

## Laboratory incubators



- Laboratory incubators with analogic regulation.
- Natural air convection.
- Regulable temperature from room temperature +5°C up to 80°C.
- Analogic thermometer with reader up to 80°C
- Outer construction made of steel covered by epoxy.
- Inner construction: back rest ring for shelves and storm door made of stainless steel.
- Inner door made of security tempered glass.
- 2 inner shelves made of stainless steel regulable height.
- Homogeneity:  $\pm 2\%$ .
- Stability:  $\pm 0,5\%$ .

Reference	Model	Capacity (L)	Outer dimensions cm WxDxH	Inner dimensions cm WxDxH	Watt	Weight Kg
505036	IDL.CI 36	36	46x65x43	30x38x32	320	35
505080	IDL.CI 80	80	66x77x46	48x48x35	320	49
505122	IDL.CI 122	120	75x83x57	50x50x48	320	64
505208	IDL.CI 208	208	85x89x69	60x60x58	640	81

### Accessories for laboratory incubators model CI:

- 501036 Stainless steel shelf for 36 litres laboratory incu
- 501080 Stainless steel shelf for 80 litres laboratory incu
- 501120 Stainless steel shelf for 120 litres laboratory incubator
- 501208 Stainless steel shelf for 208 litres laboratory incubator
- 501022 24H
- 501087 Safety thermostat
- 501501 Electronic digital controller LABOLAN
  - Temperature/time microprocessor controlled
  - Digital display to show actual and setting temperatures
  - Programming of temperature and time
  - Attended time function
- 501014 Temperature



## Laboratory incubators



- Electronic regulation microprocessor controller and digital reading for temperature.
- Natural air convection.
- Regulable temperature from room temperature +5°C up to 80°C.
- Outer construction made of steel covered by epoxy.
- Inner construction: back rest ring for shelves and storm door made of stainless steel.
- Inner door made of security tempered glass.
- 2 inner shelves made of stainless steel regulable height.
- Homogeneity:  $\pm 2\%$ .
- Stability:  $\pm 0,3\%$ .
- Temperature /time microprocessor controlled:
  - Digital display to show actual and setting temperatures.
  - Work temperature setting.
  - Time setting up to 99 hours 99 seconds.
  - Attended time function.

Reference	Model	Capacity L	Outer dimensions cm WxDxH	Inner dimensions cm WxDxH	Watt	Weight Kg
504036	IDL.CD 36	36	46x65x43	30x38x32	300	35
504080	IDL.CD 80	80	66x77x46	48x48x35	300	49
504120	IDL.CD 122	120	75x83x57	50x50x48	300	64
504208	IDL.CD 208	208	85x89x69	60x60x58	650	81
504400	IDL.CD 400	400	122x107x70	100x80x50	800	165
504720	IDL.CD 720	720	148x127x75	120x110x60	875	230

### Accessories for laboratory incubators model CD:

- 501036 Stainless steel shelves for 36 litres laboratory incubator
- 501080 Stainless steel shelves for 80 litres laboratory incubator
- 501120 Stainless steel shelves for 120 litres laboratory incubator
- 501208 Stainless steel shelves for 208 litres laboratory incubator
- 501288 Stainless steel shelves for 288 litres laboratory incubator
- 501400 Stainless steel shelves for 400 litres laboratory incubator
- 501720 Stainless steel shelves for 720 litres laboratory incubator
- 501087 Safety thermostat
- 501014 Temperature

## Drying ovens



- Analogic regulation ovens for drying.
- Natural air convection.
- Regulable temperature from room temperature +5°C up to 250°C.
- Analogic thermometer with reader up to 250°C.
- Outer construction made of steel covered by epoxy.
- Inner construction: back rest ring for shelves and storm door made of stainless steel.
- 2 inner shelves made of stainless steel regulable height.
- Homogeneity:  $\pm 2\%$ .
- Stability:  $\pm 0,5\%$ .

Reference	Model	Capacity L	Outer dimensions cm WxDxH	Inner dimensions cm WxDxH	Watt	Weight Kg
506036	IDL.AI 36	36	46x65x43	30x38x32	1230	35
506080	IDL.AI 80	80	66x77x46	48x48x35	1230	49
506122	IDL.AI 122	120	75x83x57	50x50x48	1230	64
506208	IDL.AI 208	208	85x89x69	60x60x58	2275	81

### Accessories for drying ovens model AI:

- 501036 Stainless steel shelf for 36 litres laboratory incu
- 501080 Stainless steel shelf for 80 litres laboratory incu
- 501120 Stainless steel shelf for 120 litres laboratory incubator
- 501208 Stainless steel shelf for 208 litres laboratory incubator
- 501022 24H
- 501087 Safety thermostat
- 501014 Temperature
- 501501 Electronic digital controller LABOLAN
  - Temperature/time microprocessor controlled
  - Digital display to show actual and setting temperatures
  - Programming of temperature and time
  - Attended time function



## Drying ovens ECOLAN with forced air convection



- Analogic regulation ovens for drying.
- Forced – air convection, with fan.
- Regulable temperature from room temperature +5°C up to 250°C.
- Analogic thermometer with reader up to 250°C.
- Safety thermostat.
- Outer construction made of steel covered by epoxy.
- Inner construction: back rest ring for shelves and storm door made of stainless steel.
- 2 inner shelves made of stainless steel regulable height.
- Homogeneity:  $\pm 2,5\%$ .
- Estability:  $\pm 0,3\%$ .

