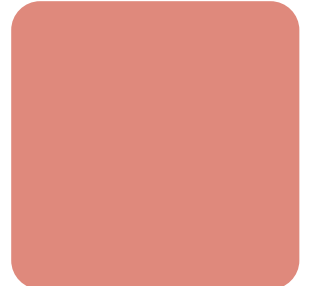
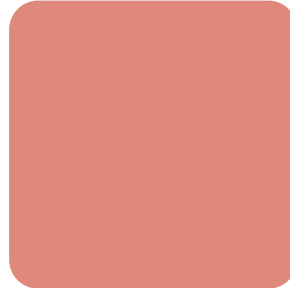


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DAIRY EQUIPMENT ENGINEERS

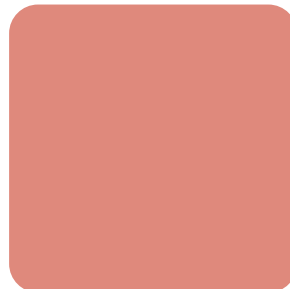
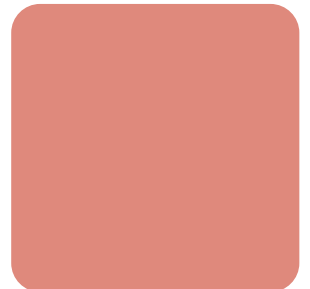
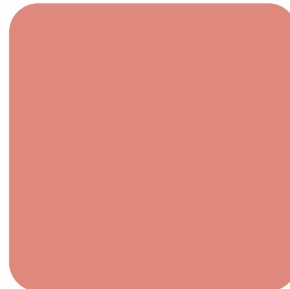


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## Introduction



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS



Dear Sir / Madam

We thank you for your enquiry, and for taking interest in our equipments. We enclose details of our range of products and hope it will be of great help in selecting the best equipment suited to your requirements. Should you experience any difficulty, please do not hesitate to contact our Sales & Technical staff who would be glad to assist you with detailed specifications of our standard products or with modifications thereof, if required by you.

Quotations for any of our equipments or for specially designed items are available on request. All manufactured equipments are subjected to rigorous checks maintaining the usually high standards of quality and finish. We are established since 1949 and are renowned throughout the Dairy Industry for high quality products, which are reliable in design and durable operation.

We have spacious office and factory areas in Delhi & Haryana (India) equipped with modern machines, including Laser and CNC machines and highly skilled craftsmen. Our factory is spread over 5.5 acres of land having further scope for expansion.

We have in depth knowledge of design and development of our products. We can supply all types of equipments from basic manually operated to fully automatic installations. Our highly experienced and qualified engineers are available for installation and commissioning of equipments and projects and our technical staff would be pleased to quote for annual maintenance contracts, if required.





Wide network of our equipment is to be found everywhere and our sales personnel are competent to deal with enquiries respectfully. Literature in Hindi is available on request, and translations in other languages may be undertaken.

This group began its journey, entering the business of milk trade, by opening a dairy in Delhi in 1948. The founder of the Group, Late S. Makhan Singh Chadha, while engaged in milk trade, realised the thirst and potential of dairy equipments and its role, in the development of the dairy industry, in India. The group entered the dairy industry and manufactured and launched, its first ever, Milk Testing Centrifuge in the market, and since then, for over five decades now, this group has been serving the dairy industry. Today, it has a wide network of Dealers and Agents, all over India and abroad. The company started off with milk testing equipments and has gradually continued to add more and more products to its production line. Today, the Group sets up Dairies on



1918-1996

Founder

Late Sardar Makhan Singh Chadha  
A Great Visionary & Philanthropist

turnkey basis, most of the equipments being manufactured in-house along with subsidiaries, ancillaries and a large vendor base manufacturing equipments exclusively for the Group.



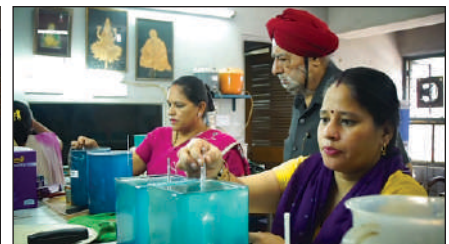
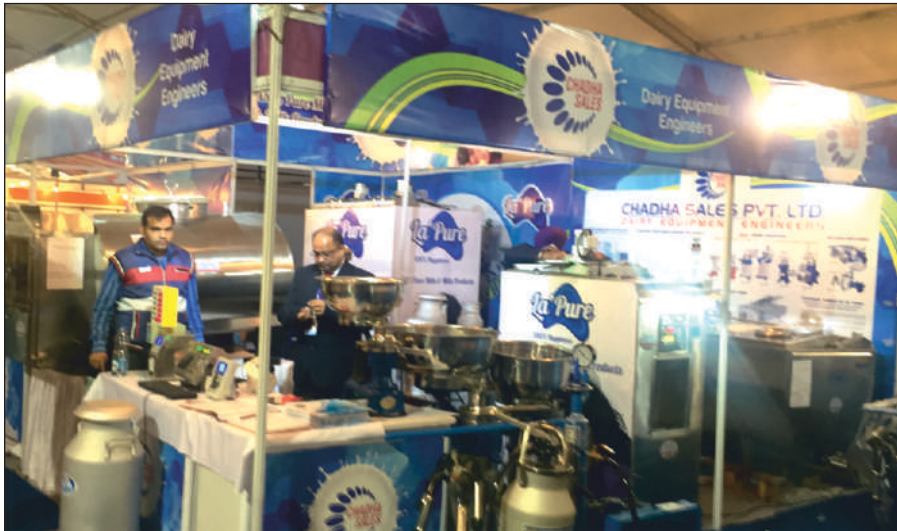
This equipment guide provides a unique opportunity to dairy technologists and dairy entrepreneurs to witness a complete range of dairy equipments being manufactured and supplied by a single organization. Our dairy engineers and technologists are always there to improve the dairy products for our valued customers.

We are proud of our reputation and products. Our representatives would welcome the opportunity of discussing our range of equipments, should you require further information.

M.P.S. Chadha  
Managing Director





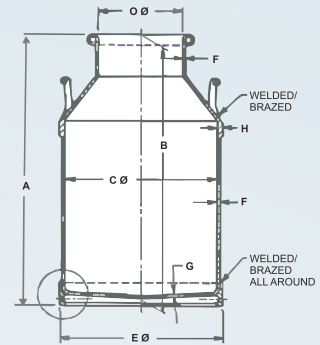


**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

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Fax : +91-11-23914211 E-mail : info@chadhasales.com  
Web Site : www.chadhasales.com, www.dairyequipmentonline.com



ALUMINIUM  
ALLOY MILK CAN



**Features :**

- Raw Material Confirming IS : 64430 to IS : 737-1974.
- Shrink Fitted Bottom Band, Brazed & Light Weight.
- Firm & Sturdy Handle Gripping.
- Extra thickness at Shoulder adding strength.
- Spot Welded Lids for extra strength.
- Tempered, Hardened & Anodized Cans & Lids.
- Hygienic Construction, No Spillage, Easy Draining.
- Built in Durability, Corrosion Proof.
- Precision Engineered & Maintained Quality.

**Dimensions & Specification :**

Capacity in Litres		10±0.2	20±0.4	30±0.6	40 ±0.8	50 ±1.0
Approx. Wt. Can with Lid		2.6 Kg.	4.0 Kg.	5.9 Kg.	6.5 Kg.	8.0 Kg.
Hardness BHN		85	85	85	85	85
Anodising		12.5	12.5	12.5	12.5	12.5
Height	A	379±3	447±3	512±4	591±4	651±4
Depth	B	343±3	431±3	496±3	575±3	634±3
Inner Ø	C	222±2	280±3	320±3	340±3	360±3
Inner Neck Ø	D	150±5	200±0.5	200±0.5	200±0.5	200±0.5
Bottom Band Ø	E	230±3	292±3	332±3	352±3	372±3
Wall Thickness	F	1.9	1.6	2.0	2.0	2.0
Bottom Thickness	G	2.0	2.0	3.0	3.0	3.0
Shoulder Thickness	H	2.5	2.5	2.5	2.5	2.5







Best Productivity Award Winner  
for Aluminium Alloy Milk Cans

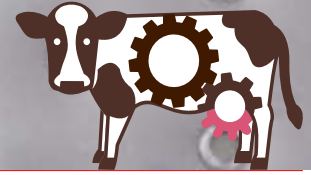
## Milk Cans & Accessories Bulk Supply

*Carrying Fresh Milk Around the World*



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

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### Chadha Alfa Aluminium Alloy Milk Can

- 1.1 Aluminium Alloy Milk Cans with Lid, 40 Litre capacity, ISI marked
- 1.2 Aluminium Alloy Milk Cans with Lid, 50 Litre capacity
- 1.3 Aluminium Alloy Milk Cans with Lid, 30 Litre capacity
- 1.4 Aluminium Alloy Milk Cans with Lid, 20 Litre capacity
- 1.5 Aluminium Alloy Milk Cans with Lid, 10 Litre capacity
- 1.7 Aluminium Alloy Milk Can lids Mushroom type



### Aluminium Alloy Milk Can with Interlocking attached lid

Rubber gasket for assured sealing and to avoid leakage. One Piece hygienic construction, Easy draining, built in durability, corrosion proof, sturdy handle.

- 1.11 Aluminium Alloy Milk Can with Interlocking attached Lid, 40 Litre capacity.
- 1.12 Aluminium Alloy Milk Can with Interlocking attached Lid, 50 Litre capacity.
- 1.13 Aluminium Alloy Milk Can with Interlocking attached Lid, 30 Litre capacity.
- 1.14 Aluminium Alloy Milk Can with Interlocking attached Lid, 20 Litre capacity.
- 1.15 Aluminium Alloy Milk Can with Interlocking attached Lid, 10 Litre capacity.
- 1.16 Rubber Gasket for above Interlocking Can



### Aluminium Bucket with two handles

- 1.17 Aluminium Bucket with two handles made from Aluminium Alloy one piece hygienic construction



### Stainless Steel Milk Cans 304 Quality

Stainless Steel Milk Cans, hygienic construction strong and sturdy body, corrosion proof and crack resistance, easy to clean well finished with mushroom type lid.

- 1.20 S. S. Milk Can with Mushroom lid 40 Litre capacity
- 1.21 S. S. Milk Can with Mushroom lid 30 Litre capacity
- 1.22 S. S. Milk Can with Mushroom lid 20 Litre capacity
- 1.22.10 S. S. Milk Can 10 Litre capacity
- 1.23 S. S. Milk Can Lid Mushroom type



### Milk Buckets of Stainless Steel with Lid Hygienic Construction

- 1.31 2 Litre Capacity
- 1.32 3 Litre Capacity
- 1.33 5 Litre Capacity
- 1.34 8 Litre Capacity
- 1.35 12 Litre Capacity
- 1.36 15 Litre Capacity



### Plastic Milk Can

- 1.41 Plastic seamless double walled Milk Cans made from virgin polyethylene in Multi-Layers construction with built in handles 40 Litre capacity
- 1.42 Insulated Plastic Milk Cans having above features but with P.U.F insulation for long distance transportation and enhancement of shelf life 40 Litre capacity



### Plastic Milk Can Lids

- 1.44 Plastic Milk Can Lid 400 Grams  $\pm$  10 Grams
- 1.44.05 Plastic Milk Can Lid 400 Grams  $\pm$  10 Grams (Superior) with marble finish
- 1.45 Plastic Milk Can Lid 500 Grams  $\pm$  10 Grams
- 1.45.05 Plastic Milk Can Lid 500 Grams  $\pm$  10 Grams (Superior) with marble finish



### Hammer

- 1.47 Can Hammer (Rubber)



### Ice Chamber

- 1.48 Ice Chamber Aluminium for milk cans

## CAN SCRUBBER

### Features :

- Brush drive motor & transmission assembly is mounted at end of the bath.
- Fitted with a proper sealing arrangement to prevent leakage from the bath.
- Bearings are adequately protected from the ingress of water and have adequate greasing points.
- The whole driving assembly is enclosed in a waterproof cover.



### Can Scrubber

- 1.50 Capacity 425 Litre S.S. 304 Immersion Bath with Nylon Brushes, All Welding joints are ground smooth. All the surfaces are polished to 150 Grits. Complete with electric motor 1 H.P., 1440 R.P.M., 3 phase, 1P55, Gear Box and Driving Chain-1.
- 1.52 Spare Brush Set for Can Scrubber (Set of 4 pieces)

### Can Washing Trough

- 1.52.10 Can Washing Trough for immersion bath for manual cleaning of milk cans.



### Can Steaming Block

- 1.53 Can Steaming Block used to rinse and sterilize inside of 40 Ltr. Milk Cans using hot water followed by live steam at 3 Kg./Sq. Cm Pressure, Manual, Foot operated.



### Can Trolley

- 1.54 Can Trolley for 20Ltr. /40 Ltr. Can hand driven, made from Mild Steel. The Wheels are made of Polymer Non Virgin Nylon as per NDDB Specification.



- 1.55 Can Trolley ordinary Desco type 40 Ltr. can.



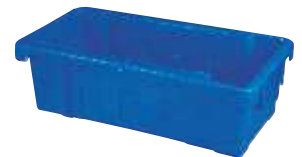
### Crate Trolley Hold 11 Crates

- 1.56 Crate Trolley to hold one stack of 11 Crates as per N.D.D.B



### Plastic Crates for Pouch

- 1.57.20 Plastic Crates for Pouches Capacity 10 Ltr.



- 1.57.21 Plastic Crates for Pouches with Partition Capacity 12 Ltr.



- 1.57.22 Plastic Crates for Pouches without Partition Capacity 12 Ltr.

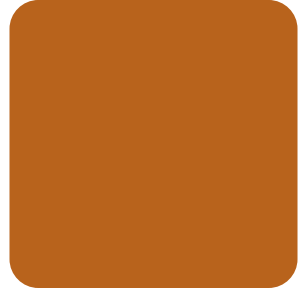
### Washing Trough

- 1.60 Washing Trough of SS 304 for Dairy washing small items manually, designed capacity approx 300 Litres with legs, drain and perforated tray.





# Lmmco



## Milk Testing Equipment Gerber Type & Accessories

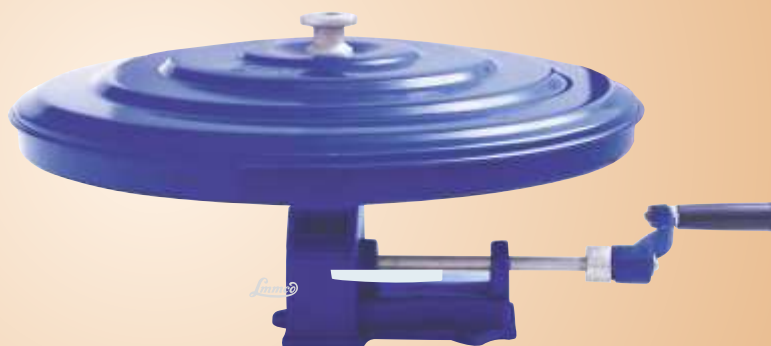


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DAIRY EQUIPMENT ENGINEERS

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### MC Series

Original *Linnco* Milk Testing Machine hand driven, solid construction, covered, strong and sturdy, perfect alignment, ball bearing smooth running pan covers made from CRCA sheets and base is MS casted, highly finished colour, special powder coated English/ International model, dynamically balanced for 8 Test, 12 Test & 24 Test



### GH Series - ISI marked

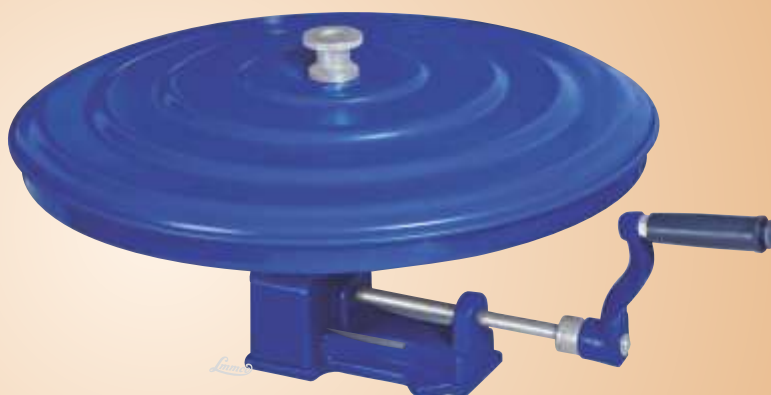
Original *Linnco* Milktesting Machine, hand driven, solid construction, cover top, strong and sturdy, perfect alignment, ball bearing, smooth running pan covers made from CRCA Sheets, base is MS casted, highly finished colour special English/Internaional Model, ISI Marked dynamically balanced for 24 Test, with extra housing cover and brake for safe operation three piece construction best quality hand operated. (As per New Amended ISI Specification)

IS:1223



### GB SeRIES

Original *Linnco* Milk Testing Machine hand driven features as MC series but with Aluminum die cast base and MS clamps to hold plastic/ aluminum tubes. Centrifuge has high finishing and smooth operation. The variants are available for 8 Test, 12 Test & 24 Test





Hand Operated Centrifuges

MC Series

- 2.1 For 8 Tests
- 2.2 For 12 Tests
- 2.3 For 24 Tests



GH Series ISI Marked

- 2.4 For 24 Tests



GC Series

Original *Linnco* Milk Testing Machine hand operated features as MC series but with heavy gear box for extra long life.

- 2.5 For 8 Tests
- 2.6 For 12 Tests
- 2.7 For 24 Tests



GB Series

Original *Linnco* Milk Testing Machine hand driven features as MC series but with Aluminum die cast base and non breakable clamp to hold plastic / aluminum holders. Centrifuge has high finishing and smooth operation.

- 2.8 For 8 Tests
- 2.9 For 12 Tests
- 2.10 For 24 Tests



Umbrella Head with Base

- 2.11 *Linnco* Umbrella Type Head with hand operated base for 8 test only.

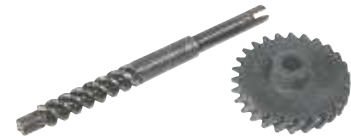


Spares

- 2.21 Umbrella type Head for 8 test (Top only) to be fitted on JT series base or 2.11



- 2.22 Vertical spindle for milk testing centrifuges (Tempered)



- 2.23 C.I. Gear for above (Tempered)

- 2.24 Handle complete with knob for 2.1 to 2.10



- 2.25 Aluminium tube holder for Butyrometers



- 2.26 Plastic tube holder for Butyrometers (Fresh Quality)



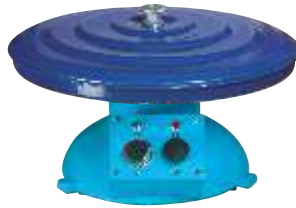




## MILK TESTING EQUIPMENT GERBER TYPE AND ACCESSORIES

### EC Series

Original *Lammco* Milk Testing Machine, Electrically Operated AC-50 Cycles, Inbuilt Motor 1/4 H.P. Attractive Indicator Lamp, Cord Plug Pin, Fitted in Heavy Cast Iron Base Pan Cover of CRCA Sheets, Colour with Plastic Clips/Metal Clips, Dynamically Balanced.



2.31 .....As above.....For 12 Tests

2.32 .....As above.....For 24 Tests

### ECT Series

As above but complete with timer, brake and reverse switch

2.33 .....As above.....For 12 Tests

2.34 .....As above.....For 24 Tests

### NOVA Centrifuges

Small Centrifuge for butyrometer with acid resistance coating, plexiglass cover, special motor, rapid braking, angle head with 0-5 minute timer, can be easily placed on laboratory table.



2.35 ..As above.....For 8 Tests

2.36 ..As above.....For 12 Tests

2.37 ..As above NSC 12 but with SS top for 12 tests

2.38 Nova Safety Multi Purpose Centrifuge having operation for 8 Gerber Test or 4x50 ml solubility Index tubes.



2.39 Nova Safety Multi Purpose Centrifuge having operation for 12 Gerber Test or 12x50 ml solubility index tubes.

2.40 Solubility Index tube for code 2.39 machine



2.40.10 Aluminium Tube Holder for Nova Centrifuge



### JT Series

Electrical Centrifuge "JANTA" MODEL having features of ECT series but with light cast base with standard pan cover economy model.



2.41 .....As above.....For 8 Test

2.42 .....As above.....For 12 Test

2.43 .....As above.....For 24 Test

2.44 Electrical Centrifuge Janta Model Base only.

2.45 Electrical Centrifuge Janta Model with Umbrella type top for 8 Test only.



### GS- 3 Series (Gini 3 Pieces)

Original *Lammco* Milk Testing Machine, electrically driven having features with extra housing cover and brake for safe operation, Three piece construction.



2.46 .....As above.....For 24 Test

2.47 .....As above .....2.46 with speed indicator

## ELECTRICAL CENTRIFUGES



### ECT Series

Original *Lammco* Milk Testing Machine, Electrically Operated AC-50 Cycles, Inbuilt Motor 1/4 H.P. Attractive Indicator Lamp, Cord Plug Pin, Fitted in Heavy Cast Iron Base, Pan Cover of CRCA Sheets, Colour with Plastic Clips/Metal Clips, Dynamically Balanced.

### NOVA Centrifuges

Small Centrifuge for butyrometer with acid resistance coating, plexiglass cover, special motor, rapid braking, angle head with 0-5 minute timer, can be easily placed on laboratory table.



### GS- 3 Series

Original *Lammco* Milk Testing Machine, electrically driven having features with extra housing cover and brake for safe operation, Three piece construction.



## Double Tested BUTYROMETERS

ORIGINAL *Lmmco* ISI Marked Double Tested



IS : 1223



### Butyrometers 'Original *Lmmco*'

- 3.2 Milk Butyrometer Corning Glass 0-10 % Flat Scale ISI *Lmmco* Marked, Silver Screen Super Grade, Acid Proof Permanent Marking.
- 3.3 Milk Butyrometer Corning Glass 0-10% Original Flat scale ISI marked Silver Screen Permanent marking, Best Quality with certificate of manufacture.
- 3.4 Milk Butyrometer Corning Glass 0-10% Flat Scale Bunty Marked, Silver Screen permanent marking.
- 3.5 Milk Butyrometer Corning Glass 0-10% Flat Scale Super Grade, Acid Proof permanent marking.
- 3.6 Milk Butyrometer Corning Glass 0-8% Flat Scale Super Grade, Acid Proof Permanent Marking.
- 3.7 Milk Butyrometer Corning Glass 0-6% Flat Scale Super Grade, Acid Proof Permanent Marking Suitable for Cow milk.
- 3.8 Milk Butyrometer Corning Glass 0-4% Flat scale permanent marking For standardized milk.
- 3.9 Cream Butyrometer Corning Glass as Per ISI Specification 0-70% Volumetric 5 ml Cream (One side open)
- 3.10 Cream Butyrometer Corning Glass as Per ISI Specification 0-70% with cup and rubber stopper weighing method 5gm cream. (Two side open)
- 3.11 Cream Butyrometer Corning Glass 0-50% volumetric. (One side open)
- 3.12 Cream Butyrometer Corning Glass 0-50% with cup & rubber stopper (Two side open)
- 3.13 Cream Butyrometer Corning Glass 50% - 70% volumetric. (One side open)
- 3.14 Cream Butyrometer Corning Glass 50% - 70% with cup & rubber Stopper. (Two side open)










## BUTYROMETERS

ORIGINAL *Lmmco* ISI Marked



- 3.15 Butter Butyrometer 0-80% Corning Glass as per ISI Specifications Volumetric (One side open)
- 3.16 Butter Butyrometer Corning Glass 0-80% with cup & rubber stopper. (Two side open)
- 3.17 Butter Butyrometer Corning Glass 0-90% with cup & rubber stopper. (Two side open)
- 3.18 Butter Butyrometer Corning Glass 0-100% with cup & rubber stopper. (Two side open) 
- 3.19 Skim Milk Butyrometer for Double Quantity 0-0.5%. (Two side open)
- 3.20 Cheese Butyrometer Corning Glass 0-40% volumetric As Per ISI specification, weighing method 3gm. with cup & rubber stopper. (Two side open)
- 3.21 Cheese Butyrometer Corning Glass 0-40% volumetric. (One side open) 
- 3.22 Milk Powder Butyrometer 0-35% Corning Glass Flat Scale Weighing System with cup & rubber stopper. (Two side open)
- 3.23 Milk Powder Butyrometer 0-35% Corning Glass Volumetric. (One side open)
- 3.24 Ice Cream Butyrometer 0-20% Volumetric. (One side open)
- 3.25 Ice Cream Butyrometer 0-20% with cup & rubber stopper. (Two side open)
- 3.26 Condensed Milk Butyrometer 0-20% Corning Glass Volumetric. (One side open)
- 3.27 Condensed Milk Butyrometer 0-20% Corning Glass with cup & rubber stopper. (Two side open)
- 3.28 Chocolate Butyrometer 0-20% Corning Glass, volumetric. (One side open)
- 3.29 Chocolate Butyrometer 0-20% Corning Glass with cup & rubber stopper. (Two side open)
- 3.29.10 Extraction Tube according to Mojonnier with stopper and flat topped Bulb. (Two side open) 



## ORIGINAL *Lumco* LOCK STOPPERS

Lock Stoppers  
'Original *Lumco*' ISI  
Marked Gerber Type  
(Brass Cap),  
workmanship  
Guaranteed, Packed in  
Box of one Dozen.



Butyrometer Water Bath (Electrical)  
Stainless Steel Basin, Infinitely Variable Temperature Control from 25°  
C to 100°C Thermostat, one Drain Cock, Complete with Rack, Cable  
with Pin Plug and ON/ OFF Switch 220 Volt/50 cycle with Cover.

- 3.30 .....As above.....for 12 Tests
- 3.31 .....As Above.....for 24 Tests



### LOCK STOPPERS 'ORIGINAL *Lumco*'

- 4.1 Lock Stoppers 'Original *Lumco*' ISI Marked Gerber Type (Brass Cap), workmanship Guaranteed, Packed in Box of one Dozen.



- 4.2 Lock Stopper Gerber Type Ginni. (Metal Cap) 100pc. pack.

- 4.3 Single conical Rubber Stopper Made of Acid Proof and soft quality.



- 4.4 Regulating Pins for Lock Stopper Aluminium Die casted.



- 4.5 Regulating Pins for Lock Stopper Plastic.



## PIPETTES 'ORIGINAL *Lumco*'

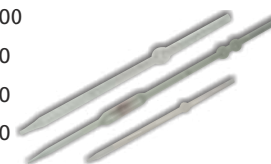


### PIPETTES 'ORIGINAL *Lumco*'

- 5.3 Milk Pipette 10.75 ml. ISI Marked made of corning glass .
- 5.4 Original *Lumco* Glass Pipette for Milk 10.75 ml Super Grade ISI Marked. Made of corning glass.
- 5.4.1 Original *Lumco* Glass Pipette for Milk 10.75 ml Superior Export Quality packed in single piece with manufacturer's certificate..



- 5.5 Cream Pipette 5 ml
- 5.6 Amyl Alcohol Pipette 1ml with One Safety Bulb
- 5.7 Acid Pipette 10 ml with Two Safety Bulbs
- 5.8 Pipette 1 ml graduated in 1/100
- 5.9 Pipette 2 ml graduated in 1/50
- 5.10 Pipette 5 ml graduated in 1/20
- 5.11 Pipette 10 ml graduated in 1/10
- 5.12 Pipette 25 ml graduated in 1/25



- 5.13 Pipette pump for easy usage





## BUTYROMETER STANDS

Available in 12 & 24 test

Butyrometer Stand cum shaking for 12 & 24 test in different attractive colours, made from polypropylene. Its hole diameter is 26.5mm.

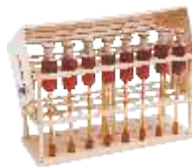


### Butyrometer Stands

6.2.10 Butyrometer Stand- Cum- Shaking for 12 Butyrometer (Plastic).



6.2.11 Butyrometer Stand-Cum- Shaking for 24 Butyrometer (Plastic).



6.2.20 Butyrometer Stand- Cum- Shaking "Folding Type" for 12 Butyrometer (Plastic) - Set of 2 Pieces

6.2.21 Butyrometer Stand- Cum- Shaking "Folding Type" for 24 Butyrometer (Plastic) - Set of 2 Pieces.



6.3.10 Butyrometer Stand- Cum- Shaking for 12 Butyrometer (Aluminium).

6.3.11 Butyrometer Stand- Cum- Shaking for 24 Butyrometer (Aluminium)



6.6.10 Butyrometer Stand- Cum- Shaking for 12 Butyrometer (Stainless Steel)

6.6.15 Butyrometer Stand- Cum- Shaking for 24 Butyrometer (Stainless)



6.8 Sample Bottle Stand (Aluminium) for 24 Bottles



6.9 Sample Bottle Stand (Aluminium) for 12 Bottles



## PIPETTE STAND (ROUND)

Made from polypropylene having capacity of holding 16/24 pippets in one time and its holes diameter is 12.5mm. It can easily disassembled for cleaning purpose.



16 Test



24 Test



## SAMPLE BOTTLE STAND

Single piece construction. Made from polypropylene having capacity of holding 12 bottles in one time and its holes diameter is 41.5mm.

