



GPC

Global Process Concept



LAB CONCEPT™ RANGE

Two Made in France systems, innovative and flexible for your process research and development.

MINIPRO-LAB™ & PRO-LAB™

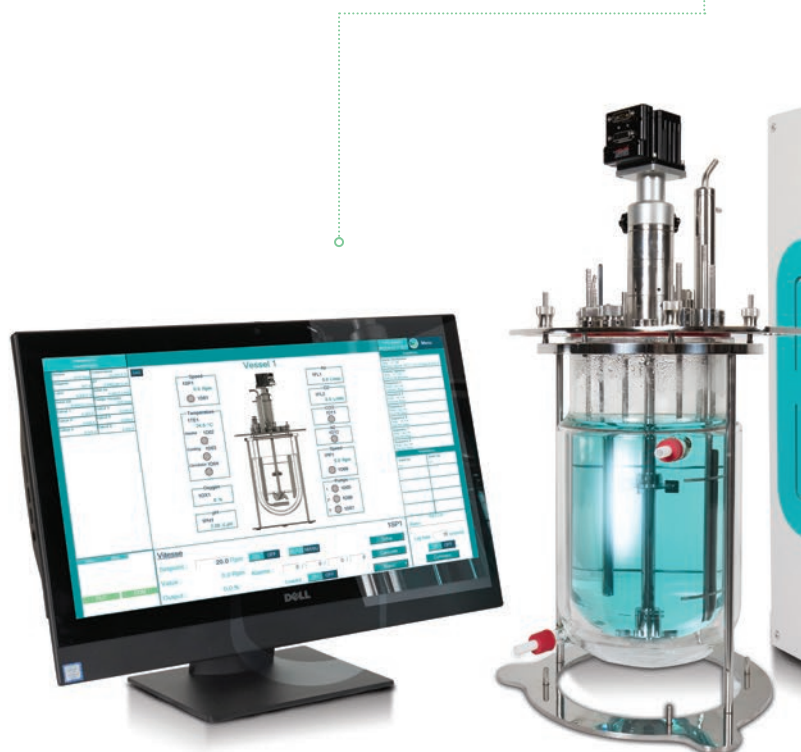
Control systems for lab-scale bioreactors designed for industrial research and development operators concerned with the final result of their culture.

*Choose between the single or dual vessel versions, called **MINIPRO-LAB™** and **PRO-LAB™** respectively. Both systems are compact and easy to maintain.*

C-BIO 2™, SMART AND POWERFUL USER INTERFACE:

Developed to comply with the highest demands of the biotechnology industries, the C-Bio 2™ operator interface is ergonomic, intuitive and offers a large number of features:

- Up to 6 bioreactors
- User management (CFR21 part.11).
- Process supervision and automation thanks to the sequences module (editing and creating recipes).
- Culture parameter's measurement and control, in particular : pH, dissolved oxygen, temperature, agitation.
- Creating sophisticated control strategies for managing aeration, additions and harvests.
- Real time or retrospective visualization of culture data in graph or table form.
- Batch saving of all data in SQL database (Export/Import data in csv format).
- Development of mathematical formulae that can be used in process control strategies.



MAINTAINABILITY

- Quick troubleshooting.
- Quick and mistake-proof connections.
- Uses components recognized among industrial standards.
- Easy access to the various components.
- Embedded preventive maintenance.
- History of sensor calibration data.
- Remote control of the equipment.
- Preventive and corrective maintenance contracts (optional).

Opt for the back-up control unit for reliability and availability!

Your culture first and foremost!

If the control PC suddenly fails, it is possible to finalize your culture from a PC of your choice. You just need a web browser to connect to a simplified control interface.

ADAPTABLE AND INTERCHANGEABLE BIOREACTORS:

- **Stirred autoclavable glass vessels**, from 200 ml to 10 liters.
- **Flat or hemispherical bases.**
- **Stainless steel or PEEK headplate and accessories.**
- **Fully configurable headplate** to accommodate a wide range of sensors and accessories.
- **Magnetic or direct-drive agitation system.**



CUSTOM-MADE CONTROL UNIT:

- **Up to 4 peristaltic pumps** per vessel.
- **Up to 6 mass flow controllers and 4 rotameters** per vessel, offering maximum flexibility for your aeration strategies.
- **Gas injected on the surface and/or in the vessel.**
- **Choice of 3 temperature control modes:**
 - double jacketed vessel
 - heating/cooling plate
 - heating blanket/cooling finger
- **Optional peripheral equipment:**
 - Precision scale
 - Gas analyzer
 - Thermostatic bath
 - ...

