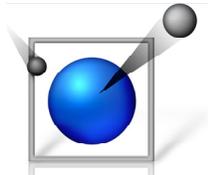


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NEUTRON SCIENCES



**GE Healthcare PhastSystem
120V Model
(Separation and Control Unit
only)**

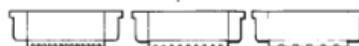
PhastGel buffer strips



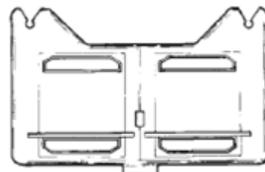
PhastGel sample-well stamp



PhastGel separation media



PhastGel sample applicators

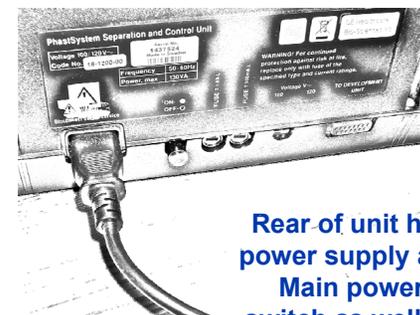


PhastGel buffer strip holder

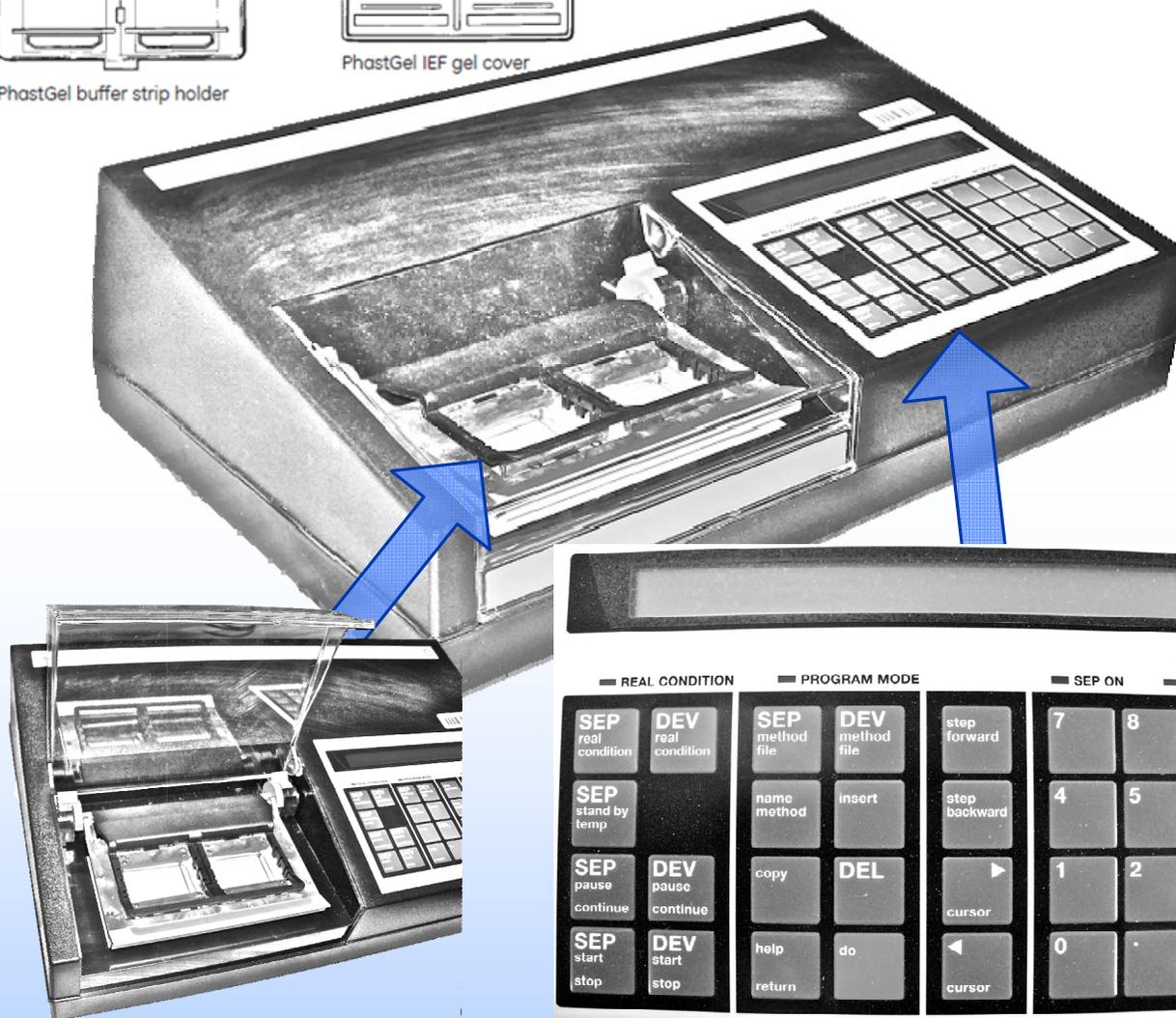


PhastGel IEF gel cover

**Various
components for
testing.**



**Rear of unit has
power supply and
Main power
switch as well as
data ports.**



**Separation bed with two
spots for PhastGel
inserts.**



Control unit keypad

SETUP



Setting the standby Temperature

- 1 Press "SEP standby/temp".
- 2 Use cursors to adjust. Press "do".
- 3 It normally takes 3-4 minutes to heat bed to 50 deg. Celsius.