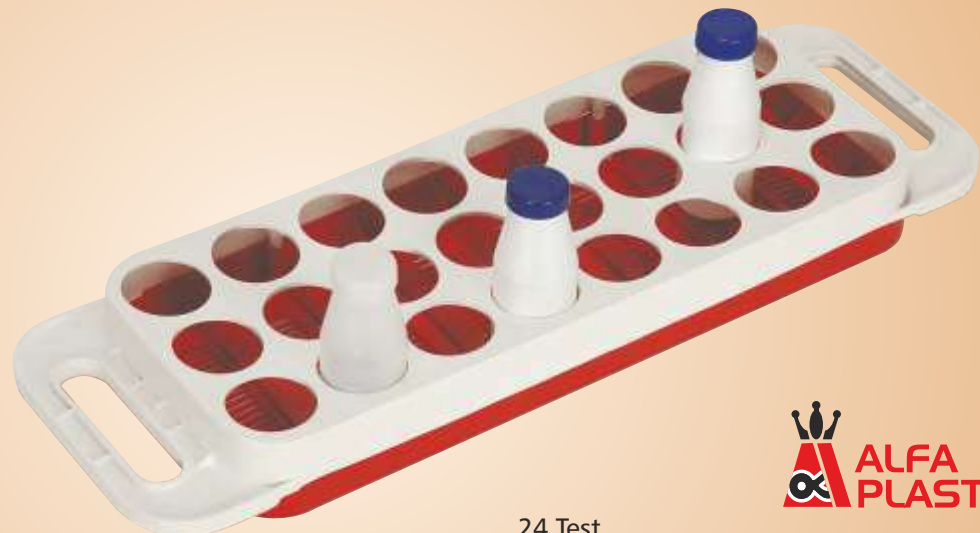


12 Test



## SAMPLE BOTTLE STAND

Two piece construction in two attractive colour. Made from polypropylene having capacity of holding 24 bottles in one time and its holes diameter is 42.5mm.



24 Test







## MILK TESTING EQUIPMENT GERBER TYPE AND ACCESSORIES

- 6.10 Sample Bottle stand plastic for 12 bottles



- 6.11 Sample Bottle stand plastic for 24 bottles



- 6.11.10 Sample Bottle stand Stainless Steel for 12 Bottles

- 6.11.11 Sample Bottle stand Stainless Steel for 24 Bottles

- 6.12 Pipette Stand Round shape for 12 Pipettes (Aluminium)

- 6.13.04 Pipette Stand (Round) for 16 Pipettes (Plastic)



- 6.13.05 Pipette Stand (Round) for 24 Pipettes (Plastic)



- 6.14 Test tube Stand 12 test Plastic



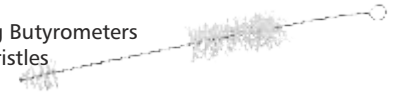
- 6.15 Test Tube Stand Stainless Steel



- 6.15.05 Test Tube Stand Aluminium

### Brushes

- 7.1.10 Brushes for cleaning Butyrometers made from nylon bristles (with thick wire).



- 7.2 Brushes for cleaning Butyrometer's scales made from nylon Bristles.

- 7.3 Brushes for cleaning Butyrometer's bodies from nylon bristles.



- 7.4 Brushes for cleaning Butyrometer having full line of nylon bristles.



- 7.5 Brushes for cleaning Milk Pipettes from nylon quality .



made  
bristles best

- 7.6 Brushes for cleaning Sample Bottle made from nylon bristles best quality.



- 7.7 Milk Bottle Brushes made of nylon bristles.



- 7.8 Test Tubes Brushes made of nylon bristles



- 7.9 Milk Can Brushes made of Jute bristles.



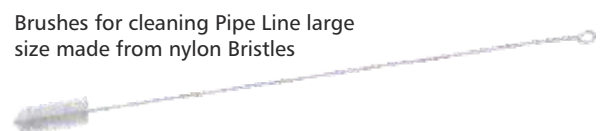
- 7.10 Milk Can Brushes made of nylon bristles.



- 7.11 Brushes for cleaning Pipe Line small size made from nylon bristles



- 7.12 Brushes for cleaning Pipe Line large size made from nylon Bristles







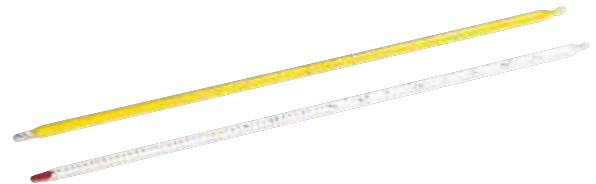
## MILK TESTING EQUIPMENT GERBER TYPE AND ACCESSORIES

### Tilt Measures

- 8.1.10 Tilt Measures 1ml for Alcohol Superior Quality with Cork No. 4 Export Quality (CORNING GLASS) suitable for narrow mouth bottle having inner dia 17 mm. 
- 8.1.09 Tilt Measures 1ml for Alcohol Superior Quality with Cork No. 9 Export Quality (CORNING GLASS) suitable for wide mouth bottle having inner dia 26 mm.
- 
- 8.1.11 Tilt Measure 10ml for Acid Superior Quality with Cork No. 4 Export Quality (CORNING GLASS) suitable for narrow mouth bottle having inner dia 17 mm. 
- 8.1.15 Tilt Measure 10ml for Acid Superior Quality with Cork No. 9 Export Quality (CORNING GLASS) suitable for wide mouth bottle having inner dia 26 mm.
- 
- 8.4.10 Tilt Measure 1ml for Alcohol with Nylon Cork No. 4 Heavy Quality (PLASTIC) suitable for narrow mouth bottle having inner dia 17 mm. 
- 8.4.09 Tilt Measure 1ml for Alcohol with Nylon Cork No. 9 Heavy Quality (PLASTIC) suitable for wide mouth bottle having inner dia 26 mm.
- 
- 8.4.11 Tilt Measure 10ml for Acid with Nylon Cork No. 4 Heavy Quality (PLASTIC) suitable for narrow mouth bottle having inner dia 17 mm. 
- 8.4.15 Tilt Measure 10ml for Acid with Nylon Cork No. 9 Heavy Quality (PLASTIC) suitable for wide mouth bottle having inner dia 26mm.
- 
- 8.7.10 Tilt Measure 1ml for Alcohol with Nylon Cork No4 (Corning Glass) suitable for narrow mouth bottle having inner dia 17mm.
- 8.7.11 Tilt Measure 1ml for Alcohol with Nylon Cork No9 (Corning Glass) suitable for wide mouth bottle having inner dia 26mm.
- 8.7.12 Tilt Measure 10ml for Acid with Nylon Cork No4 (Corning Glass) suitable for narrow mouth bottle having inner dia 17mm.
- 8.7.13 Tilt Measure 10ml for Acid with Nylon Cork No9 (Corning Glass) suitable for wide mouth bottle having inner dia 26mm.
- 
- 8.10.00 Plastic bottle for Tilt Measure for Cork No. 4 

### Dairy Thermometer

- 9.1 Dairy Thermometer 0-220°F Alcohol filled Stem Type
- 9.2 Dairy Thermometer 0-220°F Mercury filled Stem Type
- 9.3 Dairy Thermometer -10-110°C Alcohol filled Stem Type
- 9.4 Dairy Thermometer -10-110°C Mercury filled Stem Type
- 
- 9.5 Dairy Thermometer 0-220°F Alcohol Deluxe Quality
- 9.6 Dairy Thermometer 0-220°F Mercury Deluxe Quality
- 9.7 Thermometer -10-110°C Alcohol Deluxe Quality
- 9.8 Dairy Thermometer -10-110°C Mercury Deluxe Quality
- 
- 9.9 Dairy Thermometer 0-220°F Alcohol Research Quality
- 9.10 Dairy Thermometer 0-220°F Mercury Research Quality
- 9.11 Dairy Thermometer -10-110°C Alcohol Research Quality
- 9.12 Dairy Thermometer -10-110°C Mercury Research Quality



- 9.13 Dairy Floating Thermometer 0-220° F/ 0-110° C Multiple Scale , approx 11" long.



- 9.15 Thermopockets complete for PHE made of SS AISI 304 quality

- 9.16 Handy Electronic Thermometer, fast in reaction, Measuring Range -50°C to +360°C, with Stainless Steel 304 sensor.





## MILK TESTING EQUIPMENT GERBER TYPE AND ACCESSORIES

### AMYL Alcohol for Gerber Test

- 10.2 "AMYL ALCOHOL" A GRADE, 12 plastic bottles of 1 Litre packed in cardboard case (Recommended for transport).



- 10.2.10 "AMYL ALCOHOL" A GRADE, 4 Litre packed in plastic jar.



- 10.3 "AMYL ALCOHOL" A GRADE, 200 Litre in plastic barrel bulk packing
- 10.4 "AMYL ALCOHOL" B GRADE, 200 Litre in plastic barrel bulk packing
- 10.5 "AMYL ALCOHOL" C GRADE, 200 Litre in plastic barrel bulk packing
- 10.6 "AMYL ALCOHOL" C GRADE, 12 plastic bottles of 1 Litre packed in cardboard case. (Recommended for transport)

- 10.7 Anika Washing Liquid for cleaning SS Equipment packed in 1 Litre plastic bottle.
- 10.8 As above but in bulk packing of 50 Liters.



## AMYL ALCOHOL 'A Grade'

"AMYL Alcohol" 'A' Grade, 12 plastic bottles of 1 Litre packed in cardboard case (Recommend for transport).

Best for milk collection center's and Dairy laboratory.



## BRANOL REAGENT

New improved quality free from fat & furfural etc.

Commercial milk testing quality & economical price.





## MILK TESTING EQUIPMENT GERBER TYPE AND ACCESSORIES

### Sampling Appliances

- 11.1 Milk Sampling Dipper Stainless Steel 50 ml capacity
- 11.1.1 Milk Sampling Dipper Stainless Steel 50 ml capacity AISI 304
- 11.2 Milk Sampling Dipper Stainless Steel 100 ml capacity
- 11.2.1 Milk Sampling Dipper Stainless Steel 100 ml capacity ( AISI 304)
- 11.3 Tanker Dipper Stainless Steel 250 ml capacity
- 11.4 Milk Sampling Dipper Aluminium 35 ml capacity
- 11.5 Milk Sampling Dipper Aluminium 50 ml capacity



- 11.6 Milk Sampling Dipper Aluminium 100 ml capacity
- 11.7 Milk Sampling Dipper Aluminium 125 ml capacity

- 11.8 Cheese Trier Stainless Steel overall length 155mm



- 11.9 Butter Trier Stainless Steel overall length 215 mm



- 11.11 Sample Bottle Plastic with screw cap capacity 50 ml (Milky colour)
- 11.13 Sample Bottle Plastic capacity 100 ml (Natural)
- 11.13.09 Sample Bottle Plastic Superior with Blue Cap capacity 100 ml (Milky Colour)
- 11.13.10 Sample Bottle Plastic Superior with Blue sCREW tYPE cap 100 ml (Milky Colour)
- 11.14 Sample Bottle Plastic with press cap capacity 125 ml
- 11.15 Sample Bottle Plastic capacity 200 ml with screw cap
- 11.16 Sample Bottle Plastic capacity 300 ml with screw cap



- 11.17 Sample Bottle Stainless Steel 100 ml Capacity
- 11.18 Sample Bottle Stainless Steel 50 ml Capacity



- 11.19.1 SS Measure set of 1000, 500, 200 & 100 ml (AISI 304)
- 11.19.2 SS Measure of 2000 ml (AISI 304)
- 11.19.3 SS Measure of 1000 ml (AISI 304)
- 11.19.4 SS Measure of 500 ml (AISI 304)
- 11.19.5 SS Measure of 200 ml (AISI 304)
- 11.19.6 SS Measure of 100 ml (AISI 304)



- 11.24 Wash Bottle Polyethylene 250 ml.
- 11.25 Wash Bottle Polyethylene 500 ml.



- 11.26 Wash Bottle Polyethylene with inbuilt dropper 250 ml
- 11.27 Wash Bottle Polyethylene with inbuilt dropper 500 ml



## SaMPLING bOTTLES

Sample Bottles available in 50ml, 100ml, 125ml, 200ml and 300ml, made form high density plastic.





## MILK TESTING EQUIPMENT GERBER TYPE AND ACCESSORIES

### Strainer / Funnel

12.1 Milk Strainer Aluminium Anodized with Brass Mesh.

12.2 Milk Strainer Aluminium Anodized with Stainless Steel Mesh.

12.2.1 Milk Strainer Superior Aluminium Anodized with Stainless Steel Mesh.



12.3 Milk Funnel / Strainer Stainless Steel Superior made from AISI 304 quality having Top Dia: 320 mm; Bottom Dia 127 mm, Height 190 mm. approx. Weight 1 kg. as per NDDDB specification.



12.4 Spare Mesh for Above (Brass).



12.5 Spare Mesh for Above (Stainless Steel).



12.6 Spare Mesh Superior for above (Stainless Steel)

12.7 Filter Cloth Nylon.

12.7.10 Channi (Plastic)



### Milk Stirrer / Plunger

13.1 Milk Can Plunger Aluminium 36"

13.2 Milk Can Plunger Aluminium 30"

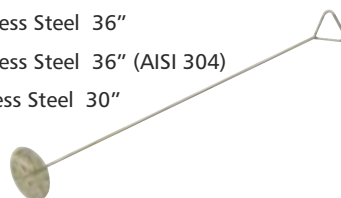


13.3 Milk Can Plunger Stainless Steel 36"

13.3.1 Milk Can Plunger Stainless Steel 36" (AISI 304)

13.4 Milk Can Plunger Stainless Steel 30"

13.4.1 Milk Can Plunger Stainless Steel 30" (AISI 304)



13.5 Milk Tanker Plunger Stainless Steel with Three Supports(SS 202).

13.5.1 Milk Tanker Plunger Stainless Steel with Three Supports(SS 304).

### Milk Collection Trays

14.1 Milk Collection Tray G.I. Sheet 600 mm x 450 mm x 65 mm.



14.2 Milk Collection Tray Stainless Steel Sheet 600 mm x 450 mm x 65 mm. AISI 304, one piece construction (approx. weight 2.0 Kg.)

14.3 Milk collection tray made from AISI 304 quality stainless steel sheet, one piece construction 600mm x 450 mm x 65 mm, Outlet of 38 mm dia pipe. (Weight 4.200Kg.)



14.4 Milk Collection Tray Superior Quality as per above specification but with additional supporting legs and lifting handles.



14.5 Milk Collection Tray stainless steel jointed.



CERTIFIED INSTRUMENTS FROM SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH, NEW DELHI.

15.1 Sri Ram Institute Tested and Certified Milk Butyrometer 0-10%

15.2 Sri Ram Institute Tested and Certified Milk Pipettes 10.75ml.

15.3 Sri Ram Institute Tested and Certified Thermometers

15.4 Sri Ram Institute Tested and Certified Lactometers





### Fat Testing Kit Gerber Method

- 16.1** Recommended Testing Kit Hand Operated consisting of fat testing Gerber
- |   |         |
|---|---------|
| Centrifuge 12 Test, hand operated -           | 1No.    |
| Milk Butyrometer ISI -                        | 20 Nos. |
| Lockstopper ISI Marked -                      | 4 Doz.  |
| Lockstopper Key -                             | 5 Nos.  |
| Milk Pipette ISI Marked -                     | 25 Nos. |
| Tilt Measure Plastic 1 ml -                   | 4 Nos.  |
| Tilt Measure Plastic 10 ml -                  | 4 Nos.  |
| Sample Bottle 100 ml. -                       | 50 Nos. |
| Butyrometer Shaking Stand 12 Test (Plastic) - | 1 No.   |
| Pipette Stand -                               | 1 No.   |
| Sample Bottle Stand 12 Test (Plastic) -       | 1 No.   |
| Butyrometer Cleaning Brush -                  | 1 Gross |
| Pipette Brush -                               | 1 Gross |
| Sample Bottle Brush -                         | 1 Gross |
| SS. Sample Dipper 100 ml -                    | 1 No.   |
| Thermometer -10-110° C Alcohol -              | 10 No.  |
| Lactometer 0-40° C Zeal Type -                | 1No.    |
| Lactometer Jar(Plastic) Small Size -          | 2Nos.   |
| Amyl Alcohol -                                | 2 litre |
| S.S. Can plunger -                            | 1 No.   |
| Wash Bottle -                                 | 1 nos.  |

- 16.2** Recommended Testing Kit for Electrical operated for 12 Test Consisting of above accessories but with electrical Testing centrifuge Nova 12 Test.

- 16.3** Recommended testing kit electrical operated for 24 Test consisting of electrical centrifuge GE 3 series 24 Test.

- 17.1** Richmond Scale for S.N.F. Calculation



### Lactometers

#### Zeal Type

- 19.2.12** *Linnco* Lactometer for milk (Zeal Type) 1.000-1.040 (0-40) @ 84°F, division 0.0005 made of Borosilicate Glass with certificate of manufacture.
- 19.2.15** *Linnco* Lactometer for milk (Zeal Type) 1.000-1.040 (0-40) @ 60°F, division 0.0005 made of Borosilicate Glass with certificate of manufacture.
- 19.7** Original Zeal Lactometer 0-40 made by G.H. Zeal England.



#### Quevene Type

- 19.9** CHD Super Lactometer for milk (quevene Type) 1.015-1.040 (15-40) @ 60°F, division 0.0005 made of Soda Glass.
- 19.13** Lactometer for milk 1.020-1.035 (20-35) @ 27°C, ISI marked made of Borosilicate Glass.
- 19.14** Lactometer 20-35 As per ISI Specification at 27°C temperature.



### Lactometer with Inbuilt Thermometer

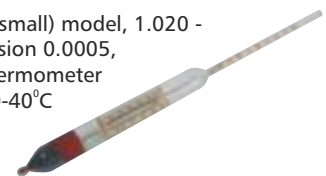
#### Lactometer with Inbuilt Thermometer (Large)

- 19.18** Lactodensimeter for Milk (large) model, 1.020 - 1.040 (20-40) @ 20°C division 0.0005, accuracy  $\pm$  0.0005 with thermometer having multiple scale i.e. 0-40°C and 30°-100° F.



#### Lactometer with Inbuilt Thermometer (small)

- 19.19** Lactodensimeter for Milk (small) model, 1.020 - 1.035 (20-35) @ 27°C division 0.0005, accuracy  $\pm$  0.0005 with thermometer having multiple scale i.e. 0-40°C and 30°-100° F.



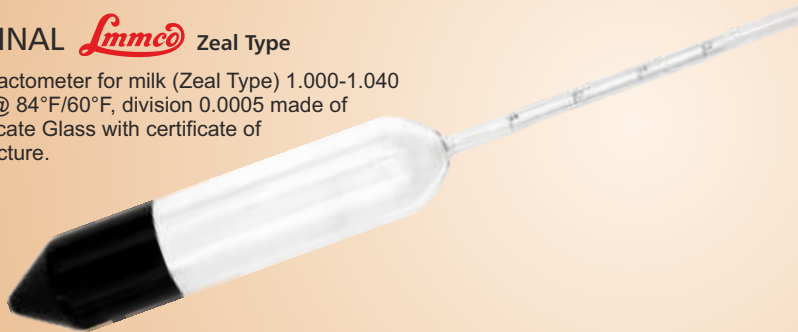
- 19.20** Lactodensimeter for Milk (small) model 1.000-1.040 (0-40) @60° F division 0.001, accuracy 0.0005

- 19.20.10** Lactodensimeter for Milk (small) model 1.000-1.040 (0-40) @84° F division 0.001, accuracy 0.0005

## LACTOMETER SUPER 0-40

ORIGINAL *Lmmco* Zeal Type

*Lmmco* Lactometer for milk (Zeal Type) 1.000-1.040 (0-40) @ 84°F/60°F, division 0.0005 made of Borosilicate Glass with certificate of manufacture.



## LACTOMETERS 20-35 Quevene Type

ORIGINAL *Lmmco* ISI Marked

*Lmmco* Lactometer for milk 1.020-1.035 (20-35) @ 27°F, division 0.0005, ISI marked made of Borosilicate Glass.



### Hydrometer

- 20.1 Hydrometer for Amyl Alcohol 0.800-0.850, division 0.001 on temperature 15° C
- 20.2 Hydrometer for Sulphuric Acid 1.800-1.850, division 0.001 on temperature 20° C

### Lactometer Jars

- 21.1 Lactometer Aluminium Jar (Big size) with round base anodized with spout & bottom for Quevene type.
- 21.2 Lactometer Aluminium Jar (Small size) for zeal type with round base anodized with spout & bottom for Zeal type.
- 21.3 Lactometer Plastic Jar (Big size) with round base and graduation upto 125ml (super quality)
- 21.4 Lactometer Plastic Jar (Small size) with round base and graduation upto 75ml (super quality)
- 21.5 Lactometer Jar Stainless Steel (Big Size) with round base with spout and bottom for Quevene type.
- 21.6 Lactometer Jar Stainless Steel (Small Size) with round base with spout and bottom for Zeal type.



## LACTOMETER JAR (Plastic)

### Big Size

This jar is transparent. Graduation on jar upto 125ml. Jar and base can easily disassembled.

### Small Size

This jar is transparent. Graduation on jar upto 75ml. Jar and base can easily disassembled.



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

137-139, Rajindra Market, Tis Hazari, Delhi-110054 (INDIA)  
Tel. : +91-11-23920100, 23922290, 23926277, 23944840  
Fax : +91-11-23914211 E-mail : info@chadhasales.com  
Web Site : www.chadhasales.com. www.dairyequipmentonline.com

# MASTER SMART IMPACT



## Milk Analyzers



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

[www.chadhasales.com](http://www.chadhasales.com)



# Electronic Milk Fat Tester

The electronic milk tester test the milk by use of light scattering techniques for determination of fat contents in milk. This is possible through Photometric Analysis, include improved analytical repeatability, greater speed, easier sample preparation. Still the operating cost is approx. 1/10th Gerber Method.



- ★ Auto Zero
- ★ Microprocessor Controlled Electronics
- ★ Inbuilt Automatic Battery Charger

## SPECIFICATION

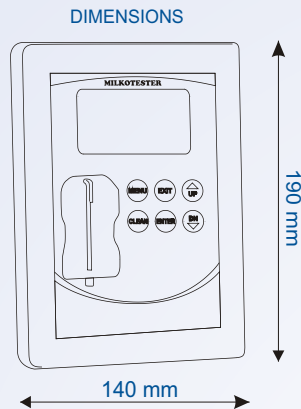
Sample Volume	0.5 ml / test
Diluent Volume	6.5 ml / test
Power Supply	AC: 220-240V, Max. +10% Min. -15% DC : 12V Car battery, A fully charged 120 Amp/hr. battery will last for at least 10 hours operation.
Amb. Temperature	5°C - 45°C
Dimension Packed	(L x B x H) 70 x 42 x 44 Cm.
Net Weight	16.3 Kg.
Gross Weight	19.5 Kg.

## FEATURES

Measuring range	0-13%
Speed	120-150 Sample per hour (approx)
Accuracy	1-5% fat : 0.06% 5-8% fat : 0.10% 8-13% fat : 0.20%
Repeatability	1-5% fat : 0.03% 5-8% fat : 0.04% 8-13% fat : 0.08%
Calibration	Single Channel

# Milk analyzer Master Eko

For cost effective analysis of milk  
Master Milk Analyzer form Bulgaria (Europe)



- Ultrasonic Technology
  - Portable Design
  - Peristaltic Pump
- Large Graphic Display
- Low power consumption
- Very small quantity of milk
  - Required for testing
- ESC POS Printer Support
- No acid or chemicals are used
  - Clock (Time & Date)
  - One year full warranty

## Features of Milk Analyzer

- Compact design with robust structure
- Water resistant keyboard
- User-friendly interface
- Autocalibration (No PC required)
- Serial port RS232 to computer or printer
- 12V - 15V input for use in car
- 12V out for printer
- Analysis of 3 types of milk (defined by user)
- Speed - 90 sec.
- No thermal or mechanical treatment of the sample before analysis
- No use of chemical reagents
- Sample volume: 20 cm<sup>3</sup>
- Work conditions : temperature from 7 ° to 40 °C, Relative Humidity from 30% to 80%
- AC Power supply: 90V - 250VAC / DC Power Supply Voltage: 12V to 14.2V
- Power Consumption: 50W maximum
- Dimensions (W x D x H) 180x140x50 mm
- Weight - 1 kg.

## Master ECO RS 232

- With a serial port
- Possibility to connect to PC
- Possibility to connect to printer ROS



## Master ECO USB

- With a USB port
- Possibility to connect to PC
- Low operating and USB suspend current
- Low USB bandwidth consumption.
- USB 2.0 Full Speed compatible



## Master ECO Bluetooth

First milk analyzer with integrated Bluetooth communication system.

- With Bluetooth
- Easily transfer data to your PC
- Transmit Power - Max. 18dBm
- Receiving Sensitivity - 90dBm
- Built-in antenna
- Working distance (in an open field) : Nom. 100 meters



KIT : Milk Analyzer, Power Supply Cable 220V, Power Supply Adapter, Serial Cable to PC, Sample Cup 4 Pcs., Cleaning Concentrate, User's Manual, CD with Software

TECHNICAL OVERVIEW		Measured Components	Ranges	Accuracy
Sample Volume	10 ml.	Fat	0% to 25%	±0.01%
Sample Speed	45-60 sec.	Solids-Non-Fat (SNF)	3% to 15%	±0.15%
Sample Temperature	5 - 40°C	Density	1015 to 1160 kg/m <sup>3</sup>	±0.3kg/m <sup>3</sup>
Humidity	0 - 80% RH	Protein	2% to 7%	±0.15%
Database Processing	RS 232 port	Lactose	0.01% to 6%	±0.2%
AC Power Supply	95 - 250V	Solids	0.4% to 1.5 %	±0.05%
DC Power Supply	12V	Added Water	0% to 70 %	±3%
Dimensions (mm)	190/140/120	Freezing Point	-0.4°C to -0.7°C	±0.002°C
		Sample Temperature	5°C to 40°C	±1°C

# MILK ANALYZER

For cost effective analysis of milk

- Low power consumption
- Very small quantity of milk required for testing
- No acid or chemicals are used
- One year full warranty

Available  
in  
3 Models



## Master Clasic LM2

(for analyses of Fat, SNF, Density, Protein, Lactose, Solids, Added water, Freezing point, Sample temperature)

## Master Clasic LM2 pH

(for analyses of All parameters of Master ClasicLM2 & pH)

### Features of Milk Analyzer

- Stainless steel case
- Compact design with robust structure
- Water resistant keyboard
- User-friendly interface
- Autocalibration (No PC required)
- Serial port RS232 to computer connect
- Serial port RS232 to printer connect
- 12V - 15V input for use in car
- 12V out for printer
- Analysis of 3 types of milk (defined by user)
- Speed - 60 / 30sec.
- No thermal or mechanical treatment of the sample before analysis
- No use of chemical reagents
- Sample volume: 20 cm<sup>3</sup>
- Work conditions : temperature from 5 ° to 40 °C, Relative Humidity from 30% to 80%
- AC Power supply: 90V - 250VAC / DC Power Supply Voltage: 12V to 14.2V
- Power Consumption: 50W maximum
- Dimensions (W x D x H) 110x260x205 mm
- Weight - 3.1 kg.

Measured Components	Ranges	Accuracy
FAT	0.01% to 20.00%	±0.07%
SNF	3% to 40%	±0.12%
Density	1000 to 1150 kg/m	±0.3kg/m
Protein	2.00% to 7.00%	±0.1%
Lactose	0.01% to 20%	±0.1%
Added water	0% to 70 %	±3%
Freezing point	-0.4°C to -0.7°C	±0.005°C
Sample temperature	1°C to 40°C	±1°C
pH	0 to 14	±0.05
Conductivity	from 2 to 14 [mS/cm]	0.1

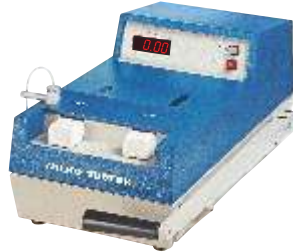




## ELECTRONIC MILK ANALYSER

### Electronic Milk Fat Tester

- 22.1 Electronic Milk Fat Tester  
Manufactured at highly equipped plant with latest available technology as per NDDDB specification instant read out, amazing speed of 130-150 Tests/ Hrs., Easy operating cost measuring up to 13% fat with accurate results and repeat ability.



### Ultrasonic Stirrer

- 22.12.55 Frequency control.  
Timer control.  
Solid / Robust construction.  
Work on 12v. battery also.



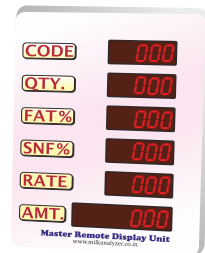
### Milk Analyzers Master ECO

- 22.11.06 Milk Analyzer Master ECO  
This is for analysis of Fat, SNF, Density, Protein, Lactose, Solids, Added water, Freezing point, Sample temperature in a sample of whole freshly drawn milk or Preserved milk. Must for dairy Laboratory and milk collection centers.



### Remote Display Unit (R.D.U)

- 22.12.55 High quality plastic rust proof case.  
Bright red display.  
Clear visible digit from long distance.  
With compatible connection port.  
Display Code, Qty., Fat, SNF, Rate & Amount.  
Can be connected to Data Processor or Computer directly.



### Milk Analyzers Mater Classic

- 22.12.15 Milk Analyzer Master Classic LM2 This is for analysis of Fat, SNF, Density, Protein, Lactose, Solids, Added water, Freezing point, Sample temperature in a sample of whole freshly drawn milk or Preserved milk. Must for dairy Laboratory and milk collection centers.



Choice of the independent channels is available. Factory settings have been made for Cow, Buffalo and Mixed Milk before despatch. For Sheep, Goat or U.H.T Milk pre-calibration from factory can also be done on request.

