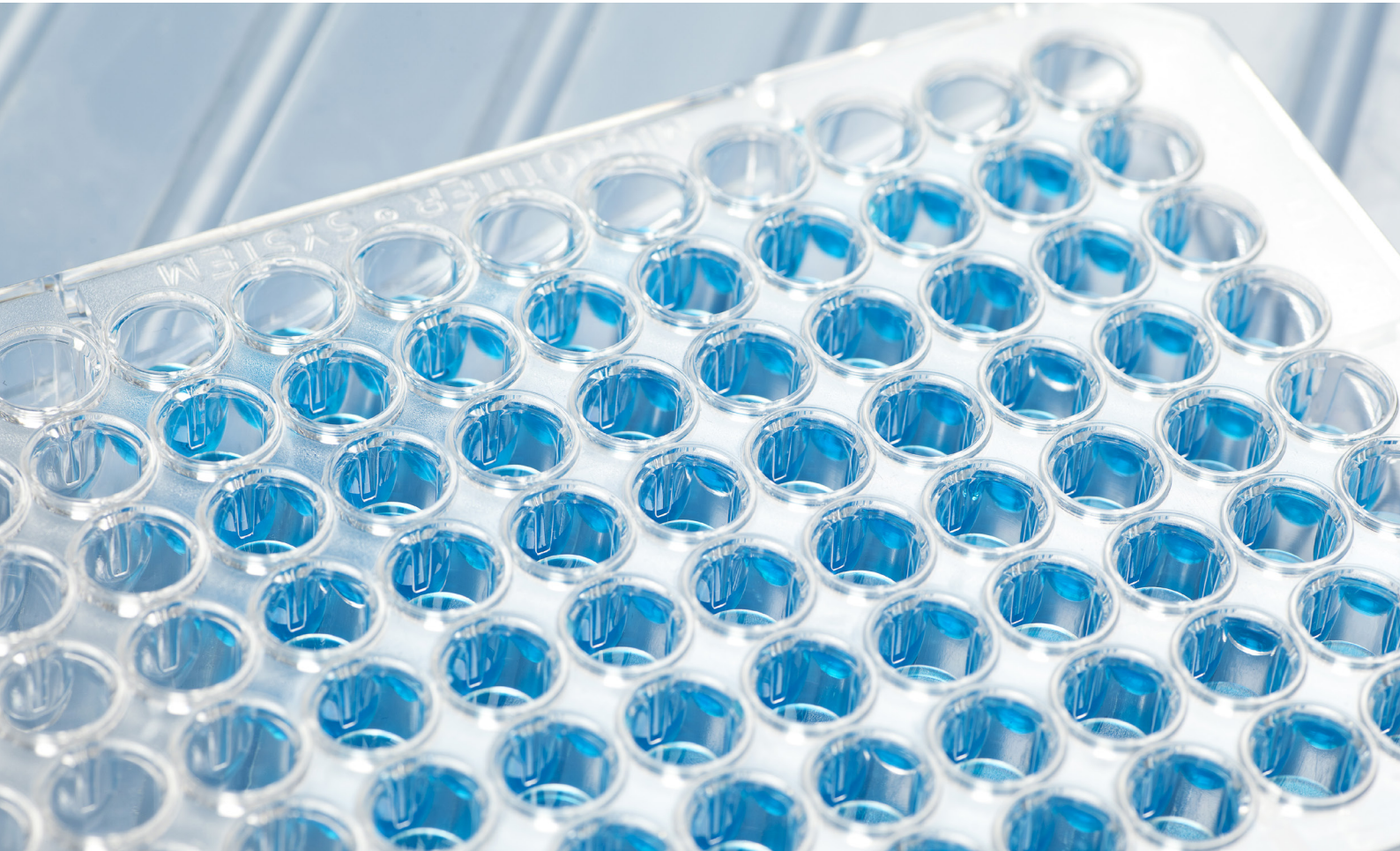




HETTICH BENELUX THERMOMIXERS & BLOCKS

- Quality; long lifespan
- Extensive range of interchangeable aluminium blocks
- Specific temperature calibration
- Orbital or linear mixing movement
- Suitable for a variety of tube and plate sizes
- Multilingual
- Custom made blocks with a variable height
- Smart Control
- Save money and space

HETTICH BENELUX THERMOMIXERS &

PERFECT FIT TO YOUR APPLICATION

The choice with our range of devices consists of heating and mixing or cooling and heating. Whichever one you choose, you will always have a device that combines precise temperature control with controlled shaking or mixing of samples.

