

Excised Patch Chamber with Two Slotted Open Baths

Permits solution exchange around a membrane patch without contaminating the associated cell population



- Designed for excised patch studies
- Open chamber design
- Dual slotted baths in two sizes
- Baths separated by a controllable dam

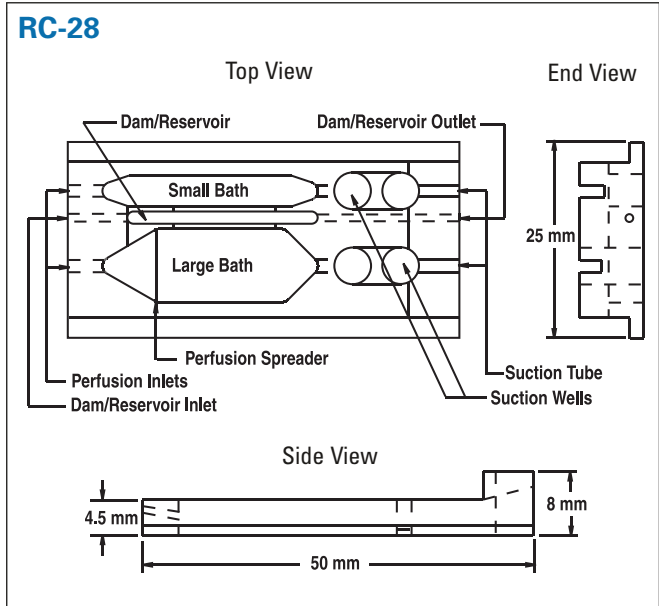
The RC-28 is a special chamber containing two bath compartments separated by an adjustable dam. The dam functions both as a gate and barrier between the two main baths. The composition and flow rate of each bath can be independently controlled, and each bath has a separate stainless steel suction tube for perfusion.

The dual slotted, open bath design allows for the exchange of solution surrounding an isolated membrane patch without contaminating or modifying the rest of the cell population. Raising the solution level in the dam area joins the two baths, while lowering the solution level isolates the two baths. After patching onto a cell in the large bath compartment, the dam is flooded, enabling secure transfer of the electrode attached cell to the smaller compartment. The dam is then drained, isolating the relocated cell.

For the larger chamber, the bath area is 21 x 9.5 mm and the working volume is 243 µl per mm of solution height. For the smaller chamber, the area is 28 x 3.8 mm and the volume is 111 µl.

A platform (P-6, PH-6, or PM-6) and stage adapter are required to complete the assembly for mounting onto a microscope. The chamber bottom is formed by a 24 x 50 mm coverslip.

The RC-28 is supplied with a pack of #1 thickness glass coverslips (CS-24/50, 24 x 50 mm, 50/pkg) and 10 feet of PE-160 polyethylene tubing.



Specifications

Material	Polycarbonate
Small Bath Dimensions (L x W x H)	28.0 x 3.8 x 4.5mm
Large Bath Dimensions (L x W x H)	28.0 x 9.5 x 4.5 mm
Small Bath Volume, by depth	111 µl
Large Bath Volume, by depth	243 µl
Small Bath Specimen Area (L x W)	28 x 3.8 mm
Large Bath Specimen Area (L x W)	21 x 9.5 mm
Bottom coverglass	24 x 50 mm
Input tubing (ID x OD)	1.14 x 1.57 mm (PE-160)
Aspirator coupling	1.67 mm (OD)

Order #	Model	Product
W4 64-0243	RC-28	Excised Patch Recording Chamber
W4 64-0282	P-6	Platform, non-heated
W4 64-0289	PH-6	Platform, heated
W4 64-1527	PM-6	Platform, heated magnetic

Accessories and Replacement Parts

W4 64-0755	PE-160/10	Polyethylene Tubing
W4 64-0709	CS-24/50	Coverslips, 24 x 50 mm