



Isolated Organ Baths

Cat. No. 4000 / 4050 / 4400

General

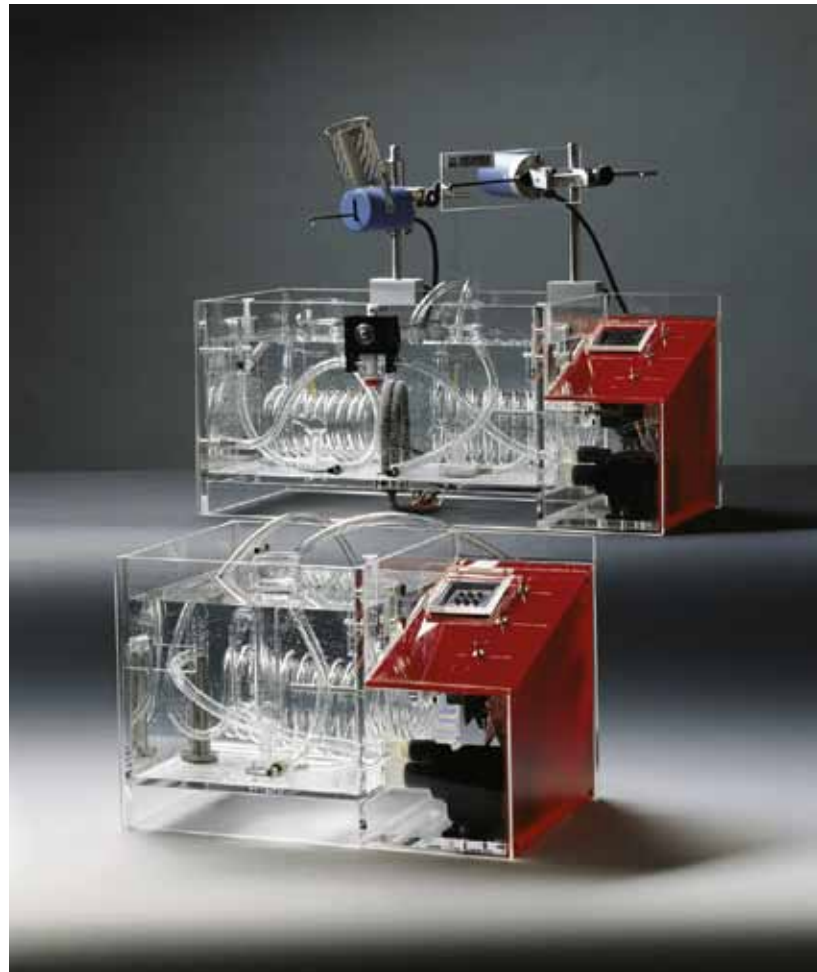
The Isolated Organ Baths have been designed for accurate recording of isometric or isotonic tissue contraction/release.

Research involving effects of electrical stimuli or drugs on isolated organs, uterus, trachea, vessel strips, auricle, can be performed under optimum conditions.

Wash or test solution enters the chamber after passing through the temperature equilibrating coils and the syringe valve. The tissue in the chamber is washed by flushing the chamber through an overflow drain tube, to avoid exposing the tissue to the air.

Water stirring is accomplished by a water jet delivered by a centrifugal pump.

A 200 W stainless steel heating element is mounted on the Perspex tank floor. A precise solid state "proportional" thermostat maintains the temperature within the excellent limits of $\pm 0.1^{\circ}\text{C}$ on all models.



Note: the Isometric and Isotonic Transducers featured in the picture are not included.

SAFETY - EFFICIENCY

Cat. 4000 One Muscle Chamber
Cat. 4050 Two Muscle Chambers
Cat. 4400 Four Muscle Chambers

Main Features

- All components visible through the clear Perspex tank: great for teaching!
- Tissue washing without exposure to air
- Water-jet bath stirring provided by a noiseless vibration-free centrifugal pump
- Easy and quick mounting of tissue

Bath 4000

The 4000 water bath consists of a clear Perspex tank, cm 19 x 19 x 17 which contains one tissue chamber, one equilibrating coil, one adjustable support rod on which transducers (Isometric Cat. 7003, 7004, 7005, 7010 or Isotonic Cat. 7006) can be fastened to the tank via the holder provided.

The holder is particularly useful to adjust via a lead screw drive, within the range of 50 mm, the height of a boss-head which carries the holding rod of the transducer.

Bath 4050

This is similar to the one-chamber bath 4000 but the tank is dimensioned (cm 34 x 19 x 17) to accommodate two muscle chambers and syringe valves, two coils, two adjustable support rods and holders for transducers.

Bath 4400

The bath 4400 lodges up to 4 preparations; they maintain the features of the 4050 but heating power and dimensions are upgraded accordingly.

Tissue Chamber Configuration

The tissue chambers provided with porous frit, available in 5, 10, 20, 30 or 50 ml are standard. An accurately positioned glass hook is provided in the chamber to which the thread loop can be easily attached, ensuring the organ being well centered in the chamber.

Tissue chambers with porous frit, without hook are available on request.

Tissue chambers are also available provided with an aeration side arm in 20, 30 or 50 ml volume. Customized chambers, i.e., with non standard shape and/or volume can be prepared on request.

Ordering Information

4000 Isolated Organ Bath, One Muscle Chamber, complete with circulation pump, heater, thermostat, set of 2 fuses & instruction manual, and provided with following standard accessories:

- 1 4005 Temperature Equilibrating Coil
- 1 4100 Muscle Chamber, 10ml, provided with porous frit and hook
- 1 14110 Holder
- 1 4004 Supporting Rod (10 mm diam.)

4050 Isolated Organ Bath, Two Muscle Chambers, as above but all standard accessories multiplied by two, i.e., 2 4005, 2 4100, etc.

4400 Isolated Organ Bath, Four Muscle Chambers, as above but all standard accessories multiplied by four, i.e., 4 4005, 4 4100, etc.

Physical:

4000

Dimensions cm : 32x20x22

Weight : Kg 3.75

Shipping Weight :Kg 7.00

4050

Dimensions cm : 47x20x22

Weight : Kg 6.25

Shipping Weight :Kg 9.30

4400

Dimensions cm : 47x29x22

Weight : Kg 8.50

Shipping Weight :Kg 11.50

Power Requirement: 115 or 230V, 50-60 Hz
250 VA max. for 4000/4050
400 VA max. for 4400