

Solar Bulk Milk Chiller

Jointly Developed with National Institute for Solar Energy, an apex R&D solar institute of Indian Government

Solar BMC with Instant Milk Chiller reduces milk temperature instantly avoiding milk quality deterioration and bacterial growth. IMC can retrofit to an existing BMC

Solar energy is stored in thermal storage in form of ice to provide cooling (early morning and late evening milk collection)

Simultaneous cooling provided via instant milk chiller and bulk milk cooler

- In first pass milk flows through PHE & its temperature reduces to 7 °C
- BMC further cools to 4 C and maintains it



Features



Capacity Enhancer

Cool more milk with existing BMC



Reduce Diesel Genset

Solar PV and thermal storage reduces diesel & grid requirement up to 70%



Higher Quality Milk

Cooling at faster rate



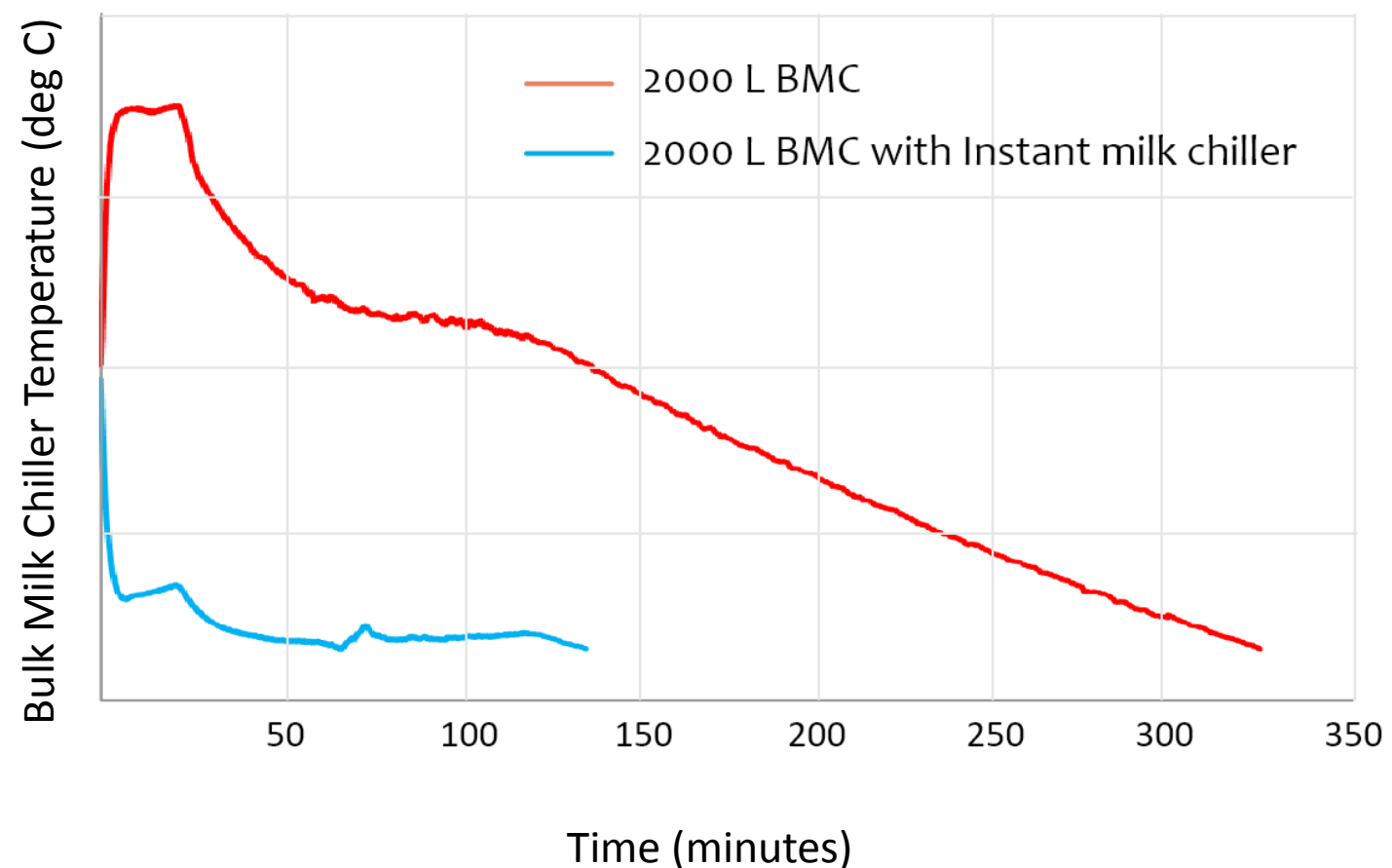
Retrofittable

Fits to an existing bulk milk cooler reducing capital expenditure

Specifications

Footprint (excl. BMC & CDU area)	30 sq ft
BMC capacity	Up to 3,000 L
Max milk flow rates	Up to 1,500 L/hr
Cooling backup capacity	1,000 L
Re-charging time	6-8 hours
Refrigerant	R404 or equivalent
Power supply	3-Ph Grid
Remote monitoring	Optional
Solar PV	7 kWp

Cooling Performance



Notes:

1. Depends on milk flow rate & milk quantity, etc.