Tulin® - Fully Automated Fibre Estimation System

the essence of innovation

Tulin FRB-6

ON — OFF

PRESSURE

Tulin developed , a new Generation with the wide, unique, real class Fibre unit in accordance with the official methods (AOAC, EPA, DIN and ISO).

RAPID Fully AUTOMATED PC Compatible Auto Sequence Microprocessor Based FIBRE ANALYSIS SYSTEM (ISO 9001:2015 & CE Certified)MULTI - Analysis (Crude Fibre - CF, ADF, NDF, ADL, Cellulose, Hemicelluloses, Lignin,) Compatible to weende, van Soest and other recognized methods AOAC & EPA)

Application :

Suitable for faster, safer, and high throughput fibre extraction From food related samples Determination of Fiber content in all type of Feed & food sample, related parameters in plants materials, Cereals & its products, Seeds & Many More through acidic hydrolysis system.

System Description :

Model:FRB 6-Six samples Automatic PC Compatible Superior Auto Sequence Fiber Estimation system with auto Time/Temperature Microprocessor Programming control Hot Extraction Built in Heating Filtration With LCD Digital Display.
Sample size: Depends upon the sample less than 0.5 to 5gms
Heater: high grade ceramic inbuilt infrared heaters with heat reflector SS Splash plate.
Heater Control: Automatic Microprocessor program controller.
Sample Loading : Individual non corrosive stainless steel spring Easy
Mechanical Controls for sample loading. Dimension :776*476*644 mm.
Power Supply:220 VAC±10% 50Hz.Power :2.2 KW.
Heater Control: Automatic Microprocessor Program Controller. Heating time:10 to 12 min Heating to Boiling 13 to 15 min.

Superior Features

→ sequential extractions including boiling, rinsing and filtration performed under reproducible & controlled System.
→ Temperature Control Range: Room temperature to 450°C,Temperature Accuracy:±0.5°C
→ Microprocessor Based LCD Display System read out for Temperature & Time
→ Measuring range: 0.1 – 100% , Relative at 5% - 30 % fiber level
→ Repeatability : Below 10%, ≤0.4 % raw Fiber Content Above 10%, ≤1 % .
→ 10 Intelligent user storage program more than 5 Desire Ramp/Sequence steps
→ In Built Pre Heating facility for acid/ alkali with PID control
→ Borosilicate reagent heating flask with Handle.
→ Extractor : Marked borosilicate extraction vessel with borosilicate reflux condenser
→ Vacuum source – Fibro system with self priming pump connected to water suction glass filter pump for rapid filtrations.
→ Microprocessor Based Specialized Electrical air pump for declogging Individual valve: Individual Non Corrosive valves for Draining.
→ vacuum pressure, reverse air stream & reagent addition, solvent dehydration of fibre residues.
→ Reagent Addition directly from the top of the extractor
→ Control Valve: Individual control valves for vacuum & reverse air stream
→ Separate isolated Temperature Controller in a control tower for digestion heat zone and acid reaction zone.
→ High grade Silica glass Crucible with P2 (P100) Disc ,40-90 µm Microns for free flow of reagent while operation.

Safety Features

→ Warning sign Adequately displayed in Digital display,Auto calibration of heating temperature, Automatic safety features like over temperature protection,Auto Error Indication and Sensor Break. Auto heater cut-off facility with indicators to save the power,Auto alarm for user's attention Acoustic and indicator lamps showing when the unit reaches the end of final cycle

An ISO 9001 : 2015 Certified Organisation

CE