

ABEC Bioreactor System



Custom-engineered bioprocessing platform

Rating: Not Rated Yet

Price

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Description

The ABEC Bioreactor System is a custom-engineered, cGMP-compliant bioprocessing platform from ABEC, a leader in stainless steel, single-use, and hybrid solutions for biopharmaceutical manufacturing. This type of turnkey system is designed for upstream cell culture or microbial fermentation at pilot-to-commercial scale, featuring integrated vessels, piping, agitation, aeration, and advanced automation for precise process control in vaccine, monoclonal antibody, or biologics production. This large-scale stainless steel setup is ideal for high-titer, long-running, or multi-product facilities where durability and performance consistency are paramount.

Inquire for more details; looking for offers. Originally purchased in 2022 for \$14 million. Located in the San Francisco Bay Area.

Key Features

High-Capacity Custom Vessels: Stainless steel bioreactors/fermenters ranging from pilot scale (hundreds of liters) to 30,000 L+ working volumes, optimized with proven geometry, baffles, and high-power impellers for excellent mixing, oxygen transfer (high OTR), and scalability.

Fermentors: ABEC Bioreactor System

Integrated Automation & Controls: Modern touchscreen control panels (visible in the photo) with PLC/DCS systems for real-time monitoring and control of critical process parameters (temperature, pH, DO, agitation, gas flow, pressure, etc.), data logging, and recipe management.

Full Process Integration: Includes multiple vessels (reactors, media prep/hold tanks), extensive sanitary piping, valves, sensors, and support systems like CIP (Clean-In-Place) skids — enabling seamless upstream-to-downstream workflows in a compact footprint.

Robust cGMP Design & Compliance: 316L stainless steel construction, electropolished surfaces, validated for sterility, with features for long-term reliability, easy maintenance, and regulatory compliance (FDA, EMA, etc.). Built for decades of continuous production.

Turnkey Engineering & Scalability: Fully customized and factory-tested for the customer's specific process, with ABEC's expertise in seamless scale-up, hybrid integration (if needed), and ongoing support — minimizing validation time and ensuring batch-to-batch reproducibility.

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