

USER MANUAL

TMT-PH200 IR PREHEATER



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WARRANTY

All equipment and accessories are warranted by Thermaltronics to be free from defects in materials and workmanship as follows:

Part Number	Description	Warranty Period
TMT-PH200	220-240V IR Preheater	1 Year
PH-HE200	Heating Element	30 Days

This warranty does not apply to equipment or goods which have been tampered with, misused, damaged through improper installation or used in a manner contrary to supplier instructions. Normal “wear and tear” of equipment or goods is not covered by this warranty. If the product should become defective within the warranty period, Thermaltronics will repair or replace it free of charge at its sole option. Warranty period is from the date of purchase by the original owner. If the date of purchase cannot be substantiated the date of manufacture will be used as the start of the warranty period.

WARNING:

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

TMT-PH200 SPECIFICATIONS

Input Line Voltage:	220-240 VAC / 50Hz
Power:	600 Watts
Temperature Range:	100C - 380C
Heating Area (W x D):	130mm x 130mm
Max Allowable PCB Size (W x D):	140mm x 185mm
Heating Method:	Infrared
Fuse:	250V 5A
Size (W x H x D):	220mm x 73mm x 250mm
Weight:	2.1 KG
Certification Marks:	CE

INTRODUCTION

Congratulations on your purchase of the TMT-PH200 IR preheater. The TMT-PH200 preheater can be used for PCBA assembly and rework. This unit has been tested and inspected by Thermaltronics prior to shipment, and with proper maintenance will give you years of reliable performance.

Functions and Features

1. Sensor loop to control temperature
2. Adjustable, easy to use temperature control knob
3. Digital display shows temperature
4. Electrostatic Discharge (ESD) safe
5. Utilizes a quartz infrared heater
6. Suitable for working on PCBs of various sizes.

Warning: Setting the correct temperature on the preheater is very important. High temperature can cause warping or damage to the PCB.

SAFETY PRECAUTIONS

Warning

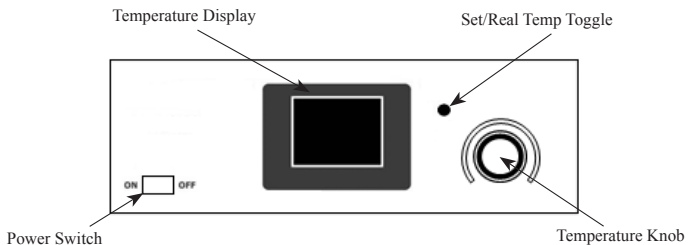
A fire may result if this equipment is not used with care and for intended applications. To avoid electric shock or injury, please follow the instructions below strictly:

1. The unit must be properly grounded.
2. The unit can reach extremely high temperatures when switched ON.
 - Do not use the device near flammable materials or gases
 - Do not touch heated parts, which can cause severe burns
 - Do not expose skin to infrared light for prolonged periods of time
3. Never operate the equipment with wet hands.
4. Always disconnect the power cord and allow the unit ample time to cooldown before performing maintenance.
5. Use only genuine replacement parts.

Caution

1. Use this equipment in a well-ventilated area, away from combustible equipment.
2. Disconnect the power cord if unit is not used for extended period of time.
3. Handle with care.
 - Never drop or sharply jolt the unit.
 - The unit contains delicate parts that can be damaged if subjected to physical force.
 - Do not spill any liquids into the unit.
4. Do not operate on uneven surfaces.
5. Allow to cool down before storage.
6. Turn off the power when the unit is not in use.
7. Do not alter the unit in any manner.

CONTROL PANEL



UNPACKING/ASSEMBLY/OPERATION

Please read this manual and follow the directions before using the equipment.

The carton contains:

1. Instruction manual
2. TMT-PH200 Preheater
3. Power Cord

Important: Keep all shipping materials until satisfactory operation has been verified.

Assembly and Operation

1. Remove TMT-PH200 Preheater from its box and place on a suitable work bench.
2. Connect the AC plug to a suitable AC power outlet.
3. Place the PCB on top of the circuit board holder and adjust the PCB so it is near the center of the heating area.
4. Switch the power switch to the “on” position
5. Adjust the temperature via the control knob.
6. Allow the PCB or component to be heated until it is ready for rework.

Remove Components using Preheater

1. Place the PCBA on the board holder and position the rework components close to the center of the preheating area.
2. Adjust the temperature via the control knob according to the component size, PCBA size and thickness.
3. After the preheater reaches the set temperature and the components solder joints have melted, carefully use tweezers to pick the component(s) off the PCBA.

Important: Do not move the PCB at this time, other component solder joints are close to the melting temperature, any movement will cause components to change positions.

4. Turn off the preheater and remove the PCB after it has reached room temperature.

Important: The preheater temperature should be set based on the component being worked on. Setting the temperature too high will cause damage to the PCB or component.

FREQUENTLY ASKED QUESTIONS

Q: The unit has no power.

A: Check if the unit is switched on and the power cord is plugged in. Verify that the fuse has not blown out.

Q: The actual temperature is not increasing

A: Check if the heating element is damaged or the thermal sensor is shorted. If the unit has been recently opened up for servicing, double check that wiring was done properly. Replace the heating element if necessary.

Q: The temperature adjustment knob is not working

A: The temperature adjustment knob may be damaged and needs to be replaced. Have the unit serviced by a certified technician.

Q: Unit display screen is showing unknown characters

A: Turn the unit OFF and then ON again. If the problem persists have the unit serviced by a certified technician.

Q: Other problems

A: Please contact your vendor or Thermaltronics at the email address: support@thermaltronics.com.

ORDERING GUIDE

SPARE PARTS

PART#	DESCRIPTION
TMT-PH200	IR Preheater 220V - 240V
PH-HE200	Heating Element for TMT-PH200