Pulsed IEC System

**DC Discharge Circuit**
- Grid Cathode (7 cm Diameter)
- Vacuum Chamber (45 cm Diameter, 31 cm High)
- C.T.
- High Voltage Transistor Switch (36 kV Maximum)

**Pulsed Discharge Circuit**
- Mesh Anode (30 cm Diameter)
- Cathode: Stainless Wire (φ 1.2 mm)
- Anode: Stainless Mesh (0.5 mm-pitch)
- H₂ or D₂ (1–20 mTorr)
- 0–120 kV
Photograph of Pulsed Discharge Plasma

Gas: H₂
Pressure: 11.0–19.0 mTorr
Charging Voltage: −20 kV

Jet Mode

Star Mode
Cylindrical IEC System

Cathode: Stainless Rods (φ2.0 mm) x 8
Anode: Stainless Mesh (0.5 mm-pitch)

Cathode Grid (5.0 cm Diameter, 26 cm High)
Mesh Anode (16 cm Diameter, 31 cm High)
Vacuum Chamber (45 cm Diameter, 31 cm High)

H₂ or D₂ (1–50 mTorr)

H.V. Power Supply