Foam Tester – FT

Specifications

Product specifications — Foam Tester

Line sensor

Sensor resolution	1728 × 1 px
Spatial resolution	200 dpi | 0.125 mm
Temporal resolution	5 fps
Scanning length	216 mm

Operating system

Gas flow rate (internal)	0.2 to 1.0 L/min
Gas flow rate (external)	0.05 to 1.0 L/min
Approved gases	air, nitrogen, carbon dioxide
Approved pressure	5 ± 0.5 bar
Approved temperature	4 to 90 °C

Illumination

Type	LED
Wave length, dominant	469 nm (IR: 850 nm)

Software

ADVANCE	foam analysis

Measurement specifications — Foam Tester

Analyzed foam characteristic

foamability and foam stability

Results

- foam height
- liquid height
- total height
- foam capacity
- foam half life time
- drainage half life time
- sample temperature

General specifications	Foam Tester

Sample dimensions

Minimum required sample volume	50 mL with 40 mm diameter column

Temperature control

Type	double-walled glass column
Range	4 to 90 °C [1]
Resolution	0.1 °C

Temperature measurement

Sensor	PT100
Range	4 to 90 °C
Resolution	0.1 °C
Precision	0.1 °C
Accuracy	1/3 DIN B (±0.1 °C at 0 °C, ±0.8 °C at 400 °C)
Location	inside sample liquid

Environment

Operating temperature	15 to 30 °C
Humidity	without condensation

Instrument dimensions

Footprint	245 mm × 275 mm (W × D)
Height	460 mm
Weight (without accessories)	9 kg

Power supply

Voltage	100 to 240 VAC
Power consumption	maximum 30 W
Frequency	50 to 60 Hz

Interfaces

PC	1× USB 2.0

Accessories

Glass columns	40 mm diameter, temperature control option
Material of columns and filters	column: borosilicate glass, norm: ISO 4793, filter paper: cellulose
Material of sealings	silicone and FKM

[1] additional thermostat needed: TB14

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