# PCT-1000 Programmable Preheater



## More Heat, Lower Temperatures for Faster, Higher Quality Results

The new PCT-1000 is a programmable preheater that provides users exceptional ability to increase heat capacity with highly controlled thermal output. The preheater is ideal for aiding high thermal demand applications including lead-free, multi-layer boards and large ground planes. The PCT-1000 can be used in a variety of processes including soldering, desoldering, SMD rework operations and, with its added heat capacity, will provide faster production rates while lowering overall process temperatures.

### Programmable Controls
With four programmable heating zones and one cooling zone, users select time and temperature targets, creating a preheat thermal profile.

The PCT-1000 features an advanced heat control function where the temperature is controlled either at the heater output (internal) or at the board (external). The "external" control function uses a thermocouple which can be placed on the board or a component. The external control function enables users to heat with high levels of assurance; preventing such undesirable effects as underside component reflow, thermal shock to sensitive components and damaging peak temperatures.

### The PCT-1000 Powerful Heating Improves Productivity
PCT-1000 is equipped with the highly advanced heater design found on sophisticated OK International rework systems. Its convection heater creates a vortex effect that efficiently directs and concentrates heat. This, coupled with the precise feedback control and thermal profiling capability, establish the PCT-1000 as a powerful, precise benchtop solution for increasing productivity.



Four-zone thermal profiling with independent time and temperature control.



User selects internal or external control.

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## Easy Operation and Profile Storage

The PCT-1000 is easy-to-use with clearly marked controls. The front panel features a 20 X 4 LCD display and 3 input buttons. Step by step programming makes profile creation simple and straight forward. The system stores up to 10 thermal profiles plus one default start up profile.

## Unique, Flexible Board Holders

While the PCT-1000 can be used with or without a board holder, users often need a quick and flexible way to position a board over the pre-heater.

The new BH-1000 board holder consists of posts and rails and is a highly flexible system. It has two sets of post-rail assemblies (two posts, one rail per assembly). Two sliding clips are mounted on each rail and require minimal board-edge space to clamp the board. The post-rail assemblies can be located as close as 12 mm (1/2") to virtually any distance apart. Additionally, each post-rail system can be converted to a stand-alone post-pin configuration with removal of the rails and by adding the threaded pins (shown right). These pins can be used for holding board tooling holes or for board support.



2 options: post-rail system (shown above) or post-pin systems (shown below)





PCT-1000 with foot switch



PCT-1000 External Type K thermocouple inputs

## Key Features & Benefits

- Adds heat capacity and enables lower process temperatures
- Increases through-put and reliability of soldering, desoldering and SMD rework processes
- Four-zone programmable settings for time and temperature to create optimum thermal profiles for varying application demands
- Storage for up to fifty users defined profiles for quick, easy set-up
- User selectable control of heating at source (internal) or at target (external)
- Controlled cool-down eliminates thermal shock to PCB and components
- System safety feature automatically shuts off heating when fan is stopped
- High efficiency vortex heater design maximizes ramp to temperature for increased productivity

| Part Number | Description |
|---|---|
| PCT-1000 | Programmable Preheater, 350W convection;Type-K T/C kit, foot switch, power cord, User Manual, Advanced User Guide |
| PCT-FS1 | PCT-1000 Foot switch |
| BH-1000 | Post-Rail Board Holder system; four posts, two rails with sliding clips, four support pins, flat-head support (screw) |
| BH-SP1000 | Single Post Board Support; post with height adjustment, four support pins |
| BH-PK1000 | Support Pin Kit; four support pins, flat-head support screw |
| BH-RK1000 | Board Holder Rail Kit; two 300mm rails, four support pins |

### PCT-1000 Programmable Preheater Specifications

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|---|---|
| Power Consumption | 350 W |
| Rated Power | 1200 W |
| Input | 100-240 VAC, 50/60 Hz |
| Temperature Range | 50° to 350° C |
| Temperature Control | Type K Thermocouple feedback with users selectable source (internal) or target (external) control External: includes two Type K inputs |
| Air Flow | Fixed at 19cfm (538 l/minute) |
| Programs | Storage for fifty (50) thermal profiles |
| Approvals | CE, cTUVus |
| Maximum time per zone | 300 seconds |

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