

# Universal ovens

# AC



**Forced air convection**  
**AC60 / AC120 / AC240**



**Froilabo** **Firlabo**

# A New oven generation

They are used for many purpose : heat treatment, ageing of components, drying processes, sterilisation....They have been designed for all thermal treatments from ambient +10°C to 250°C.

The AIR CONCEPT Ovens AC range are available in three volumes, 60 litres, 120 litres and 240 litres and in two versions :

- Standard version
- High-Tech version

## AC Standard version benefits :

Temperature cycle programming up to 8 temperatures.  
High and low alarm temperature.

## AC High-Tech version benefits :

Temperature cycle programming up to 16 temperatures.  
Data collection : RS485 and remote alarm.  
High and low alarm temperature.



## Technical specifications

This technical specifications are common to Standard and High-Tech versions.

### Electronic PID controller,

Temperature range from ambient +10°C to +250°C,  
double digital display 1/10th °C,  
low and high temperature visual alarm integrated into the controller.

### Over temperature safety thermostat,

according to the EN61010 European norm with safety set point adjustable only with a tool. Over temperature warning light.

### Forced air convection,

Turbine ventilation,  
perforated non tipping over shelves :  
better temperature uniformity when fully load.

Cable entry port

### Easy cleaning,

Removable racks,  
stainless steel 304 chamber and shelves,  
silicon gasket.

AC60



# Standard version : confort and accuracy

## Controls and Programmation

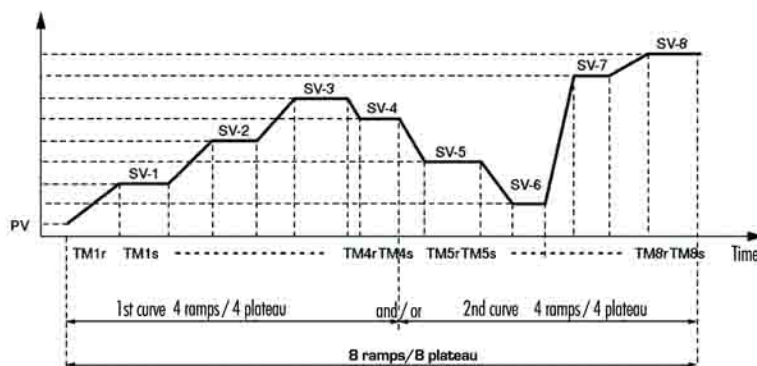
- Programmable electronic PID controller.
- Double digital display 1/10th °C.
- Integrated programming function.
- Temperature cycle up to 4 temperatures.
- Ramp set up (°C/hours).
- Plateau time set up (hours-min).
- Timer (99H and 59 min).

## Safety

- Safety thermostat class 3.1 according to NF EN 61010.
- Over temperature safety adjustable with visual alarm.



Programmable electronic PID controller



# High-Tech version : monitoring

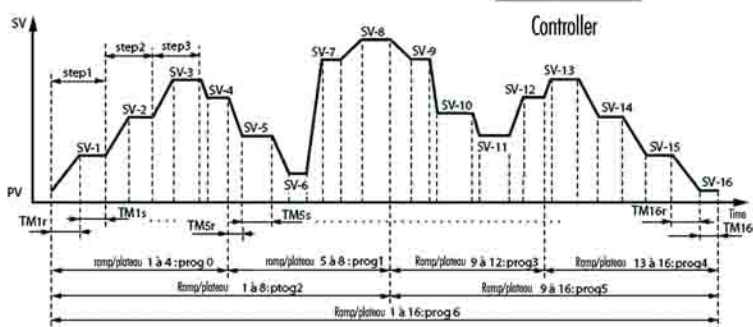
The high Tech version has the same specifications as the standard version, with more possibilities for programming and data collection.

## Controls and Programming

- Programmable electronic PID controller.
- Double digital display 1/10th °C.
- Possibility to program up to 7 different cycles with 16 temperatures.
- Delayed start timer.



Controller



## Data management

- RS485 communication 9 pins DIN connector.
- Remote alarm.
- Data management software.





# Technical data

## Standard and High-Tech version



Type			AC 60	AC 120	AC 240
Temperature range		°C	Amb. +10°C / 250°C	Amb. +10°C / 250°C	Amb. +10°C / 250°C
Performances					
Uniformity at	70°C	+/-°C	<0,5	<0,5	<0,5
	105°C	+/-°C	<1.2	<1.2	<1.2
	150°C	+/-°C	<1.7	<1.7	<1.7
	250°C	+/-°C	<2,5	<2,5	<2,5
Fluctuation	105°C	+/-°C	<0.2	<0.2	<0.2
	250°C	+/-°C	<0.4	<0.4	<0.4
Display resolution		°C	0.1	0.1	0.1
Heating up time to	70°C	min	4	6	5
	150°C	min	14	22	18
	250°C	min	29	50	38
Recovery time door open - 60 sec. From	70°C	min	1	2	1
	150°C	min	2	3'30	3
	250°C	min	3'30	6	5
Max. air exchange rate - open air slides		x vol/h	50	35	35
<b>Dimensions - Volumes</b>					
External dimensions	W x D x H	mm	522 x 540 x 640	622 x 640 x 740	622 x 640 x 1236
Internal dimensions	W x D x H	mm	400 x 370 x 390	500 x 470 x 500	500 x 470 x 980
Clear volume		liters	58	117	230
<b>Shelves</b>					
standard supplied		nbre	2	2	2
max. shelves advised		nbre	21	29	62
Maximal load - on a shelf / total		kg	20 / 50	20 / 70	20 / 90
Dimensions	W x D	mm	380 x 320	480 x 430	480 x 430
<b>Weight</b>					
Net weight		Kg	39	53	79
Gross weight		Kg	53	69	97
<b>Electrical data</b>					
Electrical supply		V / Hz	230 / 50	230 / 50	230 / 50
Electrical load		W	1000	1000	2000
Intensity		A	10	10	10

## Accessories

- Additional stainless steel shelf
- Stacking unit as standard
- Sub frame with or without castors
- Stainless steel water tray



8 Bd Monge - 69330 Meyzieu - FRANCE  
Phone. +33 478 047 575 - Fax. +33 478 047 576

www.froilabo.com - export@froilabo.com

## Options

- PT 100 ohms + din socket for recorder link
- Adjustable air exchange system
- Circular disc recorder
- Electronic recorder
- Key locking door
- Cofrac Certificate



Your dealer

