

Bioreactors - Applitech Biotech

Applitech Biotech (China) – Model AbioBundle m-Control

- Compact & space-saving design
- Wide working volume range : **from 50 ml up to 2.4 lit**
- Parallel cultivation / multi-reactor capability multiple m-Control units (up to 32) can be networked for parallel operation
- Efficient temperature control for small volumes (250 ml / 500 ml), a Peltier-based temperature control system, eliminates the need for an external chiller
- Advanced control algorithms utilizes Applitech's AiOpt algorithm for refined and precise regulation of process parameters
- Flexible gas control supports : **5 Mass Flow Controllers (MFCs)**, enabling advanced gas mixing strategies for aerobic or anaerobic cultures
- Integrated data management comes with AbioPIMS Lite or AbioExpert Lite software for process data collection, recipe management, traceability, and integration with external devices (cell counters, analyzers, etc.)



Applitech Biotech (China) – Model AbioBundle eDual-Control

- Dual-Control flexibility The "eDual-Control" allows two independent bioreactor vessels to be controlled from a single control unit
- Broad volume range vessels : **from 0.3 lit up to 16 lit**
- Intuitive Touchscreen Interface Equipped with a 13.3" color touchscreen
- Comprehensive Gas Control : Supports up to 6 Mass Flow Controllers (MFCs) per vessel for flexible gas delivery.
- Each vessel supports up to 4 variable-speed pumps
- **Secure multi-user access & Data Integrity** : Up to 23 operator accounts with 3 level password protection helps ensure process security and traceability.
- Built-in data storage ensures no data loss, even if external systems fail.
- WebUI : allows control and monitoring through a standard web browser.
- Comes standard with AbioPIMS Lite or AbioExpert Lite software for process data capture, recipe management, and traceability.



Applitech Biotech (China) – Model AbioSUS «Single Use Vessel»

- Wide range of working volumes : **50 L, 200 L, 500 L, 1,000 L, and 2,000 L**, making it suitable for R&D, process development, and GMP production.
- High-Precision Temperature Control with a double-jacketed vessel frame, offering a control range of 8 °C to 40 °C with ± 0.1 °C stability.
- Efficient Mixing Performance Equipped with a servo motor and dual-blade marine impeller to ensure uniform mixing and excellent mass transfer
- Integrated In-Line Weight Measurement A high-accuracy C6 load cell continuously tracks the culture weight
- **Robust User Management & Data Integrity**
- Regulatory Compliance & High-Quality Materials The **single-use AbioBag** is manufactured from a 7-layer co-extruded film, sterile, pyrogen-free, animal-origin-free, and certified to USP Class VI / ISO 10993

