

# Cooled incubators

# BCR



**Forced convection**  
**BCR60 / BCR120 / BCR240**



**Froilabo** **Firlabo**



# A new generation

Composed by a powerful refrigerating system, our cooled incubators performances are exceptional: they are used for incubation period, from 0°C up to +65°C. We guarantee a uniformity of +/-0,5°C at 37°C or 44°C. The evaporation size has increased, that involves speedy transfers at +4°C (preservation temperature). Programmable controllers allow, without option, to realize wished cycles. Cooled incubators BCR can be used in a lot of applications: food and drink industry, biotechnology, pharmaceutical, chemical, cosmetic industry, research and development, environment technics....  
Volume range : 60, 120 and 240 litres with two versions: Standard and High tech.

## BCR Standard version benefits :

- Temperature range from 0°C to +65°C.
- Uniformity < +/-0.5°C at 37°C and 44°C.
- Temperature cycle programming up to 8 temperatures.
- High and low temperature alarms. Internal glass door.

## BCR High-Tech version benefits :

- Temperature range from 0°C à +65°C.
- Uniformity < +/-0.5°C at 37°C and 44°C.
- Temperature cycle programming up to 16 temperatures.
- Data collection: RS485 and remote alarm
- High and low temperature alarms. Internal glass door.



For complex applications and alternating temperature profiles across a wide temperature range.

## Technical specifications

### Technical specifications for both standard and high tech versions

Electronic PID controller,  
temperature range from 0°C up to +65°C,  
double digital display 1/10th°C,  
low and high temperature visual alarm integrated into the controller.

Over temperature safety thermostat,  
according to the NF EN 61010 European norm with safety set point adjustable only with a tool.  
Over temperature warning light.

Access port,  
with silicon plugs for inserting external measuring devices into the chamber.

Internal door,  
security glass.

Condenser watertight recuperation system,  
no water at the bottom  
watertightness of the stainless steel interior

Condenser grille,  
can be dismantled which allow an easy and regular maintenance.

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

Forced air convection,  
turbine ventilation,  
perforated non tipping over shelves:  
better temperature uniformity when fully load.



BCR120

# Standard version : performance and accuracy

## Controls and Programmation

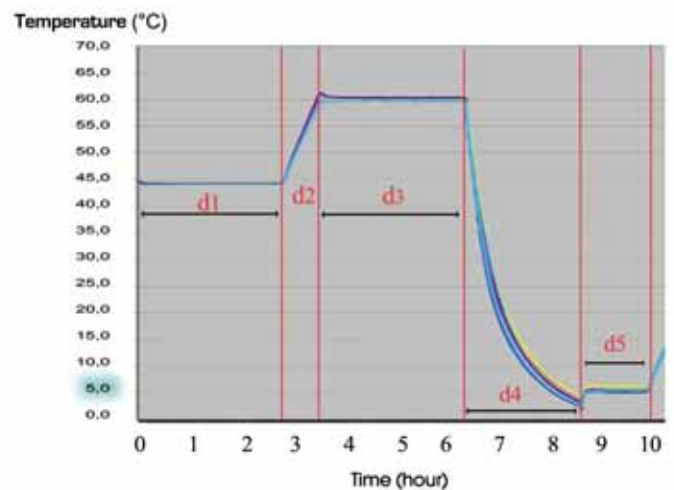
- Programmable electronic PID controller.
- Double digital display 1/10th °C.
- Integrated programming functions.
- Temperature cycle up to 8 temperatures.
- Ramp set up (°C/ hours).
- Plateau time set up (hours-min).
- Timer (99H et 59 min).

## Cooling technology

- Expanded temperature range from 0°C to 65°C.
- Effective, fast and precise.

## Safety

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



d1: incubation at 44°C  
d2: transfert to 60°C  
d3: incubation at 60°C  
d4: transfert to conservation temperature 4°C  
d5: conservation at 4°C

Programmation : incubation cycle and conservation cycle

# 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 Programmation

- Programmable electronic PID controller.
- Double digital display 1/10th °C.
- Possibility to program up to 16 temperatures.
- Ramp set up (°C/ hours).
- Plateau time set up (hours-min).
- Timer (99H et 59 min).
- Delayed start timer.

## Data management

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



Programmable electronic PID controller





# Technical data

## Standard and High Tech version



Type			BCR 60	BCR 120	BCR 240
Temperature range		°C	de 0°C to 65°C	de 0°C to 65°C	de 0°C to + 65°C
Performances					
Uniformity at	5°C	+/-°C	<0.7	<0.7	<0.7
	20°C	+/-°C	<0.5	<0.5	<0.5
	37°C	+/-°C	<0.5	<0.5	<0.5
	44°C	+/-°C	<0.5	<0.5	<0.5
	60°C	+/-°C	<1	<1	<1
Fluctuation		+/-°C	<0.2	<0.2	<0.2
Display resolution		°C	0.1	0.1	0.1
Recuperation time after door opening 60 s			2 min	2 min	3 min
<b>Dimensions - Volumes</b>					
External dimensions	L x P x H	mm	522 x 540 x 942	622 x 640 x 1052	622 x 640 x 1532
Internal dimensions	L x P x H	mm	400 x 355 x 390	500 x 455 x 500	500 x 455 x 980
Clear volume		litres	56	114	223
<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
Shelves dimensions	L x P	mm	380 x 320	480 x 435	480 x 435
<b>Weight</b>					
Net weight		Kg	71	88	114
Gross weight		Kg	85	94	132
<b>Electrical data</b>					
Nominal voltage		V / Hz	230 / 50	230 / 50	230 / 50
Nominal power		W	1650	1650	2400
Nominal intensity		A	10	10	10

## Equipments

### Options

Pt 100 ohms + din socket for recorder link  
 Circular disc recorder  
 Electronic recorder  
 Key locking door  
 Internal socket  
 Internal lighting  
 Validation certificate



8 Bd Monge - 69330 Meyzieu  
 FRANCE

Tél. +33 478 047 575 - Fax. +33 478 047 576

[www.froilabo.com](http://www.froilabo.com) - [export@froilabo.com](mailto:export@froilabo.com)

### Accessories

Additional stainless steel shelf  
 Stacking unit as standard  
 Petri dishes holder  
 Lowenstein tray  
 Castors



Your dealer

