



Digital Hot Air Pencil

HCT2-200

Introducing the new Digital Hot Air Pencil

The HCT2-200 Hot Air Pencil is the latest addition to Metcal's convection rework tools.

This digital handheld convection tool is ideally suited for light rework applications, which use smaller components and integrated circuits.

As component miniaturization continues (e.g. 01005 components), the ergonomics of a pencil become more important to allow a user freedom to access and rework components on the board without affecting adjacent parts. Larger handheld convection systems commonly reflow and dislodge adjacent components due to a higher minimum airflow.

The HCT2 series of Digital Hot Air Pencils have always included an array of nozzle sizes for precision control. The HCT2-200's improved thermal performance allows the user to target a larger variety of components. Metcal has made working under a microscope easier with the optional bent nozzles. Add the HCT2-200 to your workbench and experience improved performance.

metcal.com/hct2



HCT2-200

Digital Hot Air Pencil



Applications

The HCT2-200 was developed for very small surface mount component and package sizes (1206's and smaller) and low board densities. For denser PCBA's or applications with heavy copper planes, boards > 4 layers, or components larger than 5mm², use of a Metcal preheater (PCT-100 series) may be necessary.

Features and Benefits

- **200 Watt Ceramic Heater and Dual Stage Air Pump:** Provides the power and performance needed to deliver the right amount of thermal energy.
- **Digital Airflow & Temperature Controls:** Two LED displays provide a graphical and numerical representation of the desired airflow and temperature.
- **Fast Response and Performance:** A microprocessor controlled, closed loop feedback system provides fast heating, precise and stable temperature control.
- **Standby Mode:** When the hand-piece is placed into the workstand, the temperature will drop prolonging heater life.
- **Replaceable Hand-Piece:** The hand-piece has been redesigned to allow removal from front of the machine.
- **Ergonomic and Light Weight Hand-Piece:** Slim and ergonomic design hand-piece that feels like a pencil, with a rubber grip.
- **Easily Change Heaters, Nozzles, and Hand-Pieces:** All can be changed in moments
- **Nozzles:** Six nozzles (1.5 mm – 4.0 mm) are included in the unit with a nozzle plate holder inside the workstand.



SOIC's

0201's

1206's

Technical Specifications

HCT2-200 Digital Hot Air Pencil	
Ambient Operating Temp.	10 to 40 °C
Input Line Voltage	-11 110 VAC, grounded circuit -21 220-240 VAC, grounded circuit
Input Line Frequency	50/60 Hz
Rated Power	200W
Air Flow	1.5 – 7.0 LPM
Noise Level	Typically under 52dBA at max airflow
Output Temperature Range	100°-450°C
Temperature Stability	10% of display value (> 250°C)
Certifications/Markings	cNRTLus, CE, RoHS + WEEE
Surface Resistivity	10 ⁵ -10 ⁹ Ω /sq
Power Supply Dim. w x d x h	10.6 cm (4.2") x 21.3 cm (8.4") x 17.0cm (6.7")
Workstand Dim. w x d x h	7.6 cm (3.0") x 16.8 cm (6.6") x 8.6 cm (3.4")
Weight of the Power Supply	5.8 lbs. (2.63 kg)
Weight of the Workstand	0.9 lbs. (.4 kg)

Models

HCT2-200-11 Digital Hot Air Pencil, 110 VAC

HCT2-200-21 Digital Hot Air Pencil, 220-240 VAC

System includes: Hot air pencil, pack of 6 straight nozzles, workstand with nozzle holder

Optional Accessories

Part #	Description
HN-120KIT-6	Pack of 6 straight nozzles (1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm, 4.0mm)
HN-HCT2-BENT-6	Pack of 6 bent nozzles (1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm, 4.0mm)
HCT2-200-HP	Replacement Hand-piece
HCT-WS120	Replacement Workstand with nozzle holder
HCT-HTR200	Replacement 200W Heater
AC-CP2	Nozzle Removal Pad

