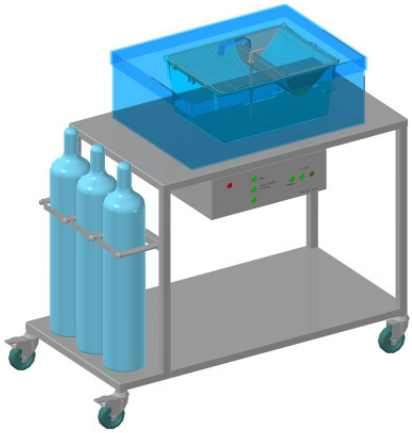
Euthanasia Unit



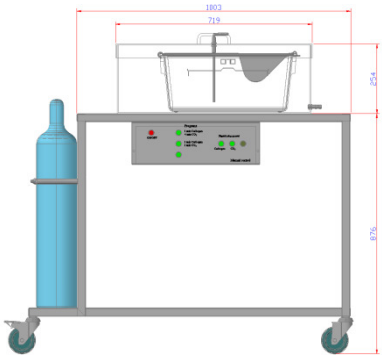
Features

During euthanasia of rodents using the UNO Euthanasia Unit, the following benefits are achieved:

- The animals can stay in their cage, because the UNO Euthanasia Unit includes a transparant polycarbonate "container", in which the complete rat- or mousecage can be placed.
- First, Carbogen gas is introduced at the bottom of the cage, by means of a PLC controlled valve. Carbogen is a gas mixture of 95% O^2 + 5% CO^2. This causes a high concentration O^2 in the cage and in the container, while the 5%-concentration CO^2 does not cause any reaction at the CO^2 reseptors in the animal lungs. The pO^2 level in the blood becomes maximal.
- After 1 min. the Carbogen flow is stopped and 100% CO^2 is introduced into the cage. In this way the high concentration O^2 is slowly replaced by CO^2. This relatively slow replacement of O^2 by CO^2 is responsable for the reduction of stress for the animal.

If mice and rats ar being exposed directly to 100% CO^2, the stress level, measured according to EEG, EKG and proportionaly, is very high. The article "Carbon Dioxide euthanasia in rats;....." handles about the 3 above mentioned criteria in detail. This article can be downloaded on our website: http://www.unobv.com/afbeeldingen/Carbon%20Dioxide%20in%20rats.pdf

The UNO Euthanasia Unit encudes:

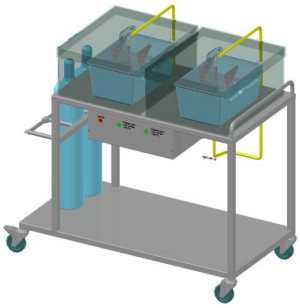


- A polycarbonate box with lid, in which the mice and rat cages can be placed
  Dimensions: 50 x 75 x 25cm (lxbxh) (other dimensions customs made available!)
- Tube for the gassupply. This tube can be put between the bars of the wirelids into the cage
- A valve in the macrolon box to connect the unit to an exhaust system
- The s.s. trolley has a tray on which the gas cylinders can be placed
- A switchboard for the supply of the gas (mixure) O^2 and CO^2, according a PLC pre-set program

One of the advantages of the mentioned PLC pre-set programs is that the procedures for euthanasia in rats ond mice can be easily described in a

protocol for the users of the unit. The UNO Euthanasia Unit contains a program that uses 2 different grasses in order to, during euthanasing mice and rats, reduce the animalcode2utf('39',0)s stress to a minimum.

Custommade Options



Different configurations and set-ups for euthanasia units are available on special request.

1. A Euthanasia Unit with two separat euthanasia boxes that can each hold a cage. This unit was equiped with two seperate control with each jus one program. Also a safety to prevent unauthorized changes mad in the flowmeter settings was integrated.
2. A Euthanasia Unit to be placed on a table without the trolley is also possible.
3. Euthanasia cabinets in different configurations. For ordering information, please contact us.

Ordering number

180000100	Euthanasia Unit complete