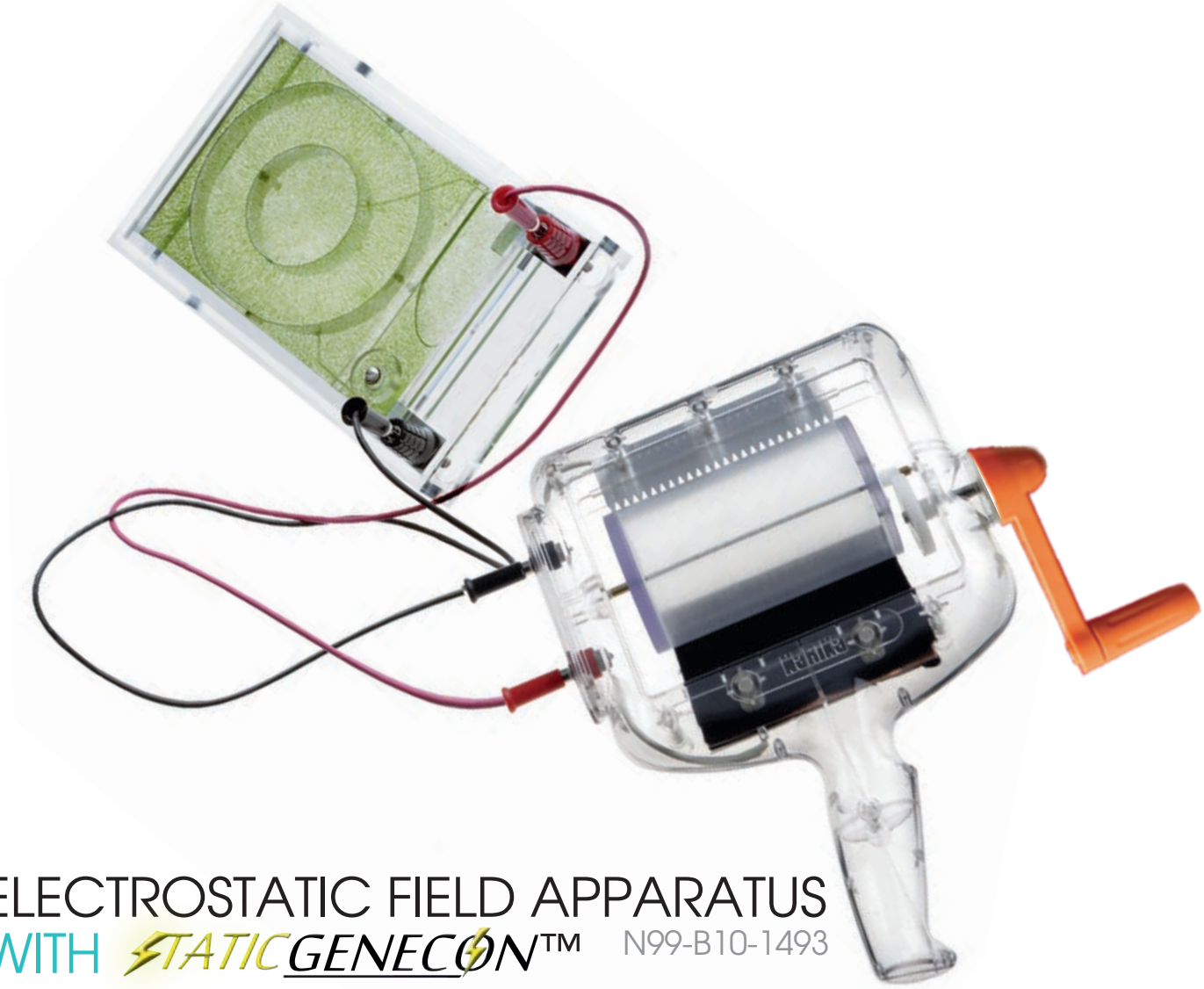
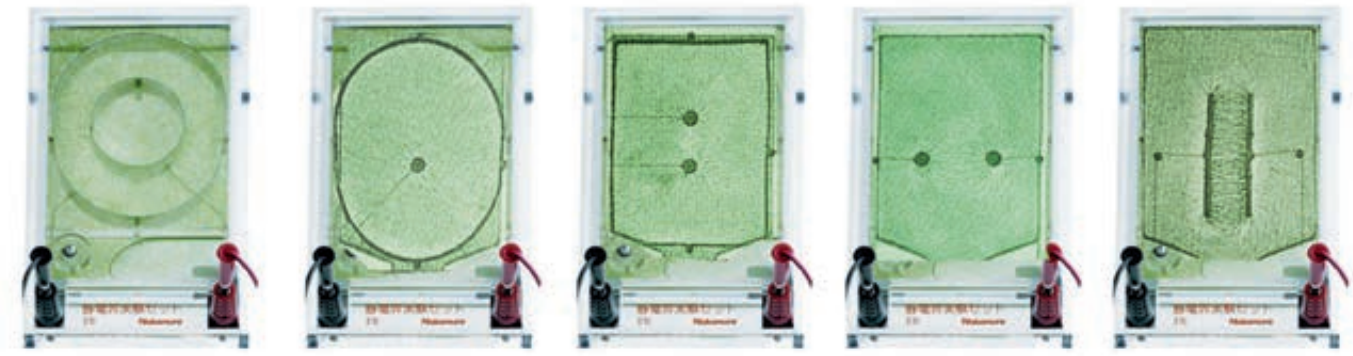


ELECTROSTATIC FIELD APPARATUS WITH STATICGENECON™

N99-B10-1493



Manual of Operations

IMPORTANT!

