

FibroTRON™

Real Automated Rapid Fibre Analysis System

(Crude Fibre..., ADF..., NDF..., Lignin...)



the essence of innovation



FRB - 2

FibroTRON Unique Automated PC Compatible Fibre Analysis in Four Steps

System Description :

The FibroTRON system is specifically designed to provide a low cost, high capacity solution for fibre determination in accordance with the Weende and van Soest methods. Batch handling with no sample transfer, is used throughout the procedure. **Direct Reagent addition, Boiling, Rinsing and Filtration** are performed under reproducible and controlled conditions. The system offers substantial saving both in manual handling and time, as well as improved analytical precision compared to manual methods. **A unique Glass Powder with silica mix Crucible** used for free flow of reagent through the crucible during analysis. This feature guarantees repeatable conditions for all sample types, even high starch sample can easily be determined, Crucibles are used both as an integral part of the assembly during **extraction, rinsing and filtration and as sample vessels during weighing, drying and ashing.**

Application :

An automated extraction system for simple determination of crude fibre, detergent fibre NDF, ADF, ADL Cellulose, Hemi Cellulose, Lignin and related Food, Feed, Fodder, Bio Material, Plant Materials, Compound feeds & Many more.



FRB - 4



FRB - 6



FRB - 8

Tulin EQUIPMENTS

An ISO 9001 : 2008 Certified Organization

OUTSTANDING FEATURES

- Automated heating of reagents in an integrated, closed system
- Direct addition of preheated reagents facility.
- Inbuilt Microprocessor to control Temperature & avoid excess heating
- Unique, design of individual sample loading & control system.
- Unique, design of Anti-Corrosive adaptor for leakage proof & perfect Sealing.
- Unique, design of stand & tongs makes convenient to handle the crucible
- Rapid filtration with the help of efficient suction mechanism.
- Back Pressure device provided for Declogging.
- Crucible extends its life for different application.
- Avoiding a sample transfer throughout the operation.
- Saves time, Manpower, space, accurate comparing Conventional method
- High efficient, Easy to handle and compact design with less Maintenance

TECHNICAL DATA

Model	FRB 2	FRB 3	FRB 4	FRB 6	FRB 8 (Unique)
Sample Size	(0.1 to 10 gm or More) Sample Depends				
No. of Sample	2	3	4	6	8
Power	1000	1500	2000	2500	3000 (Dual Control)
Temp. Range	Room Temperature 35°C to 550°C (Temperature Accuracy $\pm 0.5\%$)				
Timer Range	001 to 999 sec / min / hr (Display Set Time & Actual Time)				
Temp. Setting	Anti Corrosive Aesthetic Soft Touch Membrane Keys				
Temp. Display	Micro Processor Ramp Controller with Bright Digital Display LCD / Graphic Touch Screen Display (TFT) 480 X 272 OVGA Resolution, RGB 65,000				
Customize Program	10 to 100 Micro Processor User Storage Program with 6 to 30 Sequence Steps (Ramp), 850 Inbuilt Memory with Software, Display Accuracy:0.1				
Heater Source	Infra Red Heater with splash plate				
Loading System	Individual precise able S.S. Spring Control System (Unique)				
Filtration System	Individual High Anti Corrosive S.S. Filtration System				
Crucible	Glass Powder with silica mix Crucible (P0/P1 - Porosity)				
Extractor Vessel	Marked Borosilicate, Handled with Bulb Technique				
Pressure Device	Specialized Electrical air Pump for De-clogging				
Vacuum Pressure	Anti Corrosive S.S. Jet Suction pump				
Elec. Requirement	180 - 240v / 50 - 60Hz - AC Mains				
Safety Features	Visual Auto over temperature protection / Auto Error Indication / Sensor Break Protection / Auto Heater Cut off with Visual Display, Buzzer Indication & User Alarm (Memory Backup - Unique)				
Connectivity	Rs485 / 232 / USB Interface to PC / Laptop - Optional (Data Control)				

SPECIAL FEATURES

- Optical Sensor for Avoid over flow of Reagents
- Auto Suction for Better Filtration,
- Data Logger with Memory Port, Date, Time, Real Time Analysis,
- Remote Control Module, Password, User Login Feature,
- Facility of Auto Shutdown & Auto Startup
- OEM Make Printed in the Control Board
- Software Graphical Presentation for Temp. & Time Gradient
- Data table Convert Facility, Data Processing,
- Displays the % Power, Printer Option,
- Inbuilt PC Software for Different Analysis
- Facility of Auto Reagent Addition of Acid, Caustic
- Facility of Controlling Cooling Water

Manufactured & Marketed By

Tulin EQUIPMENTS

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ADD ON

Unique Superior Features

offer on your demand