

Metcal HCT2-120 Digital Hot Air Pencil



The HCT2-120 Hot Air Pencil is the latest addition to Metcal's offering of 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 (i.e. 01005 components) the ergonomics of a pencil allow a user more freedom to access and rework components on the board without affecting adjacent parts. Larger hand-held convection systems commonly reflow and dislodge adjacent components due to a higher minimum airflow. The HCT2-120's small nozzle sizes and precise and controllable airflow and temperature allow the operator to target only the desired component.

FEATURES AND BENEFITS

- **120 Watt Ceramic Heater and Dual Stage Air Pump:** Provides the power and performance needed to deliver the right amount of thermal energy.
- **Digital Airflow and 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.
- **Universal Power Supply:** Automatically senses the input line voltage and adjusts accordingly, which allows for worldwide operation without adaptors or a change in performance.
- **Ergonomic and Light Weight Hand-Piece:** Slim and ergonomic design hand-piece that feels like a pencil, with a rubber grip.
- **Nozzles:** Six nozzles (1.5 mm – 4.0 mm) are included in the unit with a nozzle plate holder inside the workstand.
- **Easily Change Heaters and Nozzles:** Both can be changed in seconds.



SOIC's



0201's



1206's

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METCAL

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APPLICATIONS

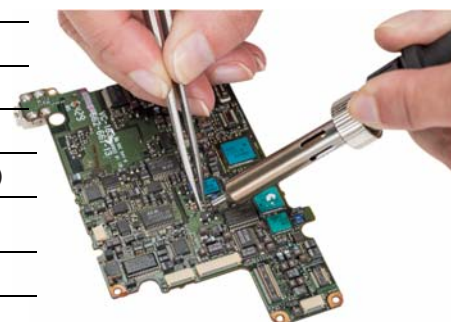
The HCT2-120 was developed for very small surface mount component sizes (1206's and smaller) and low board densities. For denser PCBA's or applications with heavy copper planes; boards >4 layers; or components larger than 5mm², use of a Metcal preheater (PCT-100 series) may be necessary.



PCT-100 (not included)

PARTS AND ACCESSORIES

HCT2-120	Digital Hot Air Pencil includes: Power system with hand-piece and heater, pack of 6 nozzles, workstand with nozzle plate holder and a nozzle removal pad
REPLACEMENT PARTS	
HCT-HTR120	120W Heater
HN-120KIT-6	Pack of 6 nozzles (1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5 mm and 4.0 mm)
HCT-WS120	Workstand with nozzle holder
AC-CP2	Heatproof nozzle removal pad



TECHNICAL SPECIFICATIONS

Ambient Operating Temperature	10 to 40°C
Input Line Voltage	100 – 240 VAC, grounded circuit
Input Frequency	50/60 Hz
Rated Power	75W
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 Ω -10 ⁹ Ω /sq
Power Supply Dimensions w x d x h	10.6 cm (4.2") x 21.3 cm (8.4") x 17.0cm (6.7")
Workstand Dimensions 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)