

# COMPACT-VT 55/3

Low tension heat treatment machine – resistance method – variable tension

## DIMENSIONS:

Depth 960 mm

Width 779 mm

Height 1035mm (with wheels)

## WEIGHT:

290 kg

## POWER:

55 KVA

## OUTPUT NR.:

n. 3 independent outputs

## MAIN TECHNICAL CHARACTERISTICS:

- max current in output 200A
- three phase power supply 400V 50/60Hz
- current absorption 80A
- power control by static switch SCR
- **single output power 18 KVA (n.4 heating elements for each output-50A)**
- continuous temperature regulation 0 to 1200°C
- automatic regulation of heat treatment cycle temperature
- manual/automatic mode regulation
- insulation transformer with 55 KVA power, output tension 45-0-45V
- **3 independent outputs 0÷90 V**
- Over temperature security
- 125A 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  
PID regulation  
variable band alarm selectable by operator  
linear interpolation of thermocouple  
automatic room temperature compensation



[Image shows 110kw model with the optional paper recorder assembled as example]

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

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## VIDEOGRAPHIC TOUCHSCREEN 7" PROGRAMMER / RECORDER

- TFT 7" touch screen display, 800x480 pixel with backlighting
- Functioning temperature -20 +65 °C
- Degrees °C or °F
- Accuracy class 0,3
- Set points, hold times, heating and cooling gradients, absorbed current and alarms setup
- Programming memory with 10 pre-set heating cycles.
- 8GB recorded cycles memory (equivalent to thousands of heating cycles)
- Recorded cycles download on USB key
- Status alarm (High and low temperature, interrupted thermocouple)
- Multilanguage (Italian, English, French and Spanish)
- Integrated instruction manual
- Protection Degree IP65



## PAPER AUXILIARY RECORDER ASSEMBLED ON THE MACHINE (OPTIONAL TO BE REQUESTED)

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  $\pm 0,3\%$  of the scale range  $\pm 1$  digit
- dimensions 144 x 144 mm





## CONNECTING CABLE SET

### POWER CABLES



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

- Length 15 Mt standard (other lengths available upon request)
- Sect. 25 mmq
- Rubber insulation
- Connectors for 400A welder

### HEATING ELEMENTS CONNECTING CABLES



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

- Length 1,3 Mt (other lengths available upon request)
- Sect. 10 mmq
- High temperature silicon insulation
- n. 1 connectors for 400A welder and n. 4 connectors with 1/4 turn 60 A quick coupling.

### THERMOCOUPLE CONNECTING CABLES



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

- Length 15 Mt standard (other lengths available upon request)
- Insulation PVC+PVC 105°
- Polarized connectors type "K"

#### Contacts:

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