- 22.12.20 Milk Analyzer Master Classic LM2 pH  
It analysis all parameters of Master Classic LM2 & pH also. This is for analysis of Fat, SNF, Density, Protein, Lactose, Solids, Added water, Freezing point, Sample temperature & pH in a sample of whole freshly drawn milk or Preserved milk. Must for dairy Laboratory and milk collection centers.

Choice of the independent channels is available. Factory settings have been made for Cow, Buffalo and Mixed Milk before despatch. For Sheep, Goat or U.H.T Milk pre-calibration from factory can also be done on request.



### Printer

- 22.12.40 2" inch Paper width with thermal printing.  
Realtime clock for date time printing support.  
Set point for HI, LO, OK checks and quality control.  
Label Paper Auto Positioning.  
Support Parallel, Serial, USB interfaces.



### Data Processing Unit (DPU)

- 22.12.50 Compact & Durable.  
High storage capacity & speed.  
Water resistance keyboard.  
Available in options for DMP Printer, Thermal Printer, USB and GSM.



### Accessories For Milk Analyzer Master

- 22.12.25 Master Daily Cleaning Powder  
Alkline Powder product with QAC for combined cleaning and disinfecting of all types milk. The product very effectively removes milk stone and hard water deposits thus improving hygienic status of milk analyzer.



- 22.12.30 Master Weekly Cleaning Powder  
Low foaming powder product for acidic cleaning of all types milk. The product very effectively removes milk stone and hard water deposits thus improving hygienic status of milk analyzer.



# Intelligent Milk Procurement and Reporting Terminal



We have made considerable efforts to understand requirements of Milk Chilling Centers for various Dairy Federations, Cooperatives & private dairies at village level & have introduced an Economic viable and practical solution "IMPART". We have succeeded in overcoming the challenges which are faced by milk collection centers by putting up easy and Rugged Solutions by delivering a clear value proposition, simple operations and quality support.

## Features :

- Simple & Economical Solution
- Full Parameter Display consisting of - Fat, SNF, Added Water, Density, Protein and Lactose.
- Fully functional Keyboard for easy entry.
- Fully integrated Remote Display unit
- Fully integrated Auto and manual rate chart as per MCC'S Requirements
- 500 members data base
- 6000 transaction memory
- Manual override transaction facility provision
- Printing Facility for MCC'S Reports such as - Milk Bill, Shift Report, Ledger reporting, Member List, Rate Chart report etc
- Dynamic Reporting with average FAT, SNF, RATE and VALUE
- Dynamic reporting for Single member, multiple members and all members with date range selection



Optional:100kg



Optional:200kg

## Impart Solution Consist of:

- 1 Master Milk analyzer
- 2 Master Ultrasonic Stirrer
- 3 Master Impart Data Processor
- 4 Master Remote Display Unit (RDU)
- 5 Smart Weighing Scale with KG/Liter conversion facility
- 6 Printer
- 7 Key Board

Also available in  
USB option,  
GSM option,  
GPRS and  
Solar Panel



# Intelligent Milk Procurement and Reporting Terminal



We have made considerable efforts to understand requirements of Milk Chilling Centers for various Dairy Federations, Cooperatives & private dairies at village level & have introduced an Economic viable and practical solution "IMPART". We have succeeded in overcoming the challenges which are faced by milk collection centers by putting up easy and Rugged Solutions by delivering a clear value proposition, simple operations and quality support.



Optional:100kg



Optional:200kg


## Features :

- Simple & Economical Solution
- Full Parameter Display consisting of - Fat, SNF, Added Water, Density, Protein and Lactose.
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- Printing Facility for MCC'S Reports such as - Milk Bill, Shift Report, Ledger reporting, Member List, Rate Chart report etc
- Dynamic Reporting with average FAT, SNF, RATE and VALUE
- Dynamic reporting for Single member, multiple members and all members with date range selection

## Impart Solution Consist of:

- 1 Master Milk analyzer
- 2 Master Ultrasonic Stirrer
- 3 Master Impart Data Processor with Printer
- 4 Master Remote Display Unit (RDU)
- 5 Smart Weighing Scale with KG/Liter conversion facility
- 6 Key Board

## Optional:

-  Data Processor with USB Port for Data Transfer



# Intelligent Milk Procurement and Reporting Terminal



We have made considerable efforts to understand requirements of Milk Chilling Centers for various Dairy Federations, Cooperatives & private dairies at village level & have introduced an Economic viable and practical solution "IMPART-AMCU". We have succeeded in overcoming the challenges which are faced by milk collection centers by putting up easy and Rugged Solutions by delivering a clear value proposition, simple operations and quality support.



**Features :**

- Simple & Economical Solution
- Full Parameter Display consisting of - Fat, SNF, Added Water, Density, Protein and Lactose.
- Fully functional Keyboard for easy entry.
- Fully integrated Remote Display unit
- Fully integrated Auto and manual rate chart as per MCC'S Requirements
- Manual override transaction facility provision
- Printing Facility for MCC'S Reports such as - Milk Bill, Shift Report, Ledger reporting, Member List, Rate Chart report etc
- Dynamic Reporting with average FAT, SNF, RATE and VALUE
- Dynamic reporting for Single member, multiple members and all members with date range selection
- Upload with latest Master Software for milk collection.
- Latest computer with 3 serial ports.



Optional:100kg



Optional:200kg

Impart-AMCU Solution Consist of:

- 1 Master Milk analyzer
- 2 Master Ultrasonic Stirrer
- 3 UPS with Battery
- 4 Master Remote Display Unit (RDU)
- 5 Smart Weighing Scale with KG/Liter conversion facility
- 6 Monitor
- 7 CPU
- 8 AMCU Software
- 9 Printer
- 10 Key Board



**Master Impart DMP - Online D.P.M.C.U. Set**

22.13.21 Master Impart DMP - Online D.P.M.C.U. - 40. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit, keyboard, DMP printer, remote display unit and weighing scale 40 kg.



22.13.22 Master Impart DMP - Online D.P.M.C.U. - 100. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit, keyboard, DMP printer, remote display unit and weighing scale 100 kg.



22.13.23 Master Impart DMP - Online D.P.M.C.U. - 200. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit, keyboard, DMP printer, remote display unit and weighing scale 200 kg.



**Master Impart DMP with UPS - Online D.P.M.C.U. Set**

22.13.21 Master Impart DMP - Online D.P.M.C.U. - 40. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit, keyboard, DMP printer, remote display unit, weighing scale 40 kg, UPS and Battery.



22.13.22 Master Impart DMP - Online D.P.M.C.U. - 100. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit, keyboard, DMP printer, remote display unit, weighing scale 100 kg, UPS and Battery.



22.13.23 Master Impart DMP - Online D.P.M.C.U. - 200. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit, keyboard, DMP printer, remote display unit, weighing scale 200 kg, UPS and Battery.



**Master Impart Thermal DPMCU Set**

22.13.21 Master Impart Thermal- D.P.M.C.U. - 40. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit with inbuilt thermal printer, keyboard, remote display unit and weighing scale 40 kg..



22.13.22 Master Impart Thermal- D.P.M.C.U. - 100. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit with inbuilt thermal printer, keyboard, remote display unit and weighing scale 100 kg.



22.13.23 Master Impart Thermal- D.P.M.C.U. - 200. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit with inbuilt thermal printer, keyboard, remote display unit and weighing scale 200 kg.



**Master Impart Thermal DPMCU Set (Battery Operated)**

22.13.21 Master Impart Thermal- D.P.M.C.U.-40. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit with inbuilt thermal printer, keyboard, battery with charger, remote display unit and weighing scale 40 kg.



22.13.22 Master Impart Thermal- D.P.M.C.U. - 100 Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit with inbuilt thermal printer, keyboard, battery with charger, remote display unit and weighing scale 100 kg.



22.13.23 Master Impart Thermal- D.P.M.C.U. - 200. Consists Milk Analyzer LM-2, ultrasonic stirrer, data processing unit with inbuilt thermal printer, keyboard, battery with charger, remote display unit and weighing scale 200 kg.





## ELECTRONIC MILK ANALYSER

### Optional features for above DPMCU

- 22.13.21** Optional feature of USB connection for data uploading and downloading from the data processor.



- 22.13.22** Optional feature with GSM/GPRS for remote data uploading and downloading from data processor. It can provide multiple reports also through e-mail and sms.



- 22.13.21** Optional Solar Panel with controller suitable for running the system through solar energy.



- 22.11.02** Impart AMCU-200 - Automatic Milk collection unit consisting of Milk Analyzer LM-2, ultrasonic stirrer, Computer System, DMP printer, UPS, battery, remote display unit and weighing scale 200 kg.



- 22.13.21** Optional Solar Panel with controller suitable for running the system through solar energy. Specially designed for Impart AMCU.



### Impart AMCU - COMPUTER BASED

- 22.11.00** Impart AMCU-40 - Automatic Milk collection unit consisting of Milk Analyzer LM-2, ultrasonic stirrer, Computer System, DMP printer, UPS, battery, remote display unit and weighing scale 40 kg.



- 22.11.01** Impart AMCU-100 - Automatic Milk collection unit consisting of Milk Analyzer LM-2, ultrasonic stirrer, Computer System, DMP printer, UPS, battery, remote display unit and weighing scale 100 kg.



### Software for Milk Collection Centers

- 22.11.00** Master Soft Smart Version - A highly reliable software for milk collection centers. It will have Masters such as : Dairy Master, Milk Man Master, Fat CLR Wise Rate, Fat Wise Rate, Fat SNF Wise Rate, Rate Import Fat Wise, Rate Import Fat SNF Wise, Member Wise Rate, Rate Mapping, Setup.

The Software will assist in the following activity such as : Milk Collection, Payment to Milk Man, Payment to Milk Man (Auto), Buyer Master, Deduction Setup, Payment from Buyer.

Master Soft Smart Version will provide following reports : Milk Man Bill, Daily Milk Collection List, Milk Collection Receipts Statement, Milk Dispatch, Milk Dispatch with Ghee and Powder, Payment Sheet Date wise, Milk Man Ledger, Buyer Ledger, Milk Stock, Daily Profit and Loss Statement, All Milk Man Ledger Consolidate, Rate Chart, Sift Summary, Member List.



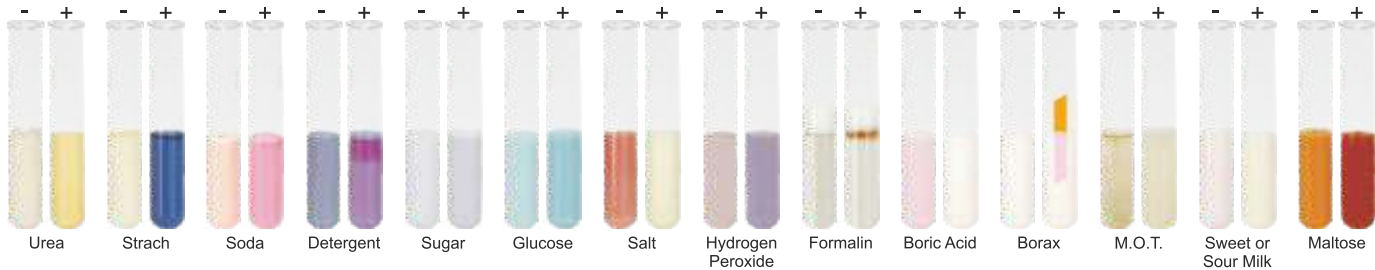




## ADULTERATION TESTING & OTHER KITS

### DETECTION OF ADDITIVES IN MILK (FOR LABORATORY USE ONLY)

www.chadasales.com



#### Adulteration Testing Kit

**22.50** Small Adulteration Testing Kit  
This kit is for detection of Urea, Starch, Neutralizer and Detergent checks. This kit can test five samples of each type.



**22.51** Large Adulteration Testing Kit  
This is a stand alone instant check adulteration testing kit having latest test, recently developed for detection of 14 adulterants as Below.

1. Urea Detection
2. Starch Detection
3. Soda Detection
4. Detergent Detection
5. Sugar Detection
6. Glucose Detection
7. Salt Detection
8. Hydrogen peroxide Detection
9. Formalin Detection
10. Boric Acid Detection
11. Borax Detection
12. M.O.T. Detection
13. Sweet or Sour Milk Detection
14. Maltose Detection



**22.52** Synthetic Milk Testing Kit  
Kit for detection of soda, Starch, salt and Urea. This kit have 50 ml standard solution bottles of each test.

**22.53** Ghee Adulteration Testing Kit  
This Kit is consisting of Vegetable oil Test for Ghee and Starch Test fo Ghee.

Spare Refill pack for various Adulterant Detection Solution available in 500 ml pack.

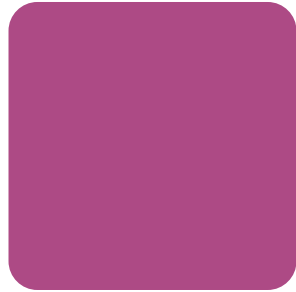
- 22.54.1 Urea Detection Solution 500 ml Bottle
- 22.54.2 Starch Detection Solution 500 ml Bottle
- 22.54.3 Soda Detection Solution 500 ml Bottle
- 22.54.4 Detergent Detection Solution 500 ml Bottle
- 22.54.5 Sugar Detection Solution 500 ml Bottle
- 22.54.6 Glucose Detection Solution 500 ml Bottle
- 22.54.7 Hydrogen peroxide Detection Solution 500 ml Bottle

- 22.54.8 Boric Acid Detection Solution 500 ml Bottle
- 22.54.9 M.O.T. Detection Solution 500 ml Bottle
- 22.54.10 Sweet or Sour Milk Detection Solution 500 ml Bottle
- 22.54.11 Maltose Detection Solution 500 ml Bottle
- 22.54.12 Formalin Detection 500 ml Bottle
- 22.54.13 Borax Detection Strip Standard Pack
- 22.54.14 Salt Detection Solution 500 ml Bottle

#### Testing Kit

- 22.55 Acidity Testing Kit
- 22.56 R.M. Value Apparatus
- 22.57 Milk Pasteurization Testing Kit
- 22.58 M.B.R. Testing Kit
- 22.59 Protein Testing Kit
- 22.60 Instant Milk Stability Testing Kit
- 22.61 PH testing kit
- 22.62 Water Chloride Testing Kit
- 22.63 Water Hardness/Softness Tester
- 22.64 Antibiotic Testing Kit
- 22.65 California Mastitis Test Kit





# Laboratory Equipments



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

[www.chadhasales.com](http://www.chadhasales.com)



Laboratory Instruments

23.2 Sediment Tester Bench Mounting Hinch Aluminium Bottle Cap 400 ml, Filtering Surface Dia 18 mm ,Gerber Type, Discharge Tube with filters.

23.3 Sedimentation Disc 28 mm (100 Pcs. Set)



23.4 Acidity Gun of Stainless Steel Double Pipe



Autoclave (Vertical)

Inner Chamber of S.S., Head made of M.S./S.S. lined. Provided with pressure guage, radial locking system, safety device and S.S. basket, Water Level Indicator, Maximum pressure up to - 20 PSI. Complete with plug in cord. 220V A.C.

23.5 20" X 12"

23.5.1 22" X 14"

23.5.2 24" X 18"

23.5.3 30" X 22"

As above but with S.S. Outer

23.5.4 20" X 12"

23.5.5 22" X 14"

23.5.6 24" X 18"

23.5.7 30" X 22"



Autoclave (Horizontal)

As above but in horizontal shape mounted on tubular stand with S.S. Boiler.

23.5.8 20" X 12" (36 Ltr)

23.5.9 22" X 14" (50 Ltr)

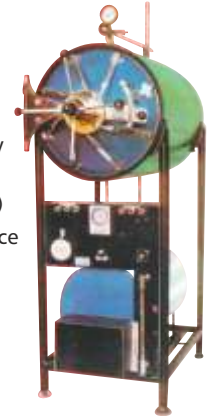
23.5.10 24" X 18" (98 Ltr)

23.5.11 30" X 22" (152 Ltr)

23.5.12 44" X 16" (200 Ltr)

for above Autoclave additional facility at an extra cost available.

- Pressure control switch (Automatic)
- Automatic Water Level Cut off device
- Timer-0-60 minute
- Dial Thermometer
- Digital Temperature display
- Automatic Temperature Recording System



Water Bath Rectangular (Single Walled)

Electrically operated chamber made of S.S. fitted with immersion heaters, Temperature range up to 100 C having 75 mm holes and concentric ring with two nozzles for water level arrangement and lead etc.

23.6.0

300 X 250 X 100 mm (6 holes of 3" dia)

23.6.1

300 X 300 X 100 mm (9 holes of 3" dia)

23.6.2

350 X 400 X 100 mm (12 holes of 3" dia)

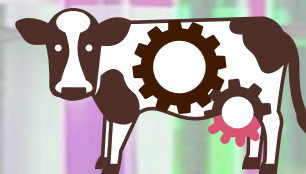


ACIDITY GUN



Acidity Gun of Stainless Steel Double Pipe





**Water Bath Rectangular (Double walled)**

Inner chamber made of S.S., outer made of M.S. dully painted with enamel top have 75 mm holes with concentric rings temperature up to 95° C. Accuracy 1° C  
Thermostatically controlled, fitted with neon lamps, indicator main switch and workable on 220 volts 50 Hz AC.

- 23.6.3 300 X 250 X 100 mm  
(6 holes of 3" dia)
- 23.6.4 300 X 300 X 100 mm  
(9 holes of 3" dia)
- 23.6.5 350 X 400 X 100 mm  
(12 holes of 3" dia)



**Serological Water Bath (without racks and thermometer)**

Double walled, thermostatically controlled inside made of S.S. Outer made of M.S. dully painted with enamel paint, glass wool insulation. Temp range 5° C above room temperature up to 90° C with an Accuracy 1° C. Doom type cover is provided at the top with perforated shelf inside the chamber 220 Volt 50 Hz A.C.

- 23.6.6 300 X 250 X 175 mm
- 23.6.7 325 X 300 X 175 mm
- 23.6.8 450 X 300 X 175 mm
- 23.6.9 600 X 300 X 175 mm



**Water Bath High Precision Thermostatic (with stirrer)**

Double walled, Inner Chamber made of S.S. outer chamber made of M.S. dully painted with enamel paint, Glass wool insulation, digital electronic temperature indicator cum Controller, having range from 5°C above room temperature 200° C Accuracy 0.1° C continuous stirring arrangement front glass window on one side with main Lead extra 220 Volts 50 Hz. A.C. Size of inner chamber will be:

- 23.6.10 430 X 240 X 265 mm
- 23.6.11 280 X 360 X 380 mm



**Oven (Universal Mermert Type Double Walled)**

Outer Chamber made of M.S. dully printed with enamel painting, glass wool insulation, inner wall made of S.S., heating elements placed in ribs of the bottom and sides. Temperature range 5° C Above Ambient temp. to 250° C. Air Ventilator adjustable filled on both sides Provided with 'L' shape thermometer, thermostatically controlled accuracy of 1° C fitted with main switch, Pilot Lamp, temperature controlling knob. perforated shelf, 220 Volt 50 Hz. A.C. available in following sizes in inner chamber.

- 23.7.0 300 X 300 X 300 mm
  - 23.7.1 350 X 350 X 350 mm
  - 23.7.2 450 X 450 X 450 mm
  - 23.7.3 450 X 600 X 600 mm
  - 23.7.4 600 X 600 X 600 mm
  - 23.7.5 600 X 900 X 600 mm
- Additional facilities at extra cost  
- Air Circulating Fan  
- Digital Temperature Indicator



**Oven**

High temperature delux model specification as above but having temperature range from 10° C above ambient temp to 350° C with An accuracy of 2° C, 220/230 Volts 50 Hz. A.C., available in following size of inner chamber

- 23.7.6 300 X 300 X 300 mm
- 23.7.7 350 X 350 X 350 mm
- 23.7.8 450 X 450 X 450 mm
- 23.7.9 600 X 600 X 600 mm



**23.7.10 Industrial Drying Oven Double**

walled construction on heavy iron angle inner chamber made of mild steel painted with temperature. Resistant paint and outer finished with hammertone paint, insulation is done by glass wool. Temp. range 50° C to 250° C controlled by thermostat with an accuracy of 5° C, Air circulation is provided by heavy duty blower with ON/OFF switch indicator ventilators are provided on the top of Oven. Supplied with complete accessories but without trays.

**B.O.D. Incubator (Automatic)**

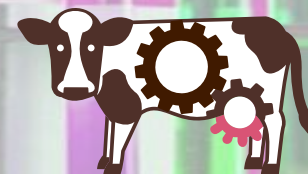
It is specially designed for incubation of Biochemical Oxygen demand on water and sewage, this can be used as environmental study and growth chamber by incorporating lighting and humidification system. Triple walled inside anodized Aluminium/S.Steel outside mild steel fitted with air circulating fans. Full view inner glass door with magnetic gasket allows inspection of samples without disturbing the temp. Of cabinet. Range 5° C to 60° C with an accuracy of 0.5° C by Digital Temperature Indicator cum Controller, Refrigeration is done by cooling coils and heating by air Heaters. Control panel has separate heating and cooling indicator lamps, temperature set allows the user to select any desired temperature voltmeter is provided at the panel to check the incoming voltage.



- | Capacity          | Usable space       |
|-------------------|--------------------|
| 23.8.0 4 cu.ft.   | 610 X 450 X 410 mm |
| 23.8.1 6 cu. ft.  | 845 X 500 X 400 mm |
| 23.8.2 10 cu. ft. | 870 X 570 X 560 mm |
| 23.8.3 12 cu. ft. | 900 X 650 X 570 mm |
| 23.8.4 15 cu. ft. | 700 X 900 X 650 mm |

Additional facilities at an extra cost:-

- a) Lighting system by interior illumination with 3 fluorescent tubes of 60 cm. (20 Watts) placed vertically along back wall.
- b) Timer with reverse 0-24 hours for regulating hours of light and darkness including fitting at the top of incubator.
- c) For incubation in CO<sub>2</sub> air mixtures provided with nozzle fitted at the side of control panel for admitting CO<sub>2</sub> or CO<sub>2</sub> air mixture chamber.
- d) Humidity Control & Humidification System
- e) Slow Speed Shaking Platform
- f) Voltage Stabilizer



Temperature Cabinet Vertical (Deep Freezer)

Low Temperature Cabinet Vertical (Deep Freezer) Double walled inside S.S. outside M.S. painted. Full view inner glass door with magnetic gasket. Temperature controlled by Digital Electronic Temperature Indicator cum Controller with an accuracy of 1° C. Refrigeration is done by hermetically sealed compressor fitted with cooling coils having uniform distribution in the chamber. Complete with all accessories workable on 220 Volts AC supply.



	Capacity	Capacity Approx.
23.9.0	4 cu. ft.	110 Lt.
23.9.1	6 cu. ft.	170 Lt.
23.9.2	10 cu. ft.	285 Lt.

Low Temperature Cabinet Horizontal (Deep Freezer)

Horizontal type, Chest opening, chamber made of S.S., Temp range up to 20° C. Capacity.

Capacity Approximately



23.9.11	4 cu. ft.	110 Lt.
23.9.12	6 Cu. ft.	170 Lt.
23.9.13	10 cu. ft.	285 Lt.

Water Still Automatic Wall Type (With Condenser Opening System)

Made of heavy gauge Stainless Steel inside and outside S.S. polished with immersion heater. The still provides continuous supply of pyrogen free distilled water and is equipped with brackets for wall mounting plug, cord and connector.



23.10.0	Output per hour 2 Lt. 2 KW 220 Volts AC
23.10.1	Output per hour 4 Lt. 4 KW 220 Volts AC
23.10.2	Output per hour 6 Lt. 6 KW 200 Volts AC

Laboratory Round Heating Plate (with Cast Iron Top)

23.11.0 Rectangular one piece fitted is made of PCRC sheet and painted with attractive enamel paint. The top of the plate is 7½" Dia 1500 watts provided with Energy Regulator to control the temperature as per customer's requirements to work on 220 Volts AC.



Heating Mantles (Fitted with Energy Regulators)

These mantles are made of each size to provide uniform heating. Bigger sizes of mantles have two or three heating circuits so that upper circuits could be switched off when smaller sizes flask is being heated or when liquid level is dropped. Electric heating net is hand knitted form glass yarn to attain temperature up to 400 C. The body of the mantle is one piece from nonrusting Aluminium up to 5 Lt. Capacity and these are lagged with special created mineral wool provided with ON/OFF switch and pilot lamp workable on 230/220 volts AC.

	Single	Watts	Circuits
23.12.0	100 ml	60	1
23.12.1	250 ml	150	1
23.12.2	500 ml	200	1
23.12.3	1 Lt.	300	1
23.12.4	2 Lt.	450	1
23.12.5	3 Lt.	450	1
23.12.6	5 Lt.	600	1
23.12.7	10 Lt.	2x500	2
23.12.8	20 Lt.	3x600	3
23.12.9	100 Lt.	6x900	6
23.12.10	200 Lt.	9x900	9



KJELDHAL Distillation Unit (Without Glass Parts & Clamps)

This is useful for distillation purpose for 300, 500 or 800 ml. flask to work on 220/230 Volts AC.

- 23.13.1 Unit of 3 test Mantle type with 3 energy regulators + 3 Pilot lamps.
- 23.13.2 Unit of 6 test Mantle type with 6 energy regulators + 6 Pilot lamps.

KJELDHAL Digestion Unit (Without Glass Parts)

It is very useful for digestion purpose for 300, 500 or 800 ml. flasks. Provided with (1)Fume Duct (2)Steel Stand (3)Pair of hangers to work on 220/230 Volts AC.

- 23.13.11 Unit of 3 test Mantle type with 3 energy regulators + 3 Pilot lamps.
- 23.13.12 Unit of 6 test Mantle type with 6 energy regulators + 6 Pilot lamps.



KJELDHAL Distillation & Digestion Combined Unit (Without Glass Parts & Clamps)

Supplied with (1)Two heating boxes (2)Brass Condenser Rack (3)Tubular stand (4)Fume duct (5)Pair of Hangers to work on 220/230 Volts AC.

- 23.13.21 Unit of 3 test Mantle type with 3 energy regulators + 3 Pilot lamps.
- 23.13.22 Unit of 6 test Mantle type with 6 energy regulators + 6 Pilot lamps

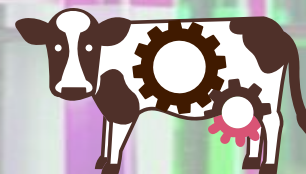
Laboratory Stirrers

- 23.14.1 Mini Stirrer: Fitted with 1/50 H.P. Motor 1200 RPM without controller. Complete on adjustable stand.
- 23.14.2 Lab. Stirrer: With 1/20 H.P. Motor 4000 RPM with speed regulator.
- 23.14.3 Lab. Heavy Duty Stirrer: With 1/4 H.P. Motor with speed regulator.

Magnetic Stirrers (With Hot Plate)

Heating plate regulated by Energy Regulator & shaking speed by speed regulator. Capacity

- 23.14.5 1 Ltr.
- 23.14.6 2 Ltr.
- 23.14.7 5 Ltr.
- 23.14.8 10 Ltr.



**Rectangular Muffle Furnace (1000°C)**

Maximum Temp. 1000° C and working temp. up to 900° C. Heating is done by Embedded Heater run around the chamber & controlled by Energy Regulator or Digital Temperature Indicator cum Controller, the outer body is made of thick mild steel duly painted. The apparatus is complete with pyrometer. Thermo-couple, silver fuse, two Neon lights with wire and plug to work on 220/230 Volts AC, (with Silicone Fiber insulation).

Muffle Size

- 23.14.10 100 x 100 x 225 mm
- 23.14.11 125 x 125 x 250 mm
- 23.14.12 150 x 150 x 300 mm
- 23.14.13 125 x 175 x 475 mm
- 23.14.14 175 x 175 x 475 mm
- 23.14.15 200 x 200 x 300 mm



**Rectangular Muffle Furnace High Temp. (1200°C)**

Maximum Temp. 1200° C grooved Refractory type, working temp up to 1100° C. Heating is controlled by Sunvic Simmer State (Energy Regulator), the outer body is made of thick mild steel duly painted. The apparatus is complete with pyrometer. Thermo-couple, two Neon lights with wire and plug to work on 220/230 Volts AC, (with Silicone Fiber insulation).

Muffle Size

- 23.14.30 100 x 100 x 225 mm
- 23.14.31 125 x 125 x 250 mm
- 23.14.32 150 x 150 x 300 mm
- 23.14.33 125 x 175 x 475 mm
- 23.14.34 175 x 175 x 475 mm
- 23.14.35 200 x 200 x 300 mm



**High Temperature Muffle Furnace**

The unit is specially designed to meet the requirements of High Temperature, the casing is made of M.S. reinforced with Iron angles duly painted, Chamber made of Ceramic Zirconium Board and elements are placed Horizontally in the Chamber. Heating is done by imported Silicon Carbide Rods duly controlled by Accurate Step down Transformer (Air cooled), it saves energy up to 30% with easily replaceable Carbide Rods. These furnaces have outstanding Temperature reliability and has large surface radiation ratio to enhance thermal efficiency and power consumption. Control Panel is fitted with Digital Temperature Indicator cum Controller up to 1600°C. Control Panel is provided separately having Ammeter, Volt Meter and Digital Controller etc. Maximum Furnace Temperature up to 1400° C, working Temperature up to 1350° C operatable in 220 Volts Single Phase AC supply.

Chamber Size :

- 23.14.40 100 x 100 x 225 mm
- 23.14.41 125 x 125 x 250 mm
- 23.14.42 50 x 150 x 300 mm

23.16 Pipette Washer

Automatic pipette washer completely made of S.S., Can accommodate pipettes up to 375 mm in length. It is based on the principles of agitation and strong suction developed by water during repeated filling and siphoning.



