



# MICRO/ULTRA FILTRATION MODULE

## TE-0198

Used in processes of concentration recycling and separation of animal cells microbial cells enzymes proteins and other macromolecules. The benchtop micro/ultra filtration module allows for the carrying out of several researches and pre-selection of compounds with flexibility for the use of columns with specific characteristics (pore size membrane area and fiber diameter).

## Technical Characteristics

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- Controller: - Dedicated system for monitoring and controlling rotation and time;
- ROTATION: - Working range from 0 to 100%. - Control resolution 1% / Accuracy  $\pm 1\%$ ;
- TIMER: - Working range from 0 to 9999 minutes. - Control resolution 1 min / Accuracy  $\pm 1$  s;
- Circulation pump: - Flow: 100 - 2000ml/min - Hoses: 1.6 - 8.0 mm internal diameter with 2.4 mm thick - Maximum working pressure: 30 psi - Temperature: Ambient up to 90°C - Power: 30W, 24VDC - Supply voltage: 220V Single-phase;
- Stem for micro/ultrafiltration column: 0 - 70 cm;
- Connections for micro/ultrafiltration column:  $\frac{1}{2}$  - 1  $\frac{1}{2}$ TC;
- Base: In SAE1020 steel profile with electrostatic painting and polished 304 stainless steel finish;
- Dimensions: W=350 x D=350 H=1100mm;
- Accompanies: - 0.5 m of marprene hose of 8.0mm in internal diameter with 2.4mm in thickness - 2 HOFFMAN tweezers - 2x Oring TC  $\frac{3}{4}$  from EPDM - FDA - 2x TC  $\frac{3}{4}$ " 304 Stainless Steel Clamp - 2x DN100 pressure gauge with flush  $\frac{3}{4}$ " BSP male sanitary seal, 0 - 30 psi, 1%FE accuracy, 316L stainless steel mechanism;

## Benefits and Advantages

- Automation in the filtration process
- Work in continuous or batch system
- Reusable and easy-to-handle filtration column
- Selective safe and aseptic (autoclavable)
- Column lifetime above 3 years
- Multiple speaker options for the same support
- Collection tank in several volumes and jacketed (optional)
- Compatible with any Bioreactor
- Possibility of using the BIO-TEC-PRO tower peristaltic pump – Tecnal brand.