BPI Production Master™ For use only by qualified personnel in a laboratory environment. Due to high operating temperature, access should be restricted. BPI® does not warrant the use of non-BPI® products in this instrument.

Turn off the unit when you have finished tinting for the day. Never allow the tanks to run drv. Do not leave unattended.

Specifications

The Production Master[™] System is a twotank lens tinting system geared for volume production requirements. The chassis and liner pan are all stainless steel. The system requires 220 volt. 50/60 Hz and and is circuit breaker protected at 20 amp. Components are UL and CSA recognized.

NOTE: Be sure always to use the ground prong on the power cord for safe operation; never bypass it.

Unpacking

When unpacking your tint system, please check to ensure that no concealed damage occurred in transit. If such is noted, save the shipping carton and immediately notify the shipping company's damage control inspector in your area so a claim may be processed. Failure to do this may void any future claim and replacement. Also, call BPI Customer Service so arrangements for a replacement may be made. Please verify that you have received all the items listed above.

Setting Up

Place your system on a LEVEL work surface convenient to an electrical receptacle. Make certain all switches are OFF. Pour 2 gallons + $1\frac{1}{2}$ quarts of heat transfer fluid over the heating elements into the base unit BEFORE turning ON any switches. If heat is turned on before the heat transfer fluid is added, (With the dye tanks in place so that the elements are submerged), element failure may result due to excessive temperatures of the element.

Place the two stainless steel tanks into the main unit and fill them with about 1 gallon of

TANKS	HEIGHT	WIDTH	LENGTH	WEIGHT	TRANSFER Fluid	CIRCUIT Breaker	VOLTAGE	AMPERAGE	
2 x 1.5 gallon	9 in.	25 in.	15.25 in.	56 lbs.	10 quarts	20 amps. 250v.	220v	13 amps.	
2 x 5.67 L	22.86 cm	63.50 cm	38.73 cm	25.5 kg	9460 ml	ZOUV. Circuit Breaker/Switch			
THE SET-UP KIT INCLUDES THE FOLLOWING PRODUCTS:							SYSTEM LAYOUT		
 BPI Lens Prep II[™] BPI Heat Transfer Fluid BPI 4 Pair Lens Rack (two) BPI Molecular Catalytic [™] tint (One each: gray, blue, yellow, brown, pink, & greer 			 Manual & instructions Tanks Precision thermometer HTF siphon pump 		er GAL	WO 1.25 Lon Tanks 5.67 Liters)			

working dve solution, or with 3/4 gallon of water if Diamond Dve 400[™] is to be used.

Mixing of the UV Diamond Dve[™] 400 nm into this tank is to be done with the unit warm so it is important to read the following section before proceeding. Heat to approximately 140°E THOROUGHLY SHAKE the bottle of Diamond Dye[™] and add the appropriate amount to the distilled water. (Note: always use the entire contents of the bottle) Stir well after adding. Bring the temperature of the Diamond Dye[™] solution up to 180° F. After 10 minutes at this temperature, increase to the working temperature of 200° F. DO NOT EXCEED this temperature as a boil-over may occur.

Heating up

The system has an ON/OFF switch, a temperature control dial, and an indicator lamp. The light in the switch comes on when the switch is turned ON and is merely an indicator that power is reaching the unit. The lamp above the temperature control dial indicates when power is being applied to the heating element.

Plug the unit into a properly grounded 220 volt electrical receptacle (The 220 volt model is shipped without a plug and requires a qualified technician for installation).

Turn the switch ON. Set the temperature control dial to position 1. When the thermostat lamp goes out, the unit has reached this low idle temperature. It is recommended that a quality lab thermometer be used to monitor the tank temperature since it will DIFFER from the thermostat setting which is controlling the temperature of the heating element area.

Note

During the first few days of use, foaming may occur and can be controlled by adding cold distilled water and skimming the foam from the surface. Save the foam in a separate clean container so that it may be re-added as the level drops due to evaporation.

Treating Lenses

Lenses to be treated with UV dye should be clear: if they have been previously tinted or edge coated, first remove the color with Neutralizer II[™] to prevent the color from leaching out into the UV dye solution. Tinting and edge coating is to be done after UV treatment.

Clean lenses thoroughly and place in a clean UV Lens Holder II[™], stainless steel lens holder, or any Lens Rack[™] which holds up to 42 lenses of differing sizes. It is important that the lens holder be clean to prevent contamination of the UV dve with other dves.