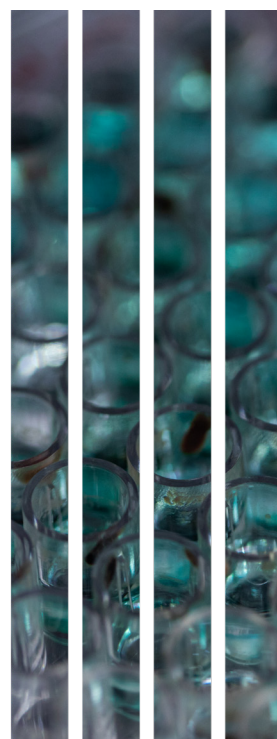
The Thermomixer is used for incubating, tempering and homogenising liquids in sealed test tubes, microcentrifuge tubes, PCR plates, microtitre plates and other laboratory vessels.

By carrying out heating and mixing simultaneously, a thermomixer ensures uniform temperature distribution and efficient mixing of samples. This improves the reproducibility of experiments and often the required processing time.

The Hettich Benelux Thermomixers are available in a single and double block version with orbital or linear mixing. The double block models saves you bench space and money in comparison to the single block models. Maintenance and/or calibration can be carried out by our Service department.

Examples of applications:

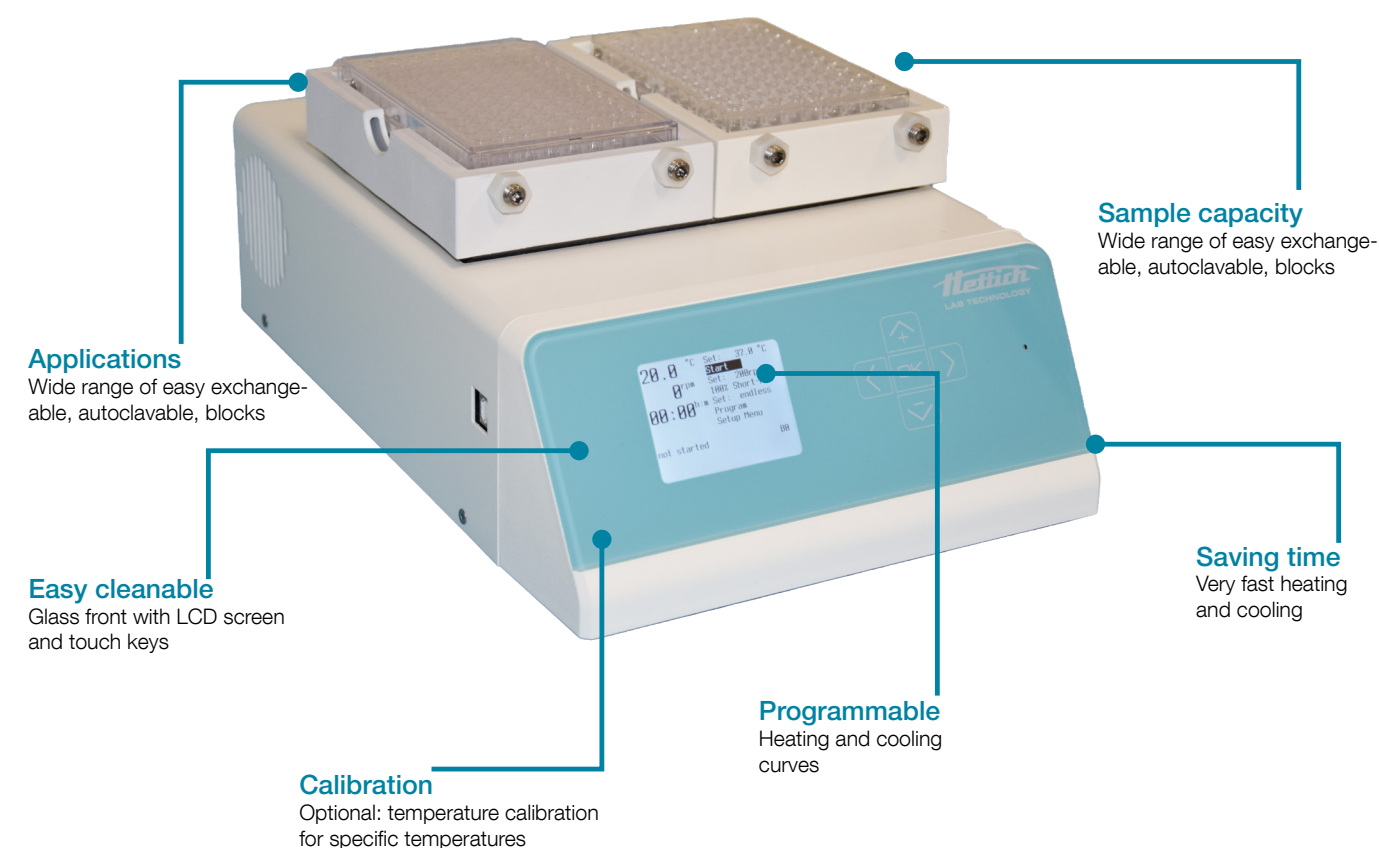
- Molecular biology
 - Isolation and purification of DNA and RNA
 - Enzymatic reactions such as restriction digestion/ligation
 - PCR preparation and sample incubation
- Microbiology
 - Preparation of cell cultures
 - Fertility tests
- Pharmaceutical research
 - Formulation and dissolution of compounds
 - Preparation of samples for quality control
- Clinical and diagnostic laboratories
 - Incubation steps in immunological assays
 - Processing of blood, serum or urine samples
- Chemical laboratories
 - Dissolving reagents and standards
 - Mixing small volumes for analytical methods



