

Plasma Furnaces for Gas Heating and for Melting

H. R. P. Schoumaker

Since the last symposium in Kiel, Germany, in 1973, we have more results to present on the use of plasma furnaces.

In the field of gas heating, we have developped a 200 kW three phase plasma furnace for the heating of pure hydrogen, used for decomposition of halides.

We have also developped a 280 kW three phase plasma furnace for the reforming of natural gas used for research on blast furnaces.

In the field of melting, we have improved the performances of the rotary furnace installed at Saclay, by increasing the power up to 250 kW, and installing a lock chamber.

Dr. H.R.P. Schoumaker
Head of the plasma department
Electrotherm S.A.
Brussels /Belgium