

FORCEPS WARMER

Catalog # FW-120, FW-220

Operations Manual

Version 1.3, February 2001

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INTRODUCTION

Congratulations on your purchase of a new TBS® Forceps Warmer. This innovative instrument is designed to eliminate paraffin build-up on forceps and other small laboratory instruments. Less than an hour after turning the unit on, it will reach peak temperature and remain constant throughout the workday. Mobility and sloped surface design provide easy accessibility for the technologist during embedding procedures.

TBS® is pleased to release a forceps warmer designed to melt paraffin from forceps used in handling cassettes and metal molds at your embedding stations. This product offers an affordable replacement for those burnt out warmers built into embedding stations. Its small size enables the warmer to fit on any countertop or conveniently next to an embedding station.

INSTRUCTIONS

1. Remove equipment from shipping carton carefully. Save shipping carton and all packing material until proper operation of the unit is confirmed. Immediately notify carrier if there is any visible damage to the carton or contents. Failure to do so may limit your ability to recover damages.

NOTE: There is no assembly required for the operation of this instrument.

2. Before plugging the unit in, make certain that the electrical requirements of the outlet agree with the electrical specifications of the unit.

NOTE: If your unit was shipped outside of the U.S., check the label on the rear of the instrument for the electrical requirements.

3. Plug the unit into a standard three-wire grounded outlet.
4. Push the control switch to the "ON" position. The switch should light up indicating the forceps warmer is on.
5. Allow approximately 30 minutes for the warmer to reach melting temperature.
6. The forceps warmer will achieve an approximate temperature of 95°C and remain constant.

NOTE: Consistent line voltage between 118-120V (for the FW-120 model) or 220-240V (for the FW-220) should be maintained for constant current flow to the heating element. Excessively warm or cool room temperatures will also affect the temperature of the unit.

CAUTION: Do not touch the outer casing of the forceps warmer when in use. Prolonged contact could cause a mild burn.

7. Turn off the warmer when not in use for prolonged periods to save electricity, and increase the life of the heating element.

SPECIFICATIONS

	FW-120	FW-220
Electrical Requirements	100-120VAC 50/60 HZ 0.5 Amps	220-240VAC 50/60 HZ 0.25 Amps
Dimensions (WxDxH) in. cm.	5 x 3 x 3 12.7 x 7.6 x 7.6	5 x 3 x 3 12.7 x 7.6 x 7.6
Weight lbs. kg.	3 1.4	3 1.4

PARTS LIST

Part Number	Description
H-FW-1	HEATER BLOCK
H-FW-2	COVER
H-FW-3	BASE
0170321A1	15W HEATER (1.75x3.25)
CRSL1A125VM9	ON/OFF LIGHTED LAMP
19-7	BOOT FOR LAMP
IPC-65001A	POWER CORD
561-MP6W1	STRAIN RELIEF
517-SJ-5018BK	RUBBER FEET
534-916	GROUND LUG 6-32
A-AGC050	.5 AMP FUSE
A-FH1	FUSE HOLDER
MISCELLANEOUS	RTV SILICONE
	SERIAL NUMBER LABEL
	6-32 1/4" SS SCREWS