

91001

61 - 144 kW Generator



A Milestone in Corona Generator Technology

In combination with a SOFTAL corona or plasma station the 91001 series generator provides functionalization and optimal adhesion on the surface of your products.

This milestone in generator technology offers a variety of advantages for the daily routine in production, which we know, through long experience, will really count at the end of the day.

Product Features

Modular Construction

with assemblies utilising up to twelve complete 12 kW inverter modules.

Straightforward Service

The inverter modules are all identical and therefore easily exchangeable without the necessity of a service visit.

Intuitive Operation

The generator has as standard a colour touch screen with intuitive operator guidance. This operator interface provides maximum process control. The generator may also be controlled with analog interface or Fieldbus as options.

Remote Maintenance

A digital interface allows SOFTAL service to connect to the generator and access diagnostic and operation memories. Expensive service visits can be minimised without compromising service quality.

Adhesion guaranteed!

Generator 91001, 61 - 144 kW

Technical features

- 12 kW inverter modules mounted on cold plates (number dependent on generator power and application).
- Intuitive operator guidance with colour TFT touch screen, which may be password protected as required.
- Operator menu in various languages.
- Output power control in Watts.
- IGBT power output stage short circuit protected.
- Greater than 95% efficiency of the output stage of the generator through operation at resonant frequency.
- Stable control of the output power using feedback control system.
- Early detection and warning of deviation from standard (voltage, current, temperature).
- Operation and diagnostic memory stored in real time.
- Monitoring of output power module temperature (°C or °F).
- Alarm output (230 V, 500 mA or potential free).
- Treater roll rotation monitor with selectable minimum corona start/stop speed.

Options

Software: Controlled Corona Power factor (CCP), Duty Cycle Regulation (DCR), Soft Corona Start (SCS), Skip Corona Treatment (SCT), LookBack, Remote access.

Hardware: Remote control, extraction fan connection, audible or visual alarm, autotransformer for special voltages, cooling cabinet cooling system.

Technical data

| | |
|--------------------------------|---|
| Treatment power | max. 144 kW |
| Output frequency | 15 – 35 kHz |
| Mains voltage | 3 x 380 – 460 V, 50/60 Hz |
| Protection | IP43 |
| Dimensions (WxHxD) | 1600-2200 x 2200 x 600 mm |
| Weight | approx. 490 – 1000 kg (depending on number of modules) |
| Colour | RAL 7035, light grey, textured |
| Environment temperature | max. 40°C (without optional cooling system) |
| Optional remote control | - TFT colour touch screen - Analog interface (FS04) - Fieldbus (CANbus, Profibus, ProfiNET, Device Net, Control-Net, Ethernet IP) |



Improved dyeing



No more wet chemicals



Low operating cost



Improved adhesion



High wettability



Custom-engineered solutions



SOFTAL Quality



Environmentally friendly process



Uninterrupted operation