.

During a programmed or manual pause the lid comes up to give access to the probes for **hotstart-procedures**. The temperature and force of the lid can be preselected for each program.

