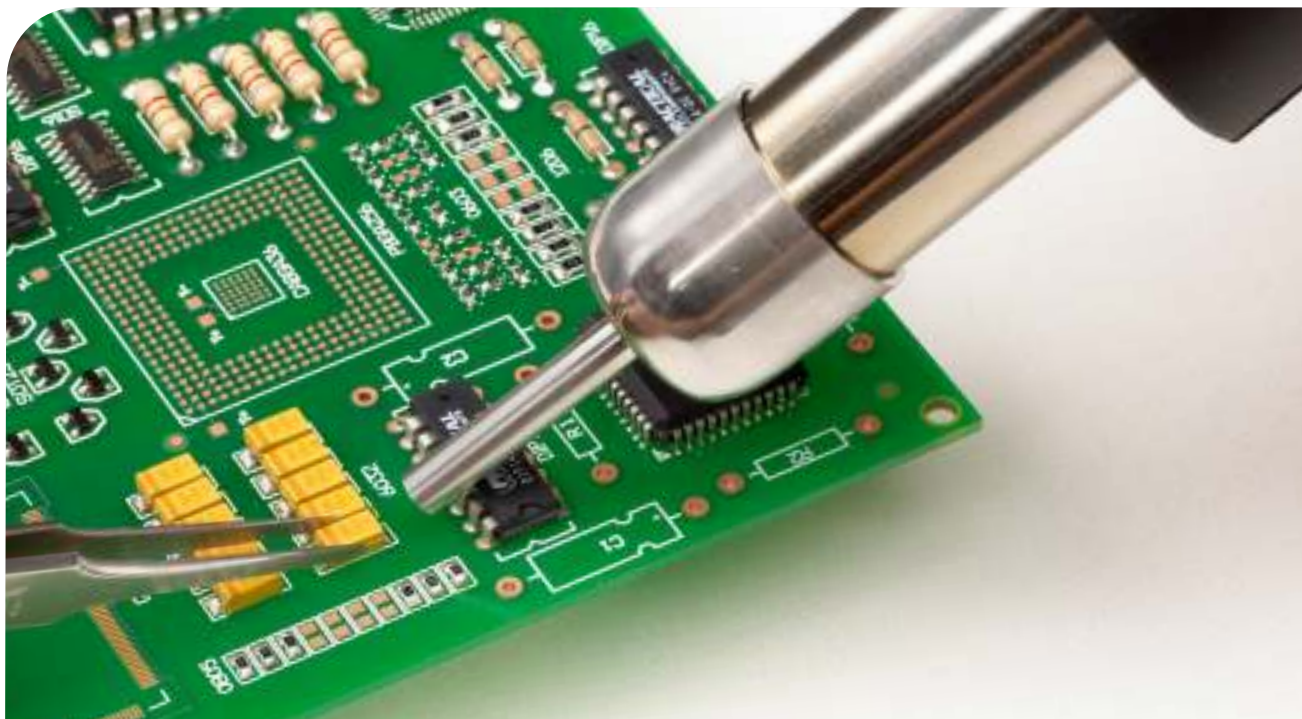


# HCT-900 Hand Held Convection Tool



## Versatile Hot Air Tool for Soldering and Desoldering Applications

The HCT-900 Hand Held Convection Tool offers a low cost, versatile rework solution for a wide variety of production and rework application challenges. It has a simple, compact robust design comprising of analog controls for both airflow and heat. A closed loop feedback circuit controls the temperature allowing the desired temperature to be achieved and maintained regardless of changes in the volume of airflow.

The HCT-900 can be used for the removal and refitting of electronic components, including lead-free, from 0201 up to 304 pin QFP. It is also effective at reworking pin in-hole devices such as sockets and connectors. And, using it with solder braid and flux is a fast and efficient way to remove solder shorts and splashes. It can also be used in plastic applications such as applying shrink wrap to components or the formation of plastic rivets.



The unique low noise air pump (less than 45 db) provides precise airflow control for the most demanding applications. The “power off” cool down function retains airflow through the hand piece while the unit powers down, providing efficient heater cooling and reducing thermal stress.

The HCT-900 is fully ESD compliant.

| Part No.   | Description                        |
|------------|------------------------------------|
| HCT-900-11 | 115 VAC, Hand Held Convection Tool |
| HCT-900-21 | 230 VAC, Hand Held Convection Tool |
| HCT-900-10 | 100 VAC, Hand Held Convection Tool |

## Nozzle Selection

The HCT-900 is supplied with a standard single jet H-D50 (0.2", 5.0 mm) nozzle. In addition two rework nozzle kits, predefined for specific applications, are available, as well as a full selection of nozzles.

