



RAPID FAT ANALYSER BY RANDALL METHOD

From Effort to Efficiency
Upgrade to Randall, Simplify Fat Analysis!

WHY LABS ARE MOVING TO AUTOMATIC FAT ANALYSERS

In today's labs, meeting testing timelines and maintaining quality are big challenges. Manual processes slow everything down and create chances for error. Automation brings ease, safety and consistency to everyday operations. Our technology handles everything: boiling the sample, rinsing, and recovering the solvent for reuse, saving time, solvent, and effort.



FAT EXTRACTION USING RANDALL METHOD

Based on the Randall Extraction processes & as per AOAC-approved standard method, The Rapid fat analyser is designed for precise estimation of crude fat in food and feed products. It simplifies and accelerates classical extraction through automated cycles, enabling consistent, accurate, and reproducible results with efficient solvent recovery. This technology ensures you can confidently meet stringent industry specifications, customer needs and crucial nutritional labeling requirements.

SMART FEATURES OF RAPID FAT ANALYSER

INTELLIGENT ENERGY HEATING



Energy Mode optimises heating cycles, ensuring minimal power consumption while delivering peak performance.

DATA CALCULATION MODE



This saves you valuable time and makes your entire analysis workflow faster, easier and more reliable.

SAFETY FEATURES FOR RISK-FREE OPERATION



Built-in safety doors protect users during extraction. Easy beaker fixation system allows quick, hassle-free setup. Automatic error detection reduces handling risks and enhances process reliability.

REAL-TIME MONITORING



Borosilicate glass assemblies provide full visibility of the extraction process, ensuring operational control.

ECO-SMART EXTRACTION



Store, reuse and save!
The solvent is collected in a recovery bottle for sustainable savings.

CORE ADVANTAGES

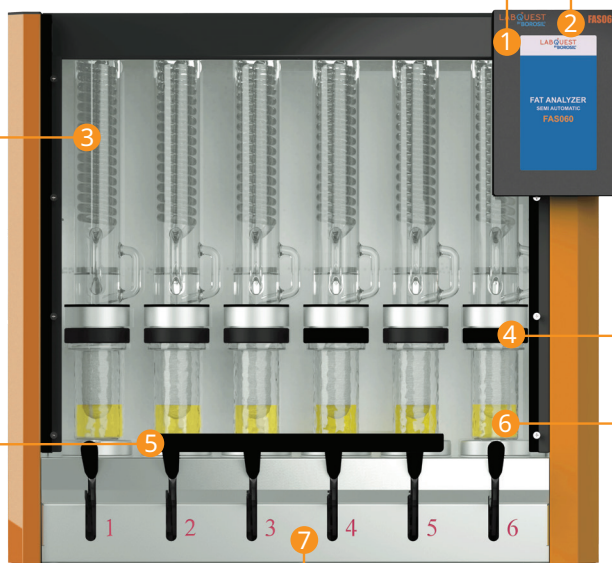


① 7" touch screen for ease of operations



② Auto Boiling, Rinsing & Solvent recovery for minimal downtime

③ The Glass assembly is designed with high-quality Borosilicate 3.3 expansion glass for Superior Durability



④ A protective cap prevents moisture interference, improving Solvent efficiency

⑤ Safety doors to protect and prevent accidents during operation

⑥ 3x times faster than traditional Soxhlet method (direct heating)

