

# KFT-3100

## Karl Fischer Titrator



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

Supplied with 250ml Reaction Vessel, Dual Platinum Combined Electrode, Teflon Paddle, Teflon Assembly, Moisture Trap (02 Nos.) , 250ml Amber Reservoir Bottle, Dispensing Tube (02 Nos.), Micro tip (02 Nos.) Teflon Tube for Dispensing Path, Power Cord, software, USB Interface Cable, Operational & Instruction Manual with SOP, Calibration Test Certificate (Without Traceability Document) and Warranty Card.

## Technical Specification:

|                                  |                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method of Detection              | Conductometric / Volumetric                                                                                                                                             |
| Range of Moisture Detection      | Better than 50 ppm to 100% (depends upon type of sample)                                                                                                                |
| Dispensing Resolution            | 0.001ml                                                                                                                                                                 |
| Magnetic Stirrer                 | Built-in with soft touch Key speed controller                                                                                                                           |
| Calibration                      | Average factor can be calculated by 1) Water by volume<br>2) Water by weight 3) By DST                                                                                  |
| Method                           | 40 with Three pre-assigned methods 1) Liquid by volume<br>2) Liquid by weight 3) For Solid sample<br>Method No. 4-40 are customized with View, Print & Delete facility. |
| Auto Neutralization              | On / Off - users selectable - reduces the time between analysis & gives accurate results                                                                                |
| Stirring Time                    | 00:00 to 99:00 (mm:ss) – users adjustable                                                                                                                               |
| End Point Sensitivity            | 80-100 - users adjustable                                                                                                                                               |
| End Point Time                   | 1-20 seconds - users adjustable                                                                                                                                         |
| End Point mV                     | 1000-3000 mV - users adjustable                                                                                                                                         |
| End Point Detection              | By Audio & Visual Alarm                                                                                                                                                 |
| Calibration Reminder Alarm       | 0-99 Hours                                                                                                                                                              |
| Over titration Alarm             | Audio / Visual Alarm at 15 ml to save KF Reagent                                                                                                                        |
| Display of Reading               | Moisture in ppm, percentage (%), mg/ml of water, gm/L, Mol/L                                                                                                            |
| Auto Drain                       | For cleaning reaction vessel - useful for large & multiple volume sample                                                                                                |
| Flush                            | For cleaning dispensing path                                                                                                                                            |
| Calculation of % RSD             | Possible                                                                                                                                                                |
| Average KF Factor Calculation    | Automatic - Maximum 5 factor can be stored in memory.                                                                                                                   |
| Weight Entry                     | In Resolution of 0.1 mg / 0.01 mg - users selectable                                                                                                                    |
| Weight Transfer                  | Possible through RS-232 Port (From Balance to AKF)                                                                                                                      |
| Balance Interface                | Yes, with RS-232 Port                                                                                                                                                   |
| Dispenser Calibration/Validation | Onsite by user                                                                                                                                                          |
| Dispenser MOC                    | SS-316L & Teflon for Corrosion Protection & Maintenance Free Operation                                                                                                  |

## Standard Accessories:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dispenser type            | Motorized - For accurate measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Teflon Tube               | To transfer KF reagent from KF reagent bottle to dispenser & dispenser to reaction vessel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Material of Construction  | Epoxy Based Powder Coated Metallic Body / GMP Enclosure made up of Stainless Steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Type of Electrode         | Dual Platinum - Combined Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Input                     | Electrode with Banana Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Error Messages            | "Over KF", "KF Factor Error", "Max. Factor Reached" & "Low Memory"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Short Link                | Provided to diagnose the problem either with Instrument OR Electrode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Display                   | 20 x 4 Line Alphanumeric Backlit LCD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Keypad                    | Membrane waterproof polycarbonate soft touch keypad compliance to UL/ROHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Calibration Data Storage  | Non-Volatile Memory which can store, print & view calibration date & time, calibration method, calibration done by, stirring time, average KF factor, % RSD, instrument serial number, instrument ID etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Analysis Data Storage     | More than 1500 analysis data, with corresponding calibration data company name, analysis date & time, record number, batch / ID number, sample name username, sample type and method, sample volume (ml / mg), sample density (for liquid sample), stirring time, end point time, end point in ml, moisture result in %, ppm & H <sub>2</sub> O (mg / ml), analysis done on, instrument serial number, instrument ID etc. Secondly, analysis data can be print online.                                                                                                                                                                                                                                                                                                         |
| Searching of data         | With record number, batch number/ID, date, date range and by scrolling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Report Formation          | As per GLP Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 21 CFR Part-11 Compliance | <ul style="list-style-type: none"> <li>* In-built with system for ease of operation without PC.</li> <li>* 2 Admin, 10 Reviewers, 40 Users &amp; 1 Manufacturer with individual Login ID &amp; Passcode.</li> <li>* Audit trail can store more than 5000 lines in instrument.</li> <li>* Audit trail includes action taken, date &amp; time, action taken by whom.</li> <li>* Audit trail can be transfer to PC through ANALABsafe software and can print on 40 / 80 column dot matrix printer for record.</li> <li>* Admins can set up operation permission of each Users &amp; Reviewers.</li> <li>* Strict Admins control to audit and monitor usage and access.</li> <li>* Audit trail record can be printed with Date, Date Range and by individual User's ID.</li> </ul> |

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

## Our Products & Technologies



LCMS



Automated Prep-Flash  
Chromatography system



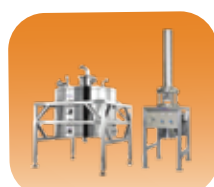
Maldi TOF



Optima Gas  
Chromatograph



Flash  
Chromatograph



DAC  
Column



GCMS  
3068



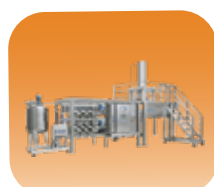
UHPLC



HPTLC



Ion Chromatograph



Production  
HPLC



HPLC



Column



DLS



Water purification  
system

## ▶▶▶ Regulatory compliances



## ▶▶▶ Corporate Social Responsibility

ANALYTICAL FOUNDATION is a Nonprofit Organization (NGO) for the purpose of:



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1. Research & Innovation **Scientist's awards & International Conference visit sponsorship / QC Professional Awards:** Quality life is possible by innovation only and the innovation is possible by research only, hence **ANALYTICAL FOUNDATION** is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research /testing/ publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering **YOGA Training courses, Work shops / Seminars** etc.

3. **ANALYTICAL FOUNDATION** aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Naturecure, Health Care, Ara, Events, Camps etc.

▶▶ A portion of profit of **ANALYTICAL GROUP** Company's goes into **ANALYTICAL FOUNDATION** for the aboce noble cause.

## ▶▶▶ Reach us @



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### Subsidiaries



Note : Company reserves rights to add/delete/modify the contents / technical specifications of the catalogue without prior notice

HPLC Solutions

MultipleLabs

Infinite Multiplelabs LLP

Analytical Bio-Med

Analytical Foundation (Trust)

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