

Radnoti

Radnoti Glass Technology has developed a special perfusion system to meet the needs of scientists interested in blood vessel research in the rapidly advancing areas of endothelial function, metabolism and release of endogenous neurotransmitters and vasoactive substances.

This system includes a Radnoti 25ml (or 10ml) Blood Vessel Perfusion Chamber, which has a perfusate pre-warming coil built into the bath's water-jacket. This compensates for minor temperature variations enroute to the chamber. The bath media can be rapidly exchanged through the use of a three-way stopcock placed at the bottom drain. The superfusate can be continually exchanged by using the chamber's overflow outlet. Solutions can also be added or the chamber titrated via the vent/addition tube in the lid assembly.

This configuration also allows placement of a pressure transducer (included in either the 158700-1 or 158700-4) to detect changes in pressure due to changes in vessel diameter. The perfusion chamber has a replaceable aerator with adjustable needle valve. The lid assembly is made of high-density polypropylene with O-ring seal to insure a snug fit.

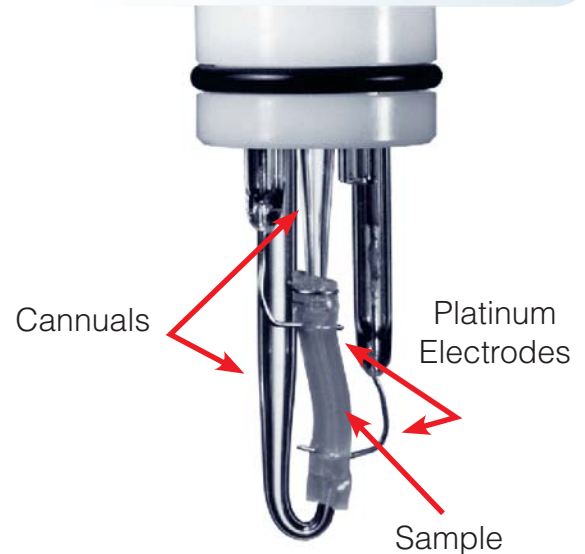
The sample of choice is dissected out and cleaned, then secured to the inflow and the outflow cannulae by means of a suture. The inflow cannula is straight while the outflow has a hooked end to facilitate proper vessel alignment. The ends of both cannulae are slightly flared with a fine ground finish to insure a secure fit to the blood vessel.

The included platinum stimulating electrodes can be positioned near the sample to promote the release of neurotransmitters. When mounting the tissue, the electrodes are slid upward and secured with set screws, providing clear access to the cannulae. Once the tissue is secured, the electrodes are repositioned. The electrodes can be set parallel to the sample or the malleable platinum bent so as to allow for placement at either end of the sample (as shown) for field stimulation.

Standard cannula O.D.'s are 1.0, 1.5, 2.0, 2.5 and 3.0mm which will accommodate various preparations such as rat tail artery, portal vein, pulmonary aorta, or other isolated large vessels. Additional sizes are available upon request. Bath sizes are 10ml and 25ml.

Available in single channel (158700-1) and four channel (158700-4) systems or by individual components.

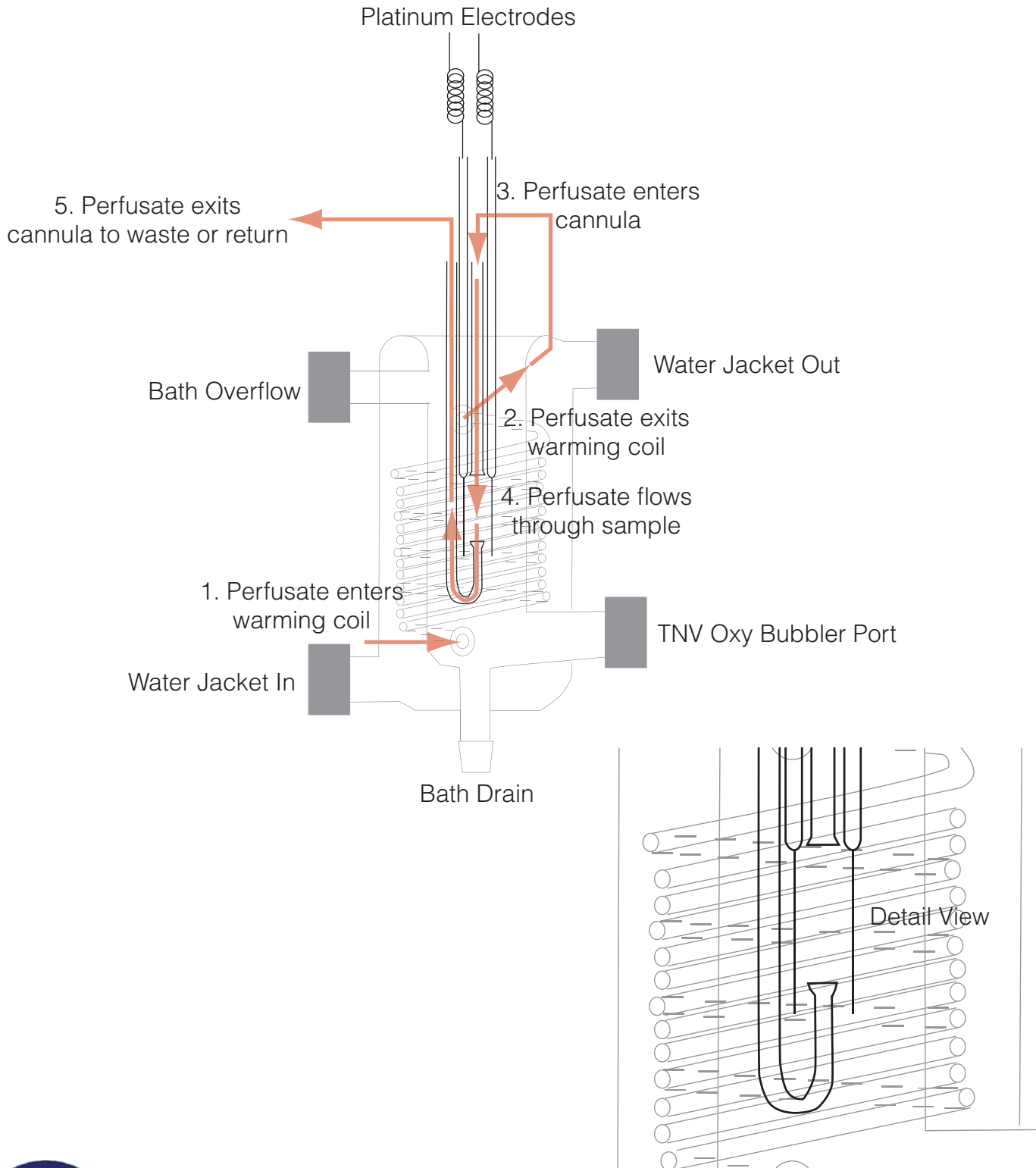
Blood Pressure Perfusion System



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