

REFLOW OVEN TWSI320

The TWS I320 convection oven is a full forced air convection oven complementing the whole range of our reflow systems. It is a four zones oven capable of soldering boards up to 400mm in width. A great variety of thermal profiles can be obtained (to fulfil even the most complex demands) due to their four heating zones and the digital adjustment of the conveyor speed.



Ref. code: UXOTWSI320 (220 V)
Ref. code: UXOTWSI321 (380 V)

The air temperature is controlled by a micro-processor through K-type thermocouples placed in each zone, that keeps the temperature between tight limits.

The cooling zone is optimised to lower the temperature to the required level without causing unwanted thermal shocks either to soldering joints or to components

The heating elements are controlled by a PID regulator utilizing Burst Firing commutation, complying to EMI standards.

The ovens' main parameters, which are constantly monitored by a microprocessor connected to the PC LCD display, shows:

- Temperature set point, for each heating zone
- Actual temperature, for each heating zone
- Conveyor speed set point
- Actual speed of the conveyor

Other functions are:

-Delayed connection of the zone in order to reduce power consumption during the zone heating.

-In the event of a power failure, a back up battery enables the conveyor to continue running until all boards have exited the machine.

One upper windows on the machine allows the user to observe the reflow process in real time.

A support bench for the oven is also available (**ref. code: UOI380180**)



ALSO SOLDERING LEAD-FREE

TECHNICAL SPECIFICATION

- **Conveyor belt width:** 400 mm
- **Conveyor height:** adjustable from 37" to 38"
- **Conveyor speed mm/minute:** Min 75; Max 500
- **Maximum component height:** 35 mm
- **Maximum temperature differential between adjacent zones:** 110°
- **Max temp. settings:** 300°C (zone 1, zone 2, zone 3); 350°C (zone 4)
- **Maximum power consumption:** 11 kW

- **Average power consumption:** 4 kW
- **Heating zones:** 4
- **Cooling zone:** 1
- **Power supply:** 230 Volt or 400 Volt
- **Dimensions:** 800x3000x600 mm. (Depth x Width x Height)
- **Net weight:** 265 Kg
- **Packaging:** 880x3110x900 mm. (Depth x Width x Height)
- **Gross weight:** 385 kg