



# ***BENCHTOP BIOREACTOR***

## ***BIO-X***

Biological Control, Bioinoculants and Biofertilizers; Cultivation of bacteria, fungi, yeasts, microalgae and plant cells; Biopolymers, Biosurfactants, Enzymes, Hydrolysis, Biofuels and other bioprocesses.

## Technical Characteristics

### BIO-X

- BIO-X control module: - 10-inch touch screen - USB port for data export - Ethernet port for remote access - Additional analog and digital ports (input and output) - Includes BIO-X control software and connections for: - Digital pressure sensor and relief valve - Level/foam sensor - Temperature sensor (Pt-100) - Digital pH sensor - Optical dissolved oxygen sensor - Gas mixer - O<sub>2</sub>/CO<sub>2</sub> gas sensor - Up to 5 peristaltic pumps - Stirring motor - Mass flow controller;
- Environmental conditions: - Operating temperature: 5°C to 30°C - Relative humidity: 20% to 90% (non-condensing) - Atmospheric pressure: 86 kPa to 106 kPa - Maximum altitude: 2000 meters (6562 feet) above sea level;
- General Features: - Main switch with indicator light - Type B power cord (American standard) with IEC standard three-pole adapter - 1800W / 210 - 230V – 50/60Hz - 410 x 510 x 755 mm (W x D x H) - 30Kg;

### Benefits and Advantages

- Easy-to-use, versatile, and productive. Allows elaboration of protocols, aseptic sampling and work with different types of cultures in batch, semi-continuous and continuous mode with vessel volumes from 1.0L to 15L. It ensures automation of up to 18 process variables, including cascade functions, different feeding schedules, recipe development, reports generation, remote access and software for up to 20 users, with different levels of access.