BPI®Digital Temperature Controller II™

For use only by qualified personnel in a laboratory environment.

Due to high operating temperature, access should be restricted.

Specifications

The BPI® Digital Temperature Controller II™ (BPI®#62904) is an add-on feature for most lens tinting systems that allows for precise digital temperature control.
The system requires 110 volt, 50/60 Hz (220 volt available, BPI®#206904) and is fuse protected by a 20 amp, 250 volt ceramic fuse. Components are UL and CSA recognized. (NOTE: Be sure always to use the ground wire on the power cord for safe operation; never bypass it.)

Dimensions

The unit is about 5" wide, 7" deep, and 5" high and has a 5' long probe cord.

Unpacking

When unpacking your 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.
You should have received the following:
• BPI® Digital Temperature Controller II™
• 1 Stainless Steel Probe Holder

Setting Up

Place your system on a LEVEL work surface convenient to an electrical receptacle. Make certain the switch is OFF. Check to be sure that the 20 amp fuse is in the fuse-holder located at the rear of the machine by the power cord.
Plug the lens tinting system into the receptacle at the rear of the Digital Temperature Controller II™. Turn the lens tinting system power switch 'ON' and set the lens tinting system thermostat its maximum setting or electrically bypass the thermostat. Place the probe and probe holder into the tint tank who's temperature is to be critically controlled.

Heating Up

The system has an ON/OFF switch. The light in the switch comes on when the switch is turned ON and is merely an indicator that power is reaching the unit.
Plug the unit into a properly grounded electrical receptacle (The 220 volt model is shipped without a plug and requires a qualified technician for installation). Turn the switch ON.

Note

The digital temperature controller will regulate the temperature of the tank in which the probe is affixed. This must be one of the tink tanks. The other tanks will be at nearly the same temperature.

BPI®Digital Temperature Controller II™

Checking The Set Temperature

To check the set temperature, briefly press the 'UP' or 'DOWN' button, The 'SET' light will come on and the set temperature will be displayed.

Changing The Set Temperature

To change the set temperature, press the 'UP' or 'DOWN' buttons while the 'SET' light is lit. Temperature settings are usually 200-210°F (93-98°C) or 190-200°F (88-93°C) for gradients and light tints. If there is going to be a time lapse between batches, the unit may be idled at 150°F (65.5°C) 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.

Notes

The display may be changed to °F or °C by pressing the '°F/°C' button.
Do not add water to the controller tank without adding water to the other tanks.
If your gradient is plugged into the convenience receptacle of the lens tinting system, it should be disconnected and plugged into a wall receptacle.

Advanced Options

To re-calibrate the controller, place the probe in boiling water at 212°F and press the '°F/°C' button for 10 seconds. The display will produce some strange numbers. Press the 'UP' and 'DOWN' buttons at the same time. Whatever temperature the probe sensed at that moment will henceforth be called '212°F'.
Should you ever wish to restore the factory temperature calibration, press the '°F/°C' button for 10 seconds until the display reads strangely, then press 'UP', 'DOWN' and '°F/°C' buttons all at the same time.

Questions? Ordering...

If you have any questions about the use of your lens coloring instrument, please refer to our pamphlet, "The Practical Guide to Lens Tinting" for general information. To places orders or to receive technical support, please call your local BPI® office.

BPI# 62904
BPI# 206904