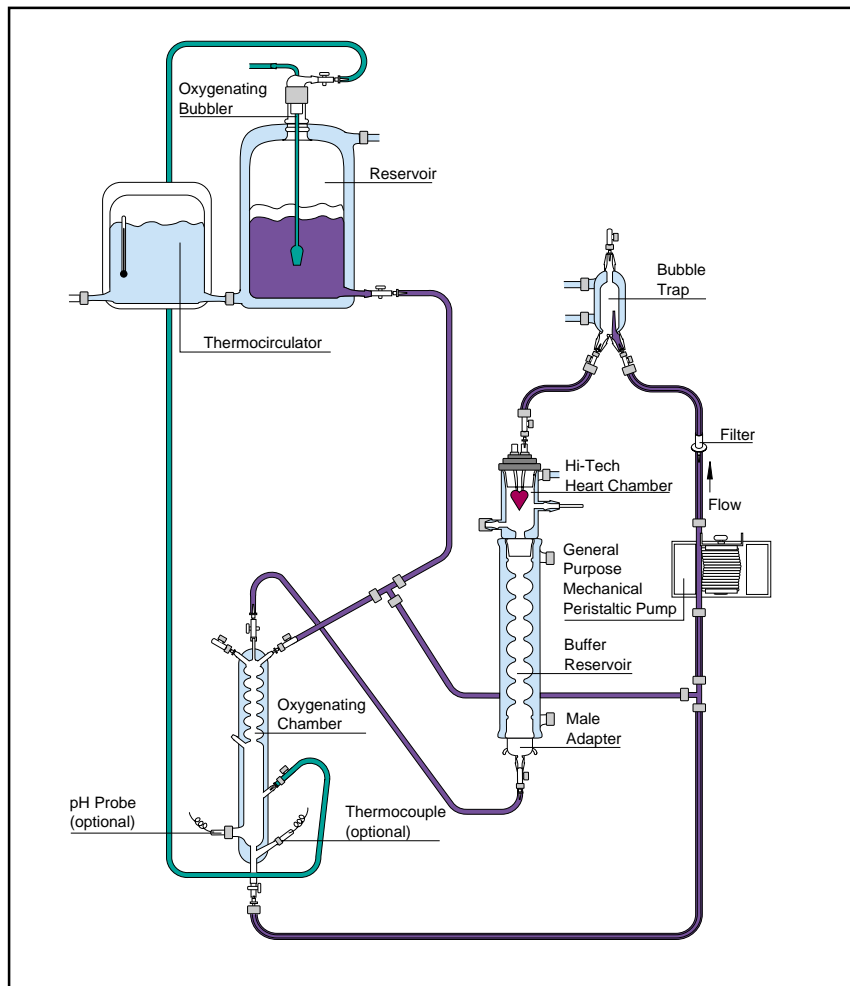


# Isolated Organ and Tissue

## Radnoti Langendorff, Constant Flow, Recirculating System (Model VI)



- Complete with Harvard Constant Temperature Thermocirculator and General Purpose Mechanical Peristaltic Pump

### Catalog No. Product

- CGS 8955.73** Radnoti Langendorff, Constant Flow, Recirculating System (Model VI), 115 VAC, 60 Hz
- CGS 8956.73** Radnoti Langendorff, Constant Flow, Recirculating System (Model VI), 230 VAC, 50 Hz

### System Components

**Descontinuado**  
**CGS 8957.73**

- CGS 8957.73** Water-Jacketed 2 L Reservoir
- CGS 8958.73** Standard Oxygenating Bubbler for 2 L Reservoir
- CGS 8959.73** Oxygenating Chamber
- CGS 8960.73** High-Tech Heart Chamber, Medium
- CGS 8961.73** Buffer Reservoir
- CGS 8962.73** Bubble Trap
- CGS 8963.73** In-Line Injection Ports with Septa
- CGS 8964.73** Adapter, 24 mm, Male

### Thermocirculator

- CGS 8965.73** 115 VAC, 60 Hz
- CGS 8965.73** 230 VAC, 50 Hz
- CGS 8967.73** Thermocirculator Tubing Adapters
- CGS 8968.73** General Purpose Mechanical Peristaltic Pump, 115/230 VAC, 50/60 Hz
- CGS 8969.73** Four-Bar Stand Kit for Heart Perfusion System (Model VI)
- CGS 8970.73** Hardware Kit for Heart Perfusion System (Model VI)

### Application Note: Heart Perfusion System — Experimental Options

A great number of physiological parameters that can be measured in the perfused heart preparation. Electrocardiograms (ECG) are readily obtained using surface electrodes of monopolar or bipolar construction and are of interest in studies involving arrhythmias. Microelectrodes implanted in the surface myocytes can also be used for electrical measurements.

Oxygen consumption can be determined with dual oxygen electrodes, one placed in the perfusate stream entering the heart, the other monitoring the coronary sinus<sup>1</sup>. This effluent can be removed through the use of a peristaltic pump and then transferred to the second oxygen electrode.

Similarly, ion selective electrodes can be placed in the effluent or perfusate stream or the oxygenation chamber of the Perfused Heart Systems, permitting measurements of pH and other cations and anions. Radio-labelled compounds can be used for metabolic studies, the release or uptake of various ions and substrates. Optical studies have been performed on the fluorescence of endogenous or exogenous fluorescent compounds.

<sup>1</sup>

<sup>2</sup>