



TRIANGLE BIOMEDICAL SCIENCES, INC.

3014 CROASDAILE DRIVE • DURHAM, NORTH CAROLINA 27705-2507 • USA • 919.384.9393 • FAX 919.384.9595 • E-MAIL: tbs@trianglebiomedical.com

SLIDE DRYER II

Catalog # SD-II-120, SD-II-220

Operations Manual

Version 1.3, February 2001

TABLE OF CONTENTS

<u>TOPIC</u>	<u>PAGE</u>
WARRANTY CARD	Insert A.
INTRODUCTION	1
INSTRUCTIONS FOR OPERATION	2
TROUBLESHOOTING GUIDE	3
REPLACEMENT PARTS	3
SPECIFICATIONS	4

INTRODUCTION

Congratulations on your decision to purchase a TBS® **SLIDE**Dryer II. Your instrument is designed to rapidly dry slides by circulating heated air over their surface. The air temperature can be controlled between 30° to 70° Celsius.

The drying chamber is accessed through a hinged lid on top of the unit. The lid has a hole in the top for insertion of a standard laboratory thermometer. This can be used if close monitoring of the temperature is needed. The drying chamber is designed to hold two standard staining racks.

INSTRUCTIONS FOR OPERATION

- Basic Functions** To operate the Slide Dryer, set the unit on a flat surface and plug the ends of the accompanying power cord into the back of the unit and a wall outlet respectively. Once plugged in, the unit can be switched on using the On/Off power switch on top of the unit. When the unit has been turned "ON", the switch will light up and you should hear the fan come on. As the thermostat is turned clockwise, the amber "HEATER ON INDICATOR" lamp light is visible.
- Drying** To start drying slides, dial the thermostat to the desired setting and place the staining racks inside the drying chamber. The amber "HEATER ON INDICATOR" lamp will cycle on and off as heat is needed to maintain the temperature setting. If the thermostat is set to maximum, the Section Dryer will require approximately 20 minutes to equilibrate. Insert a thermometer to determine the setting that is best for the laboratory.
- Overheating** If the temperature inside the unit ever reaches unsafe levels the heater will be shut off automatically and the red "OVERHEAT INDICATOR" lamp will illuminate. The fan will continue to run and once the temperature is reduced to safe levels the heater will automatically come on. If the red lamp lights up frequently, turn the thermostat to a lower setting. If the problem persists, contact TBS Service Dept.
- Operating Conditions** The fan should always be audible when the unit is "ON", as indicated by the green "POWER" switch.
- The amber "HEATER ON INDICATOR" lamp will continuously cycle on and off. This should be accompanied by a small "click" each time the lamp changes.
- The stainless steel drying chamber will be hot to the touch during normal operation. Use caution when opening and closing. Use the black plastic knob to open and close the lid of the chamber.
- While monitoring the temperature with a thermometer, a temperature swing of 5-6 degrees will occur as the heater comes on and off.
- Cleaning** To clean the inside of the drying chamber, first allow the section dryer to cool down as described above. Once the unit is cool, turn the power switch "OFF" and unplug the unit. The grill can be removed using the end of a pen or pencil (all the inside surfaces of the drying chamber will be reachable). Use a mild detergent.

TROUBLESHOOTING GUIDE

<u>Symptom</u>	<u>Solution</u>
1. If clicking of thermostat can be heard but amber lamp does not light.	Replace amber lamp.
2. If fan does not come on.	Replace fan.
3. If green power light does not come on.	Check fuses*, replace if necessary with 2 amp fuses. If fuses are intact, replace on/off switch.
4. If amber lamp lights up and stays on but temperature does not increase.	Replace the heater.

* Fuses are located inside the power entry module on the back of the unit. The back of the module can be snapped off using a flat head screwdriver; the red insert can then be pulled out using same screwdriver. The fuses are now accessible. Be sure when reinstalling the red insert that the voltage is visible through the cover.

REPLACEMENT PARTS

<u>Part Number</u>	<u>Description</u>
TU-V	Thermostat
5SF2LRN1	Red Neon Lamp
5SF2LAN1	Amber Neon Lamp
PS00SDH30	Power Entry Module
LTA201-TGB	On/Off Switch
3110PS-12W-B30	Fan
S01-075-05-0150	Overtemp Cutoff
SD-9010	Heater

SPECIFICATIONS

		SD-II-120	SD-II-220
Electrical Requirements		100-120VAC 50/60 HZ 2 Amps	220-240VAC 50/60 HZ 1 Amp
Fuse Ratings		2 amp fuse for line 2 amp fuse for neutral	2 amp fuse for line 2 amp fuse for neutral
Dimensions (WxDxH)	in. cm.	10 x 11 x 5 25.4 x 27.9 x 12.7	10 x 11 x 5 25.4 x 27.9 x 12.7
Weight	lbs. kg.	10.5 4.7	10.5 4.7