

# USER MANUAL

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## TMT-HA100 Hot Air Pencil

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## **WARRANTY**

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

| <b>Part Number</b> | <b>Description</b>      | <b>Warranty Period</b> |
|--------------------|-------------------------|------------------------|
| TMT-HA100-1        | 100-110V Hot Air Pencil | 1 Year                 |
| TMT-HA100          | 220-240V Hot Air Pencil | 1 Year                 |

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.

This tool must be placed on its stand when not in use.

## TMT-HA100 SPECIFICATIONS

|                      |             |                       |
|----------------------|-------------|-----------------------|
| Input Line Voltage:  | TMT-HA100-1 | 100-110 VAC           |
|                      | TMT-HA100   | 220-240 VAC           |
| Power:               |             | 200 Watts             |
| Temperature Range:   |             | 100C - 450C           |
| Pump:                |             | Diaphragm Pump        |
| Air Flow (Max):      |             | 10L / min             |
| Fuse:                | TMT-HA100-1 | 250V 3A               |
|                      | TMT-HA100   | 250V 1.5A             |
| Size (W x H x D):    |             | 130mm x 215mm x 130mm |
| Weight:              |             | 3.1 KG                |
| Certification Marks: |             | CE, ETL               |

## INTRODUCTION

Congratulations on your purchase of the TMT-HA100 Hot Air Pencil. This unit has been tested and inspected by Thermaltronics prior to shipment, and with proper maintenance will give you years of reliable performance.

## SYSTEM FEATURES

The TMT-HA100 hot air pencil is designed to remove and reflow small precision components, integrated circuits and other smaller devices.

### Functions and Features

1. ESD safe design with integrated ground
2. Specialized for work on precision components
3. Uses HAP Series Hot Air Pencil Nozzles
4. High quality heating element ensures fast heat up and long heater life
5. Digital display shows temperature and air flow.

## SAFETY PRECAUTIONS

### **Warning**

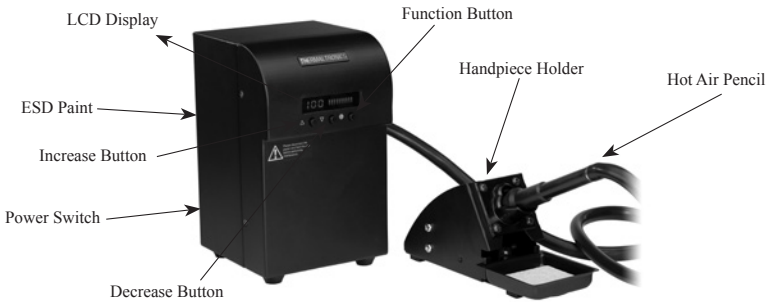
A fire may result if this equipment is not used with care and for intended applications. To avoid electric shock or injury, please follow the instructions below strictly:

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 point the nozzle towards any part of the body
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.
6. Do not leave the appliance unattended when it is switched on.

### **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. Place handle in stand when not in use.
4. 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.
5. Do not operate on uneven surfaces.
6. Allow to cool down before storage.
7. Turn off the power when the unit is not in use.
8. Do not alter the unit in any manner.
9. When resting the handle in the handle holder, make sure there are no objects within 30cm of the nozzle, as nearby objects maybe damaged.
10. Do not apply excessive force when installing and removing nozzles.
11. Do not use pliers to pull the edges of the nozzle.

## CONTROL PANEL



## UNPACKING/ASSEMBLY/OPERATION

Please read this manual and follow the directions before using the equipment. The carton contains:

1. TMT-HA100 Hot Air Pencil
2. Handpiece Holder
3. HAP-D15, HAP-D20, HAP-D25, HAP-D30, HAP-D35, HAP-D40 nozzles

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

### Assembly

1. Remove TMT-HA100 Hot Air Pencil from its box and place on a suitable work bench.
2. Select the proper nozzle and secure it to the hot air pencil.
3. Ensure the hot air pencil is placed in the handpiece holder.
4. Connect the AC plug to a suitable AC power outlet.

### Operation - Turning on the unit

1. Switch the power switch on the back of the unit to the "on" position.
2. The LCD Display will display "---" indicating it is in the standby state.
3. Press the Function Button to switch the unit into operating mode.
4. In operating mode the unit will ramp up to it's preset temperature and air flow.

# UNPACKING/ASSEMBLY/OPERATION

## Operation - Adjusting Air Flow

1. While in operating mode, press the Function button repeatedly until the LCD Display displays "Air". This indicates we are now in air flow adjustment mode.
2. Adjust the air flow using the Increase and Decrease buttons.

## Operation - Adjusting Temperature

1. While in operating mode, press the Function button repeatedly until the LCD Display displays the set temperature. This indicates we are now in temperature adjustment mode.
2. Adjust the temperature flow using the Increase and Decrease buttons.

**Important: It is strongly advised to initially increase the air flow level in order to protect the heating element inside the handle from excessive heat.**

## Operation - Standby Mode

1. Press and hold the Function button on the front panel for 3 seconds, this will start the auto cool process.
2. After the temperature has dropped down to safe levels, the unit will automatically power down into standby mode and the LCD Display will display "----".
3. Ensure that the hot air pencil is placed back in the handpiece holder.

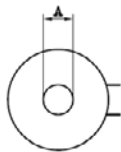
## Operation - Power Off

1. Please ensure that the unit is in standby mode, the LCD Display will display "----".
2. Switch the power switch on the back of the unit to the "off" position.
3. Unplug if not used for extended periods of time.

**Important: Always cooldown the heater before turning off the main power switch. This will extend the lifespan of the heating element. (See: Operation - Standby Mode)**

## ORDERING GUIDE

### SPARE PARTS & NOZZLES



| PART#       | DESCRIPTION             |
|-------------|-------------------------|
| TMT-HA100-1 | 100-110V Hot Air Pencil |
| TMT-HA100   | 220-240V Hot Air Pencil |

| PART#   | DESCRIPTION  | A mm |
|---------|--------------|------|
| HAP-D15 | Nozzle 1.5mm | 1.5  |
| HAP-D20 | Nozzle 2.0mm | 2.0  |
| HAP-D25 | Nozzle 2.5mm | 2.5  |
| HAP-D30 | Nozzle 3.0mm | 3.0  |
| HAP-D35 | Nozzle 3.5mm | 3.5  |
| HAP-D40 | Nozzle 4.0mm | 4.0  |



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