Universal precision ovens “Digitronic-TFT”

PREMIER SERIE

FAN ASSISTED CIRCULATION.
BACTERIOLOGICAL ASSAYS, DRYING PROCESSES AND STERILIZATION.
MICROPROCESSOR CONTROL WITH TFT TOUCH SCREEN.
ADJUSTABLE TEMPERATURES FROM AMBIENT +5 °C UP TO 300 °C.
STABILITY: ±0.3 °C, UP TO 100 °C. HOMOGENEITY: ±1 °C, UP TO 100 °C. GLASS DOOR ±2 UP TO 100 °C.
SET ERROR: ±2% OF THE WORKING TEMPERATURE. RESOLUTION: 1 °C.
UP TO 6 PROGRAMMABLE TEMPERATURE STEPS

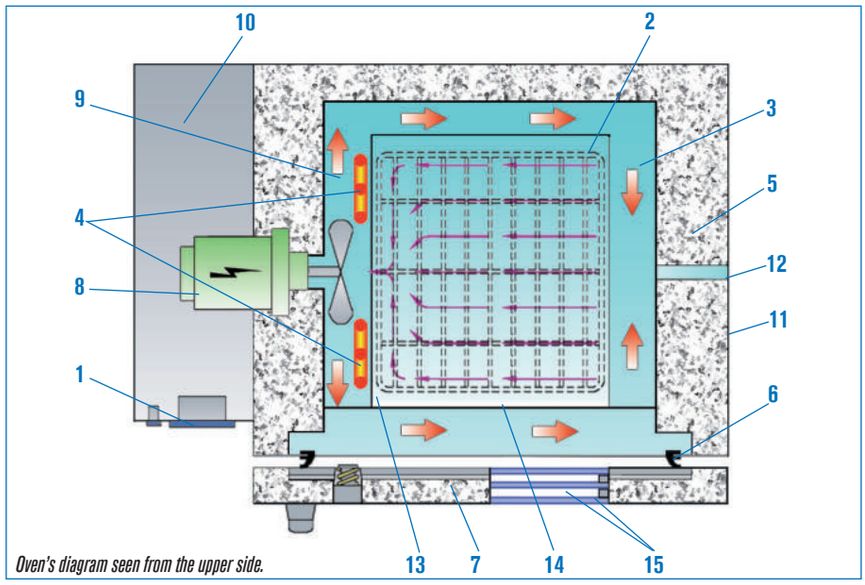
SAFETY:
EN.61012 STANDARD OVER TEMPERATURE SAFETY CUT OUT FITTED.
ADJUSTABLE OVER TEMPERATURE SAFETY THERMOSTAT DIN 12880. (CLASS 2 AND 3.1) FITTED.

Multipurpose oven. Fast response and recuperation of temperature.

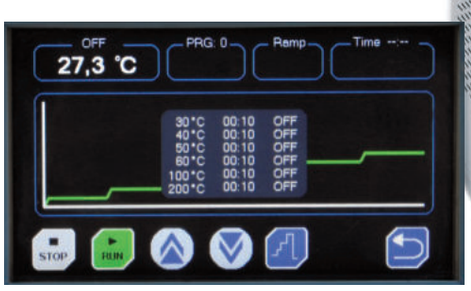
FEATURES

1. TFT touch screen.
2. Inner chamber made of AISI 304 stainless steel.
3. Pre-mixing chamber made of AISI 304 stainless steel.
4. Homogeneously distributed shielded heating elements with complete air circulation throughout.
5. Low external temperature due to excellent thermal insulation.
6. Flexible silicon door gasket around the entrance of the chamber.
7. Excellent door seal due to the floating inner door that adjusts and absorbs the thermal expansion.
8. Turbo fan made of AISI 304 stainless steel that makes to circulate the air at the working temperature.
9. Diagram showing the air flow from the pre-mixing chamber around the heating elements prior to entry to the oven’s chamber.
10. Independent insulated control box.
11. Epoxy coated outer case.
12. Ventilator with adjustable outlet (access at the back of the unit).
13. Adjustable height positions for guides and shelves.
14. Shelves made of AISI 304 stainless steel.
15. Toughened double safety glass door for viewing the contents of the oven without having to open the door. (Model dependent).

CONTROL PANEL, SAFETY, STANDARD AND ACCESSORIES (see pages 145 and 146).



Oven’s diagram seen from the upper side.



Temperature steps graphic.



Model Digitronic with solid metal door. Part No. 2005163 and 2005167. (With toughened glass window door. Part No. 2005164 and 2005168).



Model Digitronic type Poupinel, door with toughened double glass window
Part No. 2005166 and 2005170.



Model Digitronic type Poupinel,
Part No. 2005165 and 2005169.

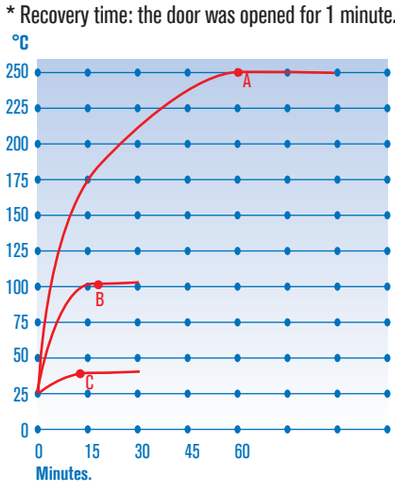
STANDARD EQUIPMENT

2 shelves and 4 shelf guides.

MODELS

Part No.	Capacity litres	Door Type	Heating rate to 100 ºC minutes	Recovery time* minutes	Complete air exchange per hour	Height / Width / Depth (interior) cm			Height / Width / Depth (exterior) cm			Shelf Positions	Power W	Weight Kg
2005163	33	metal	15	7	16	40	28	30	60	65	55	7	1200	38
2005164	33	glass	15	7	16	40	28	30	60	65	55	7	1200	40
2005165	47	metal	16	7	16	33	45	32	53	81	58	5	1200	46
2005166	47	glass	16	7	16	33	45	32	53	81	58	5	1200	50
2005167	80	metal	17	9	14	50	38	40	70	75	65	8	1600	58
2005168	80	glass	17	9	14	50	38	40	70	75	65	8	1600	64
2005169	145	metal	17	10	12	50	58	50	70	95	72	9	2000	74
2005170	145	glass	17	10	12	50	58	50	70	95	72	9	2000	79

* Recovery time: the door was opened for 1 minute. After that, this is the time to recover the set temperature to 100 °C.



Note: The stability and homogeneity curves for time and temperature shown on the graph apply to models that have a metal door.

Performance graph of temperature and time.
A. Set at 250 °C: 60'.
B. Set at 100 °C: 18'.
C. Set at 37 °C: 12'.

SPARES

Shelves and guides.

Oven Part No.	2005163 2005164	2005165 2005166	2005167 2005168	2005169 2005170
Guides (2) (Set)	2000012	2000033	2000013	2000015
Shelves	2000072	2000073	2000074	2000075

Each shelf requires two guides i.e. one set.

ACCESSORIES



Preparation of furnaces for drying moisture saturated samples. (Arids, muds, sands ...)
When adding turbine, the number of renewals of the air inside the furnace per hour multiplies by 10.
Must be factory installed
Part No. 2000095
Optional: Upper aeration device with adjustable outlet of 120 Ø mm in diameter.