

# Foamer Series

## Foaming Characteristics Analyzer



ASTM D892, ASTM D6082, ASTM D1881, ASTM D7840

Foamer Foaming Characteristics Analyzer is a fully-automated foaming characteristics (tendency) analyzer according to ASTM D892, D6082, D1881, D7840 and user-defined custom methods.

Foaming tendency is one of the fundamental properties of a lubricating fluid which can be caused by detergents, anti-oxidation additives, mixing of various types of lubricating oils or by the dust or water. Foaming in a lubricant causes improper lubrication and oil loss that leads to high expenses and pollution. Also the lubricant's capacity to bear the load gets lower; oxidation gets higher and heat transfer property becomes inefficient.

Foamer Series Analyzers are designed to measure foaming tendency of lubricants and anti-freeze samples in a dry oven block up to 160°C. With different models, Foamer Analyzer is a stand-alone unit, equipped with flow, temperature controllers and foam volume sensors to avoid operator requirement for analysis and reporting.



## Key Benefits

**Sensitive Temperature Control:** 0.01°C temperature control sensitivity within wide temperature range.

**Automatic Operation:** Fully automated air flow regulation, heating, measurement, calibration.

**Real-time Monitoring:** Real time monitoring of foam volume, chamber and sample temperature with graphical interface.

**Precise Measurement:** Achieve highest accuracy with unattended analysis.

**Reporting:** Analysis data report transfer to USB and PC environment whenever required.

**User-Friendly Interface:** Windows based touch screen panel and device software for simplified operation.

**Data Integration:** Easily export and integrate your data with lab management systems.

**Foam Detection:** Automatic foam volume measurement up to 1000 mL with Optical Foam Detection System (OFDS)

## Models

|            |                                              |
|------------|----------------------------------------------|
| Foamer S20 | 4 slots, 2 flow controller                   |
| Foamer S40 | 4 slots, 4 flow controller                   |
| Foamer A40 | 4 slots, 4 flow controller, 4 volume sensors |

## Specifications

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Methodology              | ASTM D892, ASTM D6082, ASTM D1881, ASTM D7840 |
| Heating                  | Dry oven block                                |
| Viscometer range         | 125 - 170 Fold                                |
| Temperature range        | 15°C to 160°C                                 |
| Temperature sensitivity  | 0.01°C                                        |
| Temperature stability    | 0.05°C                                        |
| Temperature control      | Chamber & sample                              |
| Time detection precision | 0.01 s                                        |
| Measurement range        | Up to 1000 mL                                 |
| Display                  | 7" Touch Panel Screen                         |
| Data transfer            | USB & Ethernet (RJ45)                         |
| Cooling                  | Embedded cooling coil                         |
| Security                 | Over temperature                              |
| Weight                   | 70 Kg                                         |
| Dimensions               | 60 x 50 x 90 cm                               |
| Power requirement        | 220 VAC – 50 Hz                               |
| CE Mark                  |                                               |