Reference	Model	Capacity L	Outer dimensions cm WxDxH	Inner dimensions cm WxDxH	Watt	Weight Kg
503030	IDL.EI 36	36	46x65x54	30x38x32	1500	37
503072	IDL.EI 80	80	66x77x66	48x48x35	1500	51
503119	IDL.EI 122	120	75x83x67	50x50x48	1500	66
503207	IDL.EI 208	208	85x89x85	60x60x58	2475	83

### Accessories for drying ovens model EI:

- 501036 Stainless steel shelf for 36 litres laboratory incu
- 501080 Stainless steel shelf for 80 litres laboratory incu
- 501120 Stainless steel shelf for 120 litres laboratory incubator
- 501208 Stainless steel shelf for 208 litres laboratory incubator
- 501022 24H
- 501501 Electronic digital controller LABOLAN
  - Temperature/time microprocessor controlled
  - Digital display to show actual and setting temperatures
  - Programming of temperature and time
  - Attended time function



## Drying ovens DIGILAN with forced air convection



- Electronic regulation microprocessor controller and digital reading for temperature.
- Forced – air convection, with fan.
- Regulable temperature from room temperature +5°C up to 250°C.
- Digital temperature regulator with digital reading.
- Safety thermostat incorporated.
- Outer construction made of steel covered by epoxy.
- Inner construction: back rest ring for shelves and storm door made of stainless steel.
- 2 inner shelves made of stainless steel regulable height.
- Homogeneity:  $\pm 2\%$
- Stability:  $\pm 0,3\%$ .
- Temperature/time microprocessor controlled:
  - Digital display to show actual and setting temperatures.
  - Work temperature setting
  - Time setting up to 99 hours 99 seconds.
  - Attended time function.

Reference	Model	Capacity L	Outer dimensions cm WxDxH	Inner dimensions cm WxDxH	Watt	Weight Kg
503036	IDL.FI 36	36	46x65x54	30x38x32	1500	37
503080	IDL.FI 80	80	66x77x66	48x48x35	1500	51
503120	IDL.FI 122	120	75x83x67	50x50x48	1500	66
503208	IDL.FI 208	208	85x89x85	60x60x58	2475	94
503288	IDL.FI 288	288	120x89x85	80x60x60	3500	155
503400	IDL.FI 400	400	122x107x80	100x80x50	4500	187
503720	IDL.FI 720	720	148x127x85	120x100x60	7500	244

### Accessories for drying ovens model FI:

501036	Stainless steel	36 litres laboratory incubator
501080	Stainless steel	80 litres laboratory incubator
501120	Stainless steel	120 litres laboratory incubator
501208	Stainless steel	208 litres laboratory incubator
501288	Stainless steel	288 litres laboratory incubator
501400	Stainless steel	400 litres laboratory incubator
501720	Stainless steel	720 litres laboratory incubator
501014	Temperature	



## Refrigerating incubators

### 51043 Refrigerating incubator FTC90E

- With autotuning temperature regulator.
- CFC free.
- Volume: 90 Litres.
- Internal electrical current socket.
- Forced air recirculation.
- Accuracy: at 20°C  $\pm 0,5^{\circ}\text{C}$ .
- Internal temperature homogeneity:  $\pm 0,5^{\circ}\text{C}$ .
- Internal temperature stability:  $\pm 0,5^{\circ}\text{C}$ .
- Auto – tuning electronic thermoregulation.
- Temperature setting from 3°C up to 50°C.
- Resolution: 0,1°C.
- Interface RS232.
- Dimensions: 615x550x540 mm
- Weigh: 29 kg
- Power: 150 W.
- Voltage: 230/50 Hz.



### 51143 Refrigerating incubator FTC 90I with internal glass door

Same characteristics than FOC 90E

### 51040 Refrigerating incubator FOC225E

- CFC free.
- Volume: 220 litres.
- Auto-tuning electronic thermoregulation.
- Temperature setting from 3°C up to 50°C.
- Resolution: 0,1°C.
- Internal temperature homogeneity:  $\pm 0,5^{\circ}\text{C}$ .
- Internal temperature stability:  $\pm 0,5^{\circ}\text{C}$ .
- Forced air recirculation.
- 2 Internal electrical current sockets.
- Dimensions: 540x540x1280 mm.
- Weigh: 40 Kg.
- Power: 300 W.
- Voltage: 230/50 Hz.



