



ENVIRONMENTAL CHAMBER

MEMORY STORAGE FOR UP
TO 100 PROGRAMS

WRITE PROTECTION LOCK AND
DATE STAMP

TWO SYMMETRICAL PIPETTES
WITH EACH PULL

TWO COOLING MODES,
TIME AND DELAY



P-97 FLAMING/BROWN MICROPIPETTE PULLER

The **P-97** micropipette puller is the latest generation of the Flaming/Brown type puller for fabrication of micropipettes, patch pipettes and microinjection needles. While retaining many of the features of earlier models, the **P-97** offers improvements in mechanical, electronic and software design. The result is better control of the pulling process and a higher degree of reproducibility. The **P-97** combines a proven mechanical system with a sophisticated, programmable microprocessor controller. This programmable control of the pulling parameters allows the investigator to design application specific pipettes from a wide range of glass compositions and sizes.

A number of other features have been incorporated in the design of the **P-97**. One of the most apparent is the environmental chamber which houses the area surrounding the heating filament. The environmental chamber is designed to minimize the effect of changing humidity on the reproducibility of pulled pipettes. A 25% increase in power over the previous

version allows for the use of larger heating filaments, larger diameter glass and multi-barreled glass. The metal jaws that clamp the heating filament have also been redesigned to minimize heat retention. There are two modes of cooling; time and delay. The delay mode provides extended cooling for large diameter and multi-barreled glass. A spring-loaded clamping mechanism has been added for easier loading of glass. A vacuum fluorescent display has been added that allows easy viewing from any direction.

Software improvements on the **P-97** include a display of the total time that the heat is on to assist in program development and troubleshooting. Up to 100 programs can now be written and stored in memory, which makes the **P-97** suitable for multiple users. These programs can now be write-protected, adding security to prevent programs from being changed or altered inadvertently. The display shows the last date and time the program was written or edited. In addition, the air pressure is a programmable parameter.

P-97

Flaming/Brown type micropipette puller, manual, and Pipette Cookbook

Each puller comes with an assortment of 4 filaments and a sample box of BF100-50-10 and BF150-86-10 glass. Sutter pre-programs the P-97 with a 2.5mm box filament unless an alternative filament is requested.

ACCESSORIES

FPS

Fire polishing spacer for P-97 and P-87 pullers.

CTS

Ceramic tile for scoring glass (large tips 20-200 microns).

BX10

Pipette storage box – holds 10

BX20

Pipette storage box – holds 20

* Patent No. 4,600,424



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