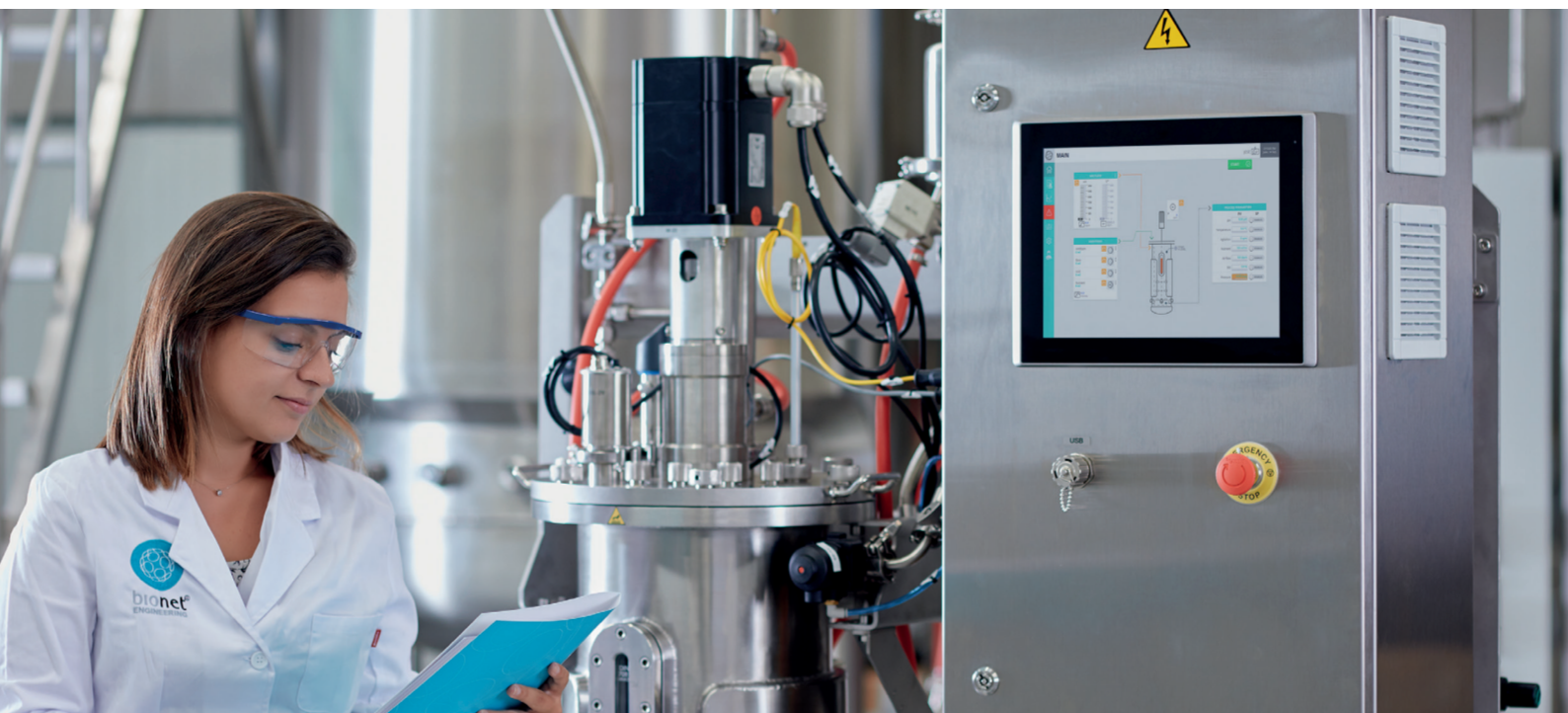
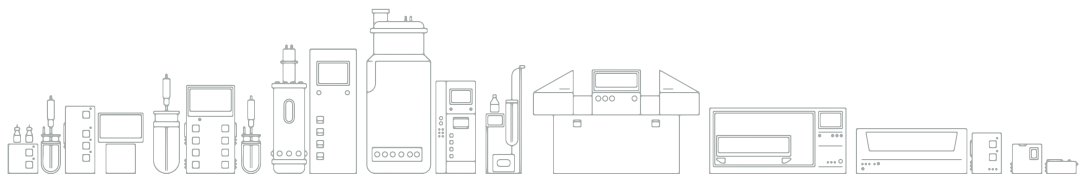


