

- Precise temperature control, accuracy of  $\pm 0.2^{\circ}\text{C}$
- Automatic cut-out switch prevents overheating anaesthetized animal
- High quality controller, heating pad and temperature probe.
- No electrical noise
- Flexible rectal probe
- Modern compact design

## CMA 450 Temperature Controller for rat or mouse

The CMA 450 Temperature Controller is a quality precision instrument for maintaining constant body temperature in anaesthetized animals. The system consists of a control unit, heating pad and a flexible rectal probe.

The CMA 450 Temperature Controller monitors and regulates the body temperature of small animals under anesthesia. The control unit displays actual temperature measured by a rectal thermometer and regulates power to the heating pad which warms the animal. Temperature variation from a preset value lies within a range of  $\pm 0.2^{\circ}\text{C}$ . The controller can maintain body temperatures from  $+ 34$  to  $+ 43^{\circ}\text{C}$ . The instrument does not produce electrical noise so as not to disturb other sensitive instruments. The dimensions of the heating pad are  $200 \times 120$  mm.

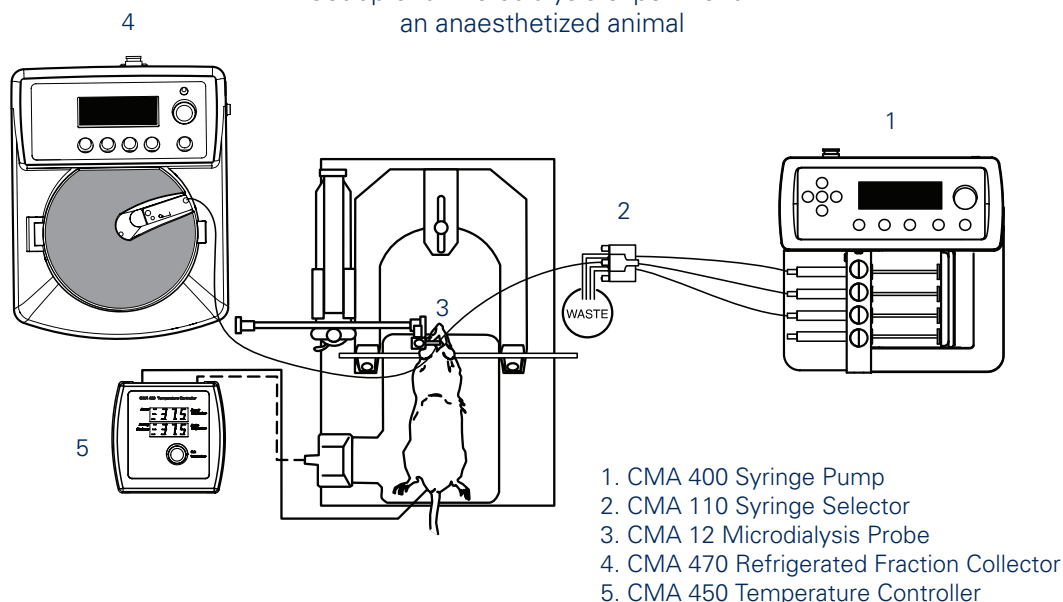
The CMA 450 Temperature Controller is available in two versions. One is suitable for rats and guinea pigs with rectal probe  $\varnothing 2$  mm, and one is suitable for mice and hamsters with rectal probe  $\varnothing 1.3$  mm. Both are made of flexible material, gentle for the animal.



..... CMA 450 Rectal Probe for rat  $\varnothing 2$  mm

..... CMA 450 Rectal Probe for mouse  $\varnothing 1.3$  mm

## Set-up of a microdialysis experiment in an anaesthetized animal



## Technical information

Operating Mode	Power applied to the heating pad.
	Pad temperature continuously controlled by rectal probe.
Primary voltage	100 - 240 Volts, 50-60 Hz
Heating Pad	Maximum power input 50 watts
Temperature accuracy	± 0.2 °C
Temperature range	34 - 43 °C continuously monitored on the Control Unit
Heating Pad max. temp	46 °C
Power supply	External adapter 50W
Computer connection	USB
Control Unit	145 x 150 x 70 mm
Probe size for rat	2.0 x 95 mm, cable length 1.5 meter
Probe size for mouse	1.3 x 50 mm, cable length 1.5 meter
Pad size	200 x 120 mm
Pad Material	vacuum welded PVC, autoclavable
Weight, control Unit	0.8 kg

**Intended use:** Designed for research and industrial applications, the CMA 470 Refrigerated Fraction Collector is not approved for clinical use.

## Ordering information

	Ref. No.
Temperature Controller for rats*	8003760
Temperature Controller for mice*	8003770

## Accessories

	Ref. No.
CMA 450 Rectal Probe for rat	8003761
CMA 450 Rectal Probe for mouse	8003762
CMA 450 Heating Pad	8003763
CMA 450 Insulation Pad	8003764

\* Each complete unit is supplied with a probe, control unit, heating pad and insulation pad.