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HISTO/Orientator[™]

Catalog # TO-120, TO-220

Operations Manual

Version 1.3, February 2001

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INNOVATIONS FOR SCIENCE[™]

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INTRODUCTION

Congratulations on your decision to purchase a TBS® **HISTO**/ORIENTATOR™. Your instrument is a useful device for warming slides to attach frozens or smoothing out the wrinkles of a freshly prepared paraffin section. Individual user preference, as to whether you touch the slide to the heated plate or hover it above, is determined by the time required to obtain the desired effect. A little experimenting with various positions and time is all that it takes to find what works best in your lab. As the paraffin begins to become transparent before fully melting, remove the slide and stain as normal. You will find that your sections are virtually wrinkle-free.

IMPORTANT: Examine carton and Histo-Orientator for concealed damage. If any damage is apparent, contact TBS immediately. Do not discard the box or any packaging material before the damage is inspected and documented by a representative of the carrier.

INSTRUCTIONS FOR OPERATION

Select a location for the Histo-Orientator on a table or workspace free of any direct draft. The rate that your unit heats and the ultimate plate temperature are dependent on the actual room temperature and any voltage deviation from 110-120 volts (for the TO-120) or 220-240 volts (for the TO-220). If your unit warms too slowly, other demands on the same power source may be lowering the voltage.

CAUTION: Do not touch plate surface and metal housing after unit has been turned on. Prolonged contact can cause a mild burn.

Before making the electrical connection, make certain that the electrical characteristics of the outlet agree with the electrical specifications on the rear of the instrument. The unit should then be plugged into a standard three-wire grounded outlet.

Push the control switch to the "ON" position indicated by the "I". The lighted indicator "ON/OFF" switch should illuminate, signaling that the unit is now functioning and that the current is passing through the heating element. In about 30 minutes, the plate temperature should approach 50°C and reach 65°C in one hour. The instrument will ultimately stabilize between 70°C and 80°C.

SPECIFICATIONS

		TO-120	TO-220
Electrical Requirements		110-120VAC 50/60 HZ 0.5 Amps	220-240VAC 50/60 HZ 0.25 Amps
Dimensions (WxDxH)	in. cm.	2 x 2 x 3 5.1 x 5.1 x 7.6	2 x 2 x 3 5.1 x 5.1 x 7.6
Weight	lbs. kg.	2.2 1.0	2.2 1.0