23.17 Pipette Drier (Electrical)

Made of S.S., drying heater of 250 Watts fitted in base chamber size 480 mm height and 140 mm dia can accommodate glasswares up to 375 mm height. Suitable to operate on 220 Volts AC.

23.18 Glass Ware Drier

For rapid and convenient drying of Laboratory glassware by blower forced air through 12 brass Nickel plated pipes fitted with heating elements blower through powerful motor On/Off switch to work on 220 Volts AC.

**Humidity Cabinet**

Forced air circulation an all purpose humidity cabinet. Double walled construction interior walls are made of anodized Aluminium or Stainless Steel outer Mild Steel. Humidity is controlled by imported Humidistat is from above ambient to 95% sensitivity  $\pm 3\%$  RH fitted inside the door. The water is circulated by humidifier or through steam generation system fitted in cabinet. Temperature range 5° C above ambient to 90° C controlled with and accuracy of  $\pm 1^\circ$  C. Temperature is seen from the thermometer fitted at the front of the cabinet. The door has a glass window.



Size of inner chamber

- 23.19.1 450 X 450 X 700 mm
- 23.19.2 600 X 600 X 600 mm
- 23.19.3 600 X 600 X 900 mm

**Humidity & Temp. Control Cabinet (Refrigerated)**

Construction same as of Humidity Cabinet but with refrigeration system fitted with hermetically designed compressor to attain low range temp. from 5° C to 50° C Temperature controlled by Electronic temperature Controller with an accuracy of  $\pm 1^\circ$  C & humidity up to 95% (with an accuracy of  $\pm 3\%$  RH) by Humidistat. Inner chamber made of Aluminium/S.S. separate control panel house is provided for cooling, heating, temp. control knob, indicators suitable to work on 220 Volts AC.

Size of inner chamber

- 23.19.11 450 X 450 X 700 mm
- 23.19.12 600 X 600 X 600 mm
- 23.19.13 600 X 600 X 900 mm



**De-Humidifier Dry Air**

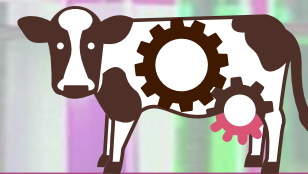
For removal of excess moisture from atmosphere. Humidity is brought down to 35% controlled by Imported Humidistat with an accuracy of  $\pm 3\%$  RH. Supplied with Heavy duty Base Stand, Workable on 220 Volts AC Supply.

Size of inner chamber

- 23.19.21 1 T.R.
- 23.19.22 1.5 T.R.







Laboratory Glasswares

Test Tube with Rim & without Rim Borosil		
	Capacity (mm)	Approx OD Length (mm)
23.2	7	12x100
23.2	13	15x125
23.2	15	15x150
23.2	27	18x150
23.2	38	25x100
23.2	55	25x150

Flask Erlenmeyer, Conical, Narrow Mouth Borosil		
	Capacity (ml)	Approx OD Length (mm)
23.2	25	40x70
23.2	50	51x82
23.2	100	64x105
23.2	150	72x124
23.2	250	85x140
23.2	500	104x185
23.2	1000	131x220
23.2	2000	160x250

Cylinder Graduated Single Metric Scale with Pour-out			
	Capacity (ml)	Graduator (Interval ml)	Tolerance (l ml)
23.2	5	0.1	0.1
23.2	10	0.2	0.2
23.2	25	0.5	0.5
23.2	50	1.0	1.0
23.2	100	1.0	1.0
23.2	150	2.0	2.0
23.2	250	2.0	2.0
23.2	500	5.0	5.0
23.2	1000	10.0	10.0

\* as per IS for cement Industry  
 \* Alcohol Distillation Unit Borosil Capacity - 1000 ml  
 \* R.M. Value Apparatus Borosil

Flasks Erlenmeyer Graduate Conical		
	Capacity (ml)	Approx. ODxHeight (mm)
23.2	25	40x70
23.2	50	51x82
23.2	100	64x105
23.2	150	72x124
23.2	250	85x140
23.2	500	104x185
23.2	1000	131x220
23.2	2000	68x280

Flask Conical with Screw Cap Conical		
	Capacity (ml)	Neck Specification
23.2	100	GL 25
23.2	150	GL 25
23.2	250	GL 32
23.2	500	GL 32
23.2	1000	GL 45

Iodine Determination Interchangeable Stopper Borosil		
	Capacity (ml)	Interchangeable Joint
23.2	100	24/29
23.2	250	24/29
23.2	500	24/29

Flask Kjeldahl Round Bottom Long Neck Borosil		
	Capacity	Approx.(ODxHeight mm)
23.2	100	61x210
23.2	300	80x298
23.2	500	100x325
23.2	800	113x375

Flask Volumetric with interchangeable Stopper Accuracy As Per B of 1.5.915-2006 Borosil			
	Capacity	Tolerance (lml)	Stopper Size
23.2	25	0.08	
23.2	50	0.12	
23.2	100	0.20	
23.2	200	0.30	
23.2	250	0.30	
23.2	500	0.50	

Desiccator with cover and Porcelain Plate Plastic Knob	
	ID Ground Flange (mm)
23.2	100
23.2	150
23.2	200
23.2	250
23.2	300

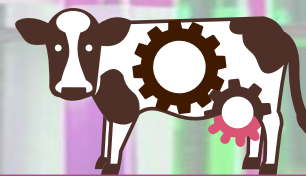
Desiccator Vacuum Stopcock with PTFE Spindle and Porcelain Plate Borosil	
	Approx ID Ground Flange (mm)
23.2	200
23.2	250
23.2	300

Dishes Culture, Petri, Borosil	
	Approx. ODxHeight (mm)
23.2	80x17
23.2	100x17
23.2	150x20

Dishes Culture Petri Borosil S. Line		
	Approx. ODxHeight (mm)	
23.2	80x15	
23.2	100x15	
23.2	500	0.50
23.2	1000	0.20
23.2	2000	1.20
23.2	5000	2.40

Burette Boroflo Fitted with Boroflo GPC General Purpose			
	Capacity (ml)	Graduate Interval (ml)	Tolerance (l - ml)
23.2	25	0.1	0.1
23.2	50	0.1	0.1

Burette Straight Borosil Stop Cock (Accuracy as per Class B of I.S. 1997-2008 Borosil)			
	Capacity (ml)	Graduation Interval (ml)	Tolerance (l-ml)
23.2	10	0.05	0.05
23.2	25	0.1	0.1
23.2	50	0.1	0.1



## LABORATORY EQUIPMENT

### Laboratory Glasswares

**Burette Automatic Boroclass A with Reservoir Rubber Bellow Glass Stopcock with Certificate Borosil**

	Capacity	Graduate Interval	Tolerance
23.2	10	0.05	0.02
23.2	25	0.1	0.05
23.2	50	0.1	0.05
23.2	100	0.2	0.1
23.2	500		0.50

**Burette Boroflo Fitted with Boroflo GPC General Purpose**

	Capacity (ml)	Graduate Interval (ml)	Tolerance (l - ml)
23.2	10	0.05	0.05
23.2	25	0.1	0.1
23.2	50	0.1	0.1
23.2	100	0.2	0.2

**Burette Straight Borostop Cock (Accuracy as per Class B of I.S. 1997-2008 Borosil)**

	Capacity (ml)	Graduation Interval (ml)	Tolerance (l-ml)
23.2	5	0.02	0.02
23.2	10	0.05	0.05
23.2	25	0.1	0.1
23.2	50	0.1	0.1

**Burette Automatic Boroclass A with Reservoir Rubber Bellow Glass Stopcock with Certificate Borosil**

	Capacity	Graduate Interval	Tolerance
23.2	10	0.05	0.02
23.2	25	0.1	0.05
23.2	50	0.1	0.05
23.2	100	0.2	0.1

**Pipette Serological Borosil**

	Capacity (ml)	Graduation Interval (ml)	Tolerance (l-ml)
23.2	0.1	0.01	0.1
23.2	1	0.1	0.02
23.2	0.2	0.02	0.02
23.2	2	0.02	0.05
23.2	5	0.1	0.1
23.2	10	0.1	0.1
23.2	25	0.2	0.2

**Pipette Transfer Volumetric (Accuracy as per Class B of I.S. 1117-1975 - Borosil)**

	Capacity (ml)	Tolerance (l-ml)
23.2	1	0.015
23.2	2	0.02
23.2	5	0.03
23.2	10	0.04
23.2	20	0.06

**Tubes Centrifuge Conical Bottom Graduated - Borosil**

	Capacity (ml)	Approx ODxLength (mm)
23.2	15	17x120
23.2	50	29x135

**Crucibles without Lid Borosil**

	Capacity (ml)	Approx ODxHeight (mm)
23.2	25	47x30
23.2	50	57x35
23.2	80	69x45

**Or Petri Dish - Tissue Culture Dish**

	Diameter (mm)	Height (m)	Graduation (cm)
23.2	60	14	22.06
23.2	100	19.5	60.09

**Funnel Separating Pear Shape with Stopcock and Interchangeable Stopper - Borosil**

	Capacity (mm)	Stopper Size
23.2	60	14/15
23.2	125	19/20
23.2	250	19/20

**Funnels Plain 60° Long Stem - Borosil**

	Diameter
23.2	25
23.2	35
23.2	50
23.2	65
23.2	75
23.2	100

**Funnels Powder - Borosil**

	Diameter (mm)
23.2	125
23.2	150
23.2	200

**Silicone Tubing Distillation Laboratory Application - Borosil**

	Size (mmlDxmmOD)
23.2	4x7
23.2	6x9
23.2	8x12
23.2	10x14

**All Glass Single Distillation Unit with Borosilicate Bottom Borosilicate - Condensor Quartz Heater Horizontal Type - Borosil**

	Capacity
23.2	1.5L+1 hr.
23.2	4 L+1 hr.

**Bottles Reagent Plain Narrow Mouth with Interchangeable Flat Head Stopper Borosil**

	Capacity (mm)	Approx ODxHeight	Size of Interchangeable Stopper
23.2	60	45x90	14/23
23.2	100	56x100	19/26
23.2	125	55x120	19/26
23.2	250	70x140	19/26
23.2	500	86x177	24/29



## LABORATORY EQUIPMENT



Bottles Reagent Wide Mouth with Screw Cap and Pouring Ring Graduated - Borosil

	Capacity (mm)	Approx. ODxHeight (mm)	Neck Size
23.2	25	36x76	GL-25
23.2	50	46x87	GL-32
23.2	100	56x100	GL-45
23.2	250	70x138	GL-45
23.2	500	86x176	GL-45
23.2	1000	101x255	GL-45

### Dairy Equipment Sanitary

23.2	Milk Analyzer Cleaning Solution	100gms.
23.2	Milk Analyzer Cleaning Powder	100gms.
23.2	Plant C.I.P. Material Acid 5L	5kg & 10 kg
23.2	Laboratory Glassware Cleaning Solution	1 ltr, 5 ltr
23.2	Cans Cleaning Liquid	1 ltr, 5 ltr
23.2	Tetra Poly Pack Sterilization Solution	5 ltr
23.2	Insecticide & Pesticide Solution	5 ltr
23.2	Floor Cleaning Solution	5 ltr, 10 ltr

### Stands and Other Essentials

23.2	Burette Stand
23.2	Test Tube Stand
23.2	Tripod Stand
23.2	Pipette Stand Vertical
23.2	Retort Stand S.S.
23.2	Three Finger Clamp
23.2	Retort Ring (All Sizes)
23.2	Tray Poly Lab
23.2	Tong
23.2	Spatula
23.2	Total Solid Estimation Aluminum Dishes
23.2	Ghee Moisture Dishes
23.2	Butter Moisture Cup
23.2	Petri Dishes Aluminum

### Essential Dairy Chemicals

23.2	I.S.O. Amyle Alcohol - 500 ml, 1 ltr., 5 ltr.
23.2	Sulphuric Acid 98% for Analysis (H <sub>2</sub> SO <sub>4</sub> ) - 500 ml, 2.5 lt, 5ltr
23.2	Sodium Hydroxide Pellets (NaOH) - 500gms, 1kg,15kg, 25kg
23.2	Nitric Acid 69% (HNO <sub>3</sub> ) CIP - 500ml, 2.5 ltr, 5 ltr
23.2	Hydrochloric Acid (HCL) 37% - 500ml, 2.5 ltr, 5 ltr, 25 ltr.

### Essential Chemicals for Dairy Laboratory

23.2	Acitic Acid- 500ml, 2.5 ltr, 25 ltr, - MERCK
23.2	Lectic Acid - 500ml, 2.5 ltr, 75 ltr, 200 ltr - LOBA
23.2	Iodine Resublimed - 100 gm, 500 gms - MERK
23.2	Iodine Solution for 500 ml - 500 ml - MERK
23.2	Resolic Acid - 25gms, 100 gms - LOBA
23.2	Sodium Hydroxide Pellet G.R. - 500 gms, 5 kg, 50 kg.
23.2	Phenolphtein Indicator Powder - 50 gms
23.2	Phenolphthalein 1% Indicator Solution - 125 ml
23.2	N/10 Sodium Hydroxide (NaOH) Solution
23.2	Silver Nitrate - 25 gms, 100gms, 500gms.
23.2	Potassium Iodide - 250 gms, 500 gms, 5 kg.
23.2	P.H. Universal Indicator - 125 ml, 500 ml.
23.2	Boric Acid Powder - 500 gms.
23.2	Bromocresol Purple Indicator - 25 gms.
23.2	Buffer Capsules PH 4.00 - 10 Cap.
23.2	Buffer Capsules PH 7.00 - 10 Cap.

23.2	Ready to Use Buffer Solution :
23.2	Buffer Solution PH - 2.00 to PH-10.00- 500 ml
23.2	Diethyl Ether - 500 ml., 2.5 ml
23.2	Dimethylaminobenzaldehyde - 100 gms
23.2	EDTA - 500 gms
23.2	EDTA Solution H/50 - 500 ml
23.2	Formaldehyde Solution - 500 ml, 5 ltrs.
23.2	Glycerol 85% for Analysis - 500 ml, 2.5 ltr.
23.2	Glycerol Purified - 500 gms
23.2	Hydrogen Peroxide 30% - 500 ml, 5 ltr.
23.2	Hydrogen Peroxide 50% - 500 ml, 25 ltr on Application
23.2	Iodofor - 1 ltr, 5 ltr
23.2	Magnesium Sulfate - 500 gm, 50 kg on application
23.2	Manganese - 500 gms
23.2	Naphthol - 100 gms
23.2	Phosphomolybic Acid - 25 gms
23.2	Ortho-Phosphoric Acid - 500ml, 2.5 ltr, 5ltr.
23.2	Potassium Chloride - 500gms, 50 kg on application
23.2	Potassium-Chromate - 500 gms
23.2	Potassium Dichromate - 500gms, 1 kg, 5 kg
23.2	Potassium Hydroxide Flakes - 500 gms, 1 kg, 5 kg
23.2	Potassium Permanganate - 500 gms
23.2	Silica Gel - 500 gms, 1 kg
23.2	Silver Sulfate - 25 gms
23.2	Sodium Chloride - 500gms, 5 kg, 50kg
23.2	Sodium Thiosulfate - 500gms
23.2	Ethyle Alcohol - 500 ml.
23.2	Methylene Blue Tablets - 50 Tablet Pkt.



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

137-139, Rajindra Market, Tis Hazari, Delhi-110054 (INDIA)  
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Fax : +91-11-23914211 E-mail : info@chadhasales.com  
Web Site : www.chadhasales.com, www.dairyequipmentonline.com



*Lakshmi*

Cream Separators



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

[www.chadhasales.com](http://www.chadhasales.com)



## CREAM SEPARATORS

Model : SSS-7

Capacity Milk Separation - 60 LPH

Cream Separator model SSS-7

Hand Driven Table Model 60 Ltr.

Capacity Per Hour (Lister Model)

Complete with Stainless Steel

Bowl, Stainless Steel Receiving

Tank & Stainless Steel Spout set.



### **Features of Lakshmi SSS-7**

- Centrifugal bowl is made of Stainless Steel AISI 304.
- Collecting Cover and Float of AISI 304.
- Bowl is dynamically balanced.
- Hand operated machine.
- Cream regulator for thick and thin cream.



Model : Crema90

Capacity Milk Separation - 90 LPH

Cream Separator model

Crema90 Electrical Driven Table

Model 90 Ltr. Capacity Per Hour

Complete with Stainless Steel

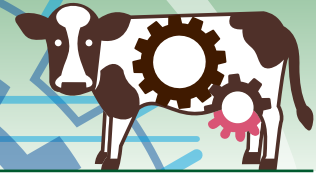
Bowl, Stainless Steel Receiving

Tank & Stainless Steel Spout set.

### **Features of Crema90**

- Centrifugal bowl is made of Stainless Steel AISI 304.
- Collecting Cover and Float of AISI 304.
- Bowl is dynamically balanced.
- Electrical operated machine.
- Cream regulator for thick and thin cream.





## LAKSHMI Cream Separators 60 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 60 LPH

- 24.1 Cream Separator model RS-7 Hand Driven Table Model 60 Ltr. Capacity Per Hour (Lister Model) with Stainless Steel Bowl Discs.



'ORIGINAL LAKSHMI' Cream Separators Cap. 60 LPH (S.S. Model)

- 24.2 Cream Separator model SSS-7 Hand Driven Table Model 60 Ltr. Capacity Per Hour (Lister Model) Complete with Stainless Steel Bowl, Stainless Steel Receiving Tank & Stainless Steel Spout set.



## NANO Cream Separators 50 LPH

NANO Cream Separators Cap. 50 LPH Electric (Plastic)

- 24.3.50 Cream Separator model NANO Capacity 50LPH. Electrically Operated with Steel Bowl and Bowl Discs, Plastic Receiving Tanks & Plastic Spout set. Table Model. Power consumption AC 220 volts 50Hz.



## CREMA Cream Separators 90 LPH

CREMA90 Cream Separators Cap. 90 LPH Electric (S.S. Model)

- 24.3.50 Cream Separator model CREMA90 Electrically Operated with Stainless Steel Bowl and Bowl Discs, Stainless Steel Receiving Tanks & Stainless Steel Spout set. Table Model. Power consumption AC 220 volts 50Hz.



## LAKSHMI Cream Separators 100 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 100 LPH

- 24.4 Cream Separator model RS-8 Hand Driven Table Model, Capacity 100 Ltr. Per Hour (Lister Model) with Stainless Steel Bowl Disc. (All Ball Bearing)

'ORIGINAL LAKSHMI' Cream Separators Cap. 100 LPH (S.S. Model)

- 24.5 Cream Separator model SSS-8 Hand Driven Table Model, Capacity 100 Ltr. Per Hour (Lister Model) with Complete Stainless Steel Bowl and Bowl Disc, Stainless Steel Spout Set and Stainless Steel Receiving Tank. (All Ball Bearing)



## LAKSHMI Cream Separators 165 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 165 LPH

- 24.6 Cream-Separator model RS-9 Hand Driven Table Model Capacity 165 Ltr. Per Hour (Lister Model) with Stainless Steel Bowl Discs (All Ball Bearing)

'ORIGINAL LAKSHMI' Cream Separators Cap. 165 LPH (S.S. Model)

- 24.7 Cream-Separator model SSS-9 Hand Driven Table Model Capacity 165 Ltr. Per Hour (Lister Model) with Complete Stainless Steel Bowl and Bowl Disc, Stainless Steel Spout Set & Stainless Steel Receiving Tank.



- 24.8 Electric Attachment model EA-9 with motor 1/4 H.P. Single Phase A.C. for RS-9 or SSS-9 Complete with Heavy Base Plate & Auto Speed Pulley. This attachment is used to run above models electrically operated.





# CREAM SEPARATOR

Model : SSS-10+EA10

Capacity Milk Separation - 225 LPH

**ELECTRIC POWER OR NO POWER**  
Even if electricity fails, your separator need not stop



## Features

- Sturdy, one-piece, forged stainless steel bowl, hygienically finished and dynamically balanced.
- Provided with a gear system, which makes it light & easy.
- Equipped with a specially designed handle which slips on instantly for hand operation.
- Power transmission with long-life nylon belts and centrifugal clutch for positive drive.
- Cream and milk spouts made from stainless steel sheets, for hygienic reasons.
- Milk contact parts are made of stainless steel AISI-304.
- Skimming Efficiency can be regulated.

MILK SEPARATION CAPACITY	225 LT/HR.
BOWL SPEED	6500 RPM
FRESH MILK INPUT	STRAINED
FRESH MILK INPUT TEMP.	30° C TO 40° C
SOUR MILK INPUT	25° C TO 30° C
ELECTRIC MOTOR	220 V, Single Phase, 50/60 c/s, ¼ HP
DIMENSION ( packed ) - L x W x H	28"x25.25"x26.25" Inches
PACKED VOLUME	0.35 CU. F
WEIGHT NETT	63 Kg.
WEIGHT GROSS	95 Kg.



# CREAM SEPARATOR

Model : SSS-11+EA11  
Capacity Milk Separation - 325 LPH

**ELECTRIC POWER OR NO POWER**  
Even if electricity fails, your separator need not stop



## Features

- Sturdy, one-piece, forged stainless steel bowl, hygienically finished and dynamically balanced.
- Provided with a gear system, which makes it light & easy.
- Equipped with a specially designed handle which slips on instantly for hand operation.
- Power transmission with long-life nylon belts and centrifugal clutch for positive drive.
- Cream and milk spouts made from stainless steel sheets, for hygienic reasons.
- Milk contact parts are made of stainless steel AISI-304.
- Skimming Efficiency can be regulated.

MILK SEPARATION CAPACITY	325 LT/HR.
BOWL SPEED	6500 RPM
FRESH MILK INPUT	STRAINED
FRESH MILK INPUT TEMP.	30° C TO 40° C
SOUR MILK INPUT	25° C TO 30° C
ELECTRIC MOTOR	110 V, Single Phase, 50/60 c/s, ¼ HP
DIMENSION ( packed ) - L x W x H	28"x25.25"x26.25" Inches
PACKED VOLUME	0.35 CU. F
WEIGHT NETT	63 Kg.
WEIGHT GROSS	95 Kg.



# CREAM SEPARATOR

Model : A-11

For Better Economy

Capacity Milk Separation - 325 LPH



### Features :

- Centrifugal bowl is made of Stainless Steel AISI 304.
- Collecting Cover and Float of AISI 304.
- Bowl is dynamically balanced.
- Lubrication system is completely eliminated.
- Unique drive system consists of special High Torque motor of 1/4 HP and flat belt drive, has eliminated the necessity of drive gears lubrication and friction clutches.
- Due to absence of friction clutches there is no slippage for worn out friction pad and tachometer is not required.
- Rubber gasket which comes in contact with milk is resistant and non-absorbent.

MILK SEPARATION CAPACITY	325 LPH/HR.
BOWL SPEED	7000 RPM
FRESH MILK INPUT	STRAINED
FRESH MILK INPUT TEMP.	30° C TO 40° C
SOUR MILK INPUT	25° C TO 30° C
ELECTRIC MOTOR	220 V, SINGLE Phase, 50 c/s, ¼ HP
DIMENSION ( Unpacked ) - L x W x H	30"X 22"X32" Inches
PACKED VOLUME	0.35 C.B.M.
WEIGHT NETT	70 KGS
WEIGHT GROSS	95 KGS



## CREAM SEPARATORS

### LAKSHMI Cream Separators 225 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 225 LPH

24.9 Cream-Separator model RS-10 Hand Driven Table Model Capacity 225 Litres Per Hour (Lister Model) with Stainless Steel Bowl Discs & Spouts set (All Ball Bearing).

'ORIGINAL LAKSHMI' Cream Separators Cap. 225 LPH (S.S. Model)

24.9.1 Cream-Separator model SSS-10 Hand Driven Table Model Capacity 225 Ltr. Per Hour (Lister Model) with Complete Stainless Steel Bowl and Bowl Disc, Stainless Steel Spout Set & Stainless Steel Receiving Tank.



24.10 Electric Attachment model EA-10 with motor 1/4 H.P. Single Phase A.C. for RS-10 or SSS-10 Complete with Heavy Base Plate & Auto Speed Pulley. This attachment is used to run above models electrically operated.



### LAKSHMI Cream Separators 325 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 325 LPH

24.11 Cream-Separator model RS-11 Hand Driven Table Model Capacity 325 Litres Per Hour (Lister Model) with Stainless Steel Bowl Discs & Spouts set (All Ball Bearing)

'ORIGINAL LAKSHMI' Cream Separators Cap. 325 LPH (S.S. Model)

24.12 Cream-Separator model SSS-11 Hand Driven Table Model Capacity 325 Ltr. Per Hour (Lister Model) with Complete Stainless Steel Bowl and Bowl Disc, Stainless Steel Spout Set & Stainless Steel Receiving Tank.



24.13 Electric Attachment model EA-11 with 1/4 H.P. Single Phase A.C. For RS-11 or SSS-11 Complete with Heavy Base Plate & Auto Speed Pulley. This attachment is used to run above models electrically operated.



'ORIGINAL LAKSHMI' Cream Separators Cap. 325 LPH (S.S. Model)

24.13.50 Cream Separator model A-11 All Electric Cream Separator (Alfa Model) Capacity 325 Litres Per Hour. All Milk Contacting parts made From Stainless Steel AISI-304 with 1/4 H.P. Single Phase Electric Motor.



### LAKSHMI Cream Separators 425 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 425 LPH

24.14 Cream-Separator model RS-12 Hand Driven Table Model Capacity 425 Litres Per Hour (Lister Model) with Stainless Steel Bowl Discs & Spouts Set (All Ball Bearing)

'ORIGINAL LAKSHMI' Cream Separators Cap. 425 LPH (S.S. Model)

24.15 Cream-Separator model SSS-12 Hand Driven Table Model Capacity 425 Ltr. Per Hour (Lister Model) with Complete Stainless Steel Bowl and Bowl Disc, Stainless Steel Spout Set & Stainless Steel Receiving Tank.



24.16 Electric Attachment model EA-12 with 1/2 H.P. Single Phase motor A.C. for RS-12 or SSS-12 Complete with Heavy Base Plate & Auto Speed Pulley. This attachment is used to run above models electrically operated.





## CREAM SEPARATOR

Model : AE-108

For better Economy

Capacity Milk Separation - 550 LPH



### Features :

- Centrifugal bowl is made of Stainless Steel AISI 304.
- Collecting Cover and Float of AISI 304.
- Bowl is dynamically balanced.
- Lubrication system is completely eliminated.
- Unique drive system consists of special High Torque motor of 0.5 HP and flat belt drive, has eliminated the necessity of drive gears lubrication and friction clutches.
- Due to absence of friction clutches there is no slippage for worn out friction pad and tachometer is not required.
- Rubber gasket which comes in contact with milk is resistant and non-absorbent.

MILK SEPARATION CAPACITY	550 LT/HR.
BOWL SPEED	7000 RPM
FRESH MILK INPUT	STRAINED
FRESH MILK INPUT TEMP.	30° C TO 40° C
SOUR MILK INPUT	25° C TO 30° C
ELECTRIC MOTOR	220 V, SINGLE Phase, 50 c/s, ½ HP
DIMENSION ( Unpacked ) - L x W x H	38"X 26"X44.5" Inches
PACKED VOLUME	0.71 C.B.
WEIGHT NETT	95 KGS
WEIGHT GROSS	155 KGS

### LAKSHMI' Cream Separators 550 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 550 LPH

- 24.17 Cream-Separator model RS-13 Hand Driven Table Model, Capacity 550 Litres Per Hour (Alfa Model) with Stainless Steel Bowl Discs & Spouts set (All Ball Bearing).

'ORIGINAL LAKSHMI' Cream Separators Cap. 550 LPH (S.S. Model)

- 24.18 Cream-Separator model SSS-13 Hand Driven Table Model Capacity 550 Ltr. Per Hour (Alfa Model) with Complete Stainless Steel Bowl and Bowl Disc, Stainless Steel Spout Set & Stainless Steel Receiving Tank.

- 24.19 Electric Attachment model EA-13 with 1/2 H.P. Single Phase motor A.C. for RS-13 or SSS-13 Complete with Heavy Base Plate & Auto Speed Pulley. This attachment is used to run above models electrically operated.



'ORIGINAL LAKSHMI' Cream Separators Cap. 550 LPH (S.S. Model)

- 24.20 Cream Separator model A-108 All Electric Cream Separator (Alfa Model) Capacity 550 Litres Per Hour. All Milk Contacting parts made From Stainless Steel AISI-304 with 1/2 H.P. Single Phase Electric Motor.



'ORIGINAL LAKSHMI' Cream Separators Cap. 550 LPH

- 24.21 Cream Separator model Lakshmi L-108 All Electric Cream Separator (Alfa Model) Capacity 550 Litres per Hour with Stainless Steel Bowl Discs and Stainless Steel Spout Set with 1/2 H.P. Single Phase Motor.

### LAKSHMI' Cream Separators 750 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 750 LPH (S.S. Model)

- 24.22 Cream Separator model Lakshmi A-109 All Electric Cream Separator, (Alfa Model) Capacity 750 Litres Per Hour. All Milk Contacting Parts Made From Stainless Steel AISI-304 with 1/2 H.P. Single Phase A.C. Motor.



'ORIGINAL LAKSHMI' Cream Separators Cap. 750 LPH (S.S. Model)

- 24.23 Cream Separator model Lakshmi SSS-14 Cream Separator, Hand Cum-Electric Operated Table Model Capacity 750 Litres per Hour. (Alfa Model) All Milk Contacting Parts Made from Stainless Steel AISI-304, Complete with 1/2 H.P. Single Phase A.C. Motor.



