eProd bioreactor	eProd bioreactor single use	eProd tangential flow filtration
Multi use Vessels	**Single use** Vessels	**Cassette** **Hollow Fiber** Filter configurations
445x619x512 Size in cm	**300x480x300** Size in cm	**302x284x135** Size in cm
100 to 4000 Volumes (L)	**300 · 1000** Volumes (L)	**500** Volume (L)
Stainless Steel Housing Material	**Stainless steel** Housing Material	**Stainless steel** Housing/Vessel Material
Jacketed Vessel	**Jacketed** Vessel	**Versatile holder accommodating** Range of filter options
eSCADA Advanced Software	**eSCADA Advanced** Software	**eSCADA Advanced** Software
2x Variable Speed **2x Fixed Speed** Peristaltic pumps	**4x Variable Speed** Peristaltic Pumps	**2x Peristaltic Pumps** Diafiltration / Permeate Control
Top Mounted Motor	**Bottom Mounted** Moter	**x1 Recirculation (Twin Screw)** **x1 For CIP (Centrifugal)** Double Pumping System

Global reach, local support

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25_1_1_TECNIC-CATALOG-EPROD_EN

TECNIC Smart Biotech Solutions

eProd Production Scale Solutions

Optimizing bioprocessing outcomes with innovative engineering and precise regulation for large scale productions.

STR eProd BR

Microbial / Cellular · 100 to 4000 L

Our production stainless steel bioreactors ensures efficient microbial and cell culture production, featuring advanced eSCADA control for precise monitoring and optimal growth conditions.

STR Single Use eProd STR SU

Dual Purpose · 300 to 1000 L

Engineered for microbial and cell cultures, ensures precise temperature regulation, efficient mixing, and advanced instrumentation, delivering optimal performance and highly controlled sterile processes using our single use eBAG.

TFF eProd TFF

Hollow Fiber / Cassette · Up to 65 m^2 of surface area

Efficient industrial filtration with advanced control systems, customizable filter configurations, and full compliance with GMP guidelines, ensuring optimal performance and reliability. Enables precise and automated diafiltration and concentration for optimized purification processes.

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Optimized Production

TECNIC's production equipment integrates seamlessly with our ePlus systems, creating a streamlined ecosystem for efficient bioprocessing.

ePlus buffer

System for efficient buffer preparation and storage, designed to reduce bioprocess run times and maintain temperature stability.

eProd bioreactor

High-performance stainless steel bioreactor for large-scale microbial fermentation and cell culture with advanced control systems.

ePlus CIP

Clean-in-place system ensuring hygiene, compliance, and minimal downtime.

