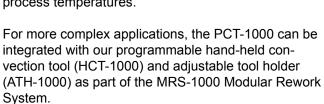
# PCT-1000 Programmable Pre-heater



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

The 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.



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.







www.metcal.com

## **PCT-1000 Programmable Pre-heater**

#### **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 guick and flexible way to position a board over the preheater.



post-rail system

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.

### **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



post-pin systems

Part Number	Description	PCT-1000 Programmable Preheater Specifications	
PCT-1000	Programmable Preheater, 350W convection;Type-K T/C kit, foot switch, power cord, User Manual, Advanced User Guide	Rated Power	1200 W
		Input	100-240 VAC, 50/60 Hz
		Storage Temperature	0° to 50° C (32° to 122° F)
		Temperature Range	25° to 350° C (77° to 660° F)
PCT-FS1	PCT-1000 Foot switch		Type K Thermocouple feedback with
BH-1000	Post-Rail Board Holder system; four posts, two rails with sliding clips, four support pins, flat-head support (screw)	Temperature Control	users selectable source (internal) or target (external) control External: includes two Type K inputs
BH-SP1000	Single Post Board Support; post with height adjustment, four support pins	Air Flow	Fixed at 19cfm (538 l/minute)
		Operational Modes	Setup, Run, Manual, Active Setup
BH-PK1000	Support Pin Kit; four support pins, flat-head support screw	Display	LCD 20 x 4 display segments
		Programs	Storage for fifty (50) thermal profiles
BH-RK1000	Board Holder Rail Kit; two 300mm rails, four support pins	Approvals	CE, cTUVus
		Maximum time per zone	300 seconds

