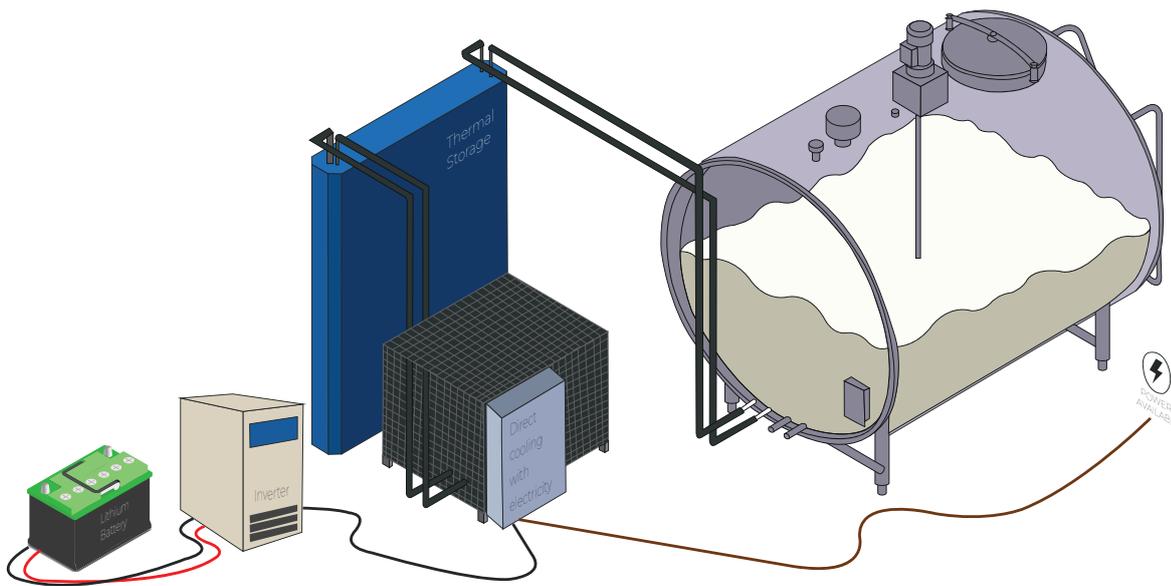


prompt
MILKO
CHILL

Thermal Storage-Based BMC

THERMAL STORAGE BASED RAPID BULK MILK COOLER



CHALLENGES OF CONVENTIONAL BMC

- Slow cooling rate in conventional BMC
- Heavy dependence on diesel gensets during power outages
- High operating and maintenance costs due to fuel and genset servicing
- Increased risk of milk spoilage, especially during peak collection hours
- Poor milk quality and high bacterial growth due to delayed chilling

FEATURES

- Thermal storage – Milk cooling for 2 shifts
- Charging time – 4 to 5 hours per shift
- Temperature range – 35°C to 4°C
- Cooling time – Less than 2 hours
- Retrofit to any standard BMC
- Solar compatibility



Technical Specifications

(1000 liters per day)

Parameters	Specifications	
Capacity	1000 litres (500 litres per session)	2000 liters (1000 liters per session)
Model No.	TSBMC1000	TSBMC2000
Power Requirements		
Input Supply	Single phase or three phase	
Max Connected Load	~5 kW	~10 kW
Electricity Availability per Session	Min. 4 hours	Min. 4 hours
Stabilizer (Customer Scope)	15 kVA servo stabilizer	
Chilling Parameters		
Chilling Capacity per Day	1000 liters (500 liters per session) /	2000 liters (1000 liters per session)
Chilling Time per Session	< 2 hours	
Rated Raw Milk Temperature	35°C	
Chilled Milk Temperature	4°C	
Thermal Storage	Available: Allows milk chilling for two sessions (1000 liters) when fully charged without need of grid power	
Rated Thermal Bank Charging Time per Session	4 – 5 hours	
Rated Compressor Power	~2.5 kW (1000 L)	~5.0 kW (2000 L)
Condenser Type	Air cooled fin and tube	
Refrigerant	R404A	
Inverter – Battery System		
Inverter	10 kVA 120 VDC × 1 No.	
Battery	Li-PO4 128 V 54 Ah × 1 No.	Li-PO4 120 V 100 Ah × 1 No.
Control Panel		
<ul style="list-style-type: none">• Auto operations for compressor ON/OFF• Milk Cooling ON/OFF push button• Display and Keypad		

Note: Performance data is as per lab testing under standard conditions. It is subject to change without notice for product optimization.

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