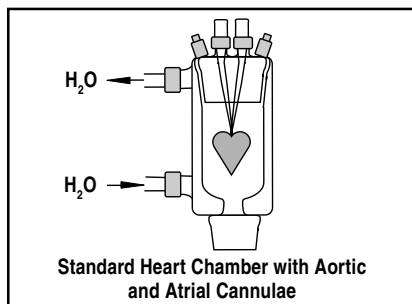
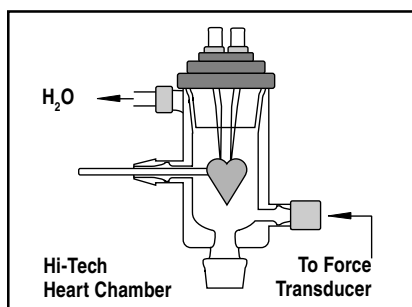


Heart Chambers



High-Tech Heart Chamber

The Chamber lid is secured with a threaded ring, which seals the Chamber for reducing heat loss and purging of the chamber interior with gas mixtures. Two of the lid access ports are placed on locking cams for easy positioning and secure mounting of glass or stainless steel cannulae. The cannulae fit into the ports using collars which allow the cannulae to be rapidly extended or retracted and then locked into place. This system is supplied with Aortic Cannulae and Atrial Cannulae.

At the bottom of the Chamber is a removable pulley which inserts into the Chamber interior and is used for apical force measurements. This pulley can be easily positioned and is secured with a collar tightened from the outside of the bath. A suture is secured to the heart and the line passed around the pulley and through the hollow pulley support arm using a wire loop. To close the Chamber, the chamber body is slid up to the lid, the threaded ring is tightened and the suture tied to the force transducer. The benefits of this Chamber are improved temperature control, the maintenance of a perpendicular line to the transducer and the virtual elimination of perfusate aerosols, an important consideration when working with isotopes. To enhance collection of perfusate, the bottom of the Chamber funnels the effluent into a tapered ground glass fitting which directs the flow out of the Chamber. Available in three sizes.

- Fully water jacketed with Quick Disconnect Fittings for precise temperature control and easy removal from a system
- Independent mounting of lid and chamber on separate support rods for easy insertion/removal of cannulated organs, quick access to preparation and easy positioning of the Chamber
- Threaded lid closure reduces heat loss, facilitates purging of chamber with gas mixtures, elimination of perfusate aerosols, easy insertion/removal of cannulated organs
- Centered side access port for fiber optic insertion, electrodes or thermal probes
- Four top access ports: two rotating cam top access ports for convenient and easy cannula positioning and two standard ports for insertion of balloon catheters, stimulating electrodes and other instruments

High-Tech Heart Chamber

Catalog No.	Size	Animals	Chamber, ID x L	Water Jacket, OD x L
CGS 8990.73	Small	Rat, Guinea Pigs	49 x 100 mm (1.9 x 3.9 in)	70 x 110 mm (2.8 x 4.3 in)
CGS 8991.73	Medium	Cat, Rabbit	67 x 145 mm (2.6 x 5.7 in)	100 x 150 mm (3.9 x 5.9 in)
CGS 8992.73	Large	Pig, Dog	95 x 160 mm (3.7 x 6.3 in)	125 x 165 mm (4.9 x 6.5 in)
CGS 8993.73	Xtra Small	Mouse	38 x 90 mm (1.5 x 3.5 in)	60 x 95 mm (2.4 x 3.7 in)

Radnoti Standard Heart Chamber

This flexible Heart Chamber accommodates most common cardiac preparations such as rat, rabbit, guinea pig, mouse, ferret or frog (paced or unpaced) with a variety of contractile, coronary flow and electrophysiological measuring devices. Constructed of heavy duty borosilicate glass the Heart Chamber is fully water-jacketed with a 34 mm (1.3 in) ground glass top closure and 24 mm (1 in) ground glass joint for the lower exit port. The top closure has four threaded glass ports with screw caps. The two central ports have drilled enclosures with O-ring seals for the aortic and atrial cannulae permitting the cannulae to be easily adjusted or exchanged during mounting of the heart. The other two angled ports can be used to insert pacing electrodes, balloon catheters, strain gauges or catheters into the heart chamber. The chamber may be gassed to remove oxygen during experiments with hypoxia through the use of the 24 mm (1 in) Adapter with dual Luer fittings.

Standard Heart Chamber

Catalog No.	Chamber, ID x L	Water Jacket, ID x OD x L	Overall Length
CGS 8994.73	35 x 70 mm (1.4 x .75 in)	35 x 51 110 mm (1.4 x 2x 4.3 in)	165 mm (6.5 in)