ePlus media preparation

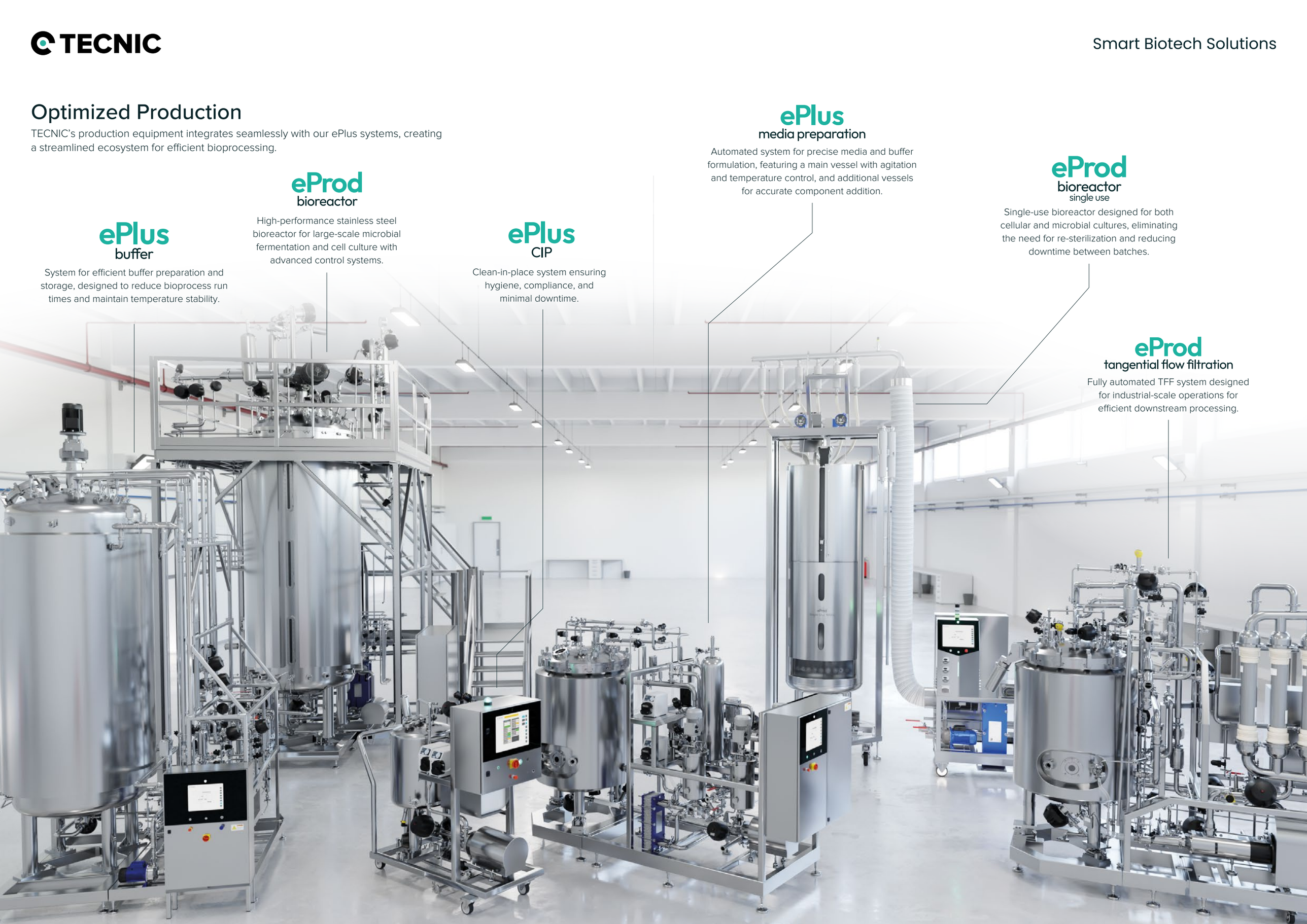
Automated system for precise media and buffer formulation, featuring a main vessel with agitation and temperature control, and additional vessels for accurate component addition.

eProd bioreactor single use

Single-use bioreactor designed for both cellular and microbial cultures, eliminating the need for re-sterilization and reducing downtime between batches.

eProd tangential flow filtration

Fully automated TFF system designed for industrial-scale operations for efficient downstream processing.



ePilot bioreactor	ePilot bioreactor single use	ePilot tangential flow filtration
Multi use Vessels	**Single use** Vessels	**Cassette: 0.5-5** **Hollow Fiber: 0.1-6.5** Filter area (m^2)
1200x2020x910 Size in mm	**600x1687x595** Size in mm	**1546x1412x524** Size in mm
10 · 20 · 30 · 50 Volumes (L)	**30 · 50** Volumes (L)	**50 - 200** Volumes (L)
Stainless steel Housing Material	**Stainless steel** Housing Material	**Versatile Holder Accommodating** Range of filter options
eSCADA Advanced Software	**eSCADA Advanced** Software	**1x Variable Speed** **1x Fixed Speed** Peristaltic Pump
4x Variable Speed Peristaltic Pumps	**4x Integrated Variable Pumps** **3x External Variable Pumps** Peristaltic Pumps	**230VAC | 50Hz | 9A** Power Supply
Servomotor 400-750 Motor (W)	**TECNIC eBAG 3D STR** Compatibility	**20 LPM** Recirculation Pump

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25_1_1_TECNIC-CATALOG-EPILOT_EN

TECNIC Smart Biotech Solutions

ePilot Pilot Scale Solutions

Optimizing bioprocessing outcomes with innovative engineering and precise regulation for pilot plants.

STR ePilot BR

Microbial / Cellular · 10 L up to 50 L

High-performance automatic bioreactor with cellular and microbial configurations, an excellent choice for pilot scale development and production.

STR Single Use ePilot STR SU

Dual Purpose · 30 L and 50 L

A scalable, dual-purpose bioreactor featuring precise temperature control, efficient agitation and wide instrumentation, designed for TECNIC's single use eBAG.