Naming the method

- 1 Press "name method".
- 2 Press "step forward" to get to the number of your method.
- 3 Press the right or left arrow button to get to the first character. Press "do".
- 4 Repeat for all characters.

Setting the method

- 1 Press "SEP method file".
- 2 Choose an open number for your method. Press "do".
- 3 Press "step forward" for Ct curve instruction. For more information see pg. 61 of the User's manual.
- 4 Press "step forward" to go to alarm settings. Press the right arrow key to set when alarm will sound.
- 5 Continue pressing "step forward" to adjust parameters.
- 6 After step 20, the display will show "END OF METHOD". You can always use "step backward" to double check your settings.

Preparing the gel compartment (IEFmedia)

- 1 Switch unit on and set standby temperature.
- 2 Lower electrode assembly and sample applicator arm onto bed (NOTE: NO SAMPLES are loaded yet).
- 3 Press down on both red levers to adjust to lowest setting.
- 4 Fit PhastGel IEF media cover into place. Electrodes will protrude through slots. AVOID TOUCHING with fingers.
- 5 Wipe off bed with moist, lint free cloth.

Preparing the gel

- 1 Place drop of water or insulating fluid into gel area on separating bed.
- 2 Take 1-2 gel packs from refrigerator. Use scissors to cut 3 sides of bag and use forceps to remove from pack. Make sure protective film does not stick to bag.
- 3 Use waterproof pen to mark gel packs for identification.
- 4 Using tab as handle, place gel in bed and gently peel film off.
- 5 Remove excess water with cloth.
- 6 Lower electrode assembly.
- 6 Lower sample arm and compartment lid.

Preparing the sample

- 1 Select the appropriate sample-well stamp.
- 2 Place sample-well stamp on flat table and lay Parafilm over it (with protective side up).
- 3 After choosing the desired lane of holes, rub a pen or other hard object over the Parafilm to create depressions.
- 4 Remove protective cover from Parafilm and place with depressions up so they may be filled with samples.
- 5 Fill depressions with TWICE the capillary volume of the sample applicators.

Preparing the gel compartment (electrophoresis media)

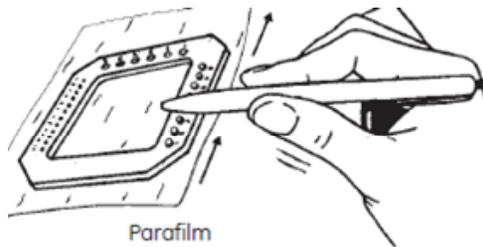
All steps are identical to IEF media except the following:

- Place the two red levers to lowest position
- Remove IEF holder and place gels directly on bed.
- Place PhastGel buffer strip holder over gels, aligning holes with pins
- Wearing gloves, remove buffer strips from foil and place in buffer holder and close arm and compartment door.

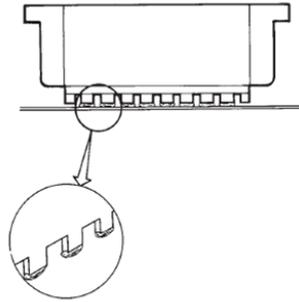
For additional help contact the Lab Space Manager

OPERATION

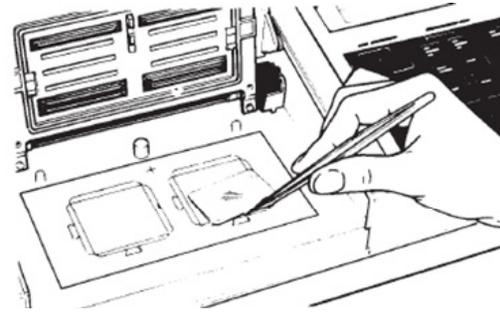
HAZARDS



Preparing the sample-well.



Sample applicator being touched to samples on Parafilm.



Positioning gel pack into separation bed.

Starting the run

- 1 Ensure unit is on and that the standby temperature is set.
- 2 Press “SEP start/stop”, and enter number of gels being used.
- 3 Press “do”.
- 4 Enter the number of the method you plan to run. If you’ve named your method it should be displayed as well.
- 5 Press “do”.

Monitoring the run

- 1 Unit will display the adjustments it is making to the temperature to bring the separation bed temperature to the set temperature.
- 2 Once the temperature of the bed equals the set temperature, the method will start.

Stopping a run

- 1 Press “SEP start/stop”.
- 2 Press “do”.

Adding samples

- 1 To add samples during a run, press “SEP pause/continue”. The SEP LED will blink and an alarm will sound every 20 seconds as a reminder.
- 2 Open lid and slide applicator into slot. Close lid and press “SEP pause/continue”.
- 3 Press “do”.



ELECTRICAL HAZARD

This equipment contains electrical parts that may come into contact with skin or liquids.



SLIPPING HAZARD

This unit requires the use of liquids which may present a slipping hazard.



FIRE HAZARD

This unit generates heat. Improper usage may result in a fire hazard.



CHEMICAL HAZARD

Because chemicals are being used in and near this unit, chemical spills are possible.



HOT SURFACE HAZARD

This unit generates heat as a part of its operation.

PREVENTION



EYE PROTECTION

Wear safety glasses while operating.



PROTECTIVE GLOVES

Wear appropriate gloves for heat and chemical usage.



NON-SLIP, CLOSED SHOES

Wear non-slip, closed shoes to avoid spills.



READ MANUAL

This guide contains information for quickly using the unit. For full details consult the User's Manual.

For additional help contact the Lab Space Manager