



Serrata Point Discharge Whirler

Point Discharge Whirler

Cat No.1052222V

Van de Graff Generator Accessory. Demonstrates that discharged particles have energy enough to rotate the whirler.

DO NOT use the Whirler with any power source other than the Van de Graaff generators. Under no circumstances should it be connected to any AC or DC voltage or used except as described.

The electric whirl is a spoked wheel which is supported at its centre on a cone bearing. Hold the unit by the base and fairly level. Bring it near the dome of an operating Van de Graaff generator and the wheel will begin to spin rapidly.

The electrons from the dome escape to the arms of the wheel and the high voltage concentration at the sharp points ionizes the air nearby. So these, charged particles are then repelled. The rotation of the wheel is the result of the equal but opposite reaction to the repelling of the ionized air. The direction of rotation is always such that the spokes move away from the points.



The demonstrations described in these instructions may involve hazards from careless handling or incorrect procedures. This equipment should only be used under the supervision of a qualified, certified science teacher.