

HCT-900



HCT-900 User Guide



WARNING

1. Warnings and Safety Instructions

- 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 :
- This appliance must be grounded.
- The temperature of this equipment can reach 500°C. Never touch any metal part of this equipment
- The unit can output extremely hot air; to avoid serious injury, never point the nozzle towards any part of the body
- Never use this equipment near any flammable materials or gases.
- Never operate the equipment with wet hands.
- All the electrical circuitry within this equipment is rated to operate at the relevant mains line voltage (depending on model). Always disconnect the power cord before beginning any repairs and maintenance work.
- Only use Metcal spare parts for all repairs and maintenance.

CAUTION – Important Instructions

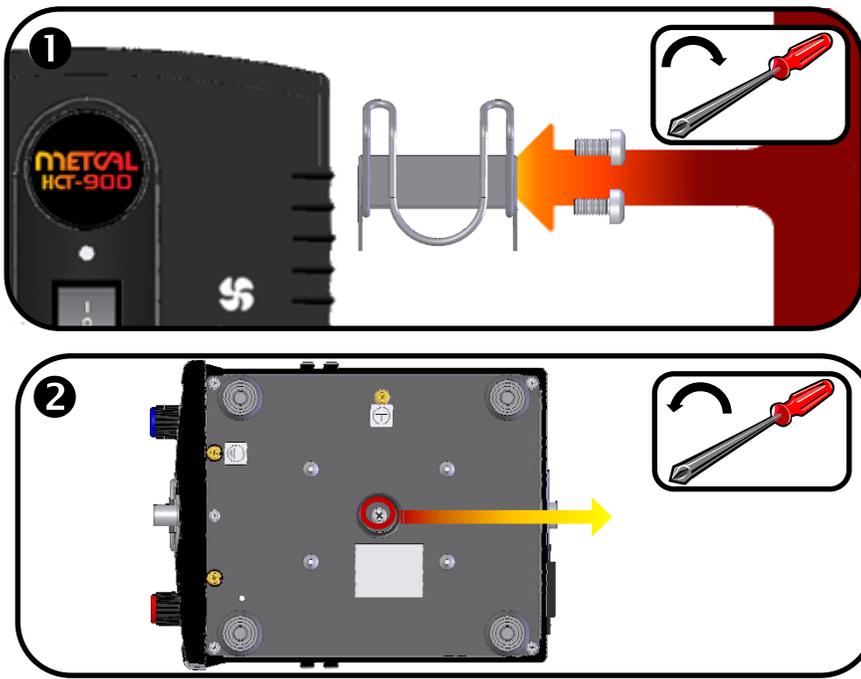
- In order to avoid damage to the equipment, and ensure a proper working environment, please follow the instructions below:
- Operate this equipment in a well ventilated room away from any combustible materials.
- When not be in use, make sure the unit is unplugged from outlet.
- Place handle in stand when not in use.
- Do not drop. Do not use excessive force on the handle. Too much shock and/or vibration may damage the quartz crystal inside the handle's thermal tube.
- Do not operate on uneven surfaces.
- Do not pull or carry the equipment by the handle; this may break the wire inside the handle or disconnect the air tube.
- Allow to cool down before storage.
- When resting the handle on the hander holder, make sure there are no objects within 30 cm of the tip of the nozzle as nearby objects maybe damaged.
- Do not leave the equipment unattended when switched on.
- Do not disconnect from the mains voltage until pump has stopped running.

Waste Electrical and Electronic Equipment Directive - WEEE (2002/96/EC).

When this product is no longer required, if it cannot be re-used, we ask our customers not to dispose of it as unsorted municipal waste but to appropriately recycle the product. In Europe, please contact your Metcal distributor who can advise the recycling options available.