### LAKSHMI' Cream Separators 1000 LPH

'ORIGINAL LAKSHMI' Cream Separators Cap. 1000 LPH (S.S. Model)

- 24.24 Cream Separator model Lakshmi AE-1 All Electric Cream-Separator Capacity 1000 Litres Per Hour. All Milk Contacting Parts Made from Stainless Steel (Alfa Model). With 1H.P. Three Phase A.C. Motor







# CREAM SEPARATOR

Model : AE-1

For better Economy

Capacity

Milk Separation - 1000 LPH

Milk Clarification - 1200 LPH



## Features

- Centrifugal bowl is made of Stainless Steel AISI 304.
- Collecting Cover and Float of AISI 304.
- Bowl is dynamically balanced.
- Lubrication system is completely eliminated.
- Unique drive system consists of special High Torque motor of 1.0 HP and flat belt drive, has eliminated the necessity of drive gears lubrication and friction clutches.
- Due to absence of friction clutches there is no slippage for worn out friction pad and tachometer is not required.
- Rubber gasket which comes in contact with milk is resistant and non-absorbent.

MILK SEPARATION CAPACITY	1000 LT/HR.
CLARIFICATION CAPACITY	1200 LT/HR.
BOWL SPEED	8000 RPM
FRESH MILK INPUT	STRAINED
FRESH MILK INPUT TEMP.	30° C TO 40° C
SOUR MILK INPUT	25° C TO 30° C
ELECTRIC MOTOR	220 V, THREE Phase, 60 c/s, 1HP
WORKING SPEED REQUIRED	3 MINUTES
STOPPING TIME REQUIRED	15 MINUTES
DIMENSION (Unpacked) - L x W x H	30" x 30" x 38" Inches
PACKED VOLUME	0.56 CU.F
WEIGHT NETT	105 KGS
WEIGHT GROSS	160 KGS



# CREAM SEPARATOR ONLINE

Model : AEO - 1

**ONLINE MODEL**

Capacity

Milk Separation - 1000 LPH

Milk Clarification - 1200 LPH



## Features

- Centrifugal bowl and Inlet & Outlet flow units are made of Stainless Steel AISI 304.
- Bowl & all high speed revolving components are dynamically balanced.
- All parts in contact with milk are made of Stainless Steel AISI 304.
- Cream regulator device is equipped with each machine.
- Standardization device is available as optional.
- Lock ring of Bowl is made with special Carbon steel with anti corrosive treatment.
- Centrifugal Clutch drive system for smooth running of separator Heavy Cast Iron Base frame.
- Separator is supplied with foundation shock observing pads, Spanner Set, Spare Parts Set & oil lubrication for first Charge

MILK SEPARATION CAPACITY	1000 LT/HR.
BOWL SPEED	7000-7200 RPM
FRESH MILK INPUT	HERMETIC TOP FEEDING
FRESH MILK INPUT TEMP.	40° C TO 50° C
CLEANING	MANUAL CLEANING
ELECTRIC MOTOR	440 V, THREE Phase, 50/60 c/s, 1 HP
DIMENSION (Packed) - L x W x H	32.5" x 29.5" x 30.5" Inches
PACKED VOLUME	0.6 CBM
WEIGHT NETT (Approx)	141 KGS
WEIGHT GROSS (Approx)	200 KGS



# CREAM SEPARATOR ONLINE

Model : AEO-3

**ONLINE Model**

Capacity

Milk Separation - 3000 LPH

Milk Clarification - 3300 LPH



## Features

- Centrifugal bowl and Inlet & Outlet flow unit is made of Stainless Steel AISI 304.
- Bowl & all high speed revolving components are dynamically balanced.
- All parts in contact with milk are made of Stainless Steel AISI 304.
- Provision for Cream regulation & Standardization device.
- Lock ring of Bowl is made with special Carbon steel with anti corrosive treatment.
- Centrifugal Clutch drive system for smooth running of separator Heavy Cast Iron Base frame.
- Separator is supplied with foundation shock observing pads, Spanner Set, Spare Parts Set & oil lubrication for first Charge

MILK SEPARATION CAPACITY	3000 LT/HR.
BOWL SPEED	7500-8000 RPM
FRESH MILK INPUT	HERMATIC FEEDING
FRESH MILK INPUT TEMP.	30° C TO 40° C
CLEANING	MANUAL CLEANING
ELECTRIC MOTOR	440 V, THREE Phase, 50/60 c/s, 5 HP
DIMENSION (Unpacked) - L x W x H	38" x 25" x 60" Inches
PACKED VOLUME	1.30 CBM
WEIGHT NETT	480 KGS
WEIGHT GROSS	600 KGS





## CREAM SEPARATOR ONLINE

Model : AEO-5  
ONLINE Model

Capacity  
Milk Separation - 5000 LPH



### Features

- Centrifugal bowl and Inlet & Outlet flow units are made of Stainless Steel AISI 304.
- Bowl & all high speed revolving components are dynamically balanced.
- All parts in contact with milk are made of Stainless Steel AISI 304.
- Provision for Cream regulation & Standardization device.
- Lock ring of Bowl is made with special Carbon steel with anti corrosive treatment.
- Centrifugal Clutch drive system for smooth running.
- Heavy Cast Iron Base frame.
- Separator is supplied with foundation shock observing pads, Spanner Set, Spare Parts Set & oil lubrication for first Charge

MILK SEPARATION CAPACITY	5000 LT/HR.
BOWL SPEED	6500-7000 RPM
FRESH MILK INPUT	HERMATIC FEEDING
FRESH MILK INPUT TEMP.	40° C TO 45° C
CLEANING	MANUAL CLEANING
ELECTRIC MOTOR	440 V, THREE Phase, 50 c/s, 7.5 HP/5.5KW
DIMENSION (Unpacked) - L x W x H	34" x 23.5" x 70" Inches
WEIGHT NETT	455 KGS
WEIGHT GROSS	655 KGS

### LAKSHMI Online Cream Separator 1000 LPH

'ORIGINAL LAKSHMI' On Line Cream Separator Cap. 1000 LPH

24.24.01 Cream Separator model AEO-1 Capacity 1000 LPH Hermetic Type Solid bowl. The Separator will be Tri-purpose On Line with Built-in Feed Pump. All Milk Contacting Parts Will be of AISI-304 with 1 H.P., 3 Phase Electric Motor.



24.24.02 Standardizing device for AEO-1

'ORIGINAL LAKSHMI' On Line Cream Separator Cap. 2000 LPH

24.25.01 Cream Separator model AEO-2 Capacity 2000 LPH Hermetic Type Solid bowl. The Separator will be Tri-purpose On Line with Built-in Feed Pump. All Milk Contacting Parts Will be of AISI-304 with 5 H.P., 3 Phase Electric Motor.

### LAKSHMI Online Cream Separator 3000 LPH

'ORIGINAL LAKSHMI' On Line Cream Separator Cap. 3000 LPH

24.25.02 Cream Separator model AEO-3 Capacity 3000 LPH Hermetic Type Solid bowl. The Separator will be Tri-purpose On Line with Built-in Feed Pump. All Milk Contacting Parts Will be of SS-304 with 5 H.P., 3 Phase Electric Motor.



24.25.03 Standardizing device for AEO-3

### Online Cream Separator 5000 LPH

Cream Separator Online Cap. 5000 LPH

24.25.10 Cream Separator model AEO-5 Capacity 5000 LPH Hermetic Type Solid bowl. The Separator will be Tri-purpose On Line with Built-in Feed Pump. All Milk Contacting Parts Will be of SS-304 with 5.5kW, 3 Phase Electric Motor.



24.25.12 Standardizing device for AEO-5

### Online Self Cleaning Cream Separator 5000 LPH

Cream Separator Online Self Cleaning Cap. 5000 LPH

24.25.14 Cream Separator model AEO-SC-5 Capacity 5000 LPH Hermetic Self Cleaning Type with SS Clad Body. The Separator will be Tri-purpose On Line with Built-in Feed Pump. All Milk Contacting Parts Will be of SS-304 with 11kW, 3 Phase Electric Motor.



### Online Self Cleaning Cream Separator 10000 LPH

Cream Separator Online Self Cleaning Cap. 10000 LPH

24.25.14 Cream Separator model AEO-SC-SSB-10 Capacity 10000 LPH Hermetic Self Cleaning Type with SS Clad Body. The Separator will be Tri-purpose On Line with Built-in Feed Pump. All Milk Contacting Parts Will be of SS-304 with 15kW, 3 Phase Electric Motor.



24.25.14 Cream Separator model AEO-SC-10 (without SS Clad Body) Capacity 10000 LPH Hermetic Self Cleaning Type. The Separator will be Tri-purpose On Line with Built-in Feed Pump. All Milk Contacting Parts Will be of SS-304 with 15kW, 3 Phase Electric Motor.





# GHEE CLARIFIER

Model : GCO-1

ONLINE Model

Capacity

Ghee Clarification 750-1000 LPH



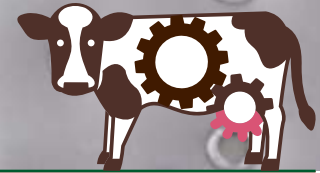
### Features of Lakshmi GCO-1

- Centrifugal bowl and Inlet & Outlet flow unit is made of Stainless Steel AISI 304.
- Bowl & all high speed revolving components are dynamically balanced.
- All parts in contact with Ghee are made of SS. AISI 304
- Equipped with three spouts : top for overflow, center for clarified Ghee and bottom spout for leakage collector (if any).
- Lock ring of Bowl is made with special Carbon steel with anti corrosive treatment.
- Heavy Cast Iron Base frame.
- Clarifier is supplied with foundation shock observing pads, Spanner Set, Spare Parts Set & oil lubrication for first Charge

### Specification :

- \* BOWL SPEED : 8100-8600 RPM
- \* GHEE INPUT : Pre- Filtered/Strained - Hermetic Feeding
- \* GHEE INPUT TEMP. : 70° C TO 75° C
- \* CLEANING : Manual Cleaning
- \* ELECTRIC MOTOR :440/220 V, 3 ph/1ph, 50Hz 1 HP





## CLARIFIERS

### LAKSHMI Milk Clarifier

'ORIGINAL LAKSHMI' Milk Clarifier Cap. 850 LPH

24.25.30 Milk Clarifier model Lakshmi MC-109 All Electric Milk Clarifier, Capacity 850 Litres Per Hour. All Milk Contacting Parts made From Stainless Steel with 1/2 H.P. Single Phase A.C. Motor.



'ORIGINAL LAKSHMI' Milk Clarifier Cap. 1200 LPH

24.25.31 Milk Clarifier model Lakshmi MC-1 All Electric Milk Clarifier Capacity 1200 Litres Per Hour. All Milk Contacting Parts made from Stainless Steel with 1 H.P. Three Phase A.C. Motor.



'ORIGINAL LAKSHMI' Milk Clarifier Cap. 1200 LPH On Line

24.25.32 Milk Clarifier model MCAEO-1 Capacity 1200 LPH Hermetic Type. The Clarifier will be On Line Solid Bowl. All Milk Contacting Parts will be of AISI-304 with 1 H.P., 3 Phase Electric Motor.



'ORIGINAL LAKSHMI' Milk Clarifier Cap. 3300 LPH On Line

24.25.33 Milk Clarifier model MCAEO-3 Capacity 3300 LPH Hermetic Type. The Clarifier will be On Line Solid Bowl. All Milk Contacting Parts will be of SS-304 with 5 H.P., 3 Phase Electric Motor.



Milk Clarifier Cap. 5000 LPH On Line

24.25.34 Milk Clarifier model MCAEO-5 Capacity 5000 LPH Hermetic Type. The Clarifier will be On Line Solid Bowl. All Milk Contacting Parts will be of SS-304 with 5.5 kW, 3 Phase Electric Motor.



Milk Clarifier Cap. 10000 LPH On Line

24.25.36 Milk Clarifier model MCAEO-10 Capacity 10000 LPH Hermetic Type. The Clarifier will be On Line Solid Bowl. All Milk Contacting Parts will be of SS-304 with 15 kW, 3 Phase Electric Motor.



### CENTRIFUGAL BACTOFUGEUR

Centrifugal Bactofugeur Cap. 10000 LPH

24.25.75 Centrifugal Bactofugeur is intended for removal of spore micro organism bacteria from milk. It is hermetic self cleaning separator with electric motor of 15kW 3 Phase.



### CENTRIFUGAL CREAM CONCENTRATOR

Cream Concentrator Capacity 350 KG/Hr

24.25.75 Cream Concentrator is intended for concentration of fat in to rich fat cream and separation of butter milk simultaneously cleaning for mechanical admixtures in the line of butter production. All cream contacting parts are made of all special Stainless Steel with 5.5 Kw electric motor 3 phase.



### LAKSHMI Ghee Clarifier

'ORIGINAL LAKSHMI' Ghee Clarifier Capacity 500 LPH

24.26 Lakshmi All Electric Ghee Clarifier Centrifuge having capacity 500 LPH, Complete Bowl, Bowl Disc and Spout set will be made from Stainless Steel 304 Quality with 1/2 H.P. three phase A.C. Motor.

'ORIGINAL LAKSHMI' Ghee Clarifier Capacity 750 - 1000 LPH

24.27 Lakshmi All Electric Ghee Clarifier Centrifuge having capacity 750-1000 LPH, Complete Bowl, Bowl Disc and Spout set will be made from Stainless Steel 304 with 1 H.P. Three / single phase A.C Motor. Model GCO-1



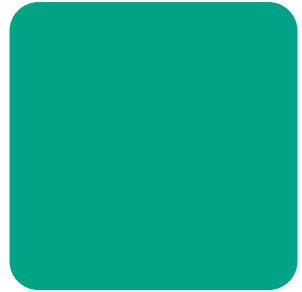
'ORIGINAL LAKSHMI' Ghee Clarifier Capacity 2000 LPH

24.28 Lakshmi All Electric Ghee Clarifier Centrifuge having capacity 2000 LPH, Complete Bowl, Bowl Disc and Spout set will be made from Stainless Steel 304 with 5 H.P. Three phase A.C Motor. Model GCO-2

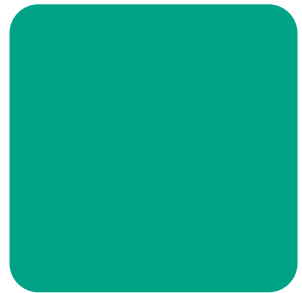


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**Butter Churner & Accessories**



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

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## BUTTER CHURNERS & ACCESSORIES

### Butter Churners

Butter Churner Cap. 4 Ltr. (Hand Operated)

- 26.01.05 Butter churner 4 liter with glass jar hand driven suitable for home or laboratory use.  
Model BCG-4



Butter Churner Cap. 5 Ltr. (Hand Operated)

- 26.1 Butter Churner Stainless Steel Hand Driven, Barrel Capacity 5 Ltr. with M.S. Base for Home Use and Laboratory Purpose.  
Model BC-5



Butter Churner Cap. 5 Ltr. (Electric Operated)

- 26.1.10 Butter Churner Stainless Steel Electrical, Barrel Capacity 5 Ltr. With M. S. Base for Home Use and Laboratory Purpose.  
Model BCE-5



### 'GLASS BUTTER CHURNER'

Cap. 4 Ltr.

Model : BCG-4

Farm, Laboratory & Kitchen Table Model Hand operated

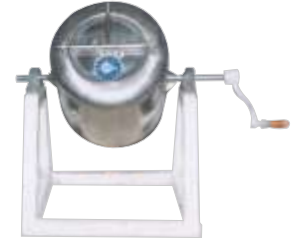


#### Features of Butter Churn BCG-4

- Cream Holding Tank is made of Heavy duty glass.
- Cream Holding Tank of glass for clear observation.
- Glass container with threaded collar for attaching Paddle.
- Hand operated machine having Hand Crank Mechanism.
- Hold Down Handle for easy usage.

Butter Churner Cap. 20 Ltr. (Hand Operated)

- 26.2 Butter Churner Stainless Steel Hand Driven, Barrel Capacity 20 Ltr with Input/output Door, Sight Glass, Air Discharge Nipple, Drain outlet and Mounted on M.S. Stand.  
Model BC-20



Butter Churner Cap. 20 Ltr. (Electric Operated)

- 26.3 Butter Churner Stainless Steel Electrically Driven, Having 20 Ltr Capacity SS Barrel of AISI 304 Quality with Input/Output Door, Sight Glass, Air Discharge Nipple, Variable Speed D.C. drive, Mounted on Mild Steel Strong Frame AC 220 Volts 1/10 H.P. Single Phase.  
Model BCE-20



Butter Churner Cap. 60 Ltr. (Hand Operated)

- 26.4 Butter Churner Stainless Steel Hand Driven, Barrel Capacity 60 Ltr with Input/output Door, Sight Glass, Air Discharge Nipple, Drain outlet and Mounted on M.S. Stand.  
Model BC-60



Butter Churner Cap. 60 Ltr. (Electric Operated)

- 26.5 Butter Churner Stainless Steel Electrically Driven, Having 60 Ltr Capacity SS Barrel of AISI 304 Quality with Input/Output Door, Sight Glass, Air Discharge Nipple, Drain Outlet Complete with Water Spray Rod, Variable Speed drive, Gear Box Mounted on Mild Steel Strong Frame AC 220 Volts 1/2 H.P. Single Phase.  
Model BCE-60

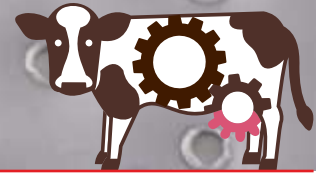
Butter Churner Cap. 90 Ltr. (Hand Operated)

- 26.6 Butter Churner Stainless Steel Hand Driven, Barrel Capacity 90 Ltr with Input/output Door, Sight Glass, Air Discharge Nipple, Drain Outlet and Mounted on M.S. Stand.  
Mode; BC-90

Butter Churner Cap. 90 Ltr. (Electric Operated)

- 26.7 Butter Churner Stainless Steel Electrically Driven, Having 90 Ltr Capacity SS Barrel of AISI 304 Quality with Input/Output Door, Sight Glass, Air Discharge Nipple, Drain Outlet Complete with Water Spray Rod, Variable Speed drive, Gear Box Mounted on Mild Steel Strong Frame AC 220 Volts 1 H.P. Single Phase. Model BCE-90





## Butter Churner Cap. 150 Ltr.

### Features:-

- ★ Input/Output Door
- ★ Sight Glass
- ★ Air Discharge Nipple
- ★ Drain Outlet Complete with Water Spray Rod
- ★ Variable Speed drive
- ★ Gear Box Mounted on Mild Steel Strong Frame
- ★ Reversible operation
- ★ Optional inching facility
- ★ Optional fixed speed gear box for Table Butter

### Butter Churner Cap. 150 Ltr.

**26.8** Butter Churner Stainless Steel Electrically Driven, Having 150 Ltr Capacity SS Barrel of AISI 304 Quality with Input/Output Door, Sight Glass, Air Discharge Nipple, Drain Outlet Complete with Water Spray Rod, Variable Speed drive, Gear Box Mounted on Mild Steel Strong Frame AC 220/440 Volts 1 H.P. Single/Three Phase.  
Model BCE-150

### Butter Churner Cap. 250 Ltr.

**26.9** Butter Churner Stainless Steel Electrically Driven, Having 250 Ltr Capacity SS Barrel of AISI 304 Quality with Input/Output Door, Sight Glass, Air Discharge Nipple, Drain Outlet Complete with Water Spray Rod, Variable Speed drive, Gear Box Mounted on Mild Steel Strong Frame AC 220/440 Volts 2 H.P. Single/Three Phase.  
Model BCE-250



### Butter Churner Cap. 500 Ltr.

**26.10** Butter Churner Stainless Steel Electrically Driven, Having 500 Ltr Capacity SS Barrel of AISI 304 Quality with Input/Output Door, Sight Glass, Air Discharge Nipple, Drain Outlet Complete with Water spray Rod, Variable Speed drive, Gear Box Mounted on Mild Steel Strong Frame AC 440 Volts 3 H.P. Three Phase.  
Model BCE-500



### Butter Churner Cap. 1000 Ltr.

**26.11** Butter Churner Stainless Steel Electrically Driven, Having 1000 Ltr Capacity SS Barrel of AISI 304 Quality with Input/Output Door, Sight Glass, Air Discharge Nipple, Drain Outlet Complete with Water Spray Rod, Variable Speed drive, Gear Box Mounted on Mild Steel Strong Frame AC 440 Volts, 5 H.P. Three Phase.  
Model BCE-1000



### Optional Features for above Butter Churners

- 27.1** Optional Control Panel with additional inching facility can be connected with any of the above Electrical Butter Churners on extra Cost.
- 27.2** Optional AC/DC Drive with three speed control functions with control panel which can be connected with any of the above electrical Butter Churner.
- 27.3** Optional Fixed Speed Gear Box having fixed gears on R.P.M. 4,8,16 and 32 for Best Results for Table Butter.



## BUTTER CHURNER & ACCESSORIES

### Butter Trolley

- 26.12 Butter Trolley 150 Kg. Capacity having drain outlet & sand blasted from inside.
- 26.13 Butter Trolley 250 Kg. Capacity having drain outlet & sand blasted from inside.



### Butter Worker

- 28.1 Wooden Butter Worker made of Teak Wood with Suitable Stand Capacity of 5Kg.
- 28.2 Wooden Butter Worker made of Teak Wood with Suitable Stand Capacity 10 Kg.
- 28.3 Wooden Butter Worker made of Teak Wood with Suitable stand capacity 12.5/14 Kg.

### Butter Print Table

- 28.4 Butter Print Table Paddle Operated Suitable for Making 9 Cakes of 25 Gms. at a time.
- 28.5 .....as above..... for 24 cakes of 25 Grms at a time
- 28.6 .....as above..... for 36 cakes of 25 Grms at a time
- 28.7 .....as above..... for 9 cakes of 50 Grms at a time
- 28.8 .....as above..... for 4 cakes of 100 Grms (Amul Shape) at a time.
- 28.9 .....as above..... for 2 cakes of 500 Grms (Amul Shape) at a time.
- 28.10 Butter Print table, Paddle Operated of 4 Cavity Block Suitable for Making Cakes from 50 Grm. to 500 Grms.



### Butter Extruder (Moulder)

- 28.12.50 Butter Extruder for 100g & 500g cake size, Electrical driven, made from Stainless Steel 304, mounted on SS304 frame, AC 220/440 volts 1H.P. Single/Three Phase.

### Butter Making Accessories

- 28.13 Butter Moulds of Rectangular Shape Made of Teak Wood.



- 28.14 Butter scotch hand teak wood 10"x3"
- 28.15 Butter scotch hand teak wood 12"x3"
- 28.16 Butter scotch hand teak wood 14"x3"
- 28.17 Butter scotch hand teak wood 12"x4"



- 28.18 Butter scoop perforated 10"x4"
- 28.19 Butter scoop perforated 12"x5"
- 28.20 Butter scoop perforated 14"x6"
- 28.21 Butter Board teak wood 12"x8"x1
- 28.22 Butter Knife teak wood 12"x3"
- 28.23 Butter Knife teak wood 15"x4"
- 28.24 Butter Beater 18"x3"
- 28.25 Butter Cream Sieves teak wood frame with nylon filter
- 28.26 Butter ladle plain type 15"x3"
- 28.27 Butter ladle plain type 18"x3"

- 28.28 Butter Salt pure white colour 450 gm
- 28.29 Butter Colour Annato grade 5 litre jar
- 28.30 Butter Moisture Balance complete with all accessories of 0.1% complete with melting cup, wire holder for cup butter scoop, spirit lamp. Butter wt. small rider and large rider.

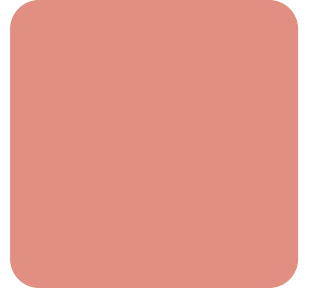


- 28.31 Butter Scotch of stainless steel size 175 x 75 mm thickness 12 mm complete with handle non stick surface.
- 28.32 Butter Shovels of stainless steel having blade thickness 3 mm, size 270 x 240 mm handle, 38 mm pipe grip, sand blasted.

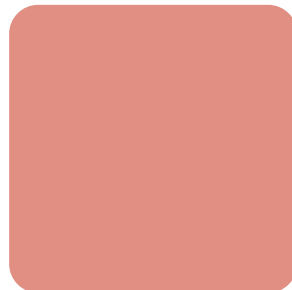
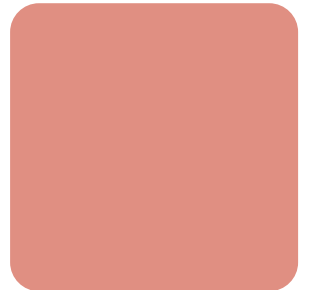
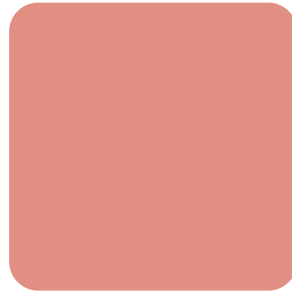
## Butter Extruder

Butter Extruder with twin screw and reversible mould for the line of 100 gram and 500 gram cake size. The machine is equipped with manual wire cutter to cut down the cake in to the desired sizes.





**Sealing & Filling Machine**



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DAIRY EQUIPMENT ENGINEERS

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# AUTOMATIC FORM FILL & SEAL MACHINE HORIZONTAL

REVOLUTION  
IN POUCH  
PACKING FOR  
MINI DAIRIES

- No Compressor required
- No PCB card required
- No Balance Tank required
- No Overhead tank required
- No Milk pump required
- No Bach coding required
- No Solenoid valve required

#### Features:

- This machine is widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavoured milk, pure water, juice, beverages, soya sauce, vinegar and wine.
- It can automatically sterilize the film with violet rays.
- Print the code precisely fill the product and seal & cut at one time.
- Can pack single layer PE film and co extrusion film.

#### Available in two Options

★ **Model CHP-1000-I**

Capacity 1300-1600PPH for 200-500 ml.

★ **Model CHP-1000-II**

Capacity :1300-1600PPH for 500-1000 ml.





## SEALING & FILLING MACHINES

### Sealing Machine Hand Operated Table Model

- 29.1 8" sealing length
- 29.2 10" sealing length
- 29.3 12" sealing length



### Sealing Machine Paddle Operated Standing Model

- 29.4 10" sealing length
- 29.5 16" sealing length



### Poly Pipe Sealing and Manual Filling machine

- 29.8 Poly Pipe Sealing and Manual Filling machine. The liquid is manually measured and filled in to the hopper. Sealing and tube cutting operation will be paddle operated in one shot.



### Manual Cup Sealer

- 29.20.29 It will be of M.S. Construction table top design . Container size available in 69mm, 80mm, 95mm, and 123mm. This machine requires independent aluminum or plastic flaps which is placed upon the cup and pressed by the machine for sealing.



### Manual Cup Sealer (semi auto)

- 29.20.30 It will be of S.S. Construction table top design . Container size available in 69mm, 80mm, 95mm, and 123mm. This machine is equipped with plastic role which is used to seal the plastic cup and in the single operation it also cuts the role as per sizes of the cup.



### Automatic Form Fill-Sealing Machine Horizontal Single Head (200-500 ml) Model CHP-1000-I

- 29.10.10 The output of this machine is 1300-1600 bags per hour & capacity of packs is 200 -500 ml. It's power requirement is 0.75 kW, 220 V, AC/380V, AC. The size of the machine is 850 x 750 x 1600 mm. This machine is widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavoured milk, pure water, juice, beverages, soy sauce, vinegar and wine. It can automatically sterilize the film with violet ray, form the bag, print the code precisely fill the product and seal & cut at one time. This machine can use single layer PE film and also Co-extrusion film to present more attractive packing.



### Automatic Form Fill-Sealing Machine Horizontal Single Head (500-1000 ml) Model CHP-1000-II

- 29.10.20 The output of this machine is 1300-1600 bags per hour & capacity of packs is 200 -500-1000 ml. It's power requirement is 0.75 kW, 220 V, AC/380V, AC. The size of the machine is 950 x 850 x 1900 mm. This machine is widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavoured milk, pure water, juice, beverages, soy sauce, vinegar and wine. It can automatically sterilize the film with violet ray, form the bag, print the code precisely fill the product and seal & cut at one time. This machine can use single layer PE film and also Co-extrusion film.



# AUTOMATIC FORM FILL & SEAL MACHINE HORIZONTAL (Double Head)

Model CHP-1000L-II  
Capacity 4200 Bags/Hour



- No Compressor required
- No Overhead Tank required
- No Milk Pump required
- No Batch Coding required

#### Features:

- This machine is widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavoured milk, pure water, juice, beverages, soya sauce, vinegar and wine.
- It can automatically sterilize the film with violet rays.
- Print the code precisely fill the product and seal & cut at one time.
- Can pack single layer PE film and co extrusion film.

#### With Touch Screen Panel Omron







## SEALING & FILLING MACHINES

### Automatic Form Fill-Sealing Machine Horizontal Double Head (200-500ml) Model CHP2-1000

The output of this machine is 4200 bags per hour & capacity of packs is 200-500ml. It's power requirement is 3.5 kw, 220 V, AC/380V, AC. The size of the machine is 63" x 39.5" x 83". This machine is widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavoured milk, pure water, juice, beverages, soy sauce, vinegar and wine. It can automatically sterilize the film with violet ray, form the bag, print the code precisely fill the product and seal & cut at one time. This machine can use single layer PE film and also Co-extrusion film to present more attractive packing.



