









BENCHTOP BIOREACTOR

TEC-BIO-FLEX-II

Fermentations and Bioprocesses; Cultivation of animal cells and OM (bacteria, fungi and yeasts); Enzymatic and Acid Hydrolysis; 2G Biomass, Biofuels and Ethanol; Production of Enzymes, Vaccines and Drugs; Biological Control, Bioinoculants and Biofertilizers; Bioremediation and Waste Treatment; Studies in Mining and Bioleaching of Ores; Production of oils, creams and cosmetics; Chemical reactions.





Technical Characteristics

TEC-BIO-FLEX-II

- ON/OFF button: With luminous indication on the "power" symbol;
- Energy cable: Conforms to NBR14136 with IEC standard three-pole adapter;
- Max environmental conditions: 0 to 50°C at 80%
 RH, non-condensing;
- Dimensions: W=330 x D=450 x H=710mm;
- Weight: 25 kg;

- Power/Voltage: 2000W / 220V single phase;
- Software: Shake/rotation control loop Foam level control loop through peristaltic pump Temperature control loop through blanket and coil or thermostated bath pH control loop through peristaltic pumps Dissolved oxygen control loop with cascade (agitation control) Photoperiod control mesh (Leds) with PAR radiation sensor Monitoring of oxygen and carbon dioxide gas Torque monitoring;
- Torre TEC-BIO-FLEX-II: Control module for TECNAL bioreactors - 7 inch touch screen - USB port for data storage - Ethernet port for remote access - Cable for level/foam sensor - Has connections/inputs for: - Temperature sensor (Pt-100) - Digital pH sensor - Digital dissolved oxygen sensor (polarographic or optical) - O2/CO2 gas sensor - Photoperiod System - Up to 4 peristaltic pumps - stirring engine - rotameter;
- Volumes: 'Tower compatible with 1.5-15L vessels (autoclave) 25-75 L (in situ)';

Benefits and Advantages

- Compact model and software with the main control loops
- Touch Screen interface and data storage via pen drive, dispensing with the use of an external computer
- 7-inch HMI monitor with built-in software for process control and monitoring, SETPOINT settings, parameter adjustments, calibrations, recipe creation, data archiving and graph viewing
- Allows you to configure password-protected users
- Allows working in continuous, semi-continuous and batch mode
- Compatible with all models and sizes of TECNAL bench top vases (Single Wall/Single Wall/AIRLIFT)
- Allows working with in sittu sterilization for vessels between 25 and 75 liters

