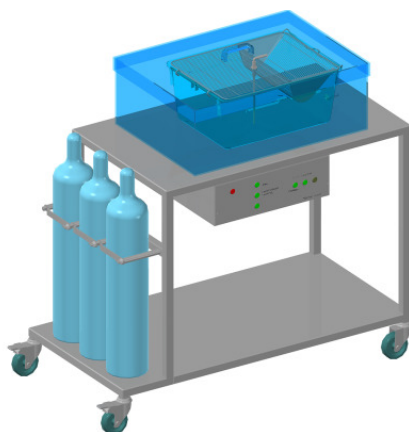




CARFIL QUALITY
YOUR SUPPLIER FOR ALL LABORATORY NEEDS

Euthanasia Unit



Caractéristiques

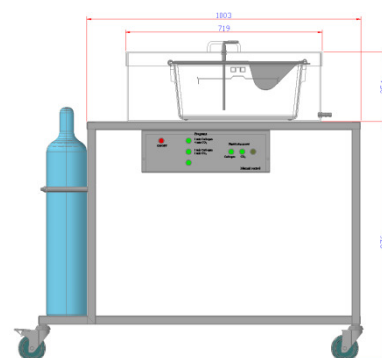
During euthanasia of rodents using the UNO Euthanasia Unit, the following benefits are achieved:

- 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% O² + 5% CO². This causes a high concentration O² in the cage and in the container, while the 5%-concentration CO² does not cause any reaction at the CO² reseptors in the animal lungs. The pO² level in the blood becomes maximal.
- After 1 min. the Carbogen flow is stopped and 100% CO² is introduced into the cage. In this way the high concentration O² is slowly replaced by CO². This relatively slow replacement of O² by CO² is responsible for the reduction of stress for the animal.

If mice and rats ar being exposed directly to 100% CO², the stress level, measured according to EEG, EKG and proportionally, 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 encludes:

- 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 (mixture) O² and CO², according a PLC pre-set program



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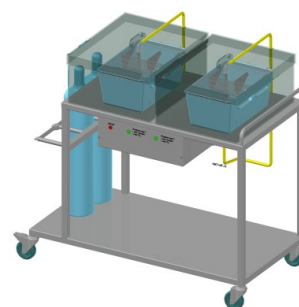
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One of the advantages of the mentioned PLC pre-set programs is that the procedures for euthanasia in rats and mice can be easily described in a protocol for the users of the unit. The UNO Euthanasia Unit contains a program that uses 2 different gases in order to, during euthanasing mice and rats, reduce the animal'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 separate euthanasia boxes that can each hold a cage. This unit was equipped with two separate controls with each just one program. Also a safety to prevent unauthorized changes made 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.



Numéro de commande

180000100	Euthanasia Unit complete
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