

Fully Automatic Fat Analyzer



Picture for reference only

Introduction:

The fully automatic fat analyzer is an instrument based on the Soxhlet extraction principle for the extraction and separation of fats and other organic substances. It features five extraction modes, dual heating blocks, and a gas leak alarm. Widely used for fat extraction in agriculture, food, environmental, and industrial sectors, it is also applicable for measuring soluble organic compounds in detergents, pharmaceuticals, petrochemical products, textiles, soil, and sludge.

Features:

- * The system is equipped with a full-fluorination fluidic path, resistant to high temperatures and chemical corrosion from various solvents—including benzenes, ethers, ketones, and more—making it compatible with all organic solvents and suitable for a wide range of sample testing requirements.
- * Featuring one-touch start and pause controls, the device simplifies operation and lowers the technical threshold, allowing flexible control over the experimental process.
- * It runs on an Android-based operating interface, designed to be intuitive and user-friendly for clear and straightforward operation.
- * The instrument supports five extraction modes to accommodate different sample types and extraction needs.
- * Pre-configured common reagent options are built in, enabling quick setup for high-frequency tests with a single click.
- * An integrated ether leak sensor and real-time anomaly monitoring system automatically pause experiments and issue alerts upon gas detection, ensuring operational safety and smooth procedure.
- * The fully transparent condensation and extraction modules provide clear visibility into the instrument, allowing easy monitoring of the experimental process.
- * With one-touch solvent recovery, operators can efficiently retrieve solvents via the controller after experiments, minimizing waste and simplifying cleanup.

Performance:

Model	SFA-606(Customized)
Temp. Range	5~300℃
Measuring Range	0~100%
Temp. Accuracy	±0.1℃
Sample Weight	0.5~15g(Normally 2~5g)
Automated hot solvent extraction process available.	Yes
Capacity	6pcs/batch
Condenser	Borosilicate glass condenser
Loading	Automatic solvent loading, eliminating contact with the solvent
Heating Position	Independent heating position switch (on-off)
Display	Touch screen;Real time displaying of essential parameters of extraction process;the screen based indication of active positions
Solvent Recovery	≥90%
Solvent Storage	Internal solvent storage tank, visible and with optical sensor
Connection	USB interface for scales connection
Solvent Volume	250ml
Seal/Gasket	Universal seal/gasket, resistant to majority of solvents used
Controller	6 units controlled by one controller
Heating Plate	Glass-ceramic heating plate with overheating protection in each position
Cooling water consumption	1.5 L/min
Pre-installed library of methods and customizable programs	Yes
Temperature Setting	Temperature setting to control all units
Data Analysis	Ethernet connection for downloading results to a PC in accordance with LIMS Downloading analysis results to a USB drive or equivalent modern solution for transferring of measurement data
Extraction chamber protective screen	Yes
Power Supply	AC 220V, 50/60Hz(Standard)
Components, spare parts, consumables	Auto extractor of solvents 1 pc . Device or pneumatic drive for moving extraction cups 1 pc. Thimble holder 6-slot 1 pc. Fiberglass plugs 33x80mm, 25 pcs./pack, 1 pack . Hydrolysis unit with all auxiliary glassware,1 set. Crucible P1 for HU 6, 6 pcs / box 1 piece Input fitting 1/4 NPT - tube Ø 4.3÷4.5 mm 1 pc. Inlet fitting 1/4 NPT - tube Ø4.8÷5mm 1 pc. Complete preventive maintenance kit 1 pack .