

Aspirometer (L57957001)

Aspirometer for "in situ" gas sampling, transport and laboratory analysis of gases.

It enables contamination-free measurement and preservation of gases from the heart. The aspirometer can be used, for example, to identify gas embolism (air embolism) as the cause of death.

Using an aspirometer, the ventricles are punctured separately using an aspirometer needle and the air or gas is aspirated until the ventricle is completely empty. Quantitative measurement of ventricular filling is thus possible. For qualitative determination, the air or gas is preserved under air exclusion and analyzed by gas chromatography. A specially prepared - head-space vessel is used for this purpose.

Scope of delivery:

- 1 x aspirometer cylinder 250 ml with Teflon drain cock on top and two threaded connectors for Luer adapter and one threaded connector for hose connection to the aspiration bottle.
Material: Clean Save laboratory glass DIN ISO 3585
- 1 x tubing PVC Luer Lock 106720109
- 1 x hose olive 9 mm for hose connection aspirator bottle 500 ml
- 2 x GL 14 Luer adapter for screw connection caps SON051121
- 3 x GL 14 screw connection caps 132922705



This apparatus consists of a cylinder, two pieces of tubing and two needles. The cylinder has a graduation for measuring the gas volume, an outlet with a tap closure and needle for withdrawing the collected gas, and two connections for attaching the pieces of tubing. One of the hose pieces is connected to a needle, which is used for gas extraction. The other piece of tubing is connected to the aspirator bottle Art. L57957002, which is necessary for the pressure regulation and thus allows collecting or dispensing the gas from cylinder 1.

According to the description of the:

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Nature, Dezember 2012, Scientific Reports 1, Article number: 193, Methodology for in situ gas sampling.

Transport and laboratory analysis of gases from stranded cetaceans.

This aspirometer is also successfully used in forensic medicine on humans.

Accessories (must be ordered separately if required):

- Aspirator bottle
- Hose/Silicone I X A.D 6,0 x 10,0 mm
- Cannulas (selection, depending on application)

Art. L57957002

Art. 273460027

Art. 19421100*(4-6)

Option:

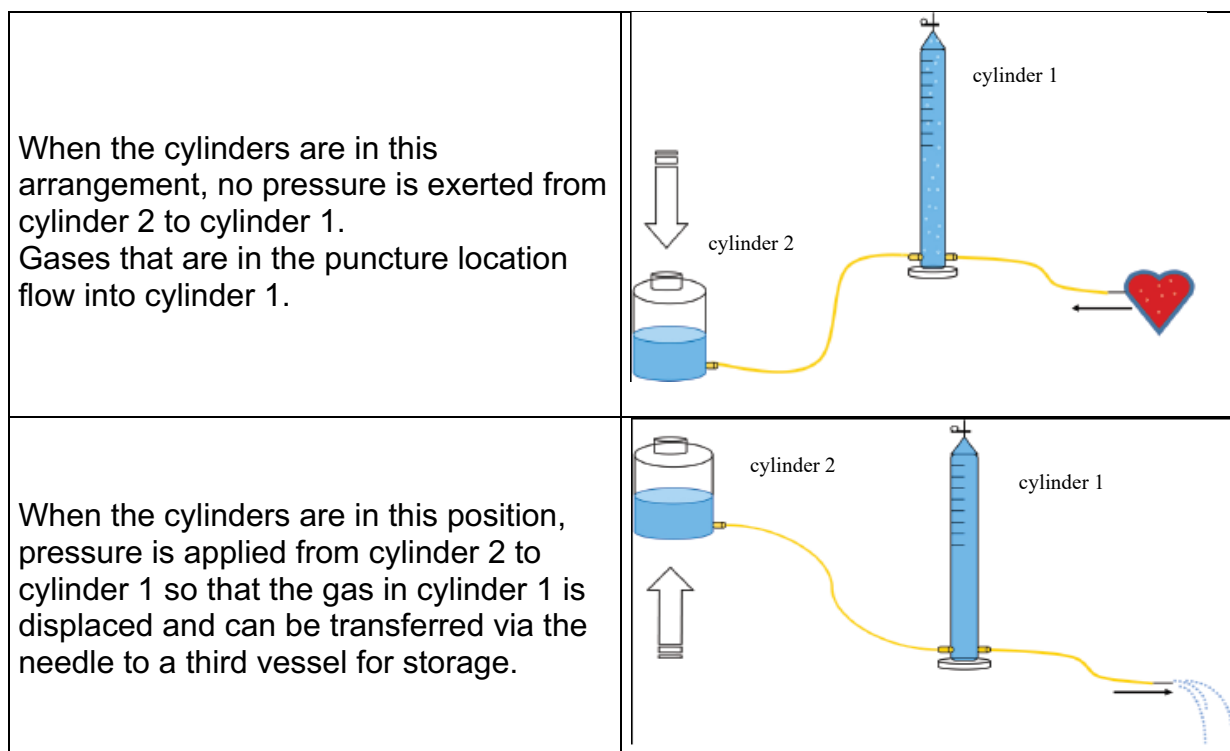
- Tween 80

Preparation / Measurement Principle:

Before the respirometer is used, it must be carefully cleaned so that grease residues are also removed from the cylinders and hoses.

The apparatus must be completely filled with distilled water.

Two drops of Tween 80 are added to reduce the surface tension of the water and to destroy air bubbles on the inner wall of the cylinder



Source reference of the graphics:

PROTOCOL FOR GAS SAMPLING AND ANALYSIS IN STRANDED MARINE MAMMALS

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