ENVIRONMENTAL CHAMBER FOR HUMIDITY CONTROL

PROGRAMMABLE AIR PRESSURE

MEMORY STORAGE FOR UP TO 100 PROGRAMS

WRITE PROTECTION AND DATE STAMP FOR EACH PROGRAM

TWO SYMMETRICAL PIPETTES WITH EACH PULL

TWO COOLING MODES: TIME AND DELAY

PRE-PROGRAMMED SAMPLE PROGRAMS FOR INTRACELLULAR AND PATCH PIPETTES. SPECIAL PROGRAMMING ON REQUEST

RAMP TEST TO ESTABLISH PROGRAM HEAT SETTINGS WHEN A NEW FILAMENT OR GLASS IS INTRODUCED

VACUUM FLUORESCENT DISPLAY

CONSTANT CURRENT POWER SUPPLY FOR FILAMENT AND PULL SOLENOID

P-97 FLAMING/BROWN™ MICROPIPETTE PULLER

The **P-97** Flaming/Brown™ type micropipette puller is ideal for fabricating 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**. Most apparent is the environmental chamber which surrounds the heating filament. This environmental chamber is designed to minimize the effect of changing humidity on the reproducibility of pulled pipettes. A 25% increase in power over previous versions allows for the use

of larger heating filaments, larger diameter glass and multi-barrel 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-barrel 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.

Software improvements on the **P-97** include a display of the total heat-on time 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, glass stop, manual, and hard copy of Sutter Pipette Cookbook

Each puller comes with a FB255B filament and a sample box of BF150-110-10, 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.

* Patent No. 4,600,424

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