TFF ePilot TFF

Hollow Fiber / Cassette · Up to 6.5 m^2 of surface area

Automatic pilot Tangential Flow Filtration system with high efficiency and versatility for bioprocessing, featuring options for concentration, diafiltration, and membrane surface adjustments.

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Adaptable and interconnected

Build a pilot plant that grows with your needs. ePilot and ePlus equipment work hand-in-hand to offer scalability, efficiency, and flexibility. Transition from simple processes to advanced setups without compromising process control or quality.

ePilot bioreactor

Scalable pilot bioreactor for process development with precise control over key parameters.

ePilot bioreactor single use

Bioreactor with single-use bags for flexible, contamination-free workflows.

ePilot tangential flow filtration

A tangential flow filtration system for pilot-scale operations, perfect for concentration and diafiltration processes. Designed for ease of use and high-performance membrane filtration.

ePlus CIP

Clean-in-place system ensuring hygiene, compliance, and minimal downtime.

ePlus Mixer SU

Mixer for precise, uniform blending of media and buffers in bioprocessing.

elab essential	elab advanced	elab tangential flow filtration	elab tangential flow filtration single use
Multi use/Single use Vessels	**Multi use/Single use** Vessels	**Cassette: 0.1-0.5 Hollow Fiber: 0.1-0.5** Filter area (m^2)	**Cassette: 0.1-0.5 Hollow Fiber: 0.1-0.5** Filter area (m^2)
198x335x200 Size in mm	**460x817x550** Size in mm	**780x909x532** Size in mm	**780x909x532** Size in mm
5 Weight (kg)	**60** Weight (kg)	**5 to 10** Working Volume (L)	**2 to 20** Working Volume (L)
0,5 · 1 · 2 · 5 Volumes (L)	**1 · 2 · 5 · 10** Volumes (L)	**Semi-Automated** System	**Fully automatic** System
Aluminium Housing material	**Up to 12** Vessel Scalability	**Stainless steel** Housing material	**Stainless steel** Housing material
Simple can be Incredible eOS Software	**eSCADA Advanced eSCADA R&D** Software	**eSCADA Advanced eSCADA R&D** Software	**eSCADA Advanced** Software
4x fixed speed Peristaltic pumps	**8x variable speed** Peristaltic pumps	**Variable: 100 Fixed: 90** Pumps speed (rpm)	**Variable: 100 Fixed: 90** Pumps speed (rpm)
Brushless 250 Motor (W)	**Servomotor 400** Motor (W)	**13** Max. Pump Capacity (lpm)	**13** Max. Pump Capacity (lpm)
Borosilicate glass PP & PA12 Vessel material	**Borosilicate glass Stainless steel** Vessel material	**Microfiltration / Ultrafiltration** Filtration	**Microfiltration / Ultrafiltration** Filtration

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25_1_1_TECNIC-CATALOG-ELAB_EN

TECNIC Smart Biotech Solutions

elab Laboratory Solutions

TECNIC's suite of laboratory equipment provides reliable, efficient, and high-quality solutions for laboratories worldwide.

STR eLAB Advanced Up to 10 L

An advanced bioreactor for the growth of cells and microbial cultures that is scalable and designed with the most advanced elements.

eLAB Multi Module Up to 12 additional vessels

Expand you operation of eLAB Advanced with multiple vessels controlled by a single control unit, through the configuration of extra modules; one for every two extra vessels.

TFF eLAB TFF Up to 0.5 m^2 of surface area

High-performance automatic tangential flow filtration laboratory system for superior results, an excellent choice for research, development and small production purification.

TFF Single Use eLAB TFF SU Up to 0.5 m^2 of surface area

Fully automatic Single Use TFF system designed for handling the most critical purification needs to deliver outstanding results in research, development, and small-scale processes.

elab essential

Lightweight, small, essential for your laboratory

Maximize your laboratory efficiency with the eLAB essential bioreactor, a compact solution designed for high-performance.

