

- 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

北京铭泰佳信科技有限公司

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 x 120 mm.

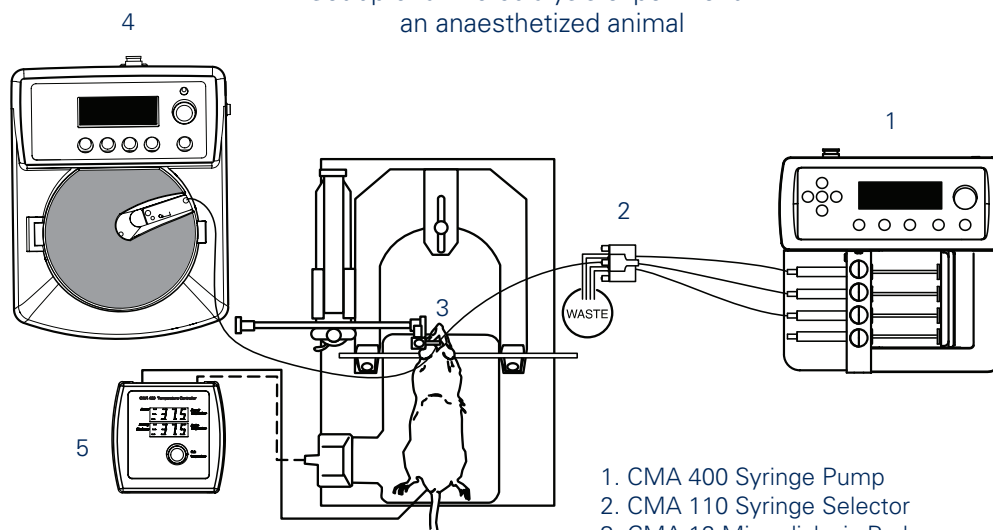
The CMA 450 Temperature Controller is available in two versions. One is suitable for rats and guinea pigs with rectal probe $\varnothing 2 \text{ mm}$, and one is suitable for mice and hamsters with rectal probe $\varnothing 1.3 \text{ mm}$. Both are made of flexible material, gentle for the animal.



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

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

Set-up of a microdialysis experiment in an anaesthetized animal



1. CMA 400 Syringe Pump
2. CMA 110 Syringe Selector
3. CMA 12 Microdialysis Probe
4. CMA 470 Refrigerated Fraction Collector
5. CMA 450 Temperature Controller

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.