

SAHARA - BAKING OVENS



Many sizes (from 40 to 700 liter) and power to satisfy all different applications.

The ovens are controlled by a digital controller that is easy to set. This digital controller is a smart PID thermo regulator with integrated datalogger and multifunction timer.

The Sahara ovens can work in 4 modes:

1) SetPoint:

The oven reaches a setpoint temperature and stays steady.

2) Countdown:

It's like the SetPoint mode but with a time limit. After the countdown time is expired the oven stops. Time limit can be set from 1 minute to 999 hours and 59 minutes.

3) Programmed start-up:

It's useful when you want to start-up the oven on a precise date/time (for example at 6:30 on monday after the weekend the oven start-up to SetPoint 200 °C)

4) Thermal programmer:

It's possible to edit on a PC and then download to the digital controller up to 10 programs with 100 steps each. In every step you can set: the temperature setpoint, the maximum gradient to reach it and the duration.

PIDManager software

The PIDManager software is compatible with Windows XP/2000/Vista/7 and is an option (8107.215). This option is necessary to set thermal programs and to download and view datalogger records.

Inside every digital controller of the Sahara ovens there is integrated a datalogger that can log 21600 samples of temperature at a sample rate selectable between 1, 5, 10, 15, 30 sec, 1, 5, 10, 15, 30min.

The digital controller has an internal clock with back-up that can keep the right clock for a week without power supply. This is useful to minimize the damage caused by any black-out when the oven is working in "Countdown", "Clock" or "Prog" mode.

Professional forced ventilation oven ideal for:

Drying the MSD components

to reset the floor life clock.

Drying the PCBs

(Printed Circuit Boards) before the assembly

Drying the PBAs

(Printed Boards Assembled) before the rework or repair.

Pre-heating of the PCBs / PBAs

to reduce the delta T °C before rework or repair

Technical specifications:

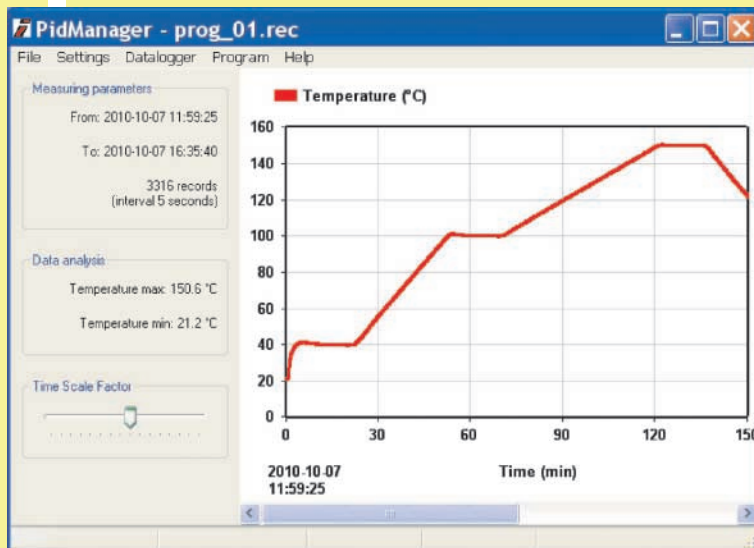
Outer body : steel coated in epoxy anti-acid paint.
 Inner structure: in stainless steel AISI304
 Heating elements: not in contact with the internal chamber
 Thermal insulation: with natural mineral fibre
 Internal grid shelves: can be placed at different height
 Ventilation opening: with manual flow control

Temperature range: +40 / +280 °C
 Temperature control: with digital PID thermo regulator, datalogger and multifunction timer

PC interface: USB

Display accuracy: +/- 1 °C

Safety thermostat : with visual alarm and manual reset



Code	Model	Shelves (included/max)	Int. Dimensions (LxPxH)	Ext. Dimensions (LxPxH)	Power W	Weight kg
8107.103	Sahara 40 litre	1/7	348x312x367	686x515x575	800/230V	35
8107.105	Sahara 60 litre	2/7	408x372x422	746x570x605	1200/230V	40
8107.107	Sahara 80 litre	2/7	458x372x472	796x570x680	1200/230V	45
8107.109	Sahara 120 litre	2/9	498x477x512	836x680x720	1600/230V	50
8107.111	Sahara 250 litre	2/11	593x522x797	956x730x1025	2500/230V	90
8107.113	Sahara 400 litre	2/11	693x607x980	901x815x1487	3200/230V	140
8107.115	Sahara 700 litre	3/11	693x607x1470	901x815x1977	6000/400V	180
8107.215	PIDManager software and specific USB cable to set thermal programs and to download and view datalogger records					
8107.150	Additional shelf for Sahara 40 litre					
8107.152	Additional shelf for Sahara 60 litre					
8107.154	Additional shelf for Sahara 80 litre					
8107.156	Additional shelf for Sahara 120 litre					
8107.158	Additional shelf for Sahara 250 litre					
8107.160	Additional shelf for Sahara 400 litre					
8107.162	Additional shelf for Sahara 700 litre					