Read the following before using this equipment:

Carefully follow all instructions and observe all precautions given in this manual

Version2.2.JL120216

LOOK US UP ONLINE

PURPOSE

This unique apparatus is designed for the observation of electric lines of force. The visible lines are generated by applying an external electric field to the plastic observation tank, which is filled with a special solution. Individual or classroom size demonstrations can be conducted by using an overhead projector. Select any of the five electrode plates to enhance this experiment.

CONSTRUCTION

- Observation Tank
  - Made of Transparent Plastic.
  - Size: 160mm x 105mm x 7mm (L x W x H)
- Holder
  - Holds the observation tank which is inserted laterally.
  - Made of Transparent Plastic.
- Electrode Plate
  - Placed on the observation tank.
  - Caution: Do not press it down with force.
- Static Genecon Power Source
  - Applies high voltage to the electrode plate.
  - Connect the black lead wire to the black inlet on the holder, then connect red lead wire to the red inlet on the holder.

OPERATION

1. Attach the observation tank to the holder (insert it laterally with the air chamber upward). Set the stopper. The observation tank should not be too clean. Slightly smear with a drop of oil to increase the observation tank's responsiveness to static electricity.

2. Lay the holder on an overhead projector (if applicable). Tilt the holder so that the air bubble comes out of the air chamber to stir the liquid in the tank. Once stirring is complete, tilt the holder to return the air bubble back to the air chamber.
   Caution: Do not set the electrode plate on the observation tank during this operation.

3. Set the electrode plate into position with electrode on the inlet side of holder.
   Caution: Forcing the electrode plate into the observation tank can damage the unit.

4. Adjust the focus of the Overhead Projector (if applicable).

5. Connect the black ground lead wire of the Static GENECON™ to the black inlet on the holder and the red lead wire of the Static GENECON™ to the red inlet on the holder.

6. Turn the handle of the Static GENECON™ to generate an electric current, then watch the formation of lines of force.

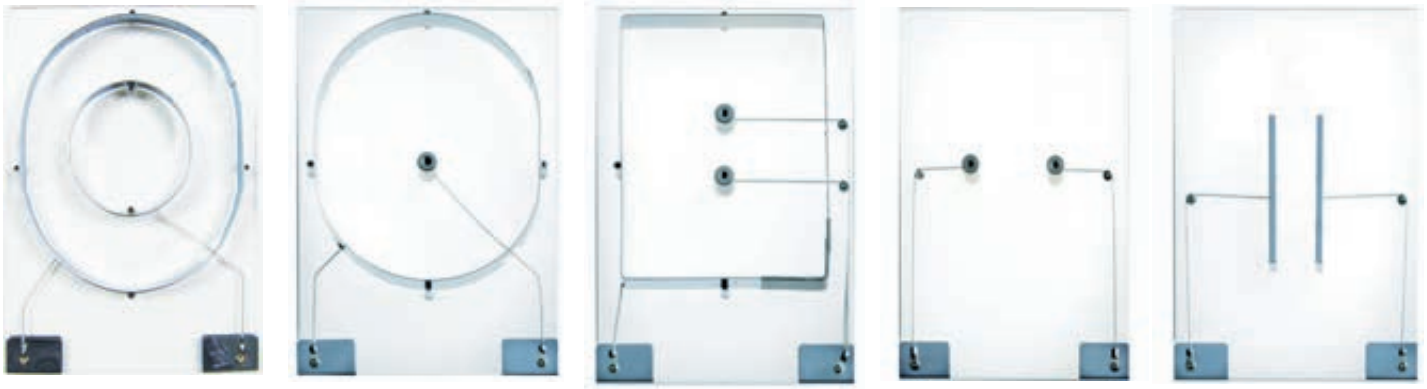
7. When replacing the electrodes or making new electric lines of force, be sure to remove the electrode plate and stir the liquid with the air bubble.

8. If the results are unsatisfactory due to humidity or other factors, wipe the glass of the observation tank with a drop of alcohol.

STATIC GENECON™

DESIRABLE CONDITIONS TO OBTAIN OPTIMAL RESULTS

1. The observation tank must not be charged with electricity.
2. The observation tank must be well insulated.



THE ELECTRODE PLATES