- Advanced software
- Compact and efficient design
- Precision monitoring
- Integrated peristaltic pumps

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TECNIC

Smart Biotech Solutions

Laboratory bioprocess equipment

We respond to the needs of quality, usability and compliance in R&D

elab essential

A versatile bioreactor designed for researchers, it is ideal for small-scale processes, offering user-friendly operation and precise control to support early-stage development and training in biotechnology.

elab advanced

An enhanced bioreactor for advanced research, it features scalable design, precise monitoring, and integration capabilities for more complex workflows and high-performance experimentation.

eLAB Advanced MULTI Module

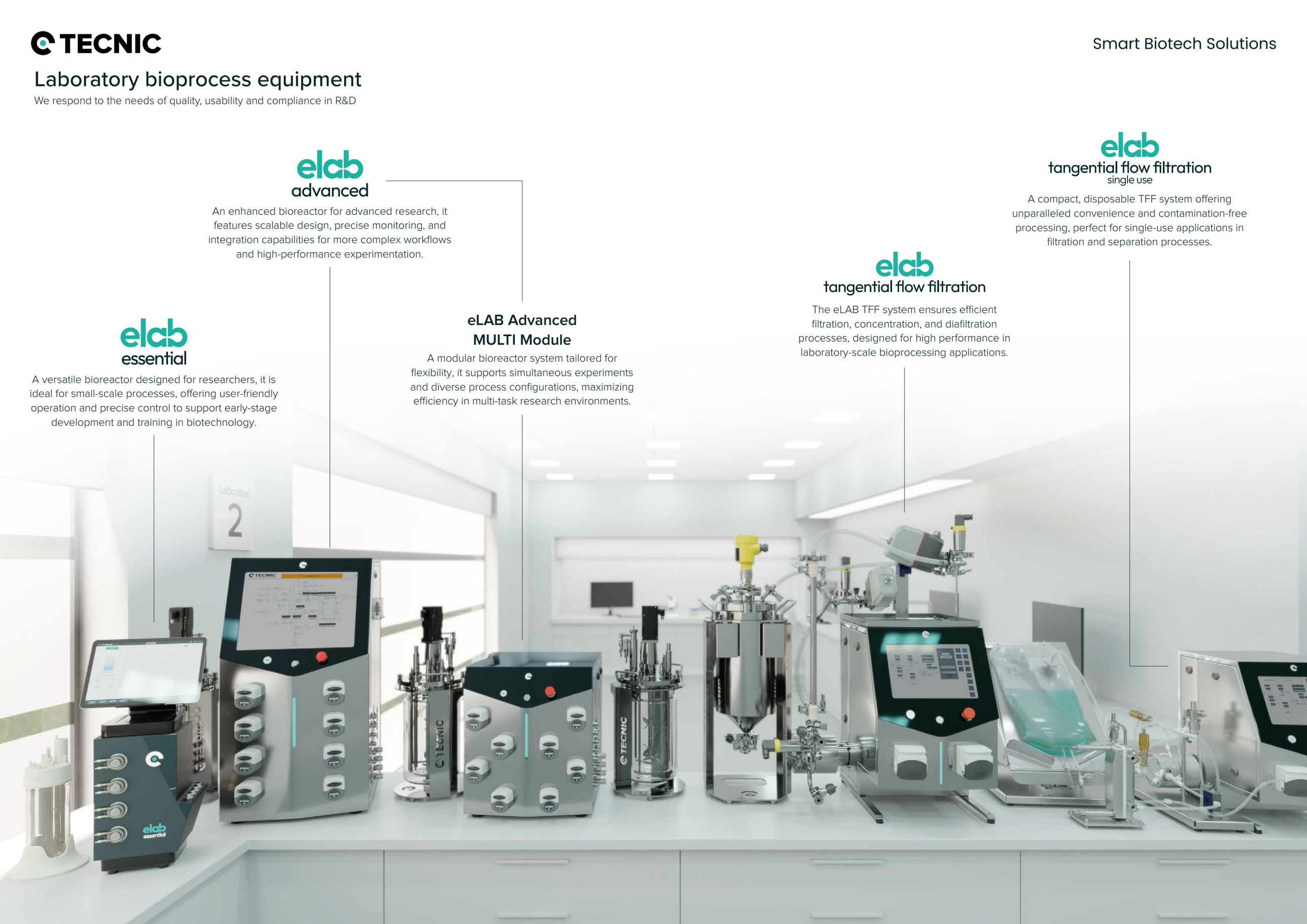
A modular bioreactor system tailored for flexibility, it supports simultaneous experiments and diverse process configurations, maximizing efficiency in multi-task research environments.

elab tangential flow filtration

The eLAB TFF system ensures efficient filtration, concentration, and diafiltration processes, designed for high performance in laboratory-scale bioprocessing applications.

elab tangential flow filtration single use

A compact, disposable TFF system offering unparalleled convenience and contamination-free processing, perfect for single-use applications in filtration and separation processes.



