

AUTOMATIC MILK COLLECTION UNIT WITH ADULTERATION TESTER



Description

The Automatic Milk Collection Unit with Adulteration Tester is an integrated unit, comprising of following

- Electronic Weighing Scale
- Electronic Milk Adulteration Tester with Analyzer
- Personal Computer
- Digital Indicator
- Society Accounting & Management Software
- Dot Matrix Printer
- Uninterrupted Power Supply

The system is suitable for instant weighing of the milk, measurement of Fat, SNF, Protein, Lactose, Density, Added water, Milk Adulterants and calculating the amount payable to the individual member based on Fat, SNF and Weight.

The instrument works on the principle of ultrasonic and detection of specific ions of adulterants present in the milk sample. The detection procedure follows the steps of intake, dilution, mixing and analysis.

Detected signal is processed through embedded software and results are displayed quickly and accurately on a digital display for the convenient read-out by the user.

This system can perform 90-100 samples in an hour. The sequence of operation require pouring of milk in weighing milk Can, collection of milk samples at the time of pouring, entering the member code through keyboard, measurement of Fat SNF, Protein, Lactose, Density, Added water, Milk Adulterants, calculation of payment and printing of payment slip.

Society Accounting & Management Software covers computerization of the various activities of a village co operative society. The total solution including computerization is conceived, designed, developed and customized for the dairy sector

The instrument is accurate, simple, economical, reliable and rugged for analysis of compositional parameters and to identify adulterants present in the Milk and suitable for the Village Milk Collection Centers and Milk Chilling Centers.



EMAT+

Performance Data

Milk type	: Cow, buffalo and mixed milk.
Measuring Speed	: 90-100 samples per hour
Parameters	: Fat, SNF, Protein, Lactose, Density & Added water
Calibrated	: Urea, Detergent, Ammonium Sulphate, Salt (Sodium Chloride) Hydrogen Peroxide, Soda (Sodium bi carbonate) and Caustic Soda.
Adulterants	
Measuring Range	: Fat 0.01% to 25% SNF 3% to 15 % Protein 2% to 7% Lactose 0.01% to 6% Density 1015 to 1040 Kg/m3 Added water 0% to 70%
Accuracy	: Fat ± 0.10% SNF ± 0.15% Protein ± 0.15% Lactose ± 0.20% Density ± 0.3 Kg/m3 Added water ± 3.0 %
Minimum limits of Detection	: Adulterants Limit of detection % Urea ≥ 0.1 % Ammonium Sulphate ≥ 0.2 % Salt ≥ 0.2 % Detergent ≥ 0.3 % Hydrogen Peroxide ≥ 0.3 % Soda (Sodium bi Carbonate) ≥ 0.3 % Caustic Soda ≥ 0.3 %
Initialization time	: Max 10 Minutes
Sample Temperature	: Milk temperature: 25 °c to 40 °c
Sample volume	: 18 ml.
Cleaning	: Easy cleaning
Display	: LCD display
Data interface	: SD Card and RS232

Personal Computer (PC) *

- Dual Core CPU with Intel Chipset
 - Minimum 2 GB DDR RAM,
 - Minimum 500 GB HDD
 - 18.5" LCD/LED TFT Colour Monitor
 - Combo Drive (CD/RW/DVD), Speakers & Micro Phone
 - Wom MM Keyboard
 - Optical mouse with pad, on board 10-100 E-net
 - 4 USB, 2 Serial, 1 Parallel Ports, 1KBD port
 - Operating System: The operating system will be a licensed Preloaded Win 8.1 / Win 10 home with backup CD
 - Application Software: REIL SAMS in accordance with "A system study report of a Typical Dairy Co-operative Society"
- * Specifications are subject to change as per stock availability and standard from international manufacturers.

Digital Indicator

- Display Type
7 Segment Green LED of 12.5 / 25 mm height
- Display indication
Member Code, %Fat, %SNF, Weight, Rate & Amount

Dot Matrix Printer

24 Pin 80 Column Dot Matrix Printer

Electronic Weighing Scale

Designed and Marketed by REIL confirming to "Standards of Weirght and Measure (General) Rules 1987" as amended upto date.

- Capacity : 200 Kg
- Resolution : 20 Gms
- Load cell : Stainless Steel
- Platform size : AISI SS 304, 1.5mm thick & size 600mmx600mm polished to 150 grit
- Battery backup : In-built battery backup during power failure

Uninterrupted Power Supply

- Capacity : 1400 VA/ 1500VA/2000VA
- Type : Line Interactive Type
- Voltage at input : 160 Volts to 280 Volts
- Voltage at output : 230± 10% Volts (AC)
- Full protection : Under/over voltage, Low battery voltage, Over load, Short circuit, No load protecion againes spikes
- Backup time : 3hrs minimum in fully charged condition

Features

- Society Management
- Society / Member Registration
- Member Shares
- Milk Rates / Chart
- Inventory Management
- Stock Register
- Material Purchase
- Material Sales
- Milk Management
- Milk Collection / Local Sales / Dairy Sale
- Milk Received at Dairy
- Milk Payments / Daily Register
- Member/ Shift/ Month/ Yearly/ Bonus Reports
- Accounts Management
- Trial Balance
- Day / Cash/ Bank Book
- Ledger Accounts
- Profit & Loss / Balance Sheet

Regional Offices

Anand	Bangalore	Bhopal	Chandigarh	Hyderabad	Jaipur	Lucknow	Patna
02692-261794	080-22295783	0755-2418984	0172-2682329	040-27000151	0141-2470784	0522-2719122	8084048563

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