

# SMT & Area Array Rework

# PH100



## PH100 Low Profile IR Preheater for the Most Thermally Challenging PCBs

Rapid, Safe Soldering on High Mass, Heat-Sinking Assemblies

The PACE **PH100** is a high powered (1600W), non-contact infrared heating system with an ergonomic, low-profile design which permits operators to safely pre-heat PCBs for fast, efficient soldering, rework or repair, even on the highest mass, heat-sinking, lead-free PCBs.



PH 100's sleek, ergonomic low-profile design is perfect for use under a microscope!

### Why Use Bottom-Side Preheat? Benefits include:

1. Promotes rapid solder reflow while preventing heat damage and thermal stress or shock
2. Ensures homogenous temperatures across package/PCB
3. Decreases warping & maintains planarity of the rework site
4. Reduces top-side temperature and dwell-time requirements
5. Increases soldering iron tip-life by allowing lower tip temperatures

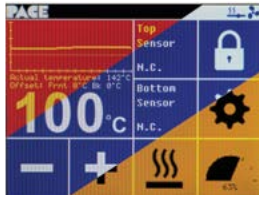
### Features:

- o Sleek, incredibly **low working height** improves operator comfort and reduces fatigue, perfect for under microscope
- o Intuitive 3.5" resistive **Touch Screen Display** provides easy adjustment of all operational, temperature and power settings
- o Customize color scheme and button layout at will
- o 4 **Robust IR Heating Elements** provide **1600W of power**
- o Large 300mm x 300mm (11.8" x 11.8") heating area
- o Efficiently transmits heat **without** emitting irritating visible light as other IR systems do
- o Glass-ceramic surface re-emits heat in uniform manner, providing fast and even preheating with minimal shadowing
- o **Closed-Loop Temperature Controlled** by either internal sensor or one of two external thermocouples which can precisely monitor and control temperature on the PCB top or bottom-side
- o **Front and Back Heating Zone** temperatures can be independently controlled, or turned off completely
- o **Magnetic PCB Holder** is easily adjusted to a variety of height/size combinations
- o Handles large assemblies (295mm/11.6" x unlimited) as well as small or irregularly shaped boards
- o Set-temperature range of 20° - 200°C (68° - 392°F)
- o Independent temperature offset adjustment of heating zones +/- 50°C (90°F)





## User-Friendly, Ergonomic, Process Controlled, Versatile!



Intuitive, touchscreen-based software allows for easy operation – operator can customize color scheme & button layout at will



Comes standard with an adjustable Magnetic PCB Holder providing a variety of height options



Glass-ceramic surface and high-density emitter array provides uniform heating with no dead spots



External thermocouple control precisely monitors and regulates temperature on the PCB

## PH100 Specifications

Part Numbers	PH 100 8007-0572 (120VAC)	PH 100E 8007-0573 (230VAC)
Power Requirements	120 VAC, 50-60Hz	230 VAC, 50-60Hz
Maximum Power Output	1600 Watts	
Weight	8 kg (17.6 lbs.)	
Dimensions	355mm (14") <b>D</b> x 430mm (17") <b>W</b> x 60mm (2.4") <b>H</b> without Board Holders	
Board Size Capacity	Handles large 295mm (11.625") x unlimited PCBs	
Working Height	Low profile design with working height of 76mm (3.0") with Board Holders (height above bench, no feet); Lowest Height: about 9mm (.35") above glass-ceramic surface; Medium Height: about 22mm (.87") above glass-ceramic surface; Highest Height: about 37mm (1.46") above glass-ceramic surface	
Heating Elements	4 x 400 Watt, Medium Wave IR Emitters (250mm x 60mm / 9.8" x 2.4" ea.)	
Heating Area Dimensions	300mm (11.81") <b>W</b> x 300mm (11.81") <b>D</b>	
Temperature Control Method	Closed loop temperature control by either internal sensor or one of two external thermocouples (one for the PCB top and the other for the PCB bottom)	
Closed Loop Temperature Control	Closed loop control at PCB level to control temperature when thermocouple is selected as the control option.	
Temperature Control Modes	Three Control Mode Options: Internal Sensor Mode; External Topside PCB Thermocouple Mode; External Bottom-side PCB Thermocouple Mode	
Thermocouple Inputs	Two (2) K-Type Thermocouple Inputs: Top-side and Bottom-side PCB Input	
Set Temperature Range	20°C – 200°C (68°F – 392°F)	
Touch Screen Display	User friendly 3.5" Resistive Touch Screen	
Front and Back Heating Zones	Two (2) separate and switchable heating zones	
High Capacity Heating	1600 Watt or 800 Watt, user selectable	
Power Meter	Indicates heater activity (duty cycle)	
Performance Response Settings	<b>Normal:</b> Heats up quickly; <b>Fine:</b> Heats up slowly with fine control	
Temperature Offsets	User selected temperature offsets for each heating zone	
Advanced and User Modes	<b>Advanced Mode:</b> All operational settings available; <b>User Mode:</b> Restricts user access to advanced settings	
Programmable Pre-Heating	Select Time-at-Temperature preheat phase with audible alarm	
Sound Settings	<b>None:</b> Disables sound; <b>Short:</b> Short beep will sound; <b>Long:</b> Longer beep will sound	
Lock Screen/Password	Easy setting of password to prevent unauthorized or inadvertent changes	
USB Port	Programming/firmware is upgradeable using USB Flash Drive	
Magnetic PCB Holder	Easy to adjust board holder with magnetic feet provides 4 different height options (None, Short Standoffs, Long Standoffs, Angled with Short/Long Standoffs)	
Safety Agency Approval	CE compliance/certified by TUV	

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