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Foam, detergent and anti-foam agent analysis

Type ESP-B

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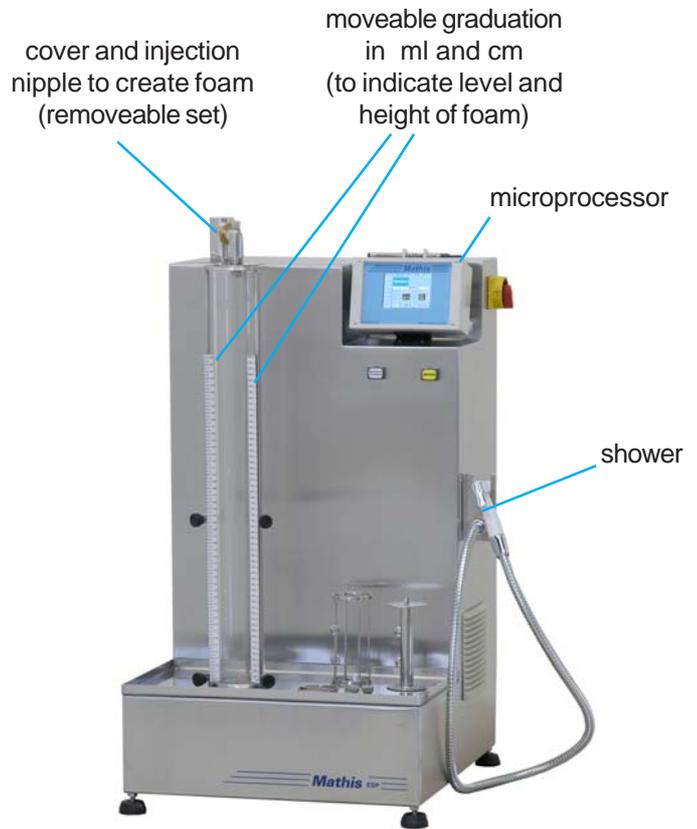
Laboratory equipment to analyze foam building and the effect of several products (as detergents and anti-foam agents) on foam, even during process simulation, as dyeing processes, for example.

ESP-B:

Machine developed to analyze the foam building, and the effect of several products on the foam, specially during the simulation of a dyeing / finishing process, with heating and the textile samples. Used in textile, and paper industry , as well as chemical product industry.

The diluted detergent is pumped from the feeding tank into a graduated glass tube, being injected into it through a nipple, creating a foam column. The height of the foam is measured by means of a moveable graduation on the glass tube. The speed of the pump is adjustable by a potentiometer on the panel.

The bath in the glass tube is re-circulated through the pump. bath circulation time is controlled manually by the operator, switching pump on and off. Besides the bath can be heated up by electric heaters located around the re-circulation pipes.



holders and hook for textile samples



In order to simulate a dyeing process, it is possible to keep a textile sample inside the glass tube on a stainless steel (perforated) holder . A Datex Pico microprocessor, with 10 programs of 10 steps each, does control all the process parameters, like heating, holding times and alarms. There is one valve for the water (bath) feeding, one for the bath re-circulation and two drains.

Cooling of the system is made by cold water entrance and circulation of the water, controlled by the operator.

Technical Data

Feeding tank volume
Circulation volume
Height of the glass tube
Diameter of the glass tube
Pump speed
Maximum temperature
Electric heating
Circulation pump
Power supply
Dimensions

ESP

2 liters
1,2 - 2,2 liters
600 mm
60 mm
0 - 12 l/min
95°C
1,9 kW
1/6 HP
2,5 kW

L = 520mm P = 550mm H = 840mm

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