### Automatic Form Fill-Sealing Machine Horizontal Single Head (2000-8000ml) Model CHP-7500L

The output of this machine is 600 bags per hour & capacity of packs is 2000-8000ml. It's power requirement is 1.5 kW, 220 V, AC/380V, AC. The size of the machine is 1420 x 1200 x 2700 mm. The width of the film required is 720 mm. Air Pressure required is 0.7 MPa  $\pm$  0.1MPa. The machine is equipped with PLC controller. This machine is widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavoured milk, pure water, juice, beverages, soy sauce, vinegar and wine. It can automatically sterilize the film with violet ray, form the bag, print the code precisely fill the product and seal & cut at one time. This machine can use single layer PE film and also Co-extrusion film.



### Automatic Form Fill-Sealing Machine Horizontal Single Head, 3 Sides Sealing (200-500 ml) Model CHP-2000L

The output of this machine is 2100 bags per hour & capacity of packs is 200-500ml. It's power requirement is 0.75 kW, 220 V, AC/380V, AC. The size of the machine is 950 x 850 x 1900 mm. This machine is widely used to pack liquids of low and high viscosity such as milk, fresh cream, curd, lassi, flavoured milk, pure water, juice, beverages, soy sauce, vinegar and wine. It can automatically sterilize the film with violet ray, form the bag, print the code precisely fill the product and seal & cut at one time. This machine can use single layer PE film and also Co-extrusion film.



### Conveyer for Pouch Packing Machine For Model CHP-7500L

Conveyer for liquid packing machine CHP-7500L is important part for smooth running of CHP-7500L. It is specially designed to handle large packs.



# AUTOMATIC CUP FILLING AND SEALING MACHINE

## Model C-BG32A



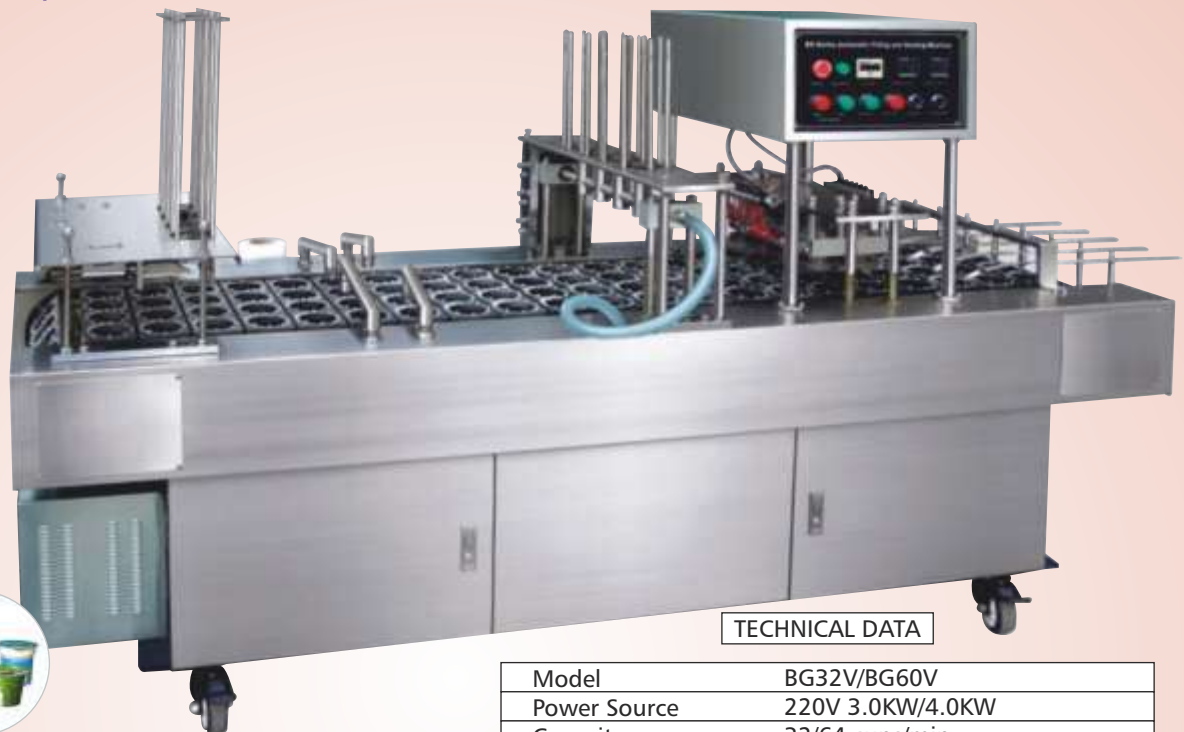
- With photo cell
- Automatic drop cup sets

This machine is made of stainless steel with easy equipment, it has been long tested and its performance gained a very high reputation from our clients because of its easy operation and smooth work in low failure rate. We can produce the machine under the customer's requirements. machine suitable for beverage, such as soya bean milk, fruit juice, mineral water. And it can automatically do cup setting, filling, photoelectric pattern, proofread, sealing, printing date, cutting & discharging.

### TECHNICAL DATA

Model	BG32A
Power Source	220V 2.5KW
Capacity	32 cups/min
Temperature	0-300°C
Seal Material	PE PP PE/PET
Dimension	215x70x155 cm
Weight	400Kgs

## Model C-BG32V/BG60V



Vacuum for pick-place aluminum foil cover

### TECHNICAL DATA

Model	BG32V/BG60V
Power Source	220V 3.0KW/4.0KW
Capacity	32/64 cups/min
Temperature	0-300°C
Seal Material	Aluminum Foil
Dimension	215x70x165 cm/235x80x165cm
Weight	500Kgs/700Kgs



## SEALING & FILLING MACHINES

Automatic Cup Filling & Sealing Machine for curd (Roll Input)  
2 Line machine

**Automatic Cup Filling & Sealing Machine for curd (Roll Input) 2 Line machine.** This machine is made of Stainless Steel and it is very easy in operation having low failure rate. Machine is suitable for liquid such as curd, yogurt, Soya milk, milk etc. It can automatically do cup setting, filling, photo sensor reading, sealing, cutting and releasing cups. It is to be loaded with HIPS laminated film in a roll form. Seal material will be PE PP PE/PET

29.20.10 Model: CBG-32A-80mm/220V 2.5KW (2 Line Machine)  
Seal Material: PE PP PE/PET The dia size of cup to be used is 80mm.

29.20.11 Model: CBG-32A-95mm/220V 2.5KW (2 Line Machine)  
Seal Material: PE PP PE/PET The dia size of cup to be used is 95mm



Automatic Cup Filling & Sealing Machine for curd  
(Pre-Cut Aluminum Lid Input) 2 Line Machine

Automatic Cup Filling & Sealing Machine for curd (Pre-Cut Aluminum Lid Input) 2 Line machine. This machine is made of Stainless Steel and it is very easy in operation having low failure rate. Machine is suitable for liquid such as curd, yogurt, Soya milk, milk etc. it can automatically do cup setting, filling, photo sensor reading, sealing, cutting and releasing cups. It is to be loaded with HIPS laminated film in a roll form.



29.20.15 Model: CBG-60V-80mm/220V 2.5KW(2 Line Machine)  
Seal Material: Aluminum foil. The dia size of cup to be used is 80mm.

29.20.16 Model: CBG-60V-95mm/220V 2.5KW(2 Line Machine)  
Seal Material: Aluminum foil. The dia size of cup to be used is 95mm.

Automatic Cup Filling & Sealing Machine for curd  
(Pre-Cut Aluminum Lid Input) 4 Line machine

Automatic Cup Filling & Sealing Machine for curd (Pre-Cut Aluminum Lid Input) 4 Line machine. This machine is made of Stainless Steel and it is very easy in operation having low failure rate. Machine is suitable for liquid such as curd, yogurt, Soya milk, milk etc. it can automatically do cup setting, filling, photo sensor reading, sealing, cutting and releasing Cups. It is to be loaded with HIPS laminated film in a roll form.

29.20.17 Model: CBG-60V-95mm/220V 2.5KW (4 Line Machine)  
Seal Material: Aluminum foil The dia size of cup to be used is 95mm.

29.20.18 Model: CBG-60V-80mm/220V 2.5KW (4 Line Machine)  
Seal Material: Aluminum foil The dia size of cup to be used is 80mm.





## Automatic Ice Cream Box Filling & Sealing Machine

Model	QCF-Ice Cream Box
Packing Speed	1680-2160 piece/h
Filling Contents	0-250ml (adjustable)
Voltage	3-phase 4-line socket (380V 50HZ customised)
Electric Motor Power	0.75KW
Heat Up Power	1.6KW
Air Pressure	0.5MPa-0.75MPa
Maximum Air Consumption	0.43m <sup>3</sup> /m
Size (LxWxH)	250x58x150cm
Weight	About 700kg



## Automatic Milk Bottle Filling & Sealing Machine



Model	QCF-8 Milk Bottle
Packing Speed	6720-8640 piece/h
Filling Contents	0-250ml (adjustable)
Voltage	3-phase 4-line socket (380V 50HZ customised)
Electric Motor Power	0.75KW
Heat Up Power	3.2KW
Air Pressure	0.5MPa-0.75MPa
Maximum Air Consumption	0.43m <sup>3</sup> /m
Size (LxWxH)	330x75x185cm
Weight	About 1000kg

## Automatic Cheese Filling & Sealing Machine

Model	QCF - 2 Cheese
Packing Speed	1680-2160 piece/h
Filling Contents	0-250ml (adjustable)
Voltage	3-phase 4-line socket (380V 50HZ customised)
Electric Motor Power	0.75KW
Heat Up Power	1.6KW
Air Pressure	0.5MPa-0.75MPa
Maximum Air Consumption	0.43m <sup>3</sup> /m
Size (LxWxH)	250x58x150cm
Weight	About 700kg





## SEALING & FILLING MACHINES

### Automatic Milk Bottle Filling & Sealing Machine

29.20.19 This machine is made of Stainless Steel and it is very easy in operation having low failure rate. Machine is suitable for liquid such as soya milk, flavored milk, milk etc. it can automatically do filling, sealing, cutting and releasing.

Model: CQCF-8 Milk Bottle/  
Packaging Speed: 6720-8640piece/hour  
Filling Content: 0-250ml(adjustable)  
Voltage: 3 Phase 4line Socket(380V50HZ Customized )  
Electric Power: 0.75KW  
Heat Up Power: 3.2 KW  
Air Pressure: 0.5MPa-0.75MPa  
Maximum Air Consumption: 0.45m<sup>3</sup>/m



### Automatic Ice Cream Box Filling & Sealing Machine

29.20.21 This machine is made of Stainless Steel and it is very easy in operation having low failure rate. Machine is suitable for liquid such as Soya milk, flavored milk, milk etc. it can automatically do filling, sealing, cutting and releasing.

Model:- CQCF-2 Ice Cream Box  
Packaging Speed:- 1680-2160piece/hour  
Filling Content:- 0-250ml(adjustable)  
Voltage:-3 Phase 4line Socket(380V50HZ Customized )  
Electric Power:- 0.75KW  
Heat Up Power :-1.6 KW Air Pressure :-0.5MPa-0.75MPa  
Maximum Air Consumption :-0.45m<sup>3</sup>/m



### Automatic Cheese Filling & Sealing Machine

29.20.20 This machine is made of Stainless Steel and it is very easy in operation having low failure rate. Machine is suitable for liquid such as soya milk, flavored milk, milk etc. it can automatically do filling, sealing, cutting and releasing.

Model: CQCF-2 Cheese  
Packaging Speed: 1680-2160piece/hour  
Filling Content: 0-250ml(adjustable)  
Voltage: 3 Phase 4line Socket(380V50HZ Customized )  
Electric Power: 0.75KW  
Heat Up Power: 1.6 KW  
Air Pressure: 0.5MPa-0.75MPa  
Maximum Air Consumption: 0.45m<sup>3</sup>/m



# Vacuum Packing Machine



This series of vacuum packaging machine is featured by auto-maticly process of vacuuming, sealing, printing, cooling which is used in vacuum packaging for the food, pharmaceutical, aquatic, chemical and electronic industries. It can prevent the products from oxidization and mildew, as well as corrosion and moisture, keeping the quality and freshness of the product over a prolonged storage time.

DZ500-2SB  
DZQ500-2SB  
Double-Chambre Vacuum (Gas Filling) Packer



DZ300-2D  
DESKTOP VACUUM PACKER



DZ400-2D  
DZQ400-2D  
SINGLE CHAMBER VACUUM (Gas Filling) PACKED

## TECHNICAL DATA

Model	DZ300-2D	DZ400-2D	DZ400-2SB	DZ500-2SB	DZ600-2SB
Voltage	220V/50Hz	220V/50Hz	DZQ400-2SB 380V/220V/50Hz	DZQ500-2SB 380V/220V/50Hz	380V/50Hz
Power	1.3KW	1.5KW	1.5KW	2.3KW	3.1KW
Workroom Size	320x340x80mm	420x340x80mm	500x450x115	570x540x110	670x540x110
Sealing length	300x10mm	400x10mm	400x10mm	500x10mm	600x10mm
Sealing Speed	1-4 pec/min	1-4 pec/min	1-3 pec/min	1-4 pec/min	1-4 pec/min
Weight	85 kgs	106 kgs	200 kgs	250 kgs	320 kgs
External Size	550x500x600mm	660x600x1050mm	1020x750x950mm	1350x850x980mm	1550x850x1030mm





## SEALING & FILLING MACHINES

### Vacuum Packer Desktop Type Model (CDZ300-2D)

29.20.40 **Vacuum Packer Desktop Type Model (CDZ300-2D).** This Vacuum packing machine automatically do process of vacuum, sealing, cooling which is used in vacuum packaging for the food Products, Dairy Products such as Paneer, Cheese, Khoa etc. It can prevent the products from oxidization and mildew, as well as corrosion and moisture keeping the freshness of the product over a prolonged storage time.

Model: CDZ300-2D /220V 50 Hz  
Power: 1.3KW  
Work chamber Size: 320 x 340 x 80mm  
Sealing Length: 300 x 10mm  
Sealing Speed: 1-4 piece/min.



### Double-Chamber Vacuum Model (Gas Filling) Packer (CDZ500-2SB)

29.20.42 **Double-Chamber Vacuum Model (Gas Filling) Packer (CDZ500-2SB).** This Vacuum packing machine automatically do process of vacuum, sealing, cooling which is used in vacuum packaging for the food Products, Dairy Products such as Paneer, Cheese, Khoa etc. It can prevent the products from oxidization and mildew, as well as corrosion and moisture keeping the freshness of the product over a prolonged storage time.

Model: CDZ500-2SB /380 V/220V 50 Hz  
Power: 2.3KW  
Work chamber Size: 570 x 510 x 110mm  
Sealing Length: 800 x 10mm  
Sealing Speed: 1-4 piece /min.



### Single-Chamber Vacuum Model (Gas Filling ) Packer (CDZ400-2D)

29.20.41 **Single-Chamber Vacuum Model (Gas Filling) Packer (CDZ400-2D).** This Vacuum packing machine automatically do process of vacuum, sealing, cooling which is used in vacuum packaging for the food Products, Dairy Products such as Paneer, Cheese, Khoa etc. It can prevent the products from oxidization and mildew, as well as corrosion and moisture keeping the freshness of the product over a prolonged storage time.

Model: CDZ400-2D /220V 50 Hz  
Power: 1.5KW  
Work chamber Size: 420 x 340 x 80mm  
Sealing Length: 400 x 10mm  
Sealing Speed: 1-4 piece /min.





**Bottle Filler Batch Type 4 Head**

**29.20.40** **Bottle Filler Batch Type 4 Head** Bottle Filling Machine - Semi Automatic 4 Head. It is a vacuum operated bottle filling system with Stainless Steel constructor of SS 304. It will come along with 1 HP Vacuum Pump. The whole system will be fitted on a painted Mild Steel Frame. All the spacers and bottle adjustment rings are made out of high quality rubber.



**Bottle Wrapper Label Shrink Tunnel**

Model (CBSL-1535A)

**29.20.42** **Bottle Wrapper Label Shrink Tunnel** Model (CBSL-1535A) for 200ml glass bottle with conveyor for shrinking labels with variable speed SS Conveyor & shrinking tunnel. It work on direct heating of PEC/PEP Shrinking sleeve to achieve optimal contraction packaging. Machine works on reliable booster by temperature control suitable for contraction packaging of for dairy, food and beverage etc.

Model: CBSL-1535A  
Power: 4KW 220V 50Hz  
Feeding Speed: 0-4m/min.  
Feeding Weight: 5kg.  
Workroom Size: 700 x 150 x 350mm



**Semi Automatic Bottle Wrapper (Model-CBZJ5038B)**

**29.20.42** **Semi Automatic Bottle Wrapper (Model-CBZJ5038B)** Suitable for wrapping of products such as crown capped flavored milk Bottles, Cans and water bottles. Bottom Tray can be used in packaging. Working with PE shrink tunnel to pack the goods perfectly. The electric parts are of reputed make, such as Omron, Mitsubishi, Fuji which have stable performance and long life.

Model: CBZJ-5038B  
Max. Packing Dimension: 45x30x35cm  
Min. Packing Dimension: 25x6x6cm  
Power: 220V 50Hz 1.8KW  
Capacity: 2-5unit/min.  
Conveyor Loading: 30Kgs.  
Film Width: Max. 500mm



**Bottle Crown Capping Machine**

**29.20.41** **Bottle Crown Capping Machine.** Electrical made as of heavy M.S. Structure with bottle holder and caper catcher. The crowns are fed manually to the catcher and it will cap the bottle in continuous form.



#### Gravity Operated Filling Machines for Ghee & Curd

**29.20.40** Gravity Operated Filling Machine Single Head Bench  
Model : 200ml-5ltr. or 200gms-6.5kgs suitable for filling Ghee & Curd into Plastic Jars or tins. The machine consists of SS Piston, Filling Nozzle and Holding Tray. Inlet connection of 38mm.



**29.20.40** Gravity Operated Filling Machine Double Head Bench  
Model: 200ml-5ltr. or 200gms-6.5kgs suitable for filling Ghee & Curd into Plastic Jars or tins. The machine consists of SS Piston, Filling Nozzle and Holding Tray. Inlet connection of 51mm.



**29.20.40** Gravity Operated Filling Machine Single Head Standing  
Model: 3-30Ltr. or 3-35Kgs suitable for filling Ghee & Curd into Plastic Jars or tins. The machine consists of SS Piston, Filling Nozzle and Holding Tray. Inlet connection of 51mm.



**29.20.40** Gravity Operated Filling Machine Double Head Standing  
Model: 3-30Ltr. or 3-35Kgs suitable for filling Ghee & Curd into Plastic Jars or tins. The machine consists of SS Piston, Filling Nozzle and Holding Tray. Inlet connection of 2x51mm.



Gravity Filling Machines, for filling ghee into Jars of 200 ml., 500 ml., 1 litre, 2 litres, 5 litres and tins of 15 litres and for curd up to 30 liters.



**For Accurate & Bulk Production**

#### SALIENT FEATURES:

- No electricity is required
- No compressed air is required
- No solenoid or load-cell is provided
- No foaming or frothing of liquids during
- No replacement parts required.
- No maintenance

#### SUITABLE FOR FILLING:

PET / PVC / LDPE / HDPE / Glass Bottles / Jerry Cans / Jars / Matkas, Round / Rectangular / Square / Conical Tins, etc.

Gravity Filling Machines, for filling ghee into Jars of 200 ml., 500 ml., 1 litre, 2 litres, 5 litres and tins of 15 litres and for curd up to 30 liters.





**Incubator For Curd and Yogurt Model-IC-135**

**29.20.40** Incubator For Curd and Yogurt Model-IC-135. Capacity 135 cups of 400 ml and 270 cups of 200 ml. Incubator inner will be made of Stainless Steel and outer will be made of mild steel painted. It will have high quality Insulation, Digital Controller and Temperature Display. It will also equipped with Standard Air Blower for uniform heat transfer. It will be suitable for Plastic, Glass and Mud Cups of 200/400 ml. One lot of standard Trays of Plastic/GI/SS will be the part of Incubator. Available in Single/Three Phase.



**Incubator For Curd and Yogurt Model-IC-990**

**29.20.41** Incubator For Curd and Yogurt Model-IC-990 Capacity 990 cups of 400 ml 1980 cups of 200ml. Incubator inner will be made of Stainless Steel and outer will be made of mild steel painted. It will have high quality Insulation, Digital Controller and Temperature Display. It will also equipped with Standard Air Blower for uniform heat transfer. It will be suitable for Plastic, Glass and Mud Cups of 200/400 ml. One lot of standard Trays of Plastic/GI/SS will be the part of Incubator. Available in Single/Three Phase.



**Incubator For Curd and Yogurt Model-IC-270**

**29.20.42** Incubator For Curd and Yogurt Model-IC-270 Capacity 270 cups of 400 ml and 540 cups of 200 ml. Incubator inner will be made of Stainless Steel and outer will be made of mild steel painted. It will have high quality Insulation, Digital Controller and Temperature Display. It will also equipped with Standard Air Blower for uniform heat transfer. It will be suitable for Plastic, Glass and Mud Cups of 200/400 ml. One lot of standard Trays of Plastic/GI/SS will be the part of Incubator. Available in Single/Three Phase.



**Incubator For Curd and Yogurt Model-IC-480**

**29.20.42** Incubator For Curd and Yogurt Model-IC-480 Capacity 480 cups of 400 ml and 990 cups of 200 ml. Incubator inner will be made of Stainless Steel and outer will be made of mild steel painted. It will have high quality Insulation, Digital Controller and Temperature Display. It will also equipped with Standard Air Blower for uniform heat transfer. It will be suitable for Plastic, Glass and Mud Cups of 200/400ml. One lot of standard Trays of Plastic/GI/SS will be the part of Incubator. Available in Single/Three Phase.



**Plastic Crate for Curd/Yogurt Cups**

**29.20.42** Plastic Crate for Curd/Yogurt Cups suitable for holding 15 cups of 400ml of 95 mm diameter or 30 Cups of 200ml of 95mm diameter having outer dimension of 500 x 325 x 150mm.



**Trolley for Plastic Crate of Curd**

**29.20.42** Trolley for Plastic Crate of Curd to accommodated 10 crate at a time made up of Stainless Steel with 4 Nos. Castor Wheels.





## Bulk Milk Coolers



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

[www.chadhasales.com](http://www.chadhasales.com)



## CHADHA-DELTA - AN INTRODUCTION TO OUR PRODUCTS

### Milk Cooling And Storage

Milk leaves the udder at approximately 35°C, Chadha-Delta Milk Cooling Tanks facilitates rapid cooling to a storage temperature of around 4°C prevents or minimizes micro-organism growth. It is not only the storage temperature that is important; the cooling time to reach storage temperature is also critical. Chadha-Delta Bulk milk coolers, are designed to cool the milk to 4°C within a specified time period. The use of our Bulk Milk Coolers do reduce the milk temperature and therefore, assist in more rapid cooling and in reducing electrical running costs.

### Time, Temperature and bacterial count in milk

Cooling to 4°C greatly contributes to the quality of the milk on the farm. This treatment slows down the growth of the bacteria in the milk, thereby greatly improving its keeping qualities. Efficient cooling of milk directly after production to 4°C, in conjunction with good milking hygiene makes it possible to deliver good quality milk at two or three-day intervals. Time, temperature and bacterial count in milk that is where Chadha-Delta Cooling Tanks are designed for giving Lower Temperature at Lowest Time in accordance to minimize Bacterial Growth. Chadha Delta Milk Coolers are the perfect answer to the needs of the Indian Dairy Industry. They ensure the milk is stored at low temperature thus minimizing the growth of bacteria and substantially improving the shelf life of milk.



The Chadha-Delta milk cooling tank is at the highest Priority of our product range.

### Milk cooling and Milk Collection technology are the areas of that Chadha-Delta specialize in.

Our commitment to produce products of the highest quality and operating efficiency applies to every facet of our production process, supported by an ongoing programme of product research and development to anticipate the future requirements of our customers.

### Energy Efficient Chadha Delta Condensing Units

Chadha Delta Condensing units have been designed keeping in mind the varied climate condition across the world with matching of compressor. The Chadha-Delta milk cooling tank in combination with a matching condensing unit is the hub of the milk cooling system. The highly acclaimed range of Chadha-Delta condensing units that we select are the most energy efficient units available when compared to standard range of conventional condensing units.

With the ever increasing cost of energy, entrepreneur throughout India are looking at ways in which they can reduce their operating costs. With the Chadha-Delta Pre-Heater, Heat Recovery System, significant savings can be achieved by utilizing the waste heat given off from the refrigeration equipment to effectively heat water for plant and milk tank cleaning.

**Prevention is better than Cure.** A milk cooling system is one of the hardest working items of dairy farm equipment so effectively maintaining it is essential to profitability. Investing in a preventative maintenance contract will ensure your Chadha-Delta milk cooling system operates at peak performance at all times. Wherever you are farming, you can be assured that your Chadha-Delta milk cooling system is backed by a nationwide network of dedicated and knowledgeable service engineers



Chadha Delta, India's one of the largest and oldest brand of bulk milk coolers in Dairy Industry. Serving for the last 60 years with Dairy Equipments.

The tanks are made of AISI 304 (Food Grade) stainless steel sheet as per ISO 5708 Specification.

The evaporating plates are totally indigenous made up through Automatic computer aided Machine. The surface finish of the parts that come in contract with the milk are perfectly smooth. PUF insulation is injected between the stainless steel sheets as sandwich design ensuring the cooling temperature of milk does not rise more than 1degC and above the storage temperature in a span of 4 hrs when the cooling is stopped at 4°degC, in open type tanks and 1°degC does not in 24 hours in enclosed type tanks it will keep the quality of milk pure and clean. The cleaning will be done manually for open type tanks and spray ball integrated for enclosed type tanks.

The Digital Dipstick is provided for enclosed type tanks models optionally.







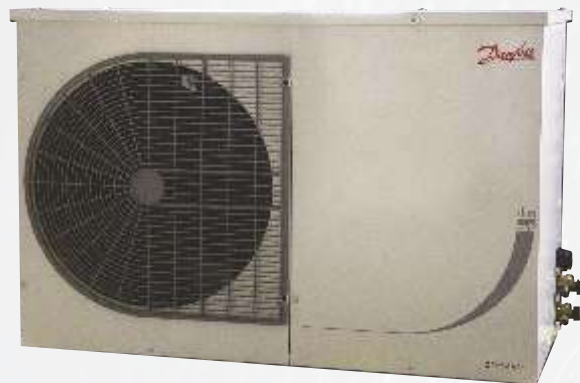
## CHADHA-DELTA - AN INTRODUCTION TO OUR PRODUCTS

### Hygiene Standards

After cooling the milk at the right temperature, the next important function of a milk tank is to keep the milk pure and clean. The smooth inner surfaces ensure the inner tanks are always germ free. Further, they facilitate easy cleaning of the tank. The unique central cleaning system comes with a dynamic spray-ball integrated in the agitator of the tank which is a source of high pressure water. And an optional automatic cleaning system helps in keeping the tank clean and hygienic.

### Prompt after Sales Service

Chadha Delta has a strong nationwide network of after sales service. The engineers are trained especially to understand and rectify the problems in a very short period.



### Salient features of Chadha Delta Bulk Milk Coolers

#### Better & Fast Cooling

The direct expansion technique allows milk to be cooled through direct contact with the evaporator. The agitator arrangement is also synchronized for proper mixing of the milk improves heat transfer.

#### Anti Freezing

The anti freezing protection part of the system ensures that the milk cooled doesn't freeze.

#### Advanced Control System

Chadha Delta comes with an advanced and user friendly control system made to suit the Indian conditions. The basic electronic control system comes with open type tanks that can read milk temperature. Besides, the control panel handles cooling and the agitator too.

### Reliability and Durability

Chadha Delta Milk Coolers meets the highest standards of reliability and durability. The entire range undergoes vigorous standard checks at testing and quality control, which are an essential part of the manufacturing system.



# Direct Expansion Tanks

## OPEN TOP CYLINDRICAL MILK COOLING TANK

Capacity available 100 Litres

The Chadha Delta Direct expansion Cooling Tank (Open Tank Round Shape) Capacity 100 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing units is Hermetic Type with R22 refrigerant.



### Features :

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator On/ Off
- Cooling On/Off
- Digital Temperature Display
- 35°C to 4°C within 3 Hours for 1st Milking and 10°C to 4°C within 1.5 Hours for the 2nd Milking for Two Milking Tank Design.
- Condensing Unit Hermetic, 220/415 Volts Single/Three Phase, 50 HZ Supply.
- Available in One, Two and Four Milking Tank Design
- All SS 304

# Direct Expansion Tanks

## OPEN TOP CYLINDRICAL MILK COOLING TANK

Capacities available 200, 250, 500, 1000 & 2000 Litres

The Chadha Delta Direct expansion Cooling Tank (Open Tank Round Shape) Capacity 250 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing units is Hermetic Type with R22 refrigerant.



### Features :

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator On/ Off
- Cooling On/Off
- Digital Temperature Display
- 35°C to 4°C within 3 Hours for 1st Milking and 10°C to 4°C within 1.5 Hours for the 2nd Milking for Two Milking Tank Design.
- Condensing Unit Hermetic, 220/415 Volts Single/Three Phase, 50 HZ Supply.
- Available in One, Two and Four Milking Tank Design
- All SS 304





## BULK MILK COOLERS

### Bulk Milk Coolers (Direct Expansion)

#### 35.00.05 Bulk Milk Cooling Tank (Bulk Coolers) 100 Litres

Direct expansion Cooling Tank (Open Tank Round Shape) Capacity 100 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing units is Hermetic Type with R22 refrigerant. The condensing unit is beneath the tank. It occupy very less space.