HETTICH BENELUX BLOCK THERMOSTATS

OUR THERMOMIXER / BLOCK THERMOSTATS

The devices are widely used in the Life Sciences, Microbiology, Molecular Biology, Biochemistry, Pharmaceutical research and Diagnostic laboratories.



A wide range of exchangeable blocks are available. We can also offer a customized block adapted to your needs. The usable area of all blocks is 12.5 x 8.5 cm. The external dimensions of all the blocks are 14.5 x 10.2 cm. The maximum available height is 9,3 cm. The blocks are made of aluminum and are chemically resistant. All blocks are autoclavable. It is also possible to change the direction of the rotation (via the software).

Switching blocks is very easy, it only takes 10 seconds (1 screw). You can reach temperatures rapidly due to the precise temperature control and aluminum blocks. The models with the heating and cooling option are equipped with a Peltier element. Optionally the devices can be independently calibrated for specific temperatures.

HETTICH BENELUX

THERMOMIXERS &

DEVICES - SPECIFICATIONS

Heating/Mixing	MHR13	MHR23	MHL23	TH21
Article number	980423003	980523003	980623003	980923003
Temp. operation range in °C	RT +3 to +130	RT +3 to +130	RT +3 to +130	RT +3 to +130
Temperature stability	+/- 0.1 °C	+/- 0.1 °C	+/- 0.1 °C	+/- 0.1 °C
Temp. display accuracy	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Max. heating per minute	10.1 °C	8.5 °C	8.5 °C	8.5 °C
Mixing frequency (rpm)	200 to 1,500	200 to 1,500	200 to 1,300	not available
Mixing movement	orbital, 3 mm	orbital, 3 mm	linear, 3 mm	not available
Capacity	1 block	2 blocks	2 blocks	2 blocks
Smart Control	30 program steps, short mix, interval shaking			30 progr. steps
Weight	8.8 kg	9.2 kg	9.2 kg	3.9 kg
Heating power	230 W	380 W		
Electrical supply	100/240 Vac, 47 - 63 Hz			
Exterior dimensions WxDxH	220 x 330 x 109 mm			

