A GEISSLER TUBES

Glass tubes formed in different shapes and with varying degrees of vacuum , to illustrate various discharge phenomena, illumnation patterns etc. Each tube has cemented caps on each end for connection to induction coil or EHT power supply.

P95001 Set of six tubes, each 20 cm. Size

P 95003 Set of six tubes in wooden case, with rotary switch for connection to one tube at a time.

GAS DISCHARGE TUBES, SET OF SIX

To demonstrate phenomena of discharge at different degrees of vacuum. The set has six tubes with pressures of 40mm., 10mm., 6mm., 2mm., 0.1mm. and 0.001 mm. of mercury, marked on respective tubes . On passing current, each tube shows a different nature of discharge and also different glow at cathode.

P95007

B GAS DISCHARGE TUBES , SET OF SIX

As above, but with a stand to hold all the six tubes and a rotary switch to activate each tube one by one .

P95009

C SPECTRUM ANALYSIS TUBES

20 cm. long, straight form , with side electrodes and a fine capillary in the middle . Each tube is filled with one of these : Oxygen, Neon, Helium, Air, Nitrogen, Argon, Ammoina vapours, Alcohol vapours, Carbon dioxide, Hydrogen, Iodine vapours, Sulphur vapours.

P95014

SPECTRUM ANALYSIS TUBES

As above, but filled with any of the these :
Acetylene, Bromine vapours, Carbonic acid, Carbon oxide, Chlorine, Hydrogen sulphide, Nitrogen, Sulphurous acid, Fuming sulphuric acid, Methyl alcohol, Xylol, Xenon.

P95020

D STAND FOR SPECTRUM TUBE

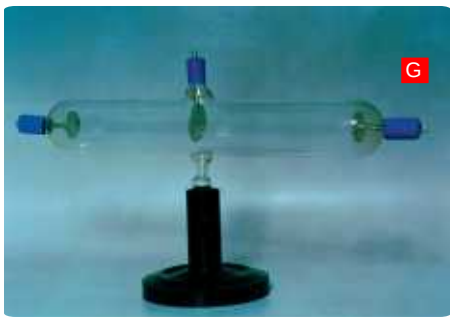
With two 4 mm sockets, mounted on wooden base.

P95022

POWER SUPPLY FOR SPECTRUM TUBES
See cat No. P62055

E CROSS AND SHADOW TUBE
To show rectilinear propagation of cathode rays A cross in the path of cathode rays casts its shadow on the fluorescent wall.
P95030

F DEFLECTION TUBE
To show deflection of cathode rays by a magnet . Horizontal tube is fitted with a fluorescent aluminium plate , the cathode side of which is bent at right angle and is provided with a slit . Cathode rays passing through the slit cast a sharp and bright shadow across the aluminium plate . When a magnet is brought near , the cathode rays deflect sharply.
P95035



G CANAL RAY TUBE
To show positive rays. Vertical type , with two fused discs at each end and a perforated cathode in the center through which canal rays pass. The space below the cathode is filled with characteristic glow of cathode rays and the upper portion has canal rays. A magnet brought near the upper portion will repulse the rays, showing the positive nature of the canal rays
P95040

H ELECTRICAL RADIOMETER, MECHANICAL EFFECT
Glass sphere having two side disc electrodes and set of mica vanes placed on a vertical spindle rotating under impact of cathodes rays. The vanes start moving in opposite direction if polarity of current is changed.
P95045

I MOLECULAR VIBRATING TUBES
Highly evacuated glass tube with mercury & glass beads. Upon heating on a spirit lamp, the glass beads soon start moving in exact resemblance to the Brownian movement.
P95048

A X-RAY TUBE

Comprises a glass sphere with a concave disc electrode generating cathode rays and focussing on a tungsten target, placed at the inner end of arm exactly opposite, for use with induction coil.

P95055

X-RAY UNIT, COMPLETE

Combined unit with built-in X-ray screen holder, induction coil, X-ray tube and screen

P95058

B RECTILINEAR PROPAGATION OF CATHODE RAYS

V-shaped to demostrate cathode rays extend in straight lines perpendicular to cathode disc.

P95062

C REPULSION TUBE

Vertical tube with two parallel wire cathodes at two ends of tube with third electrode to serve as anode.

P95067

D HEATING EFFECT, PLATINUM FOIL

Cathode rays generate intense heat when focussed at a point, shown by platinum foil becoming red hot.

P95070

E HEATING EFFECT, WAX COATING

Wax melts quickly when cathode rays are focussed on it, showing cathode rays generate intense heat when focussed at a point.

P95075