#### 35.00.10 Bulk Milk Cooling Tank (Bulk Coolers) 200 Litres

Direct expansion Cooling Tank (Open Tank Round Shape) Capacity 200 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing units is Hermetic Type with R22 refrigerant. The condensing unit is beneath the tank. It occupy very less space.



#### 35.1 Bulk Milk Cooling Tank (Bulk Coolers) 250 Litres

Direct expansion Cooling Tank (Open Tank Round Shape) Capacity 250 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing unit is Hermetic Type with R22 refrigerant.

Having Features of :-

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator On/ Off
- Cooling On / Off
- Digital Temperature Display
- 35° C to 4° C within 3 Hours for 1st milking & 10° C to 4° C within 1.5 hours for the 2nd milking.
- Condensing Unit Hermetic, 220 Volts Single Phase, 50 HZ Supply.
- Two Milking tank Design
- All SS 304





## BULK MILK COOLERS

### Bulk Milk Coolers (Direct Expansion)

- 35.2** Bulk Milk Cooling Tank (Bulk Coolers) 500 Litres  
Direct expansion Cooling Tank (Open Tank Semi Cylindrical Rectangular Shape) Capacity 500 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing unit is Hermetic Type with R22 refrigerant.

Having Features of :

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator On/ Off
- Cooling On / Off
- Digital Temperature Display
- 35° C to 4° C within 3 Hours for 1st milking & 10° C to 4° C within 1.5 hours for the 2nd milking.
- Condensing Unit Hermetic, 220v Single Phase, 50 HZ Supply.
- Two Milking tank Design
- All SS 304



- 35.3** Bulk Milk Cooling Tank (Bulk Coolers) 1000 Litres  
Direct expansion Cooling Tank (Open Tank Semi Cylindrical Rectangular Shape) Capacity 1000 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral condensing unit is Hermetic Type with R22 refrigerant.

Having Features of :

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator On/ Off
- Cooling On / Off
- Digital Temperature Display
- 35° C to 4° C within 3 Hours for 1st milking & 10° C to 4° C within 1.5 hours for the 2nd milking.
- Condensing Unit Hermetic, 220v Single Phase /415v 3 Phase, 50 HZ Supply.
- Two Milking tank Design
- All SS 304



- 35.4** Bulk Milk Cooling Tank (Bulk Coolers) 2000 Litres  
Direct expansion Cooling Tank (Open Tank Semi Cylindrical Rectangular Shape) Capacity 2000 Ltrs. Has large opening lids for easy access and rounded internal corners, to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50 mm. The integral double condensing units are Hermetic Type with R22 refrigerant.

Having Features of :-

- Low Running Cost
- High Standard of Milk Hygiene
- Reduced Electricity Consumption
- Agitator On/ Off
- Cooling On / Off
- Digital Temperature Display
- 35° C to 4° C within 3 Hours for 1st milking & 10° C to 4° C within 1.5 hours for the 2nd milking.
- Double Condensing Unit Hermetic, 220v Single Phase/415v 3 Phase, 50 HZ Supply.
- Two Milking tank Design
- All SS 304



# Direct Expansion Tanks

## OPEN TOP SEMI-CYLINDRICAL HORIZONTAL MILK COOLING TANK

Capacities available 500, 1000 & 2000 Litres

The CHADHA-DELTA range has been designed to cool milk from 35°C to 4° deg C within 3 hours from the start of milking, at high ambient temperature and the tank is available in 1, 2 and 4 milking tank design. Milk Hygiene is of paramount importance and CHADHA-DELTA open top tanks have large opening lids, for easy access and rounded internal corners to facilitate thorough cleaning. Careful attention has been paid to every feature of CHADHA-DELTA range design and tank insulation is provided by factory injected polyurethane foam, with an average thickness of 50mm. All control systems comprise solid state components. Condensing units are hermetic type and are Pre-gassed with R-22 refrigerant. The tanks are designed for optimum performance and will accept the next generation of refrigerants.



### Features :

- Low Running Cost.
- High Standard of Milk Hygiene.
- Reduced Electricity consumption.
- Agitator on/off.
- Cooling on/off.
- Digital Temperature Display.
- Thermostatic Temperature Control.
- 35°C to 4°C within 3 Hours for 1st Milking and 10°C to 4°C within 1.5 Hours for the 2nd Milking for Two Milking Tank Design.
- Condensing unit hermetic, 220/415 volts single phase and 3 phase, 50 Hz supply.
- Available in One, Two and Four Milking Tank Design also.
- All S.S. 304.





## BULK MILK COOLERS

### 35.5 MILK COOLING TANK ( ENCLOSED BULK COOLER) 2000 LTRS.

Delta Milk Cooling Tank (Fully Enclosed) with CIP. The washing is done by CIP with spray balls fitted inside the tank. The Automatic cooling control is complete with digital control panel. It has rounded internal corners to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50mm. The integral condensing units are Hermetic Type with R22 refrigerant.

Having features of :-

- Low Running Cost.
- High Standard of Milk Hygiene.
- Reduced Electricity consumption.
- Agitator on/off.
- Cooling on/off.
- Digital Temperature Display.
- Thermostatic Temperature Control.
- 35° C to 4° C within 3 Hours for 1st milking & 10° C to 4° C within 1.5 hours for the 2nd milking.
- Condensing unit hermetic, single phase and 3phase, 50 hz supply.
- Two milking tank design.
- All S.S. 304.
- Double Condensing unit Hermetic type, 415 Volts, 3 Phase, 50 Hz supply.



### 35.6 MILK COOLING TANK ( ENCLOSED BULK COOLER) 3000 LTRS.

As per above specification but having capacity of 3000 Ltrs.

### 35.7 MILK COOLING TANK ( ENCLOSED BULK COOLER) 4000 LTRS.

Delta Milk Cooling Tank (Fully Enclosed) with CIP. The washing is done by CIP with spray balls fitted inside the tank. The Automatic cooling control is complete with digital control panel. It has rounded internal corners to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50mm. The integral condensing units are Hermetic Type with R22 refrigerant.

Having features of :-

- Low Running Cost.
- High Standard of Milk Hygiene.
- Reduced Electricity consumption.
- Agitator on/off.
- Cooling on/off.
- Digital Temperature Display.
- Thermostatic Temperature Control.
- 35° C to 4° C within 3 Hours for 1st milking & 10° C to 4° C within 1.5 hours for the 2nd milking.
- Condensing unit hermetic, three phase, 50 hz supply.
- Two milking tank design.
- All S.S. 304.
- Double Condensing unit Hermetic type, 415 Volts, 3 Phase, 50 Hz supply.



### 35.8 MILK COOLING TANK (ENCLOSED BULK COOLER) 5000 LTRS.

As per above specification but having capacity of 5000 Ltrs.



## BULK MILK COOLERS

### 35.9 MILK COOLING TANK ( ENCLOSED BULK COOLER) 10000 LTRS.

Delta Milk Cooling Tank (Fully Enclosed) with CIP. The washing is done by CIP with spray balls fitted inside the tank. The Automatic cooling control is complete with digital control panel. It has rounded internal corners to facilitate thorough cleaning. Tank insulation is provided by factory injected polyurethane foam of 50mm. The integral condensing units are Hermetic Type with R22 refrigerant.

Having features of :

- Low Running Cost.
- High Standard of Milk Hygiene.
- Reduced Electricity consumption.
- Agitator on/off.
- Cooling on/off.
- Digital Temperature Display.
- Thermostatic Temperature Control.
- 35° C to 4° C within 3 Hours for 1st milking & 10° C to 4° C within 1.5 hours for the 2nd milking.
- Condensing unit hermetic, three phase, 50 hz supply.
- Four milking tank design.
- All S.S. 304.
- Four Condensing unit Hermetic type, 415 Volts, 3 Phase, 50 Hz supply.



### 35.10 Digital Dip Stick for Bulk Milk Cooler



# Direct Expansion Tanks

## FULLY ENCLOSED MILK COOLING TANK

Capacities available 1000, 2000, 3000, 4000 & 5000 Litres

CHADHA-DELTA Milk Cooling Tank (Fully Enclosed) with CIP The washing is done by CIP with spray balls fitted inside the tank. The Automatic cooling control is complete with digital control panel. It has rounded internal corners to facilitate through cleaning. Tank insulation is provided by factory injected polyurethane foam of 50mm. The integral condensing units is Hermetic Type with R22 refrigerant. The tanks are designed for optimum performance and will accept the next generation of refrigerants.



### Features :

- Low Running Cost.
- High Standard of Milk Hygiene.
- Reduced Electricity consumption.
- Agitator on/off.
- Cooling on/off.
- Digital Temperature Display.
- Thermostatic Temperature Control.
- 35°C to 4°C within 3 Hours for 1st Milking and 10°C to 4°C within 1.5 Hours for the 2nd Milking for Two Milking Tank Design.
- Condensing unit hermetic, single phase and 3 phase, 50 hz supply.
- Available in One, Two and Four Milking Tank Design.
- All S.S. 304.





# BMC with most Advance Controller for Remote Monitoring



- ★ Unique design to handle minimum milk capacity for cooling and also prevents ice formation in the Tank.
- ★ Designed with lower height for easy usage and for minimum floor area requirement.
- ★ Specially fabricated Insulated Manhole Cover with lock provision for enclosed tanks.
- ★ Evaporator Plate especially designed for Indian Summer/winter conditions.
- ★ Optional Ladder for accessing the inside of Milk Tank
- ★ Adjustable S.S Legs with ball feet and SS Floor plates for better alignment.
- ★ Uniquely designed Agitators for gentle agitation without fat separation.
- ★ Electronically controlled cooling & agitation program.
- ★ Tank available in 1 Milking, 2 Milking and 4 Milking designs
- ★ Standards as per ISO 5708.

Cloud based, mobile enabled automation, Internet based, real-time management with enhanced reporting, pilferage reduction & tamper proofing features.

#### Advantages

- Real time Temperature monitoring (Under/Over Cooling, Slow Cooling rate)
- Real time monitoring of Compressor/Agitator operation (Compressor ON/OFF, running time etc.)
- Critical Real-Time Alerts over SMS, E-mails
- DG/Grid Power Consumption
- Auto/Manual Operations
- CIP Adherence
- Daily / Weekly / Monthly / Quarterly / Yearly reports with detailed analytics
- Fault Reports
- Comparative Operating efficiency of the BMCs based on Vendors / Capacity / Geography
- Remote configuration of Cut-off temperature



Already sold thousands of Milk Cooling Tanks and operating successfully in various states of India & abroad. We have one of the largest facilities in India at 5.5 acres Factory complex on National Highway No.1 Haryana. Our Factory is equipped with latest modern machinery which includes Laser section, CNC S.P.M. machines, automatic welding and Factory injected automatic polyurethane plant for best insulation.

**New**

**Digital Dip Stick**

**Globally Competitive**

**Technologically Sound**

**Maintenance-Free**

**Energy Efficient**

**Cost Effective**

**Value for Money**



# Mini Dairies



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

[www.chadhasales.com](http://www.chadhasales.com)

## PROJECT DIVISION



## DAIRY PROJECTS – FROM COCEPTS TO COMPLETION

Chadha Sales Pvt Ltd (CSPL) is an accomplished Designer, Manufacturer and Supplier of Dairy Equipment–cum-MINI-DAIRIES and mid size Dairy projects on Turn Key Basis.

CSPL has decades of experience - offering innovative solutions to your problems – wherever you may be – from Leh to Kanyakumari or from Sikkim to Kutch- in all the corners.

We at Project division of CSPL interact with you to understand your requirements, put them on drawing boards and offer you **Total Solutions in:**

**Designing:** User friendly and energy efficient.

**Manufacturing:** Our equipments are fabricated as per International Standards

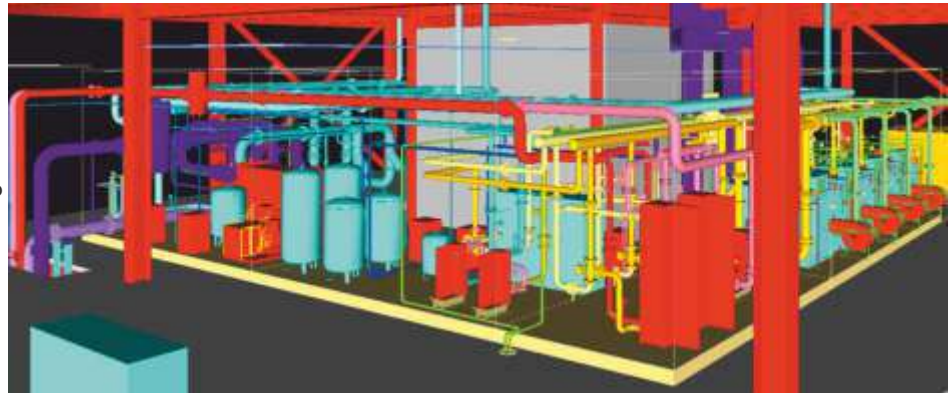
**Quality Assurance:** We have a planned QAP at each stage of manufacturing to offer you quality equipment

**Delivery:** We ensure Timely & Safe delivery

**Installation & Commissioning:** We offer projects on turnkey basis and commission the project to ensure agreed performance parameters are met.

**Training & Education:** We take responsibility to train your people in optimum operation of plant before handing over.

**After Sales Service:** Needless to say, we are available 9 weeks x 7 days



## CSPL Dairy Processing Plants

**At farm level:** CSPL Mini-Dairy at your Dairy Farm is provided with automatic milking machines, milk parlous and bulk milk coolers. Ensures best quality in milk production which in turn helps you to have best price for your produce and maximize your profits. **Further a standard product casted and dairy is offered for do ....** having milk 1000LP and more.

**Mini-Dairies :** Complete solution from Milk Reception, Testing, and Processing & Product Manufacturing – CSPL offers for Market Milk, Curd & Buttermilk (Lassi), Paneer, Butter & Ghee. Features of our Mini Dairies are:

Custom Built

Of International Standards

Energy efficient

Modular design

Capacities up to 5000 LPD

**HTST Pasteurization Plant for Mini-Dairies :** CSPL offers HTST Milk Pateurization plant with regeneration efficiency up to 92%. Thus you get big savings on energy costs. Units are complete with hot water generator & chilled water generator.

**HTST Pasteurization with Standardization:** CSPL offers 1000 LPH HTST Milk Pasteurization plant with on-line tri-purpose centrifugal separator to enable you clarify your milk, separate cream and to standardize the fat content as per PFA standards.

## DAIRY PLANTS (Capacity above 5000LPD)

CSPL offers Complete Dairy plants for capacities above 5000 LPD on turn key basis for Market Milk as pasteurized & poly pack or as UHT Milk aseptically packed. We offer you technology & solution for traditional Indian products like Paneer, Dahi, Lassi, Makhan and Ghee. We also have technology for Pasteurized Cream, Cheese, Yoghurt and fermented Milk Products. Plants include CIP system for maintaining cleaning & hygiene standards

Our plants can be offered as per your needs – in manual operation or semi-automatic or fully automatic with PLC based controls.





Left

The whole Set of Equipment for UHT Dairy Processing Plant



UHT-Milk with protein stabilization holding



Aseptic Plastic Milk Pouch Filling Machine with CIP System



Milk Homogenizer

## Automatic Aseptic Plastic Pouch Filling Machine

### Product Introduction

The machine adopts complete pneumatic structure and PCC intelligent computer controllable program control with stable running, simple operation and low maintenance cost. The products are continuously upgraded.

### Product Characteristics

- \* Good adaptability to film. Users have more options to select packing material suppliers and can better guarantee actual benefits.
- \* Due to the Special traction mechanism adopted, the traction force of film is very small so that the deformation of film is very small, which guarantee the safety of packing.
- \* Human-Machine communication in real sense. All the controls are realized directly through touch screen. After the production parameters such as temperature, speed, bag length, sealing and cutting time and filling quantity are set on the touch screen, PCC will directly send signals to each actuator to realize the adjustment of them. Any of the parameters can be freely adjusted.
- \* All actuators adopt the pneumatic control combination of Festo. The mechanism is simple, reliable, easy to adjust with good repetitive performance and without abrasion.
- \* It is provided with convenient fine adjusting mechanism for filling. The fine adjustment within 1~2g is very convenient and prompt.
- \* Rapid and effective alarming system guarantees the safety and reliability of equipment operation. All the control points where operation malfunctions may occur are provided with alarming mechanism.
- \* It is provided with the Most professional PCC control system in the packing industry. The world's first class brand - B&R industrial control system is adopted, which has rapid responding speed, stable and reliable performance.
- \* Material's real-time supervision system is adopted, which guarantees the precision of filling.
- \* Special tracking and locating control to the cursor which has accurate and rapid tracking, locating and saves power on time and cost.
- \* The communication linkage control coordinated with UHT system guarantees the output of high quality products.

### Product Parameters

Model	WB64B-3500	WB64B-6000	WB64B-9000	WB64B-9000
Bags/hr.	2000-3500	4000-6000	4500~9000	2500~3000
Bag's Size	100-500ml	100-500ml	100-500ml	500-1000ml
Electric Load	25KW	30KW	30KW	30KW
Air Pressure	>0.6 Mpa (Min.)	>0.6Mpa (Min.)	>0.6Mpa (Min.)	>0.6Mpa (Min.)
Size (mm)	2500x2100x3140	4600x1500x3600	4600x1500x3600	4600x1500x3600

### UHT-Milk Unit with Protein Stabilization Holding

#### Product Description

The sterilization process of pasteurizer not only can be suitable for common products. But also can satisfy special requirements of customers, for example long term production of products with granules or medium and high viscosity. Such as cream, pure milk etc. products (milk, fruit juice and cream) of high viscosity; products containing fiber and larger pulp granules, products of high acidity and products corrosive to the dead angle. The products can be pasteurized at a temperature of 85<sup>o</sup>-95<sup>o</sup>C.

#### Main Features

Hard to agglomerate, long working time; PLC control with simple and correct operation; touch screen display, which is direct and full; self provided CIP cleaning system, easy cleaning; reliable materials with high pressure withstanding capacity; low maintenance cost. It can be customized to satisfy individualized requirements of different customers.

### Main Technical Parameters

Name	Unit	TG-PUT-15	TG-PUT-20	TG-PUT-25
Production Capacity	t/h	2	3	4
Heat exchange area	m <sup>2</sup>	15	20	25
Temperature of material inlet	°C	5	5	5
Temperature of material outlet	°C	5	5	5
Sterilizing temperature	°C	85-95	85-95	85-95
Heat preservation period	s	15	15	15
Ice water consumption	multiple	3	3	3
Cooling Water consumption	multiple	2	2	2
Energy consumption	kw	10	10	12
Outline dimensions	mm	3500x1900x1880	3500x1900x1880	4500x1950x1880





### Mini Dairy for Pasteurized Milk in Pouches

This plant includes continuous systems of milk pasteurization using HTST Technology. The pasteurized milk is filled automatically in pouches. However for excess fat a provision for butter making is also provided. The plant will be equipped with Milk Reception, Storage, Pasteurization, Cream Separator, Automatic Form Filling & Sealing Machine, Butter Making, Mini Quality Control Laboratory, all utilities like refrigeration, hot water, and electricals for our supplies only. We shall also provide standard machinery layout, building plan, operational manual. The installation and commissioning, training and any other project management services will be provided on need based requisite only. We offer these plants in three standard capacities as below:

- 39.11.01 Mini Modular Dairy for Pasteurized Milk in Pouches 1000 Ltrs/day
- 39.11.02 Mini Modular Dairy for Pasteurized Milk in Pouches 2000 Ltrs/day
- 39.11.05 Mini Modular Dairy for Pasteurized Milk in Pouches 5000 Ltrs/day
  
- 39.11.10 Mini Modular Dairy for Pasteurized Milk in Pouches 10000 Ltrs/day
- 39.11.15 Mini Modular Dairy for Pasteurized Milk in Pouches 15000 Ltrs/day
- 39.11.20 Mini Modular Dairy for Pasteurized Milk in Pouches 25000 Ltrs/day

### Composite Dairy Plants for Milk Products Yogurt/Butter Milk/Lassi/Curd

This plant will consist of Milk Reception, Homogenization, Heating, using LTLT (Batch) technology. The final product will be packed using manual filling & sealing system in Plastic Pre-formed cups/Glass/Pouches. This unit will have provision for Incubation Chamber and cold storage for the finish product the plant will come with all the utilities for heating, chilled water, and electrical for our supplies only. The plant will also come with Mini Quality Control Lab. These plants are available in two standard capacities as given below:

- 39.22.05 500 LPD
- 39.22.20 2000 LPD
- 39.22.25 3000 LPD
- 39.22.30 5000 LPD

### Cheese / Paneer making Unit

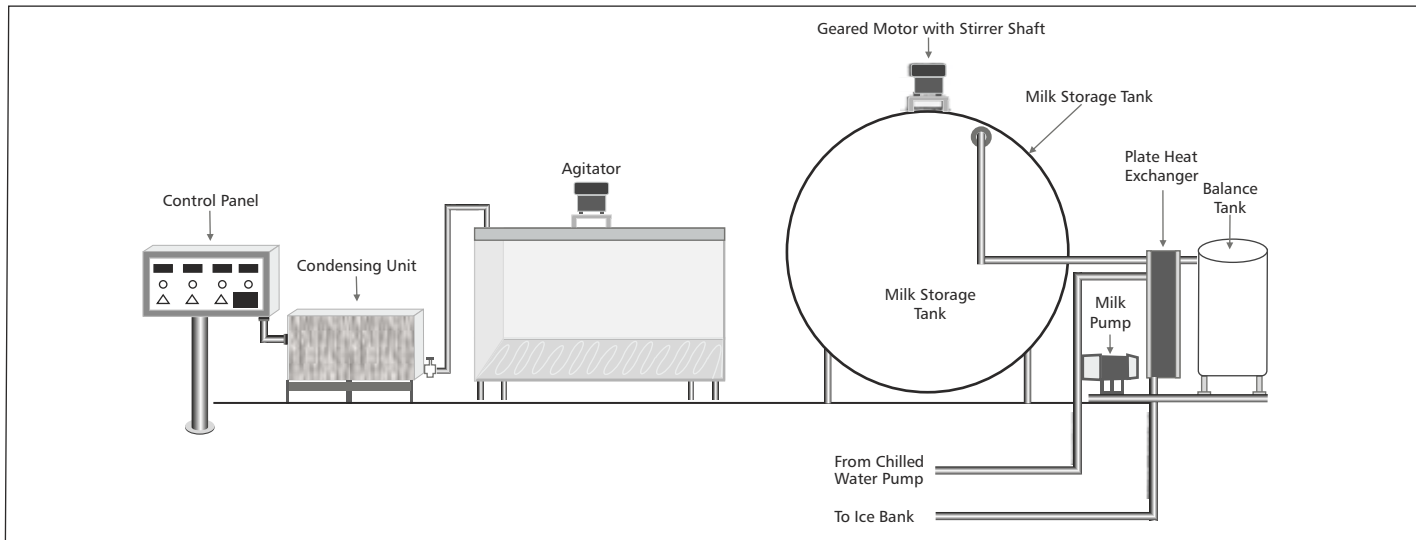
The plant will comprise of Milk Reception, Chilling, Storage, Milk Culturing /Renneting / Acidification System, Cooking, Milling, Moulding, Pressing, Brining, Packing and storage. These Units can process Cheddar Cheese, Mozzarella Cheese & Cottage Cheese (Paneer). The plant will come with all the utilities like refrigeration, heating and electrical for our supplies only. The Plant will have Mini Quality Control Lab also.

These plants are available in:

- 39.33.10 100 kg/day
- 39.33.50 500 kg/day.
- 39.33.65 1000 kg/day.



### Instant Milk Chilling Units (IMCU)



#### Instant Milk Chilling Unit (IMCU) 10000 Litres Per Day

36.1 IMCU WILL WORK ON 1000 LPH INSTANT CHILLING BASIS. Milk will be cooled from 35° C to 4° C.

The package includes :-

- 1 No. Balance tank 200 Litre
- 1 No. Milk Pump 1 HP
- 1 No. In line Milk Filter
- 1 No. Plate Heat Exchanger 1000 Litre Per Hour Capacity
- 1 No. Milk Storage Tank Double Compartment 10000 Litre having Inner & Outer Shell of S.S construction.
- 2 No. Semi Hermetic Compressor of 7.5 TR. with IBT, spray pound and control panel.
- 1 Set Chilled water pump and Condenser water pump.
- 1 Lot SS/MS/GI Pipeline and fittings
- 1 Lot Electrical panel and cabling.

#### Instant Milk Chilling Unit (IMCU) 5000 litres Per Day

36.2 IMCU WILL WORK ON 1000 LPH INSTANT CHILLING BASIS. Milk will be cooled from 35° C to 4° C.

The package includes :-

- 1 No. Balance tank 100 Litre
- 1 No. Milk Pump 1 HP
- 1 No. In line Milk Filter
- 1 No. Plate Heat Exchanger 1000 litre Per Hour Capacity
- 1 No. Milk Storage Tank Double Compartment 5000 Litre having Inner & Outer Shell of S.S. construction.
- 2 No. Hermetic Compressor of 5 TR. with IBT and control panel.
- 1 Set Chilled water pump and Condenser water pump.
- 1 Lot SS/MS/GI Pipeline and fittings
- 1 Lot Electrical panel and cabling.

#### Instant Milk Chilling Unit (IMCU) 2500 litres Per Day

36.3 IMCU WILL WORK ON 500 LPH INSTANT CHILLING BASIS. Milk will be cooled from 35° C to 4° C.

The package includes :-

- 1 No. Balance tank 100 Litre
- 1 No. Milk Pump 1/2 HP
- 1 No. In line Milk Filter
- 1 No. Plate Heat Exchanger 500 litre Per Hour Capacity
- 1 No. Milk Storage Tank Single Compartment 2500 Litre having Inner & Outer Shell of S.S construction.
- 1 No. Sealed Hermetic Compressor of 2.5 TR. with instant chiller, spray pound and control panel.
- 1 Set Chilled water pump and Condenser water pump.
- 1 Lot SS/MS/GI Pipeline and fittings
- 1 Lot Electrical panel and cabling.



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**MILK CHILLING UNITS & ACCESSORIES**

**CHEESE / PANEER VATS & ACCESSORIES**

**Plate Coolers / Chiller**

The most highly efficient and cost-effective method to pre-cool milk Having features such as Instant Milk Cooling, Reduce Energy Costs, A wide range enables the most cost effective size to be used, virtually maintenance free. Expandable to meet future increase in your Milk Production.

- Herringbone Plate : Bright annealed Stainless Steel
- End Plates : Grade 304 Stainless Steel
- Gaskets : Food Grade Rubber
- Water Flow : Minimum-Equal to Milk Flow. Maximum 3 Times Flow
- Water/Milk Pressure : Maximum 2 Bar (29 PSI)



- 37.1 .....as above.....having capacity of 500 LPH
- 37.2 .....as above.....having capacity of 1000 LPH
- 37.3 .....as above.....having capacity of 1500 LPH
- 37.4 .....as above.....having capacity of 2000 LPH
- 37.5 .....as above.....having capacity of 2500 LPH
- 37.6 .....as above.....having capacity of 3000 LPH
- 37.7 .....as above.....having capacity of 3500 LPH
- 37.10 .....as above.....having capacity of 5000 LPH
- 37.15 .....as above.....having capacity of 7500 LPH
- 37.20 .....as above.....having capacity of 10000 LPH
- 37.10.05 .....as above but for Brine water application on water side having plate of SS 316 capacity of 5000 LPH
- 37.20.05 .....as above but for Brine water application on water side having plate of SS 316 capacity of 10000 LPH

**Dump Tank**

This is used as receiving tank made of 2mm S.S. 304. Sheet Dump tank will be rectangular shaped, open top with 1.6 mm, S.S. Cover, 4 nos. S.S. Tubular leg and with S.S. plug cork 38 mm diameter of SMS type.



- 38.1 .....As Above.....having capacity of 1000 LPH
- 38.2 .....As Above.....having capacity of 500 LPH
- 38.3 .....As Above.....having capacity of 250 LPH

**Float Balance Tank Capacity 20 Ltrs.**

- 39.1 Balance Tank will be of stainless steel 304 quality, inside and outside polished, equipped with SS 304 Float and Loose cover.



**Float Balance Tank Capacity 250 Ltrs.**

- 39.2 Balance Tank will be of stainless steel 304 quality, inside and outside polished, equipped with SS 304 Float and Loose cover.



- 39.5.1 Cheese / Paneer Vat 500 Ltrs. Made out of SS-304 in tripple jacket with provision for hot water circulation. The Vat is equipped with Agitator and Cheese Knife.



- 39.5.2 Cheese / Paneer Vat 1000 Ltrs. as above specification.
- 39.5.3 Cheese / Paneer Vat 2000 Ltrs. as above specification.

- 39.5.10 Cheese / Paneer Press Pneumatically operated having capacity to hold 5 moulds of 10 kg. The machine is supplied without hoops and Compressor.



- 39.5.12 Cheese / Paneer Press Pneumatically operated having capacity to hold 5 moulds of 20 kg. The machine is supplied without hoops and Compressor.

- 39.05.15 Cheese / Paneer Press Screw operated having capacity to hold 2 moulds of 10 kg. The machine is supplied without hoops.



- 39.05.16 Cheese / Paneer Press Screw operated having capacity to hold 2 moulds of 5 kg. The machine is supplied without hoops.

- 39.05.17 Cheese / Paneer Press Screw operated with inbuilt holding mould. Suitable for production of 5 -15 kg Paneer/cheese .



- 39.5.19 Cheese / Paneer hoops made out of SS 304 in 3 sections is available in rectangular or round shape having capacity of 10 kg.



