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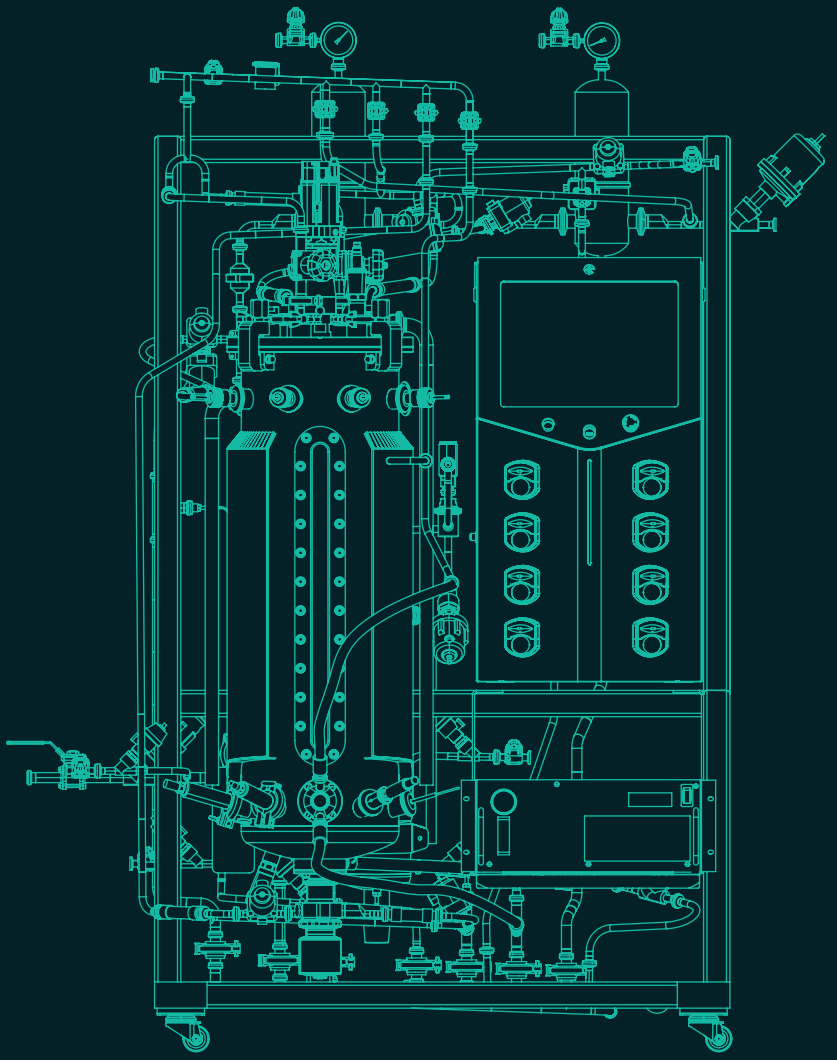
ePILOT Bioreactor

Advanced Features for Precise Control and Reliable Results



ePILOT
Bioreactor

The ePILOT Bioreactor is a highly advanced piece of equipment designed for microbial fermentation and cell culture applications. Is available in working volumes of 10, 20, 30, and 50 liters. The bioreactor is equipped with digital sensors for pH, pO_2, temperature, and foam/level, ensuring precise control over the entire process.

The Control Unit, manufactured by TECNIC, features a 15” surface touch screen, gas supply systems, and peristaltic pumps. It is a comprehensive control system that enables users to monitor and manage the entire process with ease. The control unit tower also has integrated TECNIC's software, eSCADA, which is based on a Supervisory Control And Data Acquisition (SCADA) architecture. This software allows users to manage everything from basic process control parameters to advanced recipes and report management.

In addition, the ePILOT Bioreactor comes with a range of advanced features, including a cascade control system for precise temperature regulation, mass flow controllers for accurate gas control, and advanced agitation systems for optimal mixing of the culture. It also features an integrated sterilization system that ensures complete sterilization of the vessel and all other equipment.

Overall, the ePILOT Bioreactor is a highly advanced and reliable tool for microbial fermentation and cell culture applications.

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Some Applications

The ePILOT Bioreactor is a versatile tool in biotechnology, used for producing recombinant proteins, vaccines, monoclonal antibodies, and viral vectors for gene therapy. Its capacity to cultivate cells and produce complex biologics has contributed to breakthroughs in regenerative medicine.

Vaccines

The ePILOT Bioreactor is used to cultivate cells for the production of vaccines, including viral vectors and DNA vaccines.

Recombinant Proteins

The ePILOT Bioreactor is a valuable tool for the production of recombinant proteins.

Monoclonal Antibodies

Monoclonal antibodies are lab-made molecules. The ePILOT Bioreactor Multi is a key tool for their production.

Steam Cells

The ePILOT Bioreactor is used to expand and differentiate stem cells, making it valuable for research in regenerative medicine.

Gene Therapy

The ePILOT Bioreactor produces viral vectors used for delivering therapeutic genes in gene therapy research.

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For More Information:
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Datasheet

Volumes	For 10L to 50L
Dimensions	L: 1095 mm, W: 800 mm, and H: 2000 mm.
Material vessels	Stainless steel AISI 316L
Max Rotation	Microbial: 800 RPM | Cell culture: 250 RPM
Variable Speed	4x Persitaltic Pumps with variable speed
Impellers	Rushton, Pitched Blade, Marine Blade
Temperature control	Pt 100: 10 - 60 ºC
pH Sensor	Glass pre-pressurized reference system: 2-12 pH
Dissolved Oxygen	Optical sensor: 0 - 100%
Level/Antifoam Sensor	Very High | High | Low | Very Low
Auto CIP /SIP	Full Automatic

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