

# PHS1500/4000

## Stand Alone Preheaters



### KEY FEATURES

- Uniform Preheat Surface
- Perfect for Medium to High Mass Assemblies
- Minimizes the Process Temperature
- Minimizes Risk of Thermal Damage
- Speeds Up Repair

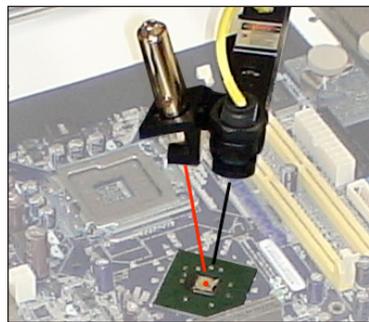


## Enhance Your Rework Procedures

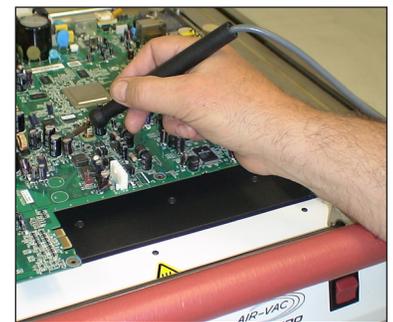
Air-Vac PHS Infrared Preheaters are the ideal accessories for Circuit Board Repair and Assembly, providing near perfect thermal uniformity.

### PREHEAT BENEFITS

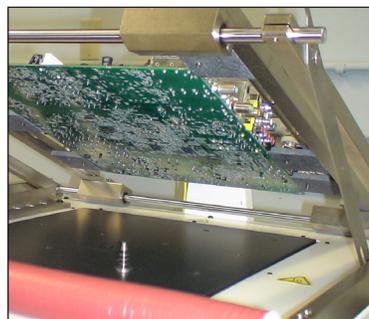
- **Use on medium to high-mass assemblies** that can heat sink significant amounts of energy from a hand tool or solder pot rework.
- **Minimizes the process temperature.** Ideal for lead-free applications where the high melt alloy requires a high process temperature.
- **Minimizes risk of thermal damage.** Ideal for fine pitch assemblies where pad damage is most prevalent.
- **Minimizes time the process** (localized) heat is applied. **Speeds up repair.**
- Activates flux. **Ensures volatile and water removal.**
- For reflow rework, **reduces thermal gradient,** therefore **minimizing localized pcb warpage.**
- Establishes a **uniform starting process** condition for **enhanced process control.**



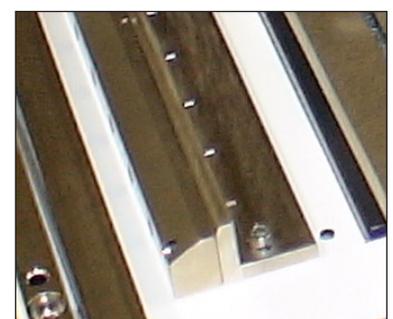
Temperature Sensor/Laser Pointer



Adjustable Arm Rest



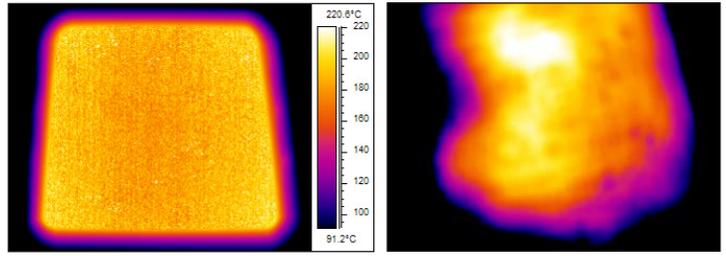
Tilt-Up Carrier



Air Knife for Board Cooling

## Enhance Your Rework Procedures

The PHS Stand-Alone Preheater is the *ideal accessory for circuit board repair and assembly* and will easily integrate into any existing workstation. The infrared preheater provides ample, uniform heat to accommodate both tin-lead and lead-free applications, while an audible alarm indicates when the desired temperature has been reached. The compact design features a sturdy board carrier and cushioned armrest to provide a safe and comfortable platform for operators.



**Near Perfect High Thermal Uniformity** (left) using the Air-Vac PHS Preheater vs. the competitors uneven uniformity (right).

## A Great Combo for Effective Lead-Free and/or Thermally Challenging Rework/Selective Soldering!



### PCBRM15

Controlled mini-wave with component specific shape and flow heats all leads simultaneously for component removal and replacement. Preset controls for temperature, time, and pump speed. Separate PCBRM15 literature available.



### PHS Preheater

Infrared panel reduces the process temperature and time.

## PHS Preheater Models & Specifications

### Standard Features/Benefits

- Uniform Preheat Surface: +/- 5°C (single panel), +/- 10°C (two panels)
- Bottom Board Supports for Heavier Assemblies
- Adjustable Arm Rest for Safety and Comfort
- Audible Temperature Setpoint Alarm
- Tilt-Up Carrier (1500/4000)
- Board Holder Segments (1500/4000)
- PCB Temperature Safety Feature

### Options

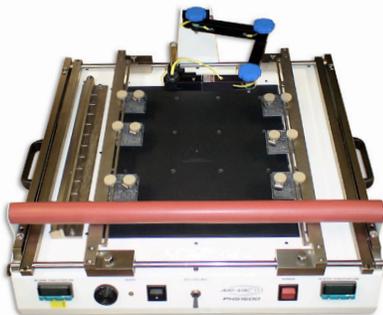
- Temperature Sensor with Laser Pointer
- Air Knife for Board Cooling



### PHS1500NC

Basic Preheater "hot plate" (no board carrier), shown with optional board cooling system.

- **Dimensions:** 22"W x 21"D x 6"H
- **Max Board Size:** 13 3/8"W x 20"D
- **Temperature Range:** 50-260°C
- **Electrical:** 1500 watts, 110 volts
- **Preheater Zones:** 1
- **T/C Channels & Controllers:** 1



### PHS1500

Standard Preheater includes tilt-up board carrier, shown with optional Temp Sensor and board cooling system.

- **Dimensions:** 22"W x 21"D x 6"H
- **Max Board Size:** 13 3/8"W x 20"D
- **Temperature Range:** 50-260°C
- **Electrical:** 1500 watts, 110 volts
- **Preheater Zones:** 1
- **T/C Channels & Controllers:** 1



### PHS4000

Large 2-Zone Preheater includes tilt-up board carrier, shown with optional board cooling system.

- **Dimensions:** 37"W x 23"D x 6"H
- **Max Board Size:** 22"W x 20"D
- **Temperature Range:** 50-325°C
- **Electrical:** 4000 watts, 208 volts
- **Preheater Zones:** 2
- **T/C Channels & Controllers:** 2



Headquarters - 30 Progress Avenue · Seymour, CT 06483 · 203.888.9900 · air-vac-eng.com  
West Coast Office - 2131 Las Palmas Drive · Suite D · Carlsbad, CA 92011 · 760.438.9363