

COMPACT 110/12

Low tension heat treatment machine – resistance method

DIMENSIONS:

Depth 960 mm

Width 779 mm

Height 1035mm (with wheels)

WEIGHT:

490 kg

POWER:

110 KVA

OUTPUT NR.:

n. 12 independent outputs

MAIN TECHNICAL CHARACTERISTICS:

- max current in output 100A
- three phase power supply 400V 50/60Hz
- current absorption 160A
- power control by static switch SCR
- single output power 9 KVA (n.2 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 110 KVA power and output voltage 45 or 90 Volt
- 12 independent outputs, voltage 45 or 90 V
- Over temperature security
- 160A magneto-thermic general switch
- IP 20 security protection
- N. 2 microprocessor temperature electronic boards suitable to control 6 outputs each one 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

N.2 Microprocessor temperature recorder, range $0 \div 1000^{\circ}\text{C}$, 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 $\pm 0,3\%$ 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. 12 Bi-polar cables connecting the power unit to the heating element cables

- Length 15 Mt
- Sect. 25 mmq
- Rubber insulation
- Connectors for 400A welder

HEATING ELEMENTS CONNECTING CABLES



N. 24 Two-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. 2 connectors with 1/4 turn 60 A quick coupling.

THERMOCOUPLE CONNECTING CABLES



N. 12 Compensating cables type "KX" for the thermocouple connection

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

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