

FULLY AUTOMATIC HEAT TREATMENT CONSOLE



Fully Automatic Digital
Controller

Simple Operation

Type "k" T/C
1/8 DIN



Dimensions: 33"L x 26.5"W x 35"H
Approx. 892 lbs

STATE OF THE ART
TECHNOLOGY
SIMPLE OPERATION
AUTOMATIC

COMPACT AND PORTABLE

IPC2005 Fully Automatic Six Way Heat Treatment Console:

Standard Features are:

- ⇒ 75 KVA (3 phase) *isolated* copper wound power transformer (100% Duty Cycle): Primary Voltage: 380/415/440/480/575, 50/60 Hz Secondary Voltage 65/85 with thermal trips per phase to prevent overload.
- ⇒ **Six fully automatic individual digital controllers** (Part#: P159°C or P159°F) controls temperature rate of rise, length of hold time and rate of cool. *User friendly and simple operation*
- ⇒ Digital amp meter (0-200 amps) with six-channel selector switch and six current transformers which is the utmost importance for checking the current to the ceramic pad heater to make sure they are all operating.
- ⇒ 12 gauge stainless steel cabinet with swivel wheels (900 lb capacity each with brake) and two lifting lugs. ****Wheels or SS mounting brackets available upon request.**
- ⇒ One 340 CFM cooling fan which keeps all instrumentation and transformer cool.
- ⇒ One 110 volt auxiliary plug.
- ⇒ 100 amp - 3 phase circuit breaker with 120 volt uv release.
- ⇒ Six 200 amp contactors.
- ⇒ Six 110 volt neons and six two way on off on switches.
- ⇒ Instrument wiring tinned copper to prevent corrosion and down time.

Note: One six way console is capable of heating an area up to 15 sq. ft. approximately using a total of 18 x 80 volt ceramic pad heaters.

IPC2005-6 Fully Automatic Six Way Heat Treatment Console:

DESCRIPTION:

The IPC2005-6 Fully Automatic heat treatment console is designed to control various heat treatment processes by closely monitoring and adjusting the set point temperature and the ramp rate. 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 the set point and the actual temperature.

The IPC2005-6 is equipped with a digital amp meter and a 6 position switch, which is the utmost importance for checking the current to the ceramic pad heaters to make sure they are all operating.

SPECIFICATIONS – IPC2005-6 Fully Automatic Six Way Heat Treatment Console:

Length:	33”
Width:	26.5”
Height:	35”
Weight:	Approx. 892lbs
Material:	12 gauge stainless steel cabinet
Wheels:	900 lbs capacity each with brake (4) (or SS mounting brackets available upon request)
Handling:	Two heavy duty top lifting eye lugs and forklift access.

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 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

Digital Temperature Controller (P159°C):

- **Temperature Range:** 0-1200°C
- **Thermocouple:** Type “K”
- **Resolution:** Measurement 0.1 degrees / Display 1.0 degree

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