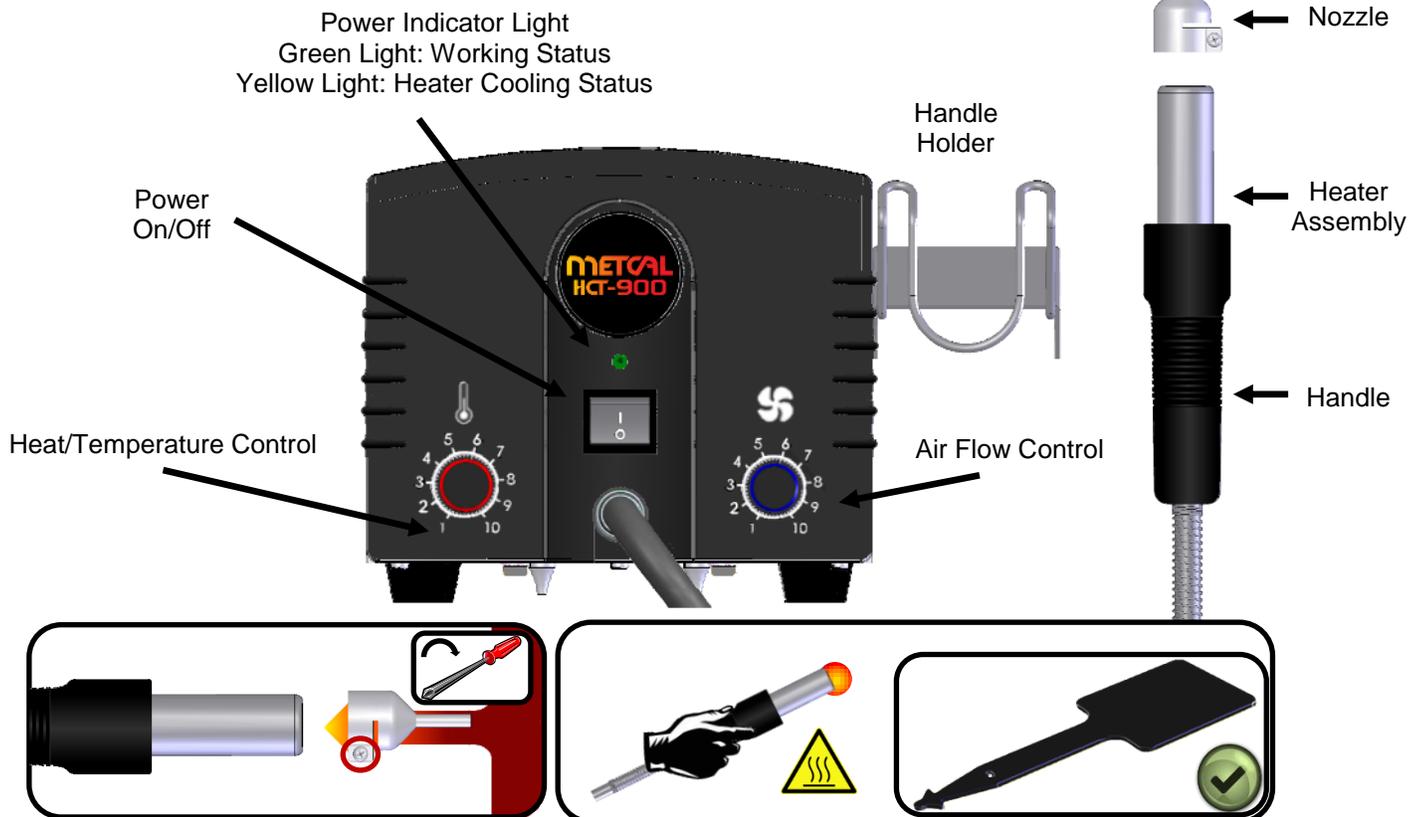
2. Preparing to Use the Unit



3. Operating Instructions

The METCAL HCT-900 uses a thermocouple feedback temperature control technique to regulate output temperature. Adjust heat and air flow controls to the required values for the application. Closed loop feedback controls the temperature even when airflow is adjusted.

The air pump will continue working 90 seconds after the unit is switched off. This function enables the heater tube to cool down effectively.

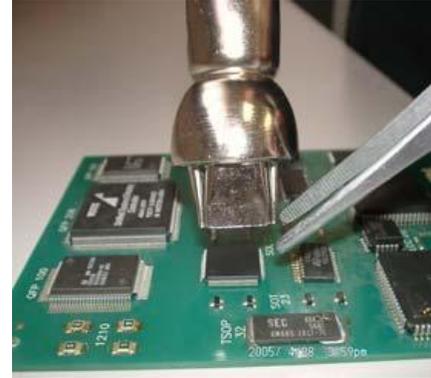


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4. Removing & Replacing Components

De-Soldering Components

1. Select the proper nozzle, secure it to the handle
2. Plug power cable into electric socket and switch on the power button
3. Set the desired temperature. Adjust the airflow to desired volume.
4. Move the nozzle close to the component leads; maintain 3-5 mm distance. Use the hot air to melt the solder.
5. When solder is molten, use a tweezer or other suitable tool to remove the component from the circuit board

