

Short user's manual

VWR[®] Real-Time Electrophoresis System

(EU Cat. No.: 700-1473)

This product is for research use only

Warnings

Symbols and Conventions

	CAUTION This symbol indicates a potential risk and alerts you to proceed with caution
	CAUTION This symbol indicates the presence of high voltage and warns the user to proceed with caution



To avoid electrical shock, do not use this product with wet hands.



When operating, do not move or bump the system, do not put your finger or any other objects into the migration tank.



Do not detach the power supply module from the migration tank when the power is on. Attempting to do so can cause damage.



Please carefully read this instruction manual before operation to avoid any personal injury. Only trained laboratory personnel should operate the system.



Do not attempt to open or repair Real-Time Electrophoresis System. Contact VWR for service.



Always use the Real-Time Electrophoresis System in an environment with low humidity and low dust, also keep away from water, direct sunlight / strong light, corrosive gas, high magnetic fields, heaters, fires and other heat sources.



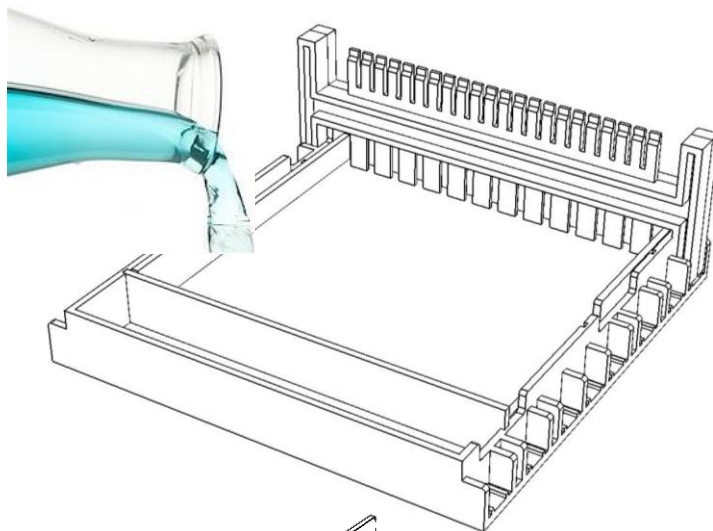
The power switch for the power supply is located on the top of the control panel, press "I" to power on, "O" to turn off.



Always turn off the power after operation. When not in use, detach the power supply and store in an area that is free from moisture and dust.

Gel Preparation

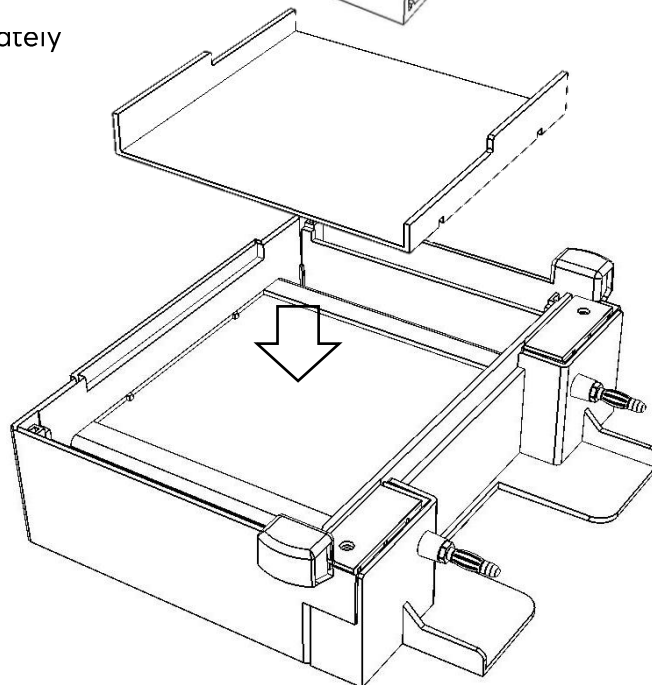
Place the gel tray into the casting stand. Use the divider as needed. Pour the agarose gel/DNA stain solution into the gel tray to make a gel approximately 4mm thick.



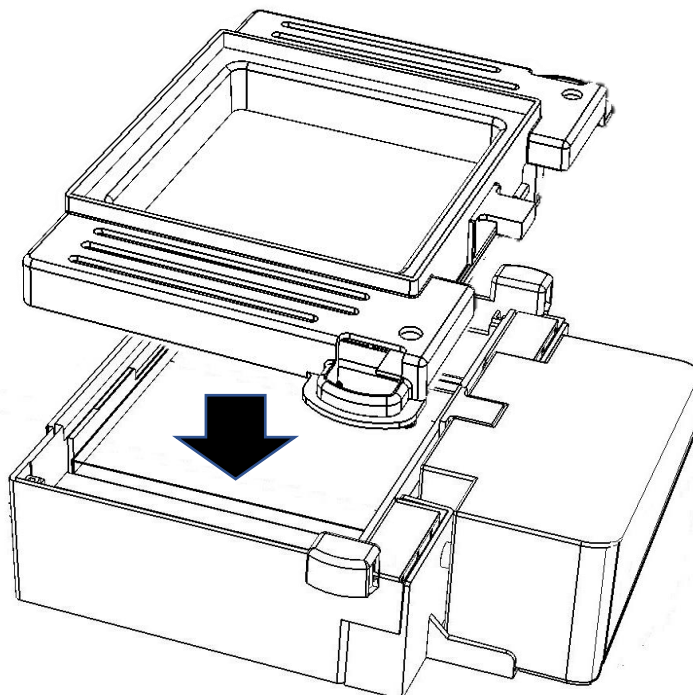
Note: Let agarose mixture cool to approximately 60° C before pouring into the gel trays

