analytikjena

TPersonal

The small Thermocycler with maximum power

- Fast ramping rates
- Very small footprint and high sample capacity
- Three different block formats

Biometra

PRODUCT LINE

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The small Thermocycler with maximum power

The TPersonal Thermocycler is a small and powerful instrument. Whenever the different protocols with up to 48 samples have to be carried out the TPersonal is the perfect Thermocycler offering maximum flexibility. Using the latest Peltier technology the TPersonal provides high heating and cooling rates. With its small footprint the instrument also fits to limited laboratory bench space.

Easy to program

Programming of the TPersonal Thermocycler has now become even easier. Four context sensitive buttons on the new designed front panel allow quick access to all important functions. Programs are easily created in a well arranged spreadsheet that shows all program steps in a single screen. Moreover, due to a revised data file structure stored programs are quickly retrieved from individual subdirectories.

Large Display

The new TPersonal front panel features a large backlit graphical display. During cycling all important data are displayed simultaneously. In the programming mode, the large display allows subsequent program steps to be viewed easily.

Features

- TPersonal occupies minimum space on the lab bench
- Three different block formats - for maximum flexibility a combi-block version is available
- Can be used with 48 well microplates, strips of 8 or single tubes
- Short run times by fast ramping
- All program parameters can be set in one spreadsheet
- **H**igh **P**erformance **S**mart **L**id (**HPSL**) - adjustable heated lid applies a consistent, optimum pressure, irrespective of the type of plastic ware

Three different block formats

Biometra offers the TPersonal Thermocycler in three different block formats. The 48 well version can be used with 0.2 ml tubes, strips and 48 well microplates. This capacity outperforms any other cycler in this segment. The 20 well version is designed for 0.5 ml tubes. For maximum flexibility Biometra also offers a combi-block version 48 wells for 0.2 ml tubes (strips or microplates) or 18 wells for 0.5 ml* tubes.

* capacity increases up to 35 x 0.5 ml by the use of small cap tubes

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With a footprint of only 22 cm x 31 cm the TPersonal Thermocycler needs a mimimum of space and fits on every laboratory bench.

Smart lid technology

The TPersonal is the only personal cycler featuring "**H**igh **P**erformance **S**mart **L**id (**HPSL**)" technology. The adjustable heated lid applies consistent, optimum pressure, irrespective of the type of plasticware used. This ensures a perfect fit of the tubes into the block, leading to highly efficient heat transfer. Due to the automatic pressure control mechanism, the tubes cannot be damaged and condensation of the reaction mixture is efficiently prevented.

Smart lid with intergrated clutch mechanism

High Speed thermocycling

Using the latest in Peltier technology the TPersonal achieves excellent heating and cooling rates. By a new generation of Peltier elements and sophisticated temperature management the TPersonal cools as fast as it heats. Thus the TPersonal provides precise reaction conditions and short run times.

Enhanced memory structure

A new memory structure has been implemented for easier programming and handling. The new memory structure in combination with a revised user panel gives faster access to important software features.

Network capability

The new TPersonal Thermocycler can be addressed by the Thermocycler Manager Software V4.11. It also allows to control T3000, T1plus and TRobot Thermocyclers.
Programs be be easily exchanged between the different models and Temperature data can be stored and analysed.

Small footprint

The TPersonal is a highly integrated thermocycler. With a footprint of only 22 x 31 cm it occupies minimum bench space. Still it provides the speed and half the capacity of much more expensive high end thermocyclers. Thus the TPersonal is the perfect personal assistant.

Technical data

System parameters	
Capacity	**TPersonal 20:** 20 tubes 0.5 ml
	TPersonal 48: 48 tubes 0.2 ml or 48 well microplates or 0.2 ml strips
	TPersonal combi: 18 tubes 0.5 ml* or 48 tubes 0.2 ml or 48 well microplates or 0.2 ml strips
Block	Aluminum
Temperature Range	+ 3 °C to 99 °C
Max. heating**	3 °C/s
Max. cooling**	3 °C/s
Temperature uniformity	± 0.5 °C
Control accuracy	± 0.1 °C
Display	LCD graphical display, backlit
Program stores	▪ Total capacity: 1500 steps ▪ 10 directories with up to 100 programs each ▪ Maximum 99 steps/program, maximum 99 cycles
Software	▪ Heating/cooling rates adjustable [0.01 to 3 °C/s] ▪ Temperature increment [up to ± 20 °C per cycle, 0.01 °C steps] ▪ Time increment [up to 240 s per cycle] ▪ Automatic/manual pause mode ▪ Auto restart after power failure ▪ Online help ▪ Language selection: German/English
Heated Lid	▪ Hight performance smart lid technology for automatic pressure control ▪ Height adjustable ▪ Temperature can be set between +30 °C and +99 °C ▪ Automatic switch off
Interface	Serial RS232 port (bi-directional data transfer)
Power consumption	Maximum 260 W
Power supply	100, 115, 230 Volt/50 – 60 Hz
Noise emission	Very low
Dimensions (W x D x H)	21.7 x 30.7 x 14.9 cm
Weight	6.7 kg

* capacity increases up to 35 x 0.5 ml by the use of small cap tubes
** depending on block type

Order information

Order number	Description
846-050-550	TPersonal 20
846-050-551	TPersonal 48
846-050-552	TPersonal combi

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