### 51140 Refrigerating incubator FOC 225I

- With internal glass door.
- Same characteristics than FOC 225E.

## Accessories:

12010 Connecting RS232 interface

12020 Software compatible with Windows

- To record on an Excel file and display in graphic form the internal temperature values.
- To signal and record any accidental overheating, failure of the probe or deviation from the set temperature range.
- To use prorammmable temperature and times work cycles.



## CO<sub>2</sub> incubators

Designed for cellular culture, tissues and organism.

### Technical Characteristics:

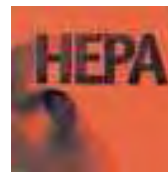
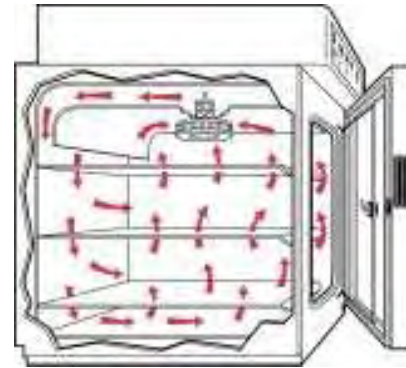
- Microprocessor controlled.
- Contamination control through the internal air circulation, HEPA filter which removes 99,97% of all airborne microtubes and isolated particulates 0,3 microns or larger..
- The copper CO<sub>2</sub> gas line, in water jacket and in simple port as well as HEPA filter holder, in copper too, avoid the possibility of external contaminations.
- Inner in stainless steel with coved corners and quick disassembled shelf system, for an easy cleaning by means of the "Quick Clean Shelf System".
- Condensation is eliminated by means of a double heating system
  - Inner glass door with self heating, microprocessor controlled.
  - CO<sub>2</sub> gas line, heated and filtered.
- Possibility of connetion of 2 CO<sub>2</sub> bottles for an autimatically switch from one to the other.
- Temperature microprocessor controlled:
  - Allows inner and door temperature regulation, reaching a high temperature uniformity and preventing condensations.
  - Temperature continuous sampling.
- Wide capacity for spill-proof shelves.
- Monitored of: temperature , CO<sub>2</sub>, alarms....
- External communications and validations port.



### CO<sub>2</sub> control:

- **IR Version**, with infrared sensor, ideal for applications whre door openings occurs frequently because recovery is unaffected by changes in temperature or humidity, and allows a rapid CO<sub>2</sub> recovery.
- **TC Version**, with thermal conductivity sensor, uses humidity and CO<sub>2</sub>'s density to determine CO<sub>2</sub> concentration. Complete CO<sub>2</sub> recovery depends on humidity levels.

# CO<sub>2</sub> incubators



Code	505215	502323	502424
Model	5215	2323	2424
<b>Volume (L)</b>	160	190	190
<b>Temperature range</b>	room temperature +5°C to 60°C	room temperature +5°C to 60°C	room temperature +5°C to 60°C
<b>Temperature uniformity</b>	± 0,35°C (at 37°C)	± 0,25°C (at 37°C)	± 0,25°C (at 37°C)
<b>Temperature resolution</b>	±0,1°C.	±0,1°C.	±0,1°C
<b>CO<sub>2</sub> sensor</b>	Infrarred	TC	Infrarred
<b>CO<sub>2</sub> range</b>	0-20%	0-20%	0-20%
<b>CO<sub>2</sub> Resolution</b>	±0,1%	±0,1%	±0,1%
<b>CO<sub>2</sub> Uniformity</b>	±0,1%@5%	±0,1% @5%	±0,1% @5%
<b>CO<sub>2</sub> Recovery 5%</b>	< 3 minutes	< 5 minutes	<3 minutes
<b>CO<sub>2</sub> Pressure reg</b>	No	Yes	Yes
<b>Humidity range</b>	Up to 95%	Up to 95%	Up to 95%
<b>Temperature alarm</b>	± 1° C.	± 1° C.	± 1° C.
<b>CO<sub>2</sub> Alarm</b>	± 1%	± 1%	± 1%
<b>RS232</b>	No	Yes	Yes
<b>Parallel port</b>	No	Yes	Yes
<b>Alarm contact</b>	No	Yes	Yes
<b>4-20 mA Output</b>	Yes	No	No
<b>Sheves supplied</b>	3	6	6
<b>Sheves maximum</b>	16	16	16
<b>Outer dimensions cm (W x D x H)</b>	65x69x96	67x67x101	67x67x101
<b>Inner dimensions cm (W x D x H)</b>	49x50x65	52x51x72	52x51x72
<b>Weight kg</b>	90	127	127

600w -220V-50/60 Hz