bionet®

# Bioprocess lab and pilot equipment



The enjoyable journey  
from scaling up to production



FO-BABY

F1

**F2**

F3

M1

M2

ROSITA & MARTA

# OUR **F2** IS THE PERFECT MODEL TO MAKE THE LEAP TO STAINLESS STEEL

The F2 is the first stainless steel SIP model in Bionet's bioreactor range. Its features make it ideal for process R&D, scaling, small productions and seeding activities.

It comes on a wheeled skid that makes it easy to move from one place another. In addition, this model is available in an autonomous version that allows you to sterilize the bioreactor in situ without the need for an external steam generator.



**A seamless bridge between laboratory and industry needs and a perfect tool for both environments due to its scalability, mobility and technological features.**

## **Enhanced and safe scaling and production**

A robust bioreactor made of high quality stainless steel (316 L), corrosion resistant, durable and with a completely hermetic system to avoid contamination of the culture.

## **Full versatility and adaptability to your bioprocess**

One of the main features of the F2 is its enormous **configurability**, allowing you to choose between different volumes, geometries and finishes, among other options.

## **Unrestricted from your initial decision and budget**

Our modular **Plug&Play** design paves the way for seamless **expandability**, ensuring you are prepared for future upgrades and functionalities.

## **Effortless operation and maintenance**

The F2 is an **ergonomically** designed bioreactor that integrates services on the same side for ease of operation. Its open-frame facilitates cleaning and prevents dust accumulation on surfaces.

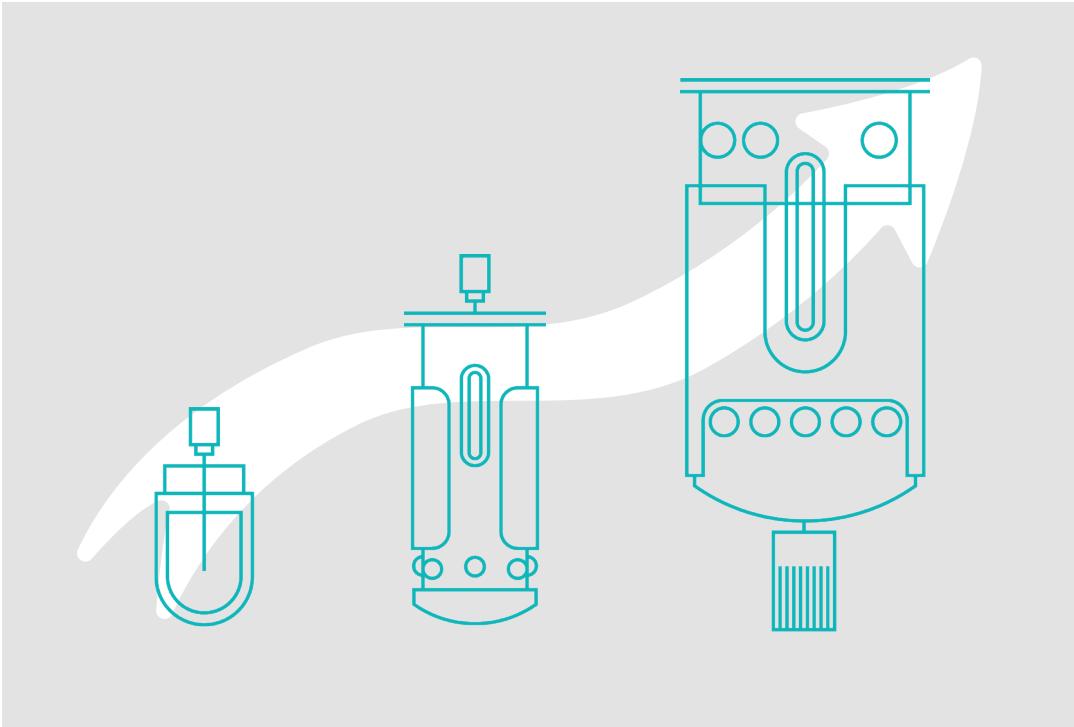
## **Operate and control your process without fear**

