



# COMPACT 80/6

Low tension heat treatment machine – resistance method

## DIMENSIONS:

Depth 960 mm

Width 779 mm

Height 1035mm (with wheels)

## WEIGHT:

430 kg

## POWER:

80 KVA

## OUTPUT NR.:

n. 6 independent outputs

## MAIN TECHNICAL CHARACTERISTICS:

- max current in output 150A
- three phase power supply 400V 50/60Hz
- current absorption 116A
- power control by static switch SCR
- single output power 13,5 KVA (n.3 heating elements for each output-50A)
- continuous temperature regulation 0 to 1000°C
- automatic regulation of heat treatment cycle temperature
- manual/automatic mode regulation
- insulation transformer with 80 KVA power and output voltage 45 or 90 Volt
- 6 independent outputs, voltage 45 or 90 V
- Over temperature security
- 160A magneto-thermic general switch
- IP 20 security protection
- N. 1 microprocessor temperature electronic board suitable to control 6 outputs with the following characteristics:  
mode selection: manual/automatic  
band alarm + - 20°C  
linear interpolation of thermocouple  
automatic room temperature compensation



[Image shows 110kw model as example]

---

*“Power control by static switch SCR allows a more accurate and appropriate power managing”*

---



[Recorder mod. Shinko HR-700]

### TEMPERATURE RECORDER

Microprocessor temperature recorder, range 0 ÷ 1000°C, Ni/Cr-Ni/Al "K" type thermocouples, flowing of diagram paper 20 mm/h, n. 6 plotting points, width of scale 100 mm.

- Inputs, paper speed and scale range programmable
- precision ± 0,3% of the scale range ± 1 digit
- dimensions 144 x 144 mm



[Programmer mod. DP2]

### PROGRAMMING UNIT "DP2"

Microprocessor heat treatment cycle programmer in manual/automatic mode which can programme and display the following functions:

- set points
- holding times
- heating and cooling rates
- absorbed current
- alarms
- measured temperature
- possibility to choose among n.6 languages (Italian, English, French, German, Spanish and Portuguese)

- backlighted digital display
- touch key panel IP55 (with 16 keys) to set the heat treatment cycle parameters
- possibility to record n.6 heat cycles

---

*"Each machine is equipped with recorder and programmer assembled on board"*

---





## CONNECTING CABLE SET

### POWER CABLES



*N. 6 Bi-polar cables connecting the power unit to the heating element cables*

- Length 15 Mt
- Sect. 35 mmq
- Rubber insulation
- Connectors for 400A welder

### HEATING ELEMENTS CONNECTING CABLES



*N. 12 Three-way cables connecting the power cables to the heating elements*

- Length 1,3 Mt
- Sect. 10 mmq
- High temperature silicon insulation
- n. 1 connectors for 400A welder and n. 3 connectors with ¼ turn 60 A quick coupling.

### THERMOCOUPLE CONNECTING CABLES



*N. 6 Compensating cables type "KX" for the thermocouple connection*

- Length 15 Mt
- Insulation PVC+PVC 105°
- Polarized connectors type "K"

**Contacts:**  
**Suntec srl** Via delle Industrie, 13 – 26013 Crema  
**Email:** [info@suntec.it](mailto:info@suntec.it)  
**Web site:** [www.suntec.it](http://www.suntec.it)