High standards in bioprocessing

The eBAG represents not just an innovation in cell culture film technology, but also sets new benchmarks in quality and regulatory compliance. Each eBAG is manufactured under stringent **Good Manufacturing Practices (GMP)**, ensuring that every product meets the highest standards of quality and safety. We employ advanced radiation sterilization methods, effectively eliminating biological contaminants without compromising the product's integrity.

The production of eBAG takes place in inhouse **ISO 7 classified facilities**. These cleanrooms are designed to control contamination and maintain an aseptic environment, essential for the manufacturing of biotechnological products. Adhering to ISO 7 standards ensures that each eBAG is produced in a controlled environment, minimizing the risk of cross-contamination and ensuring product consistency.

Together, these quality measures and regulatory compliance reflect our commitment to excellence in manufacturing eBAG, providing our clients with reliable and safe products for their critical bioprocessing applications.

Test	Requirements	Results
USP <788> Particulate Matter in Injections	Pass	Pass
USP <88> Systemic Toxicity	Pass	Pass
USP <88> Intracutaneous	Pass	Pass
USP <88> Implantation	Pass	Pass
USP <87> Cytotoxicity, Agar Diffusion	Pass	Pass
USP <87> Cytotoxicity, Elution	Pass	Pass
USP <85> Kinetic-Chromogenic LAL	0,25 EU/ml	0,006 EU/ml
USP <661.1> Physicochemical-Non Volatile	15 mg	1 mg
USP <661.1> Physicochemical-Residue on Ignition	5 mg	1 mg
USP <661.1>Physicochemical-Heavy Metals	1 ppm	1 ppm
USP <661.1>Physicochemical-Buffering Capacity	10 ml	1 ml
ISO 10993-4 In-Vitro Hemolysis Study	Non-haemolytic	Non-haemolytic
Irradiation Dosage	25-50 kGy	25-50 kGy
EP <3.2.2.1> Plastic Containers for Aqueous Solutions for Parenteral Infusion	Pass	Pass

Enhanced Film Technology

Every one of our Single-Use products distinguishes itself by its unique five-layer structure, with each layer serving a specific function to optimize the integrity, durability, longevity and the sterility of the equipment.

Layer 1 - LPDE (50µm)
Layer 2 - TIE (10µm)
Layer 3 - EVOH (20µm)
Layer 4 - TIE (10µm)
Layer 5 - ULPDE (230µm)

Global reach, local support

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25_1_1_TECNIC-CATALOG-EBAG_EN

TECNIC Smart Biotech Solutions

eBag Fluid Management Solutions

Our single-use bags have been designed with storage and mixing in mind and are fully compatible with TECNIC equipment. Featuring a five-layer structure, they are made from ULDPE for fluid contact, manufactured in an ISO 7 cleanroom, and can be configured with multiple ports. They are also fully biocompatible, making them ideal for use in sensitive applications.

eBAG 2D Storage
2L to 50L

eBAG 2D TFF
2L to 50L

eBAG 3D Open
Up to 500 L

eBAG 3D Mixer
Up to 500 L

eBAG 3D Storage
Up to 500 L

eBAG 3D STR
Up to 1000 L

In-house ISO 7 Cleanroom

The manufacturing process for our single-use bioprocessing products, such as the eBAG 2D, 3D and single-use vessel, strictly complies with the rigorous standards of an ISO 7 cleanroom.

This specific classification guarantees a highly controlled environment, characterized by a maximum particle count of 10,000 (≥ 0.5 µm) per cubic meter of air. This level of control is critical for ensuring the sterility and quality of our products, as it significantly reduces the risk of microbial and particulate contamination.

