

## SAHARA DRY FORCED VENTILATION OVEN WITH HUMIDITY CONTROL (3 SIZES)



SKU: SAHARADRY



### PCB AND SMD COMPONENT BAKING OVEN

**SAHARA DRY - Forced ventilation oven with temperature and humidity control**, equipped with safety thermostat and vent opening.

As the SAHARA model does, **it bakes PCBs** in accordance with IPC-1602 standard. Furthermore, it is suitable for **baking SMD components in accordance with J-STD-033** standard, being able to guarantee a relative humidity rate of less than 5% when baking at 40 and 90 °C.

Dehumidification is made by blowing dry air\*. For this reason, SAHARA DRY ovens are equipped with an **improved airtight chamber**, in order to maintain the RH level achieved, reducing air consumption.

Timer, programmable starting and countdown mode allow you to precisely set baking times.

The digital control is equipped with an internal clock with backup function, in order to maintain the exact date and time even without power supply for up to a week.

By purchasing the PIDManager software separately (NOT included) it is also possible to connect the oven to a PC. This option allows you to trace the oven's activity through the built-in **datalogger** (included with each oven). It also allows you to program and execute **thermal cycles**, useful for testing and heating/cooling materials selecting a temperature gradient.

## Specifications

- **TEMPERATURE CONTROL**

Temperature electronic control with PID regulation and multifunction timer

**Temperature range: 40 / 280 °C**

Accuracy:  $\pm 1.5$  °C

Resolution:  $\pm 1$  °C

Modes: **Setpoint** (the oven reaches the setpoint temperature and stabilises), **Countdown** from 1 minute to 999 hours and 59 minutes (once the setpoint temperature is reached, the oven keeps it stable until the requested date and time, then turns off), **Programmed starting** (you can set in advance the date and time the oven will turn on, and at what temperature)

- **HUMIDITY CONTROL**

Humidity electronic control: **< 5% RH for 40 °C  $\leq$  T  $\leq$  100 °C**

Humidity range: 1-95% RH

Accuracy:  $\pm 2\%$  RH

Resolution:  $\pm 0.1\%$  RH

Modes: **Fast** (dehumidification is done at the max. speed possible), **Eco** (dehumidification is done in successive cycles, optimizing air consumption)

Compressed air requirements\*: dry air from 3 to 8 atm – Average consumption: 30 nl/min. / max.: 100 nl/min.

- **Materials:** External structure made of epoxy coated steel, Internal structure made of AISI304 stainless steel, Natural mineral fibre thermal insulation, Chromed steel shelves
- Heating elements have no contact with the internal chamber
- Height adjustable grid shelves
- Manually operated vent opening
- Adjustable safety thermostat, equipped with light alarm and manual reset.

Available sizes:

| Capacity          | Included shelves | Internal dimensions (cm) | External dimensions (cm) | Power (W)    | Weight (kg) |
|-------------------|------------------|--------------------------|--------------------------|--------------|-------------|
| <b>80 litres</b>  | 2 (max. 8)       | 458 x 372 x 472 H        | 796 x 570 x 680 H        | 1200 / 230 V | 45          |
| <b>120 litres</b> | 2 (max. 9)       | 498 x 477 x 512 H        | 836 x 680 x 720 H        | 1600 / 230 V | 50          |
| <b>250 litres</b> | 2 (max. 14)      | 593 x 522 x 797 H        | 956 x 730 x 1025 H       | 3200 / 230 V | 90          |

**Available accessories** (NOT included): Additional shelves, **PIDMANAGER software** with USB connection cable.

**Alternative layouts** (on request only): Inspection window (200 x 200 mm), Side hole for cable passage ( $\varnothing$  50 mm).

**Product variation:** SAHARA DRY model with temperature and humidity control.

\* ATTENTION | Compressed air required (NOT included).

## VARIATIONS

| SKU            | Description | Capacity |
|----------------|-------------|----------|
| SAHARADRY-80L  |             | 80L      |
| SAHARADRY-120L |             | 120 L    |
| SAHARADRY-250L |             | 250 L    |