



How do we keep it pure?

Prompt provides innovative solutions for an efficient dairy supply chain. From farm management and milk collection to quality analysis and preservation, we have different software and equipment to ensure that the purity of milk is maintained at every step. Our unique offering, the MilkoChill is a patented technology that brings the benefits of instant milk

chilling right at the doorsteps of a farmer. The system provides for instant chilling of milk even in the absence of electricity to ensure that the quality of milk is retained and bacterial growth is arrested at the source. MilkoChill ensures the purity of the milk is preserved at the farmer's doorstep to provide a better return to them.

Our product in this pursuit – Prompt's MilkoChill, A Revolutionary Instant Milk Chiller

AN INNOVATIVE AND AFFORDABLE INSTANT MILK CHILLER THAT CHILLS MILK AT SOURCE

India is world's largest producer of milk and most of the milk is produced by small holder dairy farmers. However, quality needs to be improved. One key factor affecting quality is the time lag between milking and the first chilling. Milk being a highly perishable product needs to be chilled to $\sim 4^{\circ}\text{C}$ at the earliest to arrest bacterial growth and retain its quality. Our innovative and affordable instant milk chiller makes it possible to chill milk at source - thereby reducing spoilage, retaining quality, increasing shelf life and hence increasing farmers' income. MilkoChill can chill 250 litres of milk instantly in one hour. Our solution is based on a unique thermodynamic design, using key patents in the field of heat transfer, that results in maximum heat transfer with lowest energy consumption. Keeping in mind the non-reliable electrical grid supply in remote villages, our system is designed with a thermal storage mechanism which stores energy whenever electricity is available. This thermal battery reduces the farmer's dependence on electricity at the time of chilling. Our system also offers the flexibility to connect with alternative renewable energy source like solar power (free sustainable energy). This eliminates the need for diesel generator, thus reducing operating costs.



Instantly chills
250 litres in 1 hour



Generates 100 litres
of hot water (upto 60°C)



Low Power
consumption (~ 1 kW)

TECHNICAL SPECIFICATIONS

Model Number	MC500V1A
Input supply	230V (± 10%), 50Hz, Single Phase
Total milk cooling capacity per day	~ 500 Ltr. (250 Ltr. Per Session)
Rate of milk cooling	~ 40 Ltr. of Milk in 10 Min.
Rated inlet milk temperature	~ 35°C
Rated milk outlet temperature	Average temperature of 7°C (Accuracy ±1°C)
Quantity of hot water generation per day	~ 100 Ltr. (50 Ltr. Per Session)
Outlet temperature of hot water	Up to 60°C
Rated thermal bank charging hours per session	~ 6 hours
Rated compressor power consumption	~1 kW
Rated total energy consumption per session	~ 6 kWh
Net energy recovered in HRU per session	~ 1.5 kWh
Net energy consumption per session	~ 4.5 kWh
Condenser type	Air Cooled
Refrigerant	R22
Unit Dimensions (LxWxH)	1358mm x 822mm x 1718mm
Net Unit Weight	350 kgs
CIP Module Dimensions (LxWxH)	830mm x 540mm x 650mm

Note: Specifications are subject to change without any notice. Hot water and milk outlet temperature depend on charge levels of thermal battery.

Specifications mentioned are valid for full load condition. Energy consumption and charging time depend on charge levels of thermal battery and ambient conditions.

FEATURES:

- Economical with a good ROI
- Easy to operate and low maintenance cost
- Scalable and compact
- Reduces spoilage and improves shelf life
- Facilitates milk quality management and increases farmer income
- Generates hot water as a bonus from heat recovery
- Can be connected with grid power or solar power

WHAT ARE ITS BENEFITS?

Instant Chilling based on Unique Thermodynamic design

Application of patented evaporator and multi-utility heat pump licensed from IIT, Bombay.

Hot water generation

Additionally, up to 100 LPD of hot water, at 55°C, is produced as a by-product from heat recovery which can be used for equipment cleaning-in-place (CIP) and cattle sanitation.

prompt[®]

The pursuit of purity

Our ideas and innovations are a part of the pursuit of maintaining the sanctity of milk so that the world's most ancient health drink can be appreciated as it truly is – untouched and unadulterated.



presence across
22+ states



presence across
221+ districts



presence across
50,000+ villages



650+
team members



legacy of more than
2 decades



2 patented
products

Optimise your farm with related products

MilkEasy Milking Machine

MilkEasy Milking Machine is designed to milk cattle quickly, efficiently, hygienically, and ensuring maximum comfort to the animal.



BovSmart Animal Heat Detection Tag

An intelligent, interconnected animal wearable tag which provides actionable insight to improve farmer's earnings through real-time monitoring of oestrus and animal health.



Farm 365 Animal Husbandry App

This technologically advanced app is a complete solution to your cattle management needs, which helps improve cattle breeding and feeding, resulting in increased milk yield and profitability.



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