

F22 Fully Automated Filter Bag Fiber Analyzer

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Overview

The F22 fully automated filter-bag fiber analyzer replaces the crucible extraction method, eliminating its drawbacks: excessive labor and time, poor temperature control, residue loss, and safety risks for operators. For batch determination it delivers high efficiency, stable results, and lower reagent consumption. Its high-pressure sealed reaction cylinder digests samples with integrated stirring — high stability, reliability, and sample-handling capacity — making it well suited to high-throughput laboratories.

The F10 model is also available in this series.

Features

- The color LCD touch-screen, which is strong functional, is equipped, simple interface for the user's easy and convenient operation.
- Fully automatic digesting is designed, including automatic solvent inletting, heating, accurate temperature controlling, stirring, waste discharging, and cleaning can all be handled automatically, unattended operation.
- Automatically add reagents according to the number of samples to reduce the use cost.
- Comprehensive monitoring configuration, including reagent quantity monitoring, temperature monitoring and pressure monitoring.
- Efficient batch processing capacity — up to 30 samples per batch, high efficiency and reagent saving.
- F22 has a timing start function, which makes testing more convenient.
- F22 can be directly used in ordinary laboratory environment without fume hood.
- The filter bag technology is adopted, and the standard filter bag aperture is 25 µm. Optional 15 µm or 10 µm.

Specifications

Temperature range	Ambient-100 °C
Sample size	0.1-5.0 g
Measuring range	0.1%-100%
Time consumption per determination	120 min
Capacity per batch	Up to 30 samples simultaneously
Capacity per day	About 90-180 (8-hour working day, depending on fiber type)
Repeatability	RSD ≤3.0%
Determination result standard deviation	≤4%
User-defined schemes	250 sets
Solvent adding	Automated
Filter bag pore size	25 µm standard (10 µm / 15 µm optional)

Safety requirement	Enclosed space, off-hand operation
Installation requirement	Routine laboratory environment, no cooling water needed
Power supply	AC 220 V, 50 Hz
Dimensions	375×500×450 mm
Weight	25 kg

All technical parameters are subject to change without notice.

Applicable standards

ISO 6865 · ISO 16472 · AOAC 2002.04 · ISO 13906

Application fields

For crude fiber, acid detergent fiber (ADF), neutral detergent fiber (NDF), lignin and insoluble dietary fiber determination.

Specifications as published at www.sino-sonnen.com. Final configuration is confirmed per order — request a quotation: info@sino-sonnen.com · R&D: Jiading District, Shanghai · Manufacturing: Luoyang, Henan, China