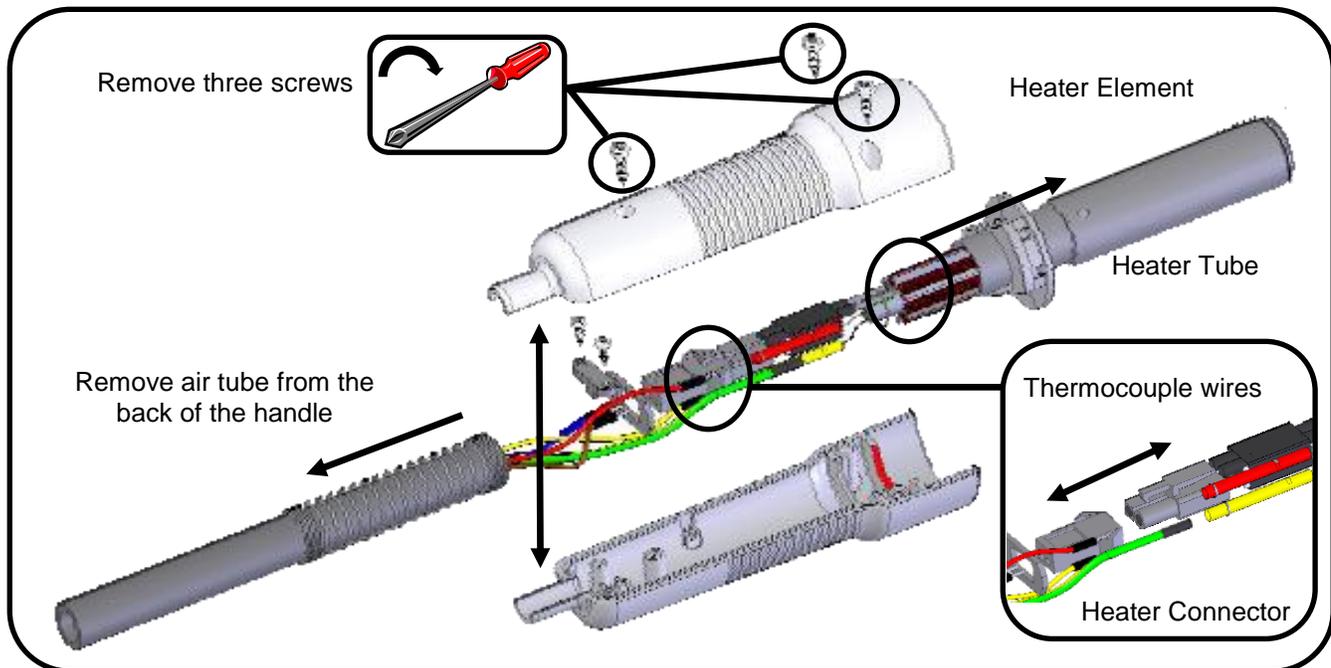


Soldering Components

1. Choose the proper nozzle, secure it to the handle.
2. Apply the right amount of solder to the circuit board; position the component on the circuit board.
3. Plug power cable into electric socket and switch on the power button.
4. Set the desired temperature. Adjust the airflow to desired volume.
5. Move the nozzle close to the component leads, blow hot air onto the leads and melt the solder.

5. Maintenance and Service

To Change Heater Element



- a) Remove black air tube from the back of the handle.
- b) Remove the three screws that secure the handle.
- c) Separate hand piece.
- d) Unplug heater connector and disconnect thermocouple wires.
- e) Slide heater element out of heater pipe.
- f) Insert new heater element into heater pipe.
- g) Plug heater connector and connect thermocouple color wires properly.
- h) Re-attach handle together and ensure good fit. Then install screws.
- i) Insert black air tube back into place.

CAUTION: Risk of electric shock from line voltage – disconnect from electrical supply before replacement of heating element.

Changing the fuse

1. Unplug the power cord from the outlet socket
2. Change for new fuse (located on back panel): a) HCT-900-21: Slow Acting 4A, 250V (0.5 mm x 20 mm). b) HCT-900-11: Medium Acting 6.3A, 125V (0.5 mm x 20 mm). c) HCT-900-10: Medium Acting 6.3A, 125V (0.5 mm x 20 mm).

6. Specifications & Warranty

| Specifications | | | |
|--------------------------------------------------------|---------------------------------------------------------------------------------------|------------|------------|
| | HCT-900-11 | HCT-900-21 | HCT-900-10 |
| Input Voltage | 120 VAC | 230 VAC | 100 VAC |
| Power | 230 W | | |
| Pollution Degree Category | II | | |
| Storage Temperature | 0°C—60°C (32°F—140°F) | | |
| Air Pump Type | Diaphragm | | |
| Air Flow | 5-20 l/min. | | |
| Control Temperature (indication only – not calibrated) | 100°C—500°C (212°F—932°F) | | |
| Surface Resistivity | Unit: $10^5\Omega$ - $10^6\Omega$. Hand-piece & tube: $10^7\Omega$ - $10^{11}\Omega$ | | |
| Noise Level | Less than 46 dBA | | |
| Dimensions | 210 (L) x 170 (W) x 140 (H) mm | | |
| Weight | 4.7 kg. (10.4 lbs.) | | |
| Certification / Approvals | cTUVus, CE | | |

Metcal warrants the HCT-900 against any defects in materials or workmanship for one (1) year from the date of purchase by the original owner. This Warranty excludes normal maintenance and shall not apply to any opened, misused, abused, altered or damaged items. If the product should become defective within the warranty period, Metcal will repair or replace it free of charge at its sole option. The repaired or replacement item will be shipped, freight prepaid, to the original purchaser. The warranty period will start from the date of purchase. If the date of purchase cannot be substantiated the date of manufacture will be used as the start of the warranty period.

The Heater Element is covered by a three (3) month warranty, which does not include damage resulting from unreasonable use of the equipment or from human error.

Repair fees will be charged and subject to the current rates once the equipment is out of one year warranty.