



## POWER CUBE SYSTEM 900

### Advanced solid-state Generator, controlled by microcomputer

The Power Cube System 900 is a high power Induction unit in a very compact size with embedded advanced microprocessor based control software and state-of-the-art electronics.

The system consists of a **Power Cube generator series 900** equipped with an **integrated Controller** and a graphic **TFT display for programming**.

### Fully integrated Heating System

- Programmable Generator, controlled by microcomputer
- One or two heating heads, applicable on special adjustable supports
- One or two antioxidant/cooling gas diffusers
- One or two CEIA SLE optical pyrometers with Lens and stand SH-23
- FieldBus interface

### Feature Highlights

- HIGH POWER OUTPUT
- CONTINUED ACTIVATION OF ONE HEAD or ALTERNATE ACTIVATION OF TWO HEADS
- INCORPORATED TEMPERATURE CONTROL with 3 control modes
- MANAGEMENT OF TWO OPTICAL SENSORS for control of the heating temperature
- FIELD BUS INTERFACE
- INTERNAL MEMORY to store up to 10 working receipts
- WIDE RANGE OF ANALOG-DIGITAL I/O SIGNALS
- MAINTAINS STABLE AND ACCURATE OUTPUT POWER even as working conditions change
- HIGH SAFETY: all models output isolated from the mains
- BUILT-IN SELF-DIAGNOSIS
- COMPLIANT with the Regulations on Electrical Safety and Electromagnetic Compatibility
- Supplied with CALIBRATION CERTIFICATE

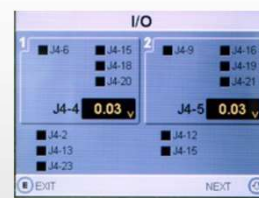
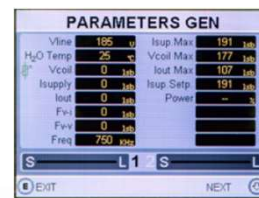
### Power Supply

- power supply voltage 180 — 260Vac single phase - 50/60 Hz
- maximum absorbed power: 3.5 kW
- average power at inductor 45 kVAR
- cooling by water pressure 300kPa: rate of flow 1.5 - 2 l/min for each head connected

The functions managed by the Generator include the temperature reading by means of CEIA optical pyrometers of the SLE series, the related power regulation and the activation (by means of relays) of antioxidant/cooling gas diffusers. A wide 3.5" high-resolution colour display allows the operator to access programming function parameters quickly. **All the process parameters are available on screen.**

### Integrated advanced Controller

- Digital and analogical control of the power
- 3 programmable control modes
- Management of two optical sensors to control the temperature
- Extremely fast closed-loop control algorithm (0.5ms feedback control time) for the most accurate power and temperature regulation
- Constant and repeatable power generation via microprocessor control
- Independent programming for each heating head
- Internal memory with 10 sets of working parameters



### Interface Functions

The Field Bus and RS-232 interfaces allow connection to a PLC or other external logic for remote programming, activation, inhibition, control of the output power, the temperature, the operational status of the generator and any working parameters.

### Field Bus Management (Industry 4.0)

Management and control of the heating process via Field Bus protocol:

- EtherCAT
- EtherNet IIP
- ModBUS
- ProfiBUS
- ProfiNET