Insert gel and tray into tank and attach the cover

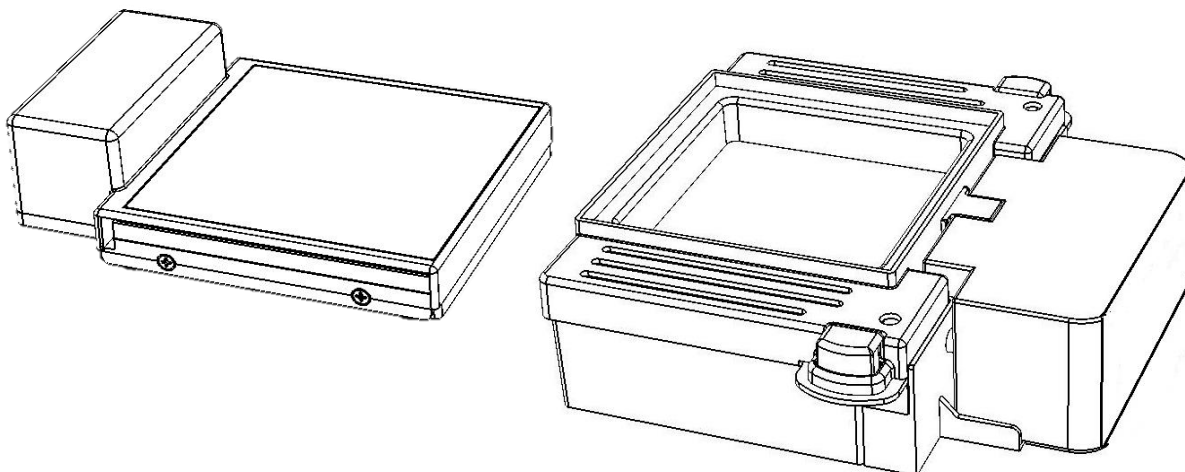
Place a prepared gel, together with the gel tray onto the gel bed inside the gel tank. Add running buffer to cover the gel. Pipette DNA samples into the gel wells.



Carefully lower the safety cover onto the gel tank, making sure to align the magnet with the sensor recess. The orange viewing filter should fully contact the surface of the buffer so there are no bubbles visible. If the buffer level is too low, remove the cover, and add more buffer to the tank.

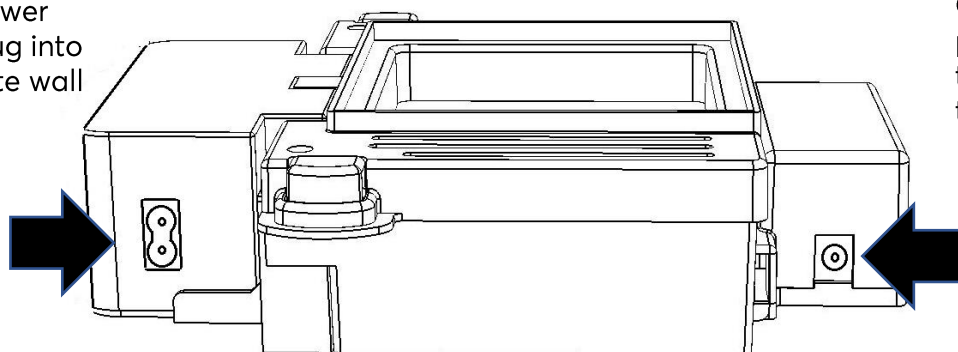


Slide the blue LED illuminator under the gel tank.



Connect Power Supply, place LED transilluminator in place, and connect the power cords.

Connect the power cord to the power supply and plug into the appropriate wall outlet.



Connect the 12V power supply to the LED transilluminator

Note: If using 220V to 240V input power, use the included transformer for the input to the power supply.

Operating the power supply and running a gel

Press ▲▼ to set the run time

Press the Voltage Selector button to choose voltage
35V, 50V or 100V

Press the "Start/Stop" button once to start a run.

To stop a run in-process, press and hold "Start/Stop" for 3 seconds. T

If removing the gel at the end of an electrophoresis run, turn off the power, remove the lid and remove the gel tray.

To visualize the DNA separation in the gel during electrophoresis, turn on the blue LED illuminator using the ON/OFF switch.



Imaging with a smart phone

To take a picture of the gel using a smart phone camera, fit the imaging enclosure onto the lid of the gel running tank.

Insert the included orange photo filter into the top platform of the enclosure.

Turn on the smart phone's camera application and align the camera lens with the photo filter.

For complete operating instructions, please refer to the full product user manual.

