

Chill milk ***instantly*** to 4 deg C, within seconds



Promethean's RMC is a modular milk chilling system that instantly cools milk from 35 to 4 degrees C without a diesel generator. The system can chill 1000 liters of milk per day even if there is no power during the milk collection by using only 4-5 hours of intermittent grid power between each milking shift.

By eliminating the DG set, Promethean's Milk Chillers provide a more cost effective way of collecting high quality milk from village level collection centers where grid power is erratic.

Thermal Storage System (TSS)

It is an energy storage technology which provides cold energy for all of Promethean's refrigeration products:

- **Backup cooling power** - for areas with unreliable grid power
- **Instant cooling power** - for rapid cooling of fruits, vegetables, milk and other perishable food products
- **Load shifting** - from day-time to night-time to reduce energy bills

Feature	Benefits
Instant milk cooling at the source of milking	<ul style="list-style-type: none"> • Thrash cooling arrests bacteria growth instantly. • Premium quality enables longer shelf life of processed milk and higher margins on value-added products. • Capture more farmers in the catchment area. • Thin film in the surface cooler de-aerates the milk.
Cold Storage Backup	<ul style="list-style-type: none"> • Eliminates diesel generator. • Low maintenance & operating costs. • Unlike electrical batteries, thermal battery does not need to be replaced every 3 years.
Simple Design	<ul style="list-style-type: none"> • Single phase connection at village collection centers • Easy manual cleaning



Milk Heat Exchanger

Flow rate - 35°C -4°C (Can be customised)	210 Ltrs / hr
Holding Funnel Capacity	60 Litres
Dimensions (L X B X H)	0.76 x 0.76 x 1.7 Meters
Designed Ambient Temperature	40° C
Heat surface exchange area (Shiva)	1.2 Sq Mtrs



Chiller Unit (for charging TSS)

Compressor Type	Copeland Scroll
Refrigerant	R-404 a
Power input	3.5 kW
Average Cooling Capacity	5 kW
AC Power Supply	220 / 50 Volt/Hz



Thermal Storage System

No of TSS	1
Back-Up Capacity	500 Litres
Time to Recharge	4 - 5 Hours
Dimensions	1.2 X 1.2 Metres



Milk Cooling Tank (OPTIONAL)

Capacity	1000 Litres
Maximum capacity	1100 Litres
Insulation PUF	50 mm
Dimensions	1.96 X 1.08 X 1.35 Meters