BPI Color Lab I^{M}

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 dry. Do not leave unattended.

Specifications

The Color Lab I^{TM} System is a linear arrangement of six half-gallon tanks. The chassis and liner pan are all stainless steel. In addition, units with six 5-StrokeTM Gradient Lensors are available for the high volume lab. The system requires 220 volt, 50/60 Hz and is circuit breaker protected at 20 amp. C omponents are UL and C S A recognized. (NOTE: Be sure always to use the ground wire on the power cord for safe operation; never bypass it.)

Unpacking

When unpacking your dye 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.

Setting Up

Place your system on a LEVEL work surface convenient to an electrical receptacle. Make certain all switches are OFF.

Pour 8 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 stainless steel dye solution tanks into the main unit. Reserve one tank for Neutralizer II^{TM} and another tank for Lens Prep II^{TM} . Fill

TANKS	HEIGHT	WIDTH	LENGTH	WEIGHT	TRANSFER Fluid	CIRCUIT Breaker	VOLTAGE	AMPERAGE	
6 half gallon tanks	9.5 in.	9 in.	45.5 in.	66 lbs.	2 gal.	20 amps. 250v.	220v	14 amps.	
6 x 1.89 L tanks	24.13 cm	22.86 cm	115.57 cm	30 kg	7570 ml	Circuit Breaker/Switch			
THE SET-UP KIT INCLUDES THE FOLLOWING PRODUCTS:							SYSTEM LAYOUT		
 BPI Lens Prep II ™ BPI Neutralizer II ™ BPI Heat Transfer Fluid BPI Lens Holder II ™ BPI Molecular Catalytic ™ tints (2 6-packs) (Two each: gray, blue, yellow, brown, pink, & green) 				 Tanks & Adapter 	tlet (UL systems		SIX HALF GALLON TANKS (6 x 1.89 LITERS)		

the remaining tanks one-half full with water (distilled is preferred for grays and browns) and add one color of dye to each tank. BPI dyes are sold in concentrated solutions and are to be diluted to obtain the working solution. FOLLOW the instructions that come with the dye for proper mixing. Add a little water to each dye bottle and shake well to remove the residual pigment in the bottle; add to the orresponding dye solution. Add water to the dye tanks to achieve the correct working level.

Pour Neutralizer IITM (full strength) into one of the reserved tanks and Lens Prep IITM (diluted to 1 part to 32 parts water) into the other reserved tank.

Lens Prep II[™] is normally heated but works well at room temperature. Some users of this size unit prefer to have another color on line rather than heat the Lens Prep II[™] working solution.

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.

The lids may be in place at this temperature to speed the initial heat up. When the thermostat lamp goes out, the unit has reached this low idle temperature. Remove the tank lids to prevent boilover before working towards higher temperatures. Gradually increase temperature settings until the dye solution is heated to $200-210^{\circ}$ F (190-200^{\circ} F for gradients and light tints). It is recommended that a quality lab thermometer be used to monitor the dye temperature since it will DIFFER from the thermostat setting which is controlling the temperature of the heating element area.

If there is going to be a time lapse between batches, the unit may be idled at half scale on the thermostat setting and the lids placed on the dye tanks to minimize evaporation and reduce the time it takes to attain operating temperature for the next batch. Since the pigment does not evaporate, you may simply add water from time to time to replace evaporative losses.

Coloring Lenses

- 1. Place one pair of lenses in lens holder.
- 2. Check the temperature of tints with the supplied thermometer before immersing lenses into dye bath. Immerse in Lens Prep II™ for 30 seconds.
- 3. Transfer to dye bath still wet. Take care



to minimize the introduction of Lens Prep II[™] in the dye bath as it may cause color shifts. Dye times vary from less than one minute to greater than 10 minutes.

- 4. Place back into the Lens Prep II[™] for a few seconds.
- 5. Wash lenses using tap water and dry with a soft, lint-free cloth or Kaydry.
 6. Check for density and color.

For more detailed instructions, refer to the BPI booklet "The Practical Guide to Lens Tinting".

Neutralizer II™

BPI Neutralizer II^m is for removing color from CR-39^m lenses ONLY. Read precautions below.

- 1. Heat Neutralizer II[™] in an approved dye unit. Do not exceed 210° F.
- 2. Dip lens to be neutralized into the heated solution until the desired amount of color has been removed.
- 3. Remove lens and rinse in cool water.
- 4. Lens may now be immersed in BPI Lens Prep II[™] and re-tinted.

Precautions

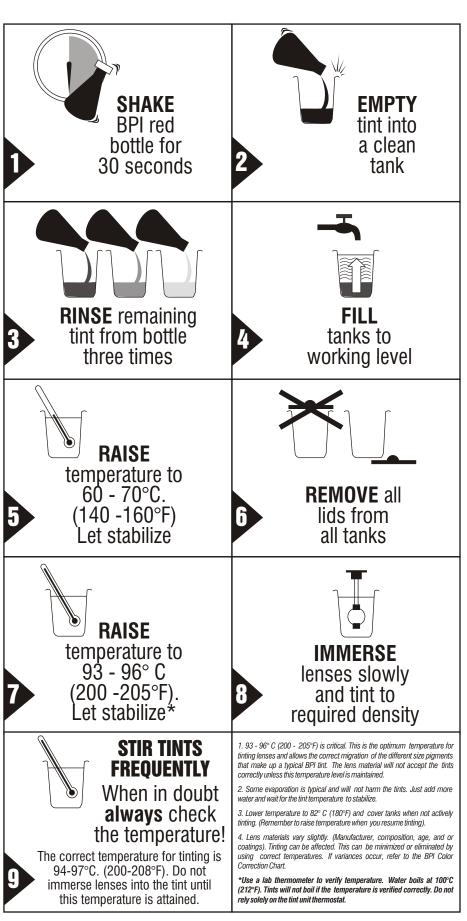
Use Neutralizer II[™] in a well ventilated area or with a vent hood. NEVER USE ON OPEN FLAME OR ELECTRIC BURNERS! If fluid contacts eyes, immediately wash with water. If irritation persists, contact physician. Harmful or fatal if swallowed. Product is combustible and may become flammable if directions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

Color Lab I™ Gradient

The (optional) Color Lab I[™] Gradient System combines 6 independently controlled 5 Stroke Gradients into one unit which is easily positioned behind the tinting unit. (See separate manual).

Questions

If you have any questions about the use of your lens coloring instrument or require information about any BPI product or to order supplies, please give us a toll-free call on the number shown for your area.



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