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CE 701 Biofilm process

Order code: **5201.08370100**

Information about product price on demand

Parameters

Quantitative unit	ks

GUNT CE 701

Biofilm Process unit is designed for the aerobic biofilm process, enabling the degradation of organic substances and nitrification. It features a transparent trickling filter with a finely adjustable rotary distributor for precise control of biofilm growth. The trickling filter can be aerated via natural convection or with an integrated compressor. The system includes a secondary clarifier with a return sludge pump and a wastewater supply unit with a stirring system. The flow rates of all key components are adjustable. The unit is equipped with two different HDPE carrier materials, allowing for comparative studies.

Technical Data & Specifications:

Trickling Filter:

- Diameter: Approx. 340 mm
- Height: Approx. 1000 mm
- Capacity: Approx. 90 L

Rotary Distributor:

- Max. speed: Approx. 2 min^{-1}

Tanks:

- Wastewater tank: 300 L
- Collecting tank: 90 L
- Secondary clarifier: 30 L

Flow Rates:

- Wastewater pump: Max. 25 L/h
- Circulation pumps: 2x Max. 25 L/h
- Return sludge pump: Max. 25 L/h
- Compressor: Max. 600 L/h

Carrier Material:

- Specific surface: 180 or 300 m^2/m^3

Measuring Ranges:

- Flow rate:
    - Wastewater: 2–25 L/h
    - Recirculation: 5–65 L/h
    - Aeration: 50–900 L/h

Operating Conditions:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase
- 120V, 60Hz, 1 phase (UL/CSA optional)

Included Items:

- Transparent trickling filter with rotary distributor
- Aeration system with natural convection or compressor option
- Secondary clarifier with return sludge pump
- Wastewater supply unit with stirring machines
- Adjustable flow rate control for all key processes
- Two HDPE carrier materials for comparative studies

Dimensions & Weight:

- Supply unit (LxWxH): 1550 × 790 × 1150 mm
- Trainer unit (LxWxH): 2870 × 790 × 1900 mm
- Total weight: Approx. 500 kg

Required for Operation:

- Water connection and drain
- Activated sludge
- Substances for artificial wastewater preparation