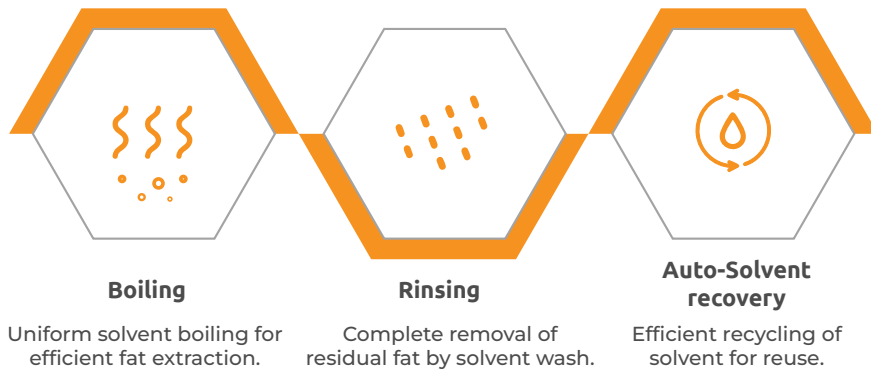
⑦ Individual Heater operating positions for flexibility

SUPERIOR RAPID FAT EXTRACTION SYSTEM



In the Randall method of fat extraction, controlled energy application is essential for maximizing fat recovery while preventing sample degradation and minimizing solvent loss. The solvent used in fat extraction must be heated to an optimal energy to dissolve the fat from the sample. However, excessive heat can cause solvent loss due to evaporation, leading to inaccurate results.

BENCHMARK TECHNOLOGY FOR FAT ANALYSIS COMBINE PERFORMANCE AND PRODUCTIVITY WITH IN-BUILT:



FUNDAMENTAL STAGES OF FAT ANALYSIS



(Note: Poorly prepared samples may lead to incomplete extraction or overestimation of fat content)

EXPLORE MORE SOLUTIONS DESIGNED TO POWER YOUR LAB:



Scan & Explore

RAPID MOISTURE ANALYSER

BETTER FAT ESTIMATION BEGINS WITH DRYING

- Moisture interferes with solvent extraction, leading to inaccurate fat values.
- Using a completely dry sample ensures efficient fat recovery, consistent results and reliable % fat estimation.
- Always pre-dry the sample for precise and reproducible analysis.

CHILLER

OPTIMIZE FAT EXTRACTION EFFICIENCY WITH CHILLER

- Achieve unmatched accuracy and reliability with every analysis.
- A chiller guarantees efficient fat extraction by minimizing solvent evaporation and maintaining precise temperature conditions.
- Ensures stable temperature for accurate, efficient, and reproducible fat extraction.



Scan & Explore



ACCESSORIES:

CELLULOSE THIMBLES (33 * 80 MM)

FPBCTH6033080



THIMBLE HOLDER

BLAMFAS06010000020



RANDALL BEAKER(55MM)

BLA0FAS060BKR55124



RANDALL CONDENSER

BLA0FAS060CON56326



TECHNICAL DATA & ORDERING INFORMATION

Model Name	FAS060
No. of position	6
Individual Operating position	Yes
Sample size	0.5 gm to 10 gm
Solvent Recovery (with chiller)	80 - 85 %
Limit of detection	0.1% to 100 %
Display	7" touch screen
Energy Mode	Energy regulator 1 to 10
Beaker solvent capacity (Individual)	150 ml
Chiller water temp	10-15 °C
Solvent Recovery bottle capacity	2 Liter
Water Flow Sensor	Yes
Heater temp range	250 °C
Condenser	Seal Viton (FKM)
Safety door	Yes
Vacuum pump flow rate	7 LPM
Power supply	230 V 50 -60 Hz
Current Consumption	8A
Power Consumption	1500 W
Dimensions (LxBxH in mm)	700 x 420 x 660
HSN Code	84198990
Ordering Code	BLFAFAS06000000000



1101, Crescenzo, G-Block, Opp. MCA Club,
Bandra Kurla Complex, Bandra (E), Mumbai - 400 051, India
E: bsl@borosil.com W: www.borosilscientific.com

Pune Manufacturing Unit:
BOROSIL SCIENTIFIC LTD.
21-24, Plot No. 8, Indialand Global Industrial Park,
Hinjewadi Phase - I, Pune - 411057

Service Support:

✉ lab.support@borosil.com
☎ 1800-224-551

Visit Website



Connect with us
on LinkedIn