Immerse lenses in heated Lens Prep II [™] for 10 or more seconds. Immerse lenses in Diamond Dye[™] solution and agitate for about 10 seconds. The total immersion time for most normal lenses will be 30 to 60 minutes. Time will vary according to the previous usage of the solution and the hardness of the lenses. Soft lenses may take as little as 30 minutes.



The times may be somewhat reduced by periodically stirring the Diamond Dye™ solution. Do NOT leave lenses in the dve bath longer than 3 hours because Diamond Dye™ is capable of penetrating through the entire lens and causing lens damage. Remove lens holder with lenses from the UV solution, rinse in clean Lens Prep II[™] solution, and then rinse in cool water. Dry with a soft lint-free cloth such as a Kaydry[™].

CHECK RESULTS using a meter that tests for transmission in the spectral range known as UVA.

Since standards for UV transmission are in a state of change (including the definition of UVA), BPI cannot specifically state what is an acceptable UVA transmission reading. We believe that a reading of 1% or less on any of the variety of BPI UV meters will meet existing and currently proposed standards. If lenses are placed in Neutralizer II[™] during the course of tinting, check lenses again for UV transmission. After removing lenses from the oven, allow them to air cool to room temperature. Do NOT place lenses in cool water because thermal shock may damage the lenses.

Neutralizer

BPI Neutralizer II[™] is for removing color from CR-39[™] lenses ONLY. **Read precautions.**

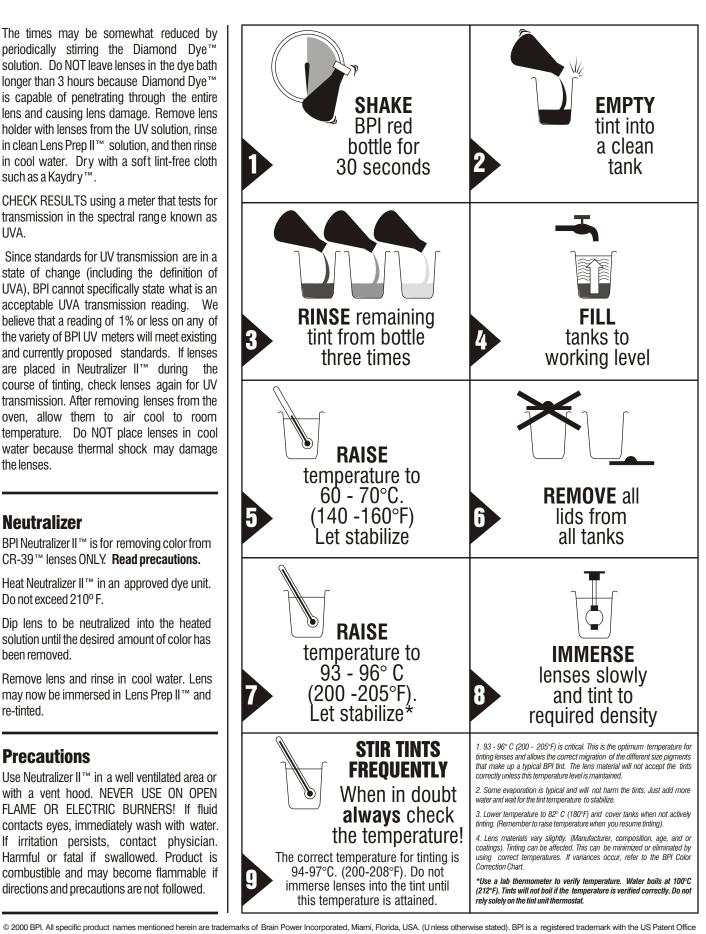
Heat Neutralizer II[™] in an approved dve unit. Do not exceed 210° F.

Dip lens to be neutralized into the heated solution until the desired amount of color has been removed.

Remove lens and rinse in cool water. Lens may now be immersed in Lens Prep II[™] and re-tinted.

Precautions

Use Neutralizer II[™] in a well ventilated area or with a vent hood. NEVER USE ON OPEN FLAME OR ELECTRIC BURNERS! If fluid contacts eves, immediately wash with water. If irritation persists, contact physician. Harmful or fatal if swallowed. Product is combustible and may become flammable if directions and precautions are not followed.



and with similar offices in other countries. MANUAL FILE# M2042