

The P2003-6-NC & PB2003-6 automatic heat treatment consoles are designed to control various heat treatment processes by closely monitoring and adjusting the temperature rate of rise and fall, the soak temperature, set point and duration, on up to 6 zones. Each zone can be used either in the fully automatic or manual mode. It incorporates the latest microprocessor based technology and is simple to set up and operate. Control setting is by means of push switches and an LCD screen provides visual indication of program position and output status at any time.

The P2003-6-NC is equipped with a 12 channel strip chart recorder to provide permanent records of the heating operation in either digital or analog trend mode, or a combination of both. The P2003-6-NC & PB2003-6 are equipped with a digital amp meter and a 6 position selector switch, which is the utmost importance for checking the current to the ceramic pad heaters to make sure they are all operating.

Inputs:

- **Voltage:** 380-415-440-480-575, 3 Phase
- **Current:** 100 amp or optional 125 amps for 380/415 VAC
- **Power:** 75 KVA Isolated Copper Wound
- **Frequency:** 60 Hz / 50 Hz

Output Per Zone:

- **Zones:** 6
- **Voltage:** 65 or 85 VAC, single phase
- **Current:** 192 amps @ 65 V or 156 amps 85V
- **Power:** 12.5 KVA
- **Activation:** 200 amp contactor
- **Control per zone:** Digital temperature control via 6 Channel Programmer/ Controller

Control Circuit:

- **Voltage:** 110 VAC, single phase
- **Current:** 5 amp circuit breaker
- **Power:** 1.2 KVA winding on power transformer
- **Auxiliary:** 110 VAC supply, single phase

6 Channel Temperature Programmer/Controller:

- **Temperature Range:** 0-2000°F or 0-1200°C
- **Thermocouple:** Type "K"
- **Resolution:** Measurement 0.1 degrees / Display 1.0 degree

Digital Recorder (P2003-6-NC Model Only):

- **Accuracy:** Type "K" +/- 0.2% +/- 1 digit
- **Chart:** Fan-fold type, 180mm

Digital Amp Meter:

- **Primary Amperage:** Up to 200 amps
- **Secondary Amperage:** 5 amps

Protection:

- **120-VAC Control Circuit:** 5 amp circuit breaker
- **Heater Power:** Isolation contactor for each zone
- **Console Power:** 100 amp main circuit breaker
- **Power Transformer:** 392°F (200°C) over temperature thermostat per phase
- **Cooling fan:** 340 CFM - Thermally protected