Powerful software, advanced instrumentation and **user-friendly** interface help you to achieve precise control of your process. Thanks to the profile function of the MARTA SW scaling to industrial production is possible.

# SCALABILITY

## One bioreactor, several possibilities:

The fact that the F2 fits in a laboratory environment, shows numerous configuration possibilities and does not require industrial utilities, while providing all the features needed in production environments and adapting to all regulatory standards, make it a great choice for R&D and process optimization, while being able to perform at its best in a complete bioproduction chain as a seeding or production unit. As a unit that can perform all these different functions, it alleviates many of the pain points that arise during process scalability, such as the need to adapt to process evolution and project requirements, the need for scale-up and scale-down studies, the need for proof-of-concept and sample productions, among many others.



# CONFIGURABILITY

## One product, thousands of configurations:

The versatility of the F2 allows the product to be configured according to the application and budget, adapting to each customer and their needs.



Over  
**50.000**  
possible configurations

### SELECT YOUR:

- Volume
- Geometry
- Roughness
- Pumps
- Addition accessories
- Gas lines
- Inlet / outlet filters
- Instrumentation
- CIP
- Automation

**Make your way easier:** Among the available versions there is an **autonomous version** which allows to sterilize the bioreactor without the need of an external steam generator.

**Sterilizable  
without  
external  
steam supply**



## EXPANDABILITY

**At you side to meet your new needs:** Our modular concept design and the availability of several spare ports will allow you to reduce your initial investment and expand the bioreactor configuration in the future as needs arise.



The **bBreath exhaust gas analyzer**, the module you need to carry out O<sub>2</sub>/CO<sub>2</sub> composition analysis of your bioreactor exhaust gas (i.e. metabolic indicators) and get the maximum of this data to enhance the quality and productivity of your process.



The **bScale** is the module you need for the connection of scales, from a range of scale precisions and brands used in lab and production settings.



The **Variable Speed Pump (bVSP)** is the module you need when expanding the number of freely assignable pumps to cover multiple additions or withdrawal / harvesting actions according to a number of feeding / bleeding profiles or advanced controls.

**On-Site expansion:** enjoy hassle-free modifications at your location. Our experts will handle the modification of actuators such as integrating new mass flow controllers in our expandable gas module, ensuring your equipment remains cutting-edge without the need for factory returns.

# PREMIUM QUALITY

Our unwavering commitment to quality is reflected in our practice of incorporating top-tier instrumentation and components from the market, ensuring that our product achieves the highest standards of performance.

**SIEMENS**

**HAMILTON**



**The F2 bioreactor and its software, MARTA,** can be designed, constructed, and qualified in strict accordance with GMP guidelines, ensuring unparalleled quality and compliance.



# AFTER-SALES SERVICE

**We acknowledge that acquiring our bioprocess equipment signifies the start of a lasting partnership, and rest assured, we'll be here to support you every step of the way!** Our core business is after-sales service, and this does not exist only in the form of maintenance and repair work but goes far beyond that. We offer product and process training to unblock gaps in processes or train your new employees.



**Our global after-sales service is a source of immense pride, delivered through our dedicated network of distributors who receive regular training at Bionet headquarters.**



# Why Bionet?

A consolidated, configurable,  
scalable and integrated  
technological environment

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A support team specialized in  
bioprocesses to help you from  
R&D to production

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A partner for your entire project  
lifecycle, from initial technology  
configuration to after-sales



**bionet**<sup>®</sup>

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**From  
Lab  
to  
Industrial**