

Functionality and specifications of the new CTA Power Supply

CTA now offers an entirely new generation of high voltage power supplies which form the heart of our electrostatic precipitator installations. These power supplies have been especially designed and developed for CTA and an extensive program of operational and safety testing has been carried out to ensure high reliability, economical operation and low power consumption.

The power supply has two outputs, one adjustable and one fixed. The adjustable output operates in the range from 0V-20kV, adjusted by a 10 turn potentiometer located on the front panel, enabling optimization of the ioniser. The secondary output is a fixed 5kV-8kV output.



Front view



Rear view



These power supplies can deliver a maximum of 80mA on the 20kV output. Special fittings are provided to ease the connection of insulated high voltage cabling. One power supply can be used with between 1 and 14 EP cells, the number depending on the nature of the installation. Each power supply is independently controlled with remote switching or PLS control.

The power supplies are mounted in special designed cabinets holding up to 10 power supplies each. Each cabinet is provided with a heat exchanger to ensure cool, stable operating conditions.



The cabinets come finished with all the connections and wiring needed, and require only a 230V power connection. Each power supply is protected by an individual 16A circuit breaker.