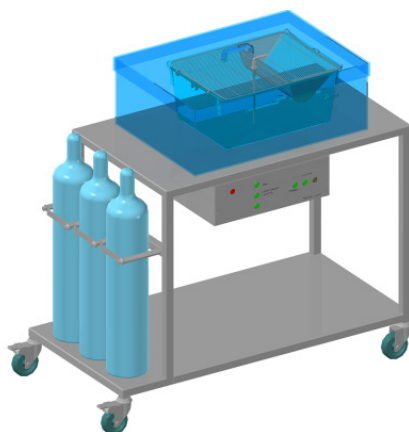




CARFIL QUALITY
YOUR SUPPLIER FOR ALL LABORATORY NEEDS

Euthanasia Unit



Features

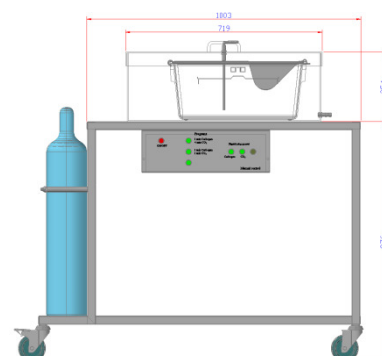
During euthanasia of rodents using the UNO Euthanasia Unit, the following benefits are achieved:

- The animals can stay in their cage, because the UNO Euthanasia Unit includes a transparent 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 receptors 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 are 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 encodes:

- 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 gas supply. 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 to a PLC pre-set program



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



PAVAN SERVICE BVBA

Beyntellus 3 - B-2360 Oud-Turnhout - Tel. +32 (0)14 45 13 10 - admin@carfil.be - BTW BE 0420.681.872

www.carfil.be



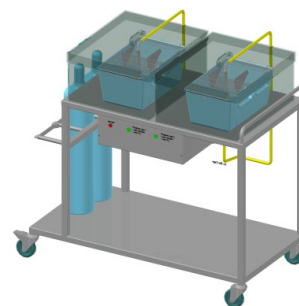
CARFIL QUALITY
YOUR SUPPLIER FOR ALL LABORATORY NEEDS

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
-----------	--------------------------



PAVAN SERVICE BVBA

Beyntellus 3 - B-2360 Oud-Turnhout - Tel. +32 (0)14 45 13 10 - admin@carfil.be - BTW BE 0420.681.872

www.carfil.be