| Part No.      | Description                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NZKT-1</b> | Nozzle Kit for Chip Resistors, SOIC & TSOP Packages. Includes (one each):<br><b>• H-D25 • H-SL16 • H-SL28</b><br><b>• H-SOJ40 • H-TS48</b> |
| <b>NZKT-2</b> | Nozzle Kit for PLCC, QFP & BQFP packages. Includes (one each):<br><b>• H-P20 • H-P44 • H-P84</b><br><b>• H-Q1420 • H-Q2626</b>             |

| PLCC, BQFP, QFP                                                                   | Model   | Chip Type           | A mm (in)    | B mm (in)    |
|-----------------------------------------------------------------------------------|---------|---------------------|--------------|--------------|
|                                                                                   | H-P20   | PLCC-20             | 11.9 (0.47") | 11.9 (0.47") |
|  | H-P28   | PLCC-28             | 14.5 (0.57") | 14.5 (0.57") |
|                                                                                   | H-P32   | PLCC-32             | 16.9 (0.67") | 14.3 (0.56") |
|                                                                                   | H-P44   | PLCC-44             | 19.5 (0.77") | 19.5 (0.77") |
|                                                                                   | H-P52   | PLCC-52             | 22.0 (0.86") | 22.1 (0.87") |
|                                                                                   | H-P68   | PLCC-68             | 27.0 (1.06") | 27.2 (1.07") |
|                                                                                   | H-P84   | PLCC-84             | 32.4 (1.28") | 32.4 (1.28") |
|                                                                                   | H-Q07   | QFP-48              | 8.4 (0.33")  | 8.4 (0.33")  |
|                                                                                   | H-Q10   | QFP-44              | 13.4 (0.53") | 13.4 (0.53") |
|                                                                                   | H-Q14   | QFP-52,80           | 17.3 (0.68") | 17.3 (0.68") |
|                                                                                   | H-Q1420 | QFP-64,80,100       | 23.4 (0.92") | 18.1 (0.71") |
|                                                                                   | H-Q28   | QFP-120,128,144,160 | 31.2 (1.23") | 31.2 (1.23") |
|                                                                                   | H-BQ23  | BQFP-100            | 22.4 (0.88") | 22.4 (0.88") |
|                                                                                   | H-Q3232 | QFP-240             | 34.5 (1.36") | 34.5 (1.36") |
|                                                                                   | H-BQ38  | BQFP-196            | 37.7 (1.48") | 37.7 (1.48") |
|                                                                                   | H-Q2626 | QFP-208             | 29.8 (1.17") | 29.8 (1.17") |
| SOIC, TSOP                                                                        | H-S16   | SOIC 14,16          | 6.8 (0.27")  | 10.2 (0.4")  |
|                                                                                   | H-SL16  | SOL 14,16           | 10.6 (0.41") | 10.8 (0.43") |
|                                                                                   | H-SL20  | SOL 20,20J          | 10.6 (0.41") | 13.3 (0.52") |
|                                                                                   | H-SL24  | SOL 24,24J          | 10.6 (0.41") | 15.9 (0.63") |
|                                                                                   | H-SL28  | SOL 28              | 10.6 (0.41") | 18.4 (0.72") |
|                                                                                   | H-SL44  | SOL 44              | 16.0 (0.41") | 27.9 (1.1")  |
|                                                                                   | H-SOJ32 | SOJ 32              | 13.5 (0.53") | 20.6 (0.81") |
|                                                                                   | H-SOJ40 | SOJ 40              | 13.5 (0.53") | 25.4 (1.0")  |
|                                                                                   | H-TS24  | TSOP 20-24          | 17.0 (0.67") | 7.1 (0.28")  |
|                                                                                   | H-TS32  | TSOP 28-32          | 21.0 (0.83") | 9.1 (0.36")  |
|                                                                                   | H-TS40  | TSOP 40             | 21.0 (0.83") | 10.8 (0.43") |
|                                                                                   | H-TS48  | TSOP 48             | 21.0 (0.83") | 13.3 (0.52") |
|                                                                                   | H-TSW24 | TSOP 20-24          | 10.2 (0.4")  | 18.4 (0.72") |
|                                                                                   | H-TSW44 | TSOP 24-28/40-44    | 12.7 (0.5")  | 19.8 (1.78") |
| CHIP & SOT                                                                        | Model   | Ø A (mm)            |              |              |
|                                                                                   | H-D25   | 2.5 (0.1")          |              |              |
|                                                                                   | H-D50   | 5.0 (0.2")          |              |              |
|                                                                                   | H-D120  | 12.0(0.47")         |              |              |

## Specifications

|                           |                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------|
| Input Line Voltage        | 115 VAC HCT-900-11<br>230 VAC HCT-900-21<br>100 VAC HCT-900-10                                         |
| Power                     | 320 W                                                                                                  |
| Air Pump Type             | Diaphragm                                                                                              |
| Air Flow                  | 6-25 l/min.                                                                                            |
| Control Temperature       | 100°C – 500°C (212°F – 932°F)                                                                          |
| Dimensions w x l x h      | 6.7"x 8.7" x 5.5" inches, 170 x 210 x 140 mm                                                           |
| Noise Level               | Less than 46 dBA                                                                                       |
| Surface Resistivity       | Unit: 10 <sup>5</sup> Ω – 10 <sup>6</sup> Ω. Hand-piece & tube: 10 <sup>7</sup> Ω – 10 <sup>11</sup> Ω |
| Weight                    | 10.4 lbs. (4.7 kg.)                                                                                    |
| Certification / Approvals | cTUVus, CE                                                                                             |