- 39.5.20 Cheese / Paneer hoops made out of SS 304 in 3 sections is available in rectangular or round shape having capacity of 10 kg.



- 39.5.21 Cheese / Paneer hoops made out of SS 304 in 3 sections is available in rectangular or round shape having capacity of 20 kg.





39.5.30 Mozzarella Cheese hoop made out of SS 304 having single piece construction capacity 1 Kg.

39.5.31 Mozzarella Cheese hoop made out of SS 304 having single piece construction capacity 2 Kg.

- 30.0 as above of 3000 LPH capacity at 8 MWC with 0.5 HP Motor
- 30.1 as above of 5000 LPH capacity at 10 MWC with 1 HP Motor
- 30.1.5 as above of 7000 LPH capacity at 18 MWC with 1.5 HP Motor
- 30.2 as above of 7000 LPH capacity at 20 MWC with 2 HP Motor
- 30.3 as above of 10000 LPH capacity at 20 MWC with 3 HP Motor
- 30.4 as above of 15000 LPH capacity at 35 MWC with 5 HP Motor

### Batch Type Milk Bottle Sterilizer

32.1 Batch Milk Bottle Sterilization unit made of 6 mm M.S Sheet rolled welded construction, horizontal with M.S Frame for placing bottle Crate Cap. 480 x 200 ml bottle per batch. The sterilizer is supplied with quick closing/ opening screw type door and steam spraying device on the top and bottom. It is supported on four MS Pipe for floor mounting. The following Accessories supplied with sterilizer :

- 1 No. Steam Trap
- 1 No. Pressure Gauge
- 1 No. Safety Valve
- 1 No. Blow off Cock
- 1 No. Dial Thermometer



### Bottle Capping Machine

32.1.2 Bottle Capping Machine (Hand Operated)



### Pasteurizer Unit Continuous

- 33.1 Pasteurizer Unit Continuous MSMP1k 1000 LPH as per below specification the capacity will be 1000 LPH
- 33.2 Pasteurizer Unit Continuous MSMP 500 LPH as per below specification the capacity will be 500 LPH
- 33.3 Pasteurizer Unit Continuous MSMP 250 LPH as per below specification the capacity will be 250 LPH

### Batch Pasteurizer

The Batch Pasteurizer will be triple walled. The inner shell fabricated from stainless steel 304 Quality sheet. Sufficient insulation will be provided to ensure no heat loss. One reduction gear box attached with electric motor fitted on the top. Agitator SS 304 with shaft and blade will be provided on the top.



- 33.40 .....same as above in 500 Ltrs
- 33.41 .....same as above in 250 Ltrs
- 33.42 .....same as above in 100 Ltrs
- 33.43 .....same as above in 40 Ltrs

### Ghee Kettle (Steam Operated)

The Ghee Kettle will be triple walled. The inner and outer shell fabricated from stainless steel 304 Quality sheet. Sufficient insulation will be provided to ensure no heat loss. One reduction gear box attached with electric motor fitted on the top. Agitator SS 304 with blade, will be provided on the top.

- 33.40 .....same as above in 500 Ltrs
- 33.41 .....same as above in 250 Ltrs
- 33.42 .....same as above in 100 Ltrs



# Pasteurization Unit Continuous

## Features :

- ☑ Inbuilt stainless steel electrical water heating set.
- ☑ Set of temperature regulating equipment consisting of Control Panel for controlling of the pasteurization and outlet temperature.
- ☑ It is provided with an electrical water heater, thus it can be used, where steam or hot water isn't available.
- ☑ This unit is used for pasteurization of milk and cream, but is also applicable for other products.
- ☑ Balance Tank is made of stainless steel, polished inside & outside, equipped with S.S. Float & lose cover.
- ☑ Stainless steel centrifugal pump for product complete with electrical motor.
- ☑ Plate Heat Exchanger with frame clad with stainless steel. The Plate pack is clamped between frame header and follower by means of stainless steel tie bars placed along the edge of the frame.
- ☑ External Holding Time : 20 Seconds
- ☑ Pasteurization Temp: 73 °C/ 83 °C.
- ☑ Set of internal stainless steel pipes, fittings, and base frame for mounting of the equipment.
- ☑ Unit Consists of - Receiving tank, inline Filter, Plate Heat Exchanger, Control Panel, Holding Tubes, Manual Flow Controller, Flow Diversion Valve, Hot Water Pump, Hot Water Generator or Steam Mixing Battery.



Models available

MSMP1k - Pasteurization Unit Continuous (with Hot Water Generator)

MSMP1kH - Pasteurization Unit Continuous (with Steam Mixing Battery)

# Instant Water Chiller

Premier range of Air-cooled recirculating Water chiller system represents the ideal solution for the Water cooling of Dairy process. Water chiller Systems & designed to facilitate quick installation for all packaged chilled Water system requirements.

## Salient Features of Process Water Chiller :

- Compact skid mounted Water chillers system, ready to install.
- Water Chillers are fully automatic with tried & tested controls.
- Quick chilling is ensured with plate type PHE or shell and tube Heat exchangers / evaporators.
- Our Water chillers use energy saving with cycling fans and high efficiency fin tube air-cooled condensers.
- Water Chillers offer Guaranteed cooling capacity at rated parameters.
- Specific design to meet customer requirement for temperatures upto ( -40 deg c) also available in addition to standard models.

## The Packaged Chiller Comprises of :

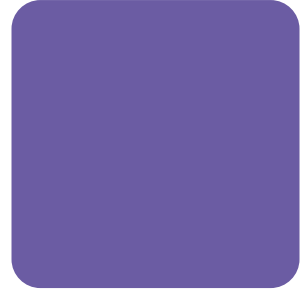
- Hermetic / Semi hermetic sealed / screw compressors with internal over load protection.
- Air cooled condenser with copper tubes and Aluminum fins.
- Plate type / shell and tube evaporator for high efficiency.
- Stainless Steel storage tank with external insulation to prevent moisture ingress and condensation.
- Refrigerant circuit consists of reputed filter dryer, thermostatic expansion valve / capillary, sight glass, accumulator. and other controls from Danfos /Sporlan / Alco
- Controls with safety devices - high and low refrigerant switches, low water level, flow switch.
- All Refrigerant tubing is high grade copper.
- Digital temperature indicator controller for precise temperature controlling.
- Audio visual indication for controls and safeties.
- Pumps suitable for high flow and pressure.



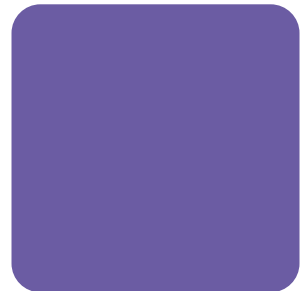
# Milk Pumps

The motor will be directly coupled to the pump having 2900 RPM and TEFC design reputed make suitable for operation on Single/ 3 phase, 50 Hz, A.C. Supply. All the parts of the pump coming into direct contact with milk will be of stainless steel of AISI 304 quality and will be finished to dairy standards. The motor portion will be S.S shrouded. The shroud will have air circulation holes and cable entry. The pumps will be fitted with 3 nos. SS legs.





## Milking Machines & Accessories



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

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## MILKING MACHINES & ACCESSORIES

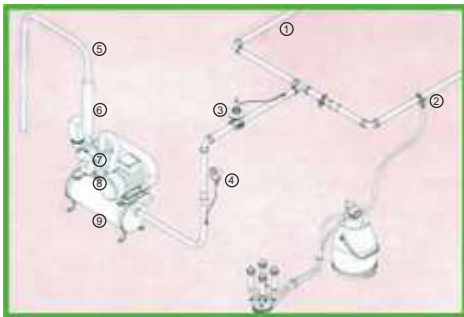
### Handy Milker

- 40.00.05 Hand operated Milking Machine with one can and cluster assembly. A patented low cost milking machine. Suitable for small milk heard and places where there is no electricity.



### Milking Machine Stationery

- 40.1 Milking Machine Model CS-1  
Milking Machine with one can and cluster assembly, floor mounted, with high quality components Like pulsator, set of liners, set of teat Cups, milk claw and vacuum controller.
- 40.3 Milking Machine Model CS-2  
Milking Machine with two can and cluster assembly, floor mounted, With high quality components Like pulsator, set of liners, set of teat Cups, milk claw and vacuum controller.



### Milking Machine Trolley Mounted

- 40.2 Milking Machine Model CS-1T (trolley mounted)  
Milking Machine with one can and cluster assembly, trolley mounted, with high quality components Like pulsator, set of liners, set of teat cups, milk claw and vacuum controller.



- 40.02.02 Milking Machine Model CS-1TG (Trolley Mounted)  
Milking Machine with one can and cluster assembly, trolley mounted, With high quality components Like pulsator, set of liners, set of teat cups, milk claw and vacuum controller. Petrol Engine is also mounted on trolley.



- 40.4 Milking Machine Model CS-2T (Trolley Mounted)  
Milking Machine with two can and cluster assembly, trolley mounted, With high quality components Like pulsator, set of liners, set of teat cups, milk claw and vacuum controller.



### Milking Machine Stationery

- 40.6 Milking Machine Model CS-4  
Milking Machine with four can and cluster assembly, floor mounted, With high quality components Like pulsator, set of liners, set of teat Cups, milk claw and vacuum controller.
- 40.8 Milking Machine Model CS-6  
Milking Machine with six can and cluster assembly, floor mounted, With high quality components Like pulsator, set of liners, set of teat Cups, milk claw and vacuum controller.





## MILKING MACHINES & ACCESSORIES

### Milking Machine Accessories

41.1 Strip Cup Assembly



41.2 Drinking Bowl Plastic



41.3 Ear Tag for Cows or Buffaloes



41.4 Ear Tag Applicator



41.5 Dip Cup



41.5.1 Dipping concentrate for udder hygiene for dipping and spraying Purpose



41.5.2 Hygienic Milking Kit for Farmers



41.6 Brush set (set of 4 Brushes)

41.7 Tube Brush with connector

41.8 Liner Brush

41.9 Claw Brush

41.10 Extensions for tube brush (Set of 3 pcs)

41.11 MS Clamp for P.V.C Pipe

41.12 Special CAS Oil for Vacuum Pump 1Ltr.

### Milk Can Assembly & Parts

41.13 Milk Can Assembly to fit with any make with complete Milk Can, Can Cover Assembly, Pulsator, Cluster set and Vacuum Tube.

41.14 Cluster Assembly

41.15 Teat Cup Stainless Steel (set of 4Nos)

41.16 Pulsator (oil free & adjustable)

41.17 Nipple for pulsator SS (Required to fit S.A.C. Pulsator on other make)

41.18 Spring for Pulsator

41.19 Milk Claw

41.20 Non return valve

41.21 Can Cover of stainless steel

41.22 Can Seal Ring

41.23 Plastic clamp for T.P.T & M.T. (set of 2 Nos)

41.24 Plastic Support for twin pulsator tube (set of 2 Nos)



### Rubber Pipes and Tubes

41.25 Vacuum Hose Long

41.26 P.V.C. Transparent Milk Tube

41.27 Short Pulsation Tube (set of 4 Nos)

41.28 Twin Pulsator Tube

41.29 Vacuum Regulator

### Vacuum Pipe Line

41.30 P.V.C Rigid pipe length 3meter

41.31 P.V.C coupler (set of 2 Nos)

41.32 P.V.C Bend

41.33 P.V.C Tee (set of 2Nos)

41.34 P.V.C End Cap (set of 2Nos)

41.35 Vacuum Cock

41.36 Tee set for Vacuum Cock

41.37 Tee set for Vacuum Gauge

41.38 Vacuum Gauge

## DRINKING BOWL FOR COWS

FOR FARMS WHO CARE FOR HYGIENE AND WELL BEING OF ANIMALS

### FEATURES :

- Constructed of heavy duty Nylon Materiel Plastic.
- Includes push paddle and exchangeable valve.
- Mounting with 4 screws.
- Push valve, the water flows smoothly without disturbing the cows.
- Possible to use with calves.
- Very easy to clean.
- Eliminates the risk in contamination to the water.





**Khoa Machine (Milk Condensing Unit)**



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

[www.chadhasales.com](http://www.chadhasales.com)





## KHOA MACHINE (Milk Condensing Unit)

### Khoa Machine Milk Condensing Unit

#### Features :

- This machine is used for making Khoa from milk.
- It can be used for mixing of Khoa and sugar for making Pedha & Sweets.
- The machine can be used for variety of recipes where heating and mixing is involved.
- It is available in 3 different capacity.
- The machine is available in choices of LPG Gas operated or Diesel operated.
- The top pan is made of SS-304 and base of Pan is made of thick Mild Steel Sheet for even distribution of heat at bottom.
- The base of pan is also available in SS 304 on special request.
- The top pan revolves with fixed scrapped agitator and fire flame are given at bottom by means of LPG Gas or Diesel.



#### Khoa Machine

##### Khoa Machine 15 Ltr. Capacity

###### 42.1 Gas Operated Model

It Prepare Khoa of 10 Litre of Milk, It takes around 55 Minutes and Consumes about 0.8 Kg. of Gas, Motor -1/4 H.P. (1 No), Weight -150 Kg. Approx. Size - L 1066 mm x B 760mm x H 1066 mm, Volume of Container :- 55 Litre with S.S. Side Cover.

###### 42.2 Diesel Operated Model :-

It Prepare Khoa of 10 Litre of Milk, in around 45 Minutes and consume about 1.4 Litre of diesel, Motor -1/4 H.P., Weight -180 Kg. Approx. Size - L 1066 mm x B 762 mm x H 1055 mm. Volume of Container 55 Litre with S.S. Side Cover.

#### Khoa Machine 30 Ltr. Capacity

###### 42.3 Gas Operated Model

It prepare Khoa of 20 Litre of Milk in around 55 Minutes and Consumes about 1.5 Kg. of Gas. Motor - 1/2 H.P., Weight - 180 Kg. Approx. Size - L 1220 mm x B 760 mm x H 1066. Volume of Container 105 Litre with S.S. Side Cover.

###### 42.4 Diesel Operated Model :-

It Prepare Khoa of 20 Litre of Milk, It takes around 45 Minutes and Consumes about 2.5 Litre of Diesel, Motor - 1/2 H.P., Weight -260 Kg. Approx Size - L 1372 mm x B 915mm x H 1055 mm Volume of Container 105 Litre with S.S. Side Cover.

#### Khoa Machine 60 Ltr. Capacity

###### 42.5 Gas Operated Model

It Prepare Khoa of 30 Litre of Milk in around 45 Minutes and Consumes about 2.5 Kg. of Gas. Motor 1 H.P., Approx. Weight - 280Kg. Approx. Size L 1375 mm x B 1066 mm x H 1145 mm. Volume of Container :225 Litre with S.S. Side Cover.

###### 42.6 Diesel Operated Model

It Prepare Khoa of 30 Litre of Milk, in around 40 Minutes and Consumes about 3.5 Litre of Diesel, Motor -1 H.P., Weight -345 Kg. Approx. Size - L1525mm x B1066mm x H 1145mm. with S.S. Side Cover, volume of container 225 Liter.



# Milk Vending Machines



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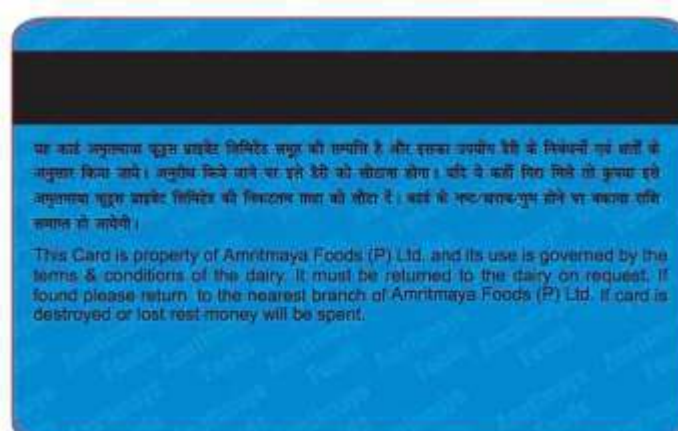


## INTRODUCTION - MILK VENDING MACHINES

In a bid to improve the quality of milk and meet its high demand, Chadha Sales Pvt. Ltd. country's largest Milk Vending Machine Manufacturer, has introduced various models of milk dispensers. They will allow consumers to access processed milk at a low price. The dispensers are strategically located with enabling consumers to buy whatever quantity they desire using their own containers.

The consumers are able to buy processed / raw milk at which provides a better alternative to buying unprocessed milk locally. Consumers will be getting clean milk unlike that sold at various local sales in cans.

The introduction of these vending machines was attributed to disagreements between the dairy farmers; the farmers claimed that they were getting little money for their milk. By using these vending machines farmer can sell there milk at a better price in market hence making more profits.







## MILK VENDING MACHINES

### Automatic Milk Vending Machines for loose milk

**43.6.1** Single Delivery - SS - Refrigerated - 200L All S.S. Body, movable on wheels, 200 ltrs. S.S. Tanks, insulated with PUF with suitable refrigeration system, Single delivery point push button operated, Agitator, and Push Button Electronic Control panel for automatic dispensing of 500 ml.

**43.6.3** As above but of 300 litres capacity.

**43.6.4** As above but of 400 litres capacity.

**43.6.5** As above but of 500 litres capacity.



**43.9.1** Double Delivery - SS - Refrigerated - 400Ltr. All S.S. Body, movable on wheels, 2x200 ltrs. S.S. Tanks, insulated with PUF with suitable refrigeration system, Single delivery point push button operated, Agitator, and Push Button Electronic Control panel for automatic dispensing of 250ml., 500 ml. & 1000ml.



**43.9.1** Triple Delivery - SS - Refrigerated - 500Ltr. All S.S. Body, movable on wheels, 500 ltrs. S.S. Tanks, insulated with PUF with suitable refrigeration system, Single delivery point push button operated, Agitator, and Push Button Electronic Control panel for automatic dispensing of 250ml., 500 ml. & 1000ml.



**43.9.2** Road Milk Vending Machine 500 ltr. Suitable for mounting on lorries. Battery operated through vehicle. Push Button Electronic Control panel for automatic dispensing of 250ml., 500 ml. & 1000ml.



**43.9.2** Road Milk Vending Machine 300 ltr. Suitable for mounting on lorries. Battery operated through vehicle. Push Button Electronic Control panel for automatic dispensing of 250ml., 500 ml. & 1000ml.



**43.9.1** Single Delivery with S.S. Float Balance Tank 20 Ltr. Float balance tank fitted with three port valve and 500 ml beaker used as an extension to main tank



**43.9.2** Single Delivery with S.S. Tank - 150 Ltr. SS tank fitted with three port Valve and 500 ml beaker for retailing or filling purpose. The tank will have round lid with knob and 3 adjustable legs.



**43.10** Single Delivery - FRP- Electronic- Push Button 200 L 200 Ltrs, capacity FRP light weight insulated tank, with Electronic push button operated, single delivery point, can be placed in dealer / agent shop.



**43.11** Single Delivery - FRP - Mechanical- 200L 200 Ltrs. capacity FRP light weight insulated tank, with mechanically operated single delivery point, and suitable for mounting on cycle Rickshaw.



### Spare parts of milk vending systems

**44.1** Measuring Beaker only for Mechanical vending 500 ml

**44.2** Measuring Beaker only for Mechanical vending 1000 ml

**44.5** Three port valve for mechanical beaker.

**44.7** Mechanical Vending set complete with beaker 500 ml, three port valve, lever & filling tube.

**44.8** Mechanical Plunger complete.

**44.8.1** Rubber Bellow for above.

**44.9** Operating lever S.S.



# Automatic Milk Vending Machines for Loose Milk Marketing

Stationary  
Type

3 in 1

- Storage
- Cooling
- Dispensing

## Features:

- ✓ The Machine is made up from Stainless Steel to facilitate Hygienic way of dispensing Loose Milk
- ✓ Refrigerated direct expansion Tank for maintaining the temperature at 4°C
- ✓ Electronic Push button operated control panel with separate buttons for dispensing 250ml, 500ml and 1000ml.
- ✓ Optional buttons are available on request for bulk sale of 2000ml and 4000ml.
- ✓ Top up facility Button in control panel.
- ✓ Battery with charger is also provided for uninterrupted power supply for vending milk up to 3 hours
- ✓ CIP cleaning with shower for the tank is provided
- ✓ SS304 agitator blade for even distribution
- ✓ Optional Heater and Hot water tank for CIP
- ✓ SS Door with locking arrangement
- ✓ The body is placed on 4 Nos Wheels for easy movement
- ✓ Top Door Sealing facility

1st Option Standard Panel



2nd option with smart card



3rd option available is "Coin Vending"



200  
300  
500  
Ltrs Capacity of Tank


# Road Milk Vending Machine




**Already successfully running in Punjab, Haryana, Uttranchal & U.P.**

Road Milk Vending Tanker - 500 Ltrs. consisting of :

- ★ SS inner & SS outer Shell Tanker with bottom attachment suitable for the vehicle
- ★ With Top SS main hole
- ★ With CIP valve for cleaning
- ★ Single delivery electronic push button panel for automatic dispensing.
- ★ Also available in various sizes and capacities.

1st Option Standard Panel 

2nd option with smart card 

3rd option available is "Coin Vending"



**200  
300  
500  
Ltrs** Capacity of Tank





**Weighing Balance / Scales**



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

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## WEIGHING BALANCE / SCALES

### Milk Recording Scale (Mechanical)

- 46.1.0 Milk recording scale mechanical hanging type, "Salter Make" Weighing capacity 25Kg division in 100gm
- 46.1.1 Milk recording scale mechanical hanging dial type reading "Salter Make" Weighing capacity available in 50Kg division in 100gm
- 46.1.5 Milk recording scale Electronic hanging type reading "Smart Make" Weighing capacity available in 25 Kg or 50Kg division in 10gm



### Precision Lab Balances (Electronic)

- 46.2.0 Electronic Precision Balance having maximum capacity of 150gm with least count of 5mg. Round loading pan of 115mm dia made in stainless steel. The balance is available in Backlit LCD Display or Bright Red LED Display with Battery Backup
- 46.2.1 ...as above...but capacity of 300 grams with least count of 10 mg
- 46.2.3 ...as above...but capacity of 600 grams with least count of 10 mg
- 46.2.6 ...as above...but capacity of 750 grams with least count of 10 mg
- 46.2.8 ...as above...but capacity of 1200 grams with least count of 10 mg



### Boss Table Top Scale (Electronic)

- 46.4.0 The ultimate performance and price package, Up to 100,000 external display divisions, Piece Counting / Percentage Weighing Modes, Manual / Auto Accumulation modes, Auto Zero, Glow Control, Pre Tare, Anti Vibration Mode, Weight verification with 10x accuracy ( $d=e/10$ ), Backup of 50 hrs supported with a rechargeable battery, having maximum capacity 15 Kg with least count of 2 gram. Stainless Steel platform of size 235mm X 345mm.  
Optional: Direct printing of shop details, weight, date/time
- 46.4.1 ...as above...but capacity of 30 Kg with least count of 5 gram.



### Aqua Water Proof Dairy Scale (Electronic)

- 46.6.1 The ultimate performance and price package, Up to 100,000 external display divisions, Piece Counting / Percentage Weighing Modes, Manual / Auto Accumulation modes, Auto Zero, Glow Control, Pre Tare, Anti Vibration Mode, Weight verification with 10x accuracy ( $d=e/10$ ), Backup of 50 hrs supported with a rechargeable battery, having maximum capacity 3 Kg with least count of 50 mg. Stainless Steel platform of size 230mm X 197mm.
- 46.6.3 ..as above...but capacity of 6Kg with least count of 100mg
- 46.6.4 ..as above...but capacity of 15Kg with least count of 200mg
- 46.6.6 ..as above...but capacity of 30Kg with least count of 500mg



### Bench Scale (Electronic)

- 46.7.0 Electronic Bench Scale having maximum capacity of 30 Kg with least count of 5 gram. Stainless Steel platform of size 400 mm X 400 mm. The scale is available in bright RED LED display with battery backup.
- 46.7.1 ...as above...but capacity of 60Kg with least count 10 gram
- 46.7.2 ...as above...but capacity of 120Kg with least count 20 gram



### Platform Scale (Electronic)

- 46.9.0 Electronic Heavy Duty Platform scale having maximum capacity of 200Kg with a least count of 50 grams. Stainless Steel platform size of 750mm x 750mm. The scale is available in bright RED LED display with battery backup.
- 46.9.1 ...as above...but capacity of 300 Kg with least count of 50 gram
- 46.9.2 ...as above...but capacity of 500 Kg with least count of 100 gram



### Weigh Bowl Weigh Scale (Electronic)

- 46.10.0 Electronic Weigh Bowl Weigh scale having a maximum capacity of 250Kg with a least count of 50gm. The scale has a stainless steel weigh bowl of 250Kg capacity made as per N.D.D.B specifications with digital display indicator. The scale is available in bright RED LED display with battery backup.
- 46.10.1 ...as above...but capacity of 500 Kg with least count of 100 gram



### Livestock Weighing Scale (Electronic)

- 47.1.0 For precise weight measurement of individual animals, having Weighing maximum capacity of 1000 Kg with a display resolution of 1kg
- 47.1.1 ...as above...but of maximum capacity of 2000 Kg with a display resolution of 2kg





HOMOGENIZER

(GJJ model series high pressure homogenizer)



GJJ series high pressure homogenizer



GJJ series extra high pressure homogenizer



GJJ series high pressure homogenizer

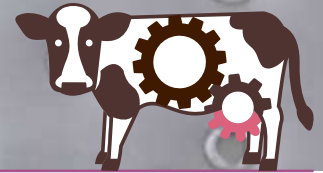


GJJ series extra high pressure homogenizer



GJJ series extra high pressure homogenizer





## HOMOGENIZER

GJJ series high pressure homogenizer is a kind of a new product developed by us according to worldwide up-to-date technology in 1990s. It is applied to the homogenization and emulsification of liquid material (liquid-liquid phase or liquid-solid phase) with viscosity below 0.2Pa.s and temperature lower than 80°C.

These materials include dairy food, cosmetics, medicine and so on.

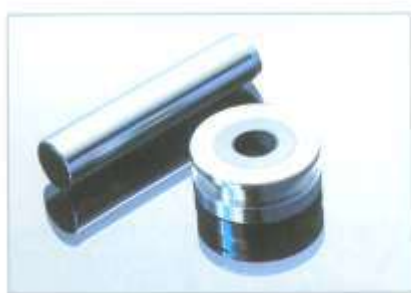
In time of operation, this product conveys processed material to homogenizing valve in a high pressure way by means of triple plunger reciprocating pump to make the material acted upon by composite force like turbulent flow, positive hole and shearing at the moment when it flows by the small gap between valve disc valve seat, thus achieving the goal of homogenization and emulsification.

High pressure homogenization has following excellent features :

- Better stability
- Improved preservation quality
- Improved homogeneousness
- Better absorption quality
- Save expensive additive agent
- Change viscosity
- Reduce reaction time
- Applicable to the cell cutting



All adopt abrasion proof, corrosion and high temperature resistant tungsten-chrome-cobalt alloy purpose-made valve



With homogenizing head furnished with diamond on the top and special abrasion proof homogenizing device of valve seat (optional part)

Before homogenization



After homogenization



"3-cylinder" valve chamber



Plunger piston materials available for selection include solid stainless steel (standard), chrome-plated steel, spray painted alloy and ceramic (from left to right)



### APPLICATION OF HIGH PRESSURE HOMOGENIZER

The unique principle of the operation of the high pressure homogenizer has provided simple and effective ways for the renovation of numerous technological flows and the development and application of various new products. The main functions of homogenization are as follows : enhancing the homogeneity and stability of products. Prolong maintaining period, reducing reaction time so as to save large amount of catalysts and additives, changing product's thickness and improving products taste and color. The typical application fields are as follows:

Food and Beverage Industry :

Cow milk, soy milk, peanut milk, cream, mixed cheese, various fruit pulp natural beverages, ice cream, pollen liquid etc. Chinese and western healthcare nutritious liquids, food additives and various condiments etc.

Chemical Industry :

Paints and coating, various emulsifiers, fuel, heavy oil, dis-infactor, pesticide, emulsion, rubber latex, resin latex, thickner, bentonite, essence, silicon material, carbon black, magnesium oxide and titanium dioxide etc.

Cosmetics Industry

Detergent, conditioner, shampoo, skin moisturizer and perfume etc.

Pharmaceutical Industry

Antibiotic, Antacid, Liquid preparation and venous emulsion etc.

Biological Engineering Technology

Cell disruption, extraction of protein and application of enzyme project etc.

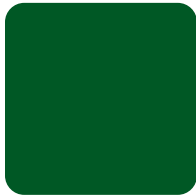
Technical characteristics :

1. The machine is covered with stainless steel shell, which makes it clean and fine, safe and sanitary.
2. Low-speed transmission by spiral gear, low noise, smooth operation and reliable performance.
3. Splash-type and unique oil-transferring on drive device ensures each required lubrication.
4. Dual front of the valve seat extends the service life.
5. Homogeneous valve, check valve and plunger are made of alloy steel which possesses these characteristics with abrasion-resistance, impact-resistance and long service life.



Milk Can

Milk Testing



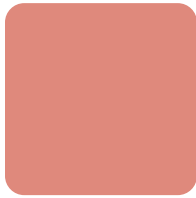
Milk Separation

Milk Cooling



Milk Processing

Milk Packaging



Milk Vending

Milking Machine



**CHADHA SALES PVT. LTD.**  
DAIRY EQUIPMENT ENGINEERS

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Web Site : www.chadhasales.com, www.dairyequipmentonline.com