

Tensiometry

BPA-1P

BPA-1S

DVA-1

PAT-1

PAT-2P

STA-1

STA-2

DPA-1

2D-Rheology

ODBA-1

ISR-1

Foams

FA-1S

TFA-1

Emulsions

DBMM-1

Fluid Dynamics

Foam Analyser FA-1S



New development based on the latest scientific achievements in foams and foam films by the famous Bulgarian and Russian schools (Exerowa, Khristov, Kruglyakov).

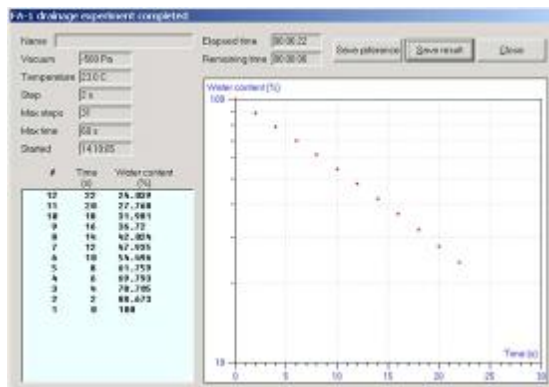
Characterises long time stable foams in a reasonable experimental time by using a particular procedure - the new pressure drop technique.

Instrumental parts

- Separate foam generator in order to produce constant foams
- foam drainage cell with conductivity sensors
- foam stability cell with a candle shaped porous container
- performs fully automatic experiments
- includes automatic cleaning processes

Features

- study separately two major processes occurring in foams: foam drainage and foam stability under strictly defined conditions;
- measure the most important foam parameter in terms of foam stability and foam lifetime at constant capillary pressure in the liquid phase of the foam;
- distinguish foams from very small differences in their stability, i.e. distinguish between stabilising ability of surfactants;
- produce foams of various dispersity and monitor the impact of dispersity on foam drainage and foam lifetime/stability;
- characterise a whole range of foams from low to extremely stable foams;
- simulate conditions in a foam similar to those in industrial foams;
- correlate foam with single foam film properties;
- monitor changes in foam dispersity occurring during an experiment;
- run express and very precise experiments.



Fields of Application

Surfactant science

Ink jet printing

Coating technology

Foam and emulsion technology

Detergency

Pharmacy

Cosmetics

Food technology

Medicine and biology

Ecology

Technical Data

Measurements:

- Foam stability (life time)
- Foam drainage

special stability cell
special drainage cell

Reduced pressure

0 ... 10⁵ Pa

Min. volume test liquid

250 ml

Software

Windows software
(free update over 1 years after purchase)

Size of device (L x W x H)

346 x 340 x 400 mm

Weight

5 kg

Power supply

100 ... 240 AC; 50 ... 60 Hz; 55 W

Extra accessories

filter plates of different porosity (porosity F, 4, 3)
filter candles of porosity F