APPLICATIONS

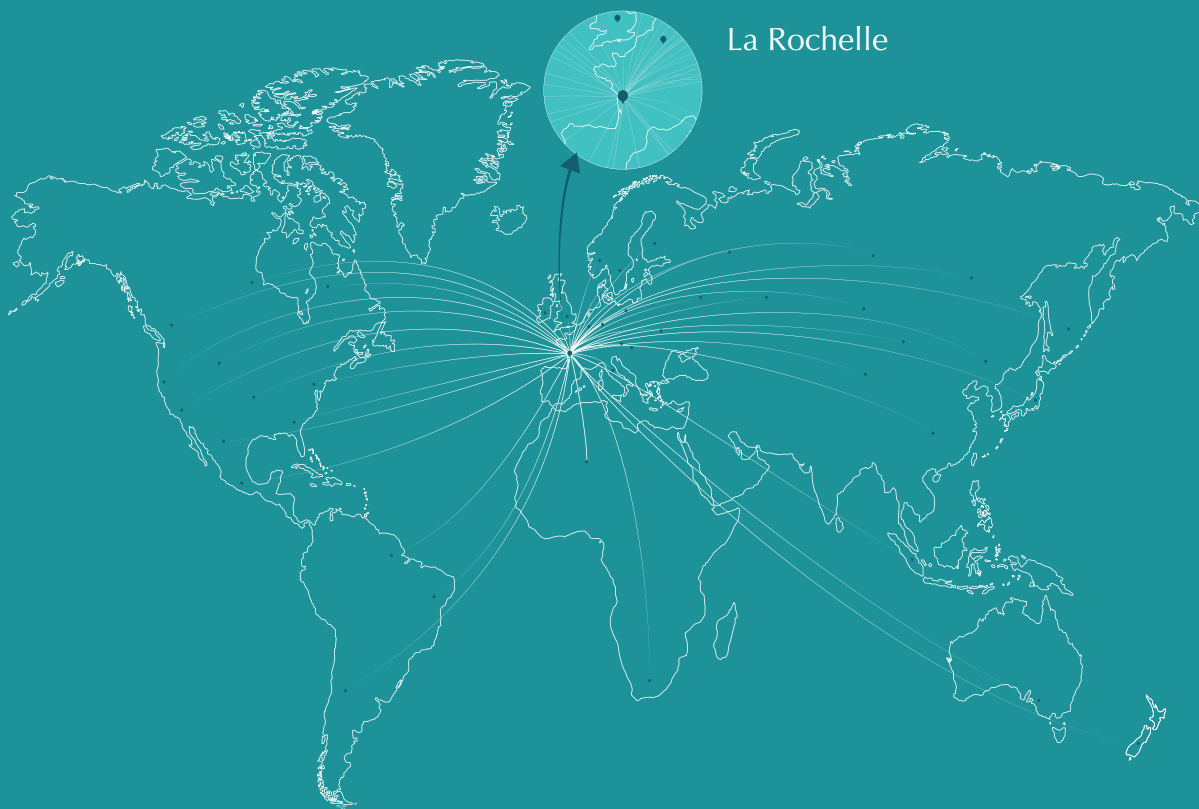
- Process Research & Development
- Scale-up studies
- Fermentation, mammal, insect and plant cell culture
- Inoculum and cell bank production

OPERATION MODES

- Batch
- Fed-batch
- Continuous
- Perfusion

INDUSTRIAL SECTORS

- Pharmaceutical
- Food-processing
- Cosmetic
- Biotechnology
- Environment



If you still have any questions after commissioning and your teams have been trained, you can contact our customer service from Monday to Friday from 9 a.m. to 5 p.m. and we will be delighted to answer your questions.

Customer Service
+33 (0)5 46 52 51 30 - Press 8

Global Process Concept - 24 rue Jacques de Vaucanson - 17180 Périgny, France
+33 (0)5 46 52 51 30 - contact@gpcb.io - www.gpcb.io