

eProd[®]

tangential flow filtration

Up to 65m²



TECNIC

Maximize Bioprocess Efficiency: ePROD® TFF for Advanced Filtration

The ePROD® TFF system from TECNIC is a fully automated Tangential Flow Filtration (TFF) solution, designed to enhance efficiency in biotech manufacturing through advanced filtration. This system is pivotal for streamlining downstream processes, ensuring maximum productivity and quality in bioprocessing applications. Its key features include a **user-friendly interface, fully automatic operation for reduced manual intervention, and exceptional sterilization and cleaning capabilities**, thanks to its dual industrial pumps and in-situ cleaning functionalities.

Crafted with precision, the ePROD® TFF system integrates seamlessly into a variety of bioprocessing tasks, **from microfiltration to ultrafiltration**, with its versatile configurations including cassette, ceramic, and hollow fiber solutions. The system's robust construction from high-quality 316L stainless steel ensures durability and compliance with Good Manufacturing Practice (GMP) guidelines, making it a reliable choice for bioprocessing environments.

For production facilities aiming for scalability and customization, the ePROD® TFF system, along with TECNIC's comprehensive range of bioprocess solutions, provides a **seamless transition from lab-scale experiments to full-scale production**. These solutions are designed for adaptability to meet the unique requirements of each biotechnology project, ensuring precision, reliability, and growth at every operational phase.

TECNIC's ePROD® TFF system represents a significant advancement in bioprocessing technology, offering scalability, efficiency, and precision for biotech production

Streamline Your Biotech Production with TECNIC ePROD® TFF

- Fully automated and user-friendly interface for efficient process management.
- Advanced sterilization and cleaning with two industrial pumps for optimal performance.
- Filtration surface area ranges from 7 to 65 m²
- Robust stainless steel construction for long-term reliability and GMP compliance.

Key Functionalities

Basic Configuration

TMP configuration	Included
Concentration mode	Included
Diafiltration mode	Included
Water flux test mode	Included
Filling mode	Included
CIP mode	Included
Level control	Included
eSCADA R&ID / Advanced	Included

TFF system

Overall dimensions (including vessel) (WxHxD) (mm)	1546,5x1412x524
Control unit weight approx. (Kg)	~35
Power supply	1x phase, 1x neutral, 1x ground 230V AC 50Hz 9A
Non-product contact material	Stainless steel AISI 304
Product contact material	Stainless steel AISI 316L
Controller type	Industrial PLC
Operation / HMI Interface	Intouch screen 10" / eSCADA
Electrical interfaces	1x ethernet 1x WLAN 2x USB
Advanced software	Compatible with Qubicon and Lucullus

TFF Vessel Features

Vessel volume (L)	500
Vessel type	Conical for minimum working volume
Jacketed	Double wall vessel for temperature management
External vessel dimensions (WxHxD) (mm) (Inc. sensors)	Ø978x1710
Vessel weight (Kg)	520
Top connections	1x 1-1/2" TC retentate deep tube 1x 1-1/2" TC permeate deep tube 3x 3/4" TC for CIP ball 1x 1-1/2" TC connection for venting / venting filter 1x 1/2" TC connection for steam entrance 1x 1" TC connection for pressure indicator 2x 3/4" TC connection for addition solution (deep tube) 1x 1" TC connection for manometer 1x 1/2" TC connection for addition solution
Bottom connections	1x 1" TC liquid outlet 1x thermowell 1x coupling for magnetic stirrer 1x sampling valve
Electrical interfaces	1x ethernet 1x WLAN 2x USB



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