

## Forced Air Convection Ovens

### Models AC60 / AC120 / AC240



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

The AIR CONCEPT Oven AC range is available in three volumes: 60 Litres, 120 Litres and 240 Litres. And in two versions: Standard Version and High-Tec Version.

#### AC Standard version benefits:

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

#### AC High-Tec version benefits:

- Temperature cycle programmable 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: Accuracy

#### Controls and Programmability

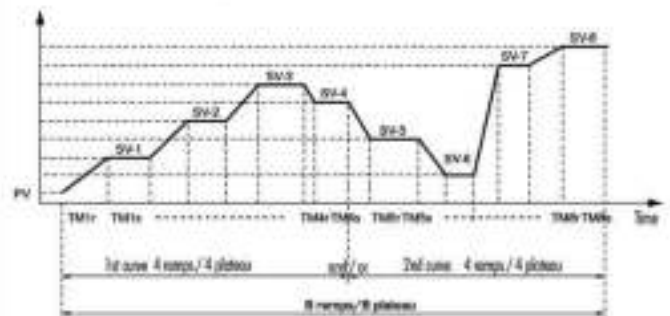
- Programmable electronic PID controller
- Double digit display 1/10<sup>th</sup> °C
- Integrated programming function
- Temperature cycle up to 4 temperatures
- Ramp set up (°C/hours)
- Plateau time set up (hours-mins)
- Timer (99H and 59min)



Programmable electronic PID controller

#### Safety

- Safety thermostat class 3.1 according to NF EN 610610.
- Over temperature safety adjustable with visual alarm



## Technical Specifications

### 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 digit display 1/10<sup>th</sup> °C

Possibility to program up to 7 different cycles with 16 temperatures.

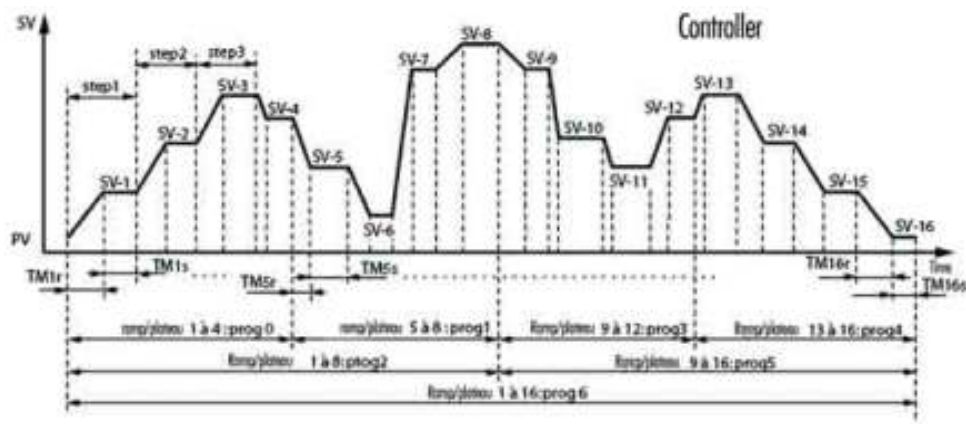
Delayed start timer.

#### Data management

RS485 communication 9 pins DIN connector.

Remote alarm.

Data management software



## Technical Specifications

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
<b>Performances</b>					
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 without castors
- Stainless steel water tray

### Options

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