Cooling/Heating/Mixing	MKR13	MKR23	TK23
Article number	980123003	980223003	980823003
Temp. operation range in °C	RT -16 to + 100	RT -11 to + 100	RT -16 to + 100
Temperature stability	+/- 0.1 °C	+/- 0.1 °C	+/- 0.1 °C
Temp. display accuracy	0.1 °C	0.1 °C	0.1 °C
Max. heating per minute	11.3 °C	11.7 °C	11.7 °C
Max. cooling per minute	-12 °C	-9,6 °C	-11.5 °C
Mixing frequency (rpm)	200 to 1,500	200 to 1,200	not available
Mixing movement	orbital, 3 mm	orbital, 3 mm	not available
Capacity	1 block	2 blocks	2 blocks
Smart Control	30 program steps, short mix, interval shaking		30 progr. steps
Weight	10 kg	10.3 kg	6.2 kg
Heating power	220 W	360 W	
Electrical supply	100/240 Vac, 47 - 63 Hz		
Exterior dimensions WxDxH	220 x 330 x 144 mm		

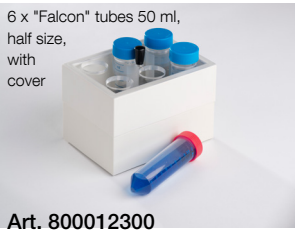
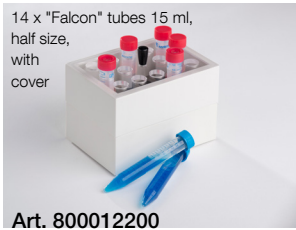
Note: not all blocks are suited to use on the max rpm.
The max. rpm depends on the type of block and the surface on which the device is being used. We tested all devices with block 800011000. It is also possible to set the maximum number of rotations in your programme. In addition, the maximum achievable temperature depends on the type of block.

HETTICH BENELUX

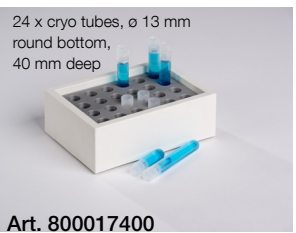
BLOCK THERMOSTATS

RANGE OF BLOCKS

For centrifugal tubes



For micro tubes



For own customization

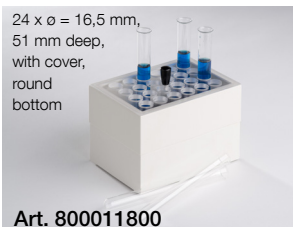
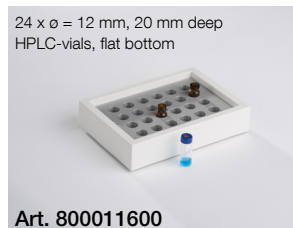


Note: the ø mm mentioned is the ø of the holes.

HETTICH BENELUX THERMOMIXERS &

RANGE OF BLOCKS

For sample tubes



For deep-well plates or slides

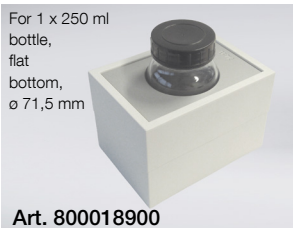


Country Sets	Europe	Switzerland	United Kingdom
Article number	980000101	980000201	980000301

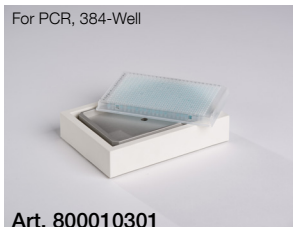
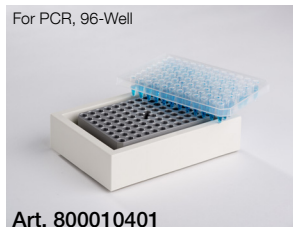
HETTICH BENELUX BLOCK THERMOSTATS

RANGE OF BLOCKS

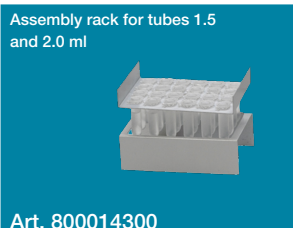
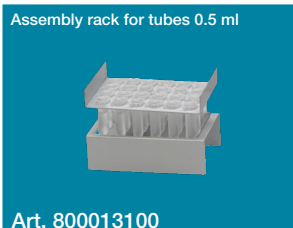
For other applications



For PCR plates or microtiter plates



Accessories





OTHER PRODUCT GROUPS:

Customization

Incubators

Centrifuges

Climate Cabinets

Cooling

Freezing

Ovens

Sterilisers

Baths

Flow Cabinets

Glassware Washers

Sample Preparation

Shakers

Analysis

Monitoring