Cat. #509

DuoSource™ Power Supply

SPECIFICATIONS:

Max Output Voltage: 150 V
Fuse: 1.0 Amp 250V Glass Fuse
Input Power: 110V, 60 Hz; 220V, 50 Hz
Max Current: 75 mA
Connection: 3-Wire Grounded Cord

SAFETY FEATURES:

- **Load connect detection** - unit will display an error unless a connection is made.
- **Short circuit detection** - unit will display an error if thecurrent is too high.
- **Loose connection detection** - unit will display an error if thecurrent keeps changing.
- **Recessed terminals** - terminals are recessed to safelyaccommodate leads.
- **Protective casing** - minor liquid spills can be easily wiped up.

OPERATING INSTUCTIONS:

1. Turn unit on by using the **switch** on the rear of the unit next to the plug.
2. Use the **100/150 Volt button** to select the desired voltage (either 100 V or 150 V).
3. Use the **up and down "minutes" button** ⏶⏷ to set the time for experiment run.
4. Once the parameters have been set, secure the leads to both the device or chamber and the appropriate red and black receptacles on the power supply.
5. Press **run/pause button** ⏸▶ to begin. For electrophoresis, continue to occasionally monitor the tracking dye in the samples to ensure they do not run off the end of the gel.
6. To pause the electrophoresis run, press the **run/pause button**. Make sure there is no current running before removing the lid. You may resume the run where you left off after securing the lid.
7. To stop the power, hit the **run/pause button** and then turn off the unit using the **switch** in the back of the unit.

CURRENT-VOLTAGE RELATIONSHIP:

V=IR

V = Voltage, I = Current, R = Resistance

Ohm's Law states that the voltage (V) through a conductor is directly proportional to the current (I). The constant of proportionality is the resistance (R).

Therefore, our power supplies can be set either to a constant voltage or a constant current, however they cannot both be controlled at once. The resistance is determined by a number of factors including the device that the current is being applied to, and any buffer or gel in that device.

DANGER!
Electric Shock

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