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Optimized Production

Our range of 2D bags for straightforward storage and filtration tasks, 3D bags for complex mixing and storage.

eBag 3D Open

Designed for effortless and efficient mixing. A large open port in the upper part provides options for media preparation or storage systems in various atmospheric conditions.

eBag 3D Mixer

Optimizes fluid dynamics for efficient mixing, safe storage and easy transportation of liquids. Compatible with TECNIC ePLUS Mixer.

eBag 3D Storage

Optimizes storing and transporting liquids. Every bag is built with high-quality materials and undergoes gamma irradiation.

eBag 2D TFF

Engineered to integrate flawlessly with TECNIC's TFF systems, ensuring impeccable connections throughout the filtration process.

eBag 2D Storage

Enhance your bioprocessing efforts with redefined functionality, style, durability and convenience.

eBag 3D STR

Seamlessly integrates with our dual-purpose Single-Use bioreactor. With customizable features catering to specific size configurations and fittings.

ePlus buffer	**50-4000 L** Capacity	**Stainless Steel** Material	**Jacketed Version** Optional	**Temperature Regulation** Automation
ePlus Mixer SU	**50/100 200/500 L** Capacity	**eBAG Open, Tank and Storage** Compatibility	**Magnetic Stirrer** Agitation	**Versatile Wheels** Mobility
ePlus DTS	**Double-Tube-Sheet (DTS) shell and tube Heat Exchanger** Type	**Optimizes Thermal Exchange Between Multiple Fluid Streams** Application	**AISI 316L stainless steel with electropolished mirror finish** Material	
ePlus CIP	**4000 L** Max. Cleaning Volume	**4 Outlets** Expandable Manifold	**Fully Automated & Recipes** Automation	**Heating System / Detergent Storage Bottle** Optional Features
ePlus media preparation	**500 L** Main Tank Capacity	**Different Buffer Solutions** x4 Additional Vessels	**Magnetic Stirrer** Agitation	**eSCADA Software Integration** Automation

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25_1_1_TECNIC-CATALOG-EPLUS_EN

TECNIC Smart Biotech Solutions

ePlus Additional Solutions

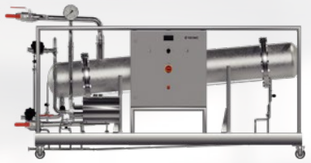
Maximise the scope of your bioprocesses with TECNIC's ePlus solutions, tailored to suit every requirement.

ePlus CIP
Automated Cleaning In Place System
100 / 200 L

A fully automatic, easy to use cleaning-in-place system. Efficiently cleans equipment with volumes up to 4000L, ensuring high standards of hygiene.

ePlus Buffer
Buffer Tank · Up to 4000 L

Ensure precise buffer management, streamline workflows and improve consistency with monitoring of process parameters.

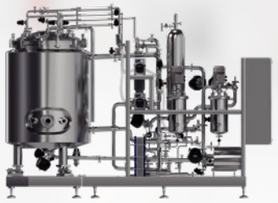


ePlus DTS
Heat Exchanger

Efficiently transfer heat, reduce energy consumption, and optimize temperature control for reliable performance in demanding bioprocessing applications.

Single Use ePlus Mixer Single Use
Tanks from 50 L up to 500 L

System designed for precise control over critical process parameters, including pH, conductivity, temperature, weight, and agitation speed. Tanks are compatible with our eBAG 3D, ensuring reliable performance, sterility, and flexibility for various bioprocessing applications.



ePlus Media Preparation
Automated Media Prepation Station

The fully automated ePLUS Media Preparation system ensures precise mixing and sterilization of culture media. It is ideal for buffer and media formulation, offering time-saving benefits, precise dosage control, and traceability to ensure media quality.

eBAG 3D Open

eBAG 3D Mixer

eBAG 3D Storage

Our eBAG line is designed to seamlessly integrate with the ePlus Mixer, offering a reliable solution for bioprocessing needs. Manufactured in our ISO7 cleanroom facilities, our single-use consumables meet the industry's highest standards for sterility and performance. With options tailored to various applications, eBAG ensures consistent and dependable results, making it an ideal choice for efficient mixing and bioproduction workflows.

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Bridging practicality in bioprocessing

TECNIC ePLUS equipment is meticulously designed to address the unique challenges of the bioprocess ecosystem, providing the perfect complement to TECNIC bioreactors and TFF systems.

ePlus buffer

System for efficient buffer preparation and storage, reducing bioprocess run times and maintaining temperature stability.

ePlus Mixer SU

A pivotal component in the range, offering streamlined operations and compatibility with single-use systems

ePlus DTS

A specialized heat exchanger for various industries, optimizing thermal exchange between multiple fluid streams.

ePlus CIP

A highly automated, mobile solution capable of efficiently cleaning equipment with capacities of up to 4000 litres.

ePlus media preparation

Automated system for precise media and buffer formulation, featuring a main vessel with agitation and temperature control, and additional vessels for accurate component addition.