

# Instant Milk Pre-Cooler for Bulk Milk Coolers

Powered with Hybrid Ice Technology

Instant milk pre-cooler (IMC) chills milk to less than 8 °C temperature in an instant, thereby stopping milk quality deterioration and bacterial growth. IMC has an in-built Ice Bank, which stores cooling in the form of ice, and stored ice provides instant cooling as and when required.

IMC can be used either as a standalone unit or used as a pre-chiller to an existing Bulk Milk Cooler (BMC). The use of IMC is ideal for locations where the milk needs to be chilled very quickly. IMC gets charged whenever electricity is available, allowing even elimination of diesel generator for locations with unreliable grid electricity.

IMC can also be integrated with photovoltaic panels for enabling use of solar energy.



## Features

### CAPACITY ENHANCER FOR BMCs

Stored cooling energy in ice allows cooling up to 2x milk quantity with existing BMC

### IMPROVES MILK QUALITY

Instantaneous cooling reduces bacterial growth

### MINIMIZE DIESEL GENERATOR USAGE

Stored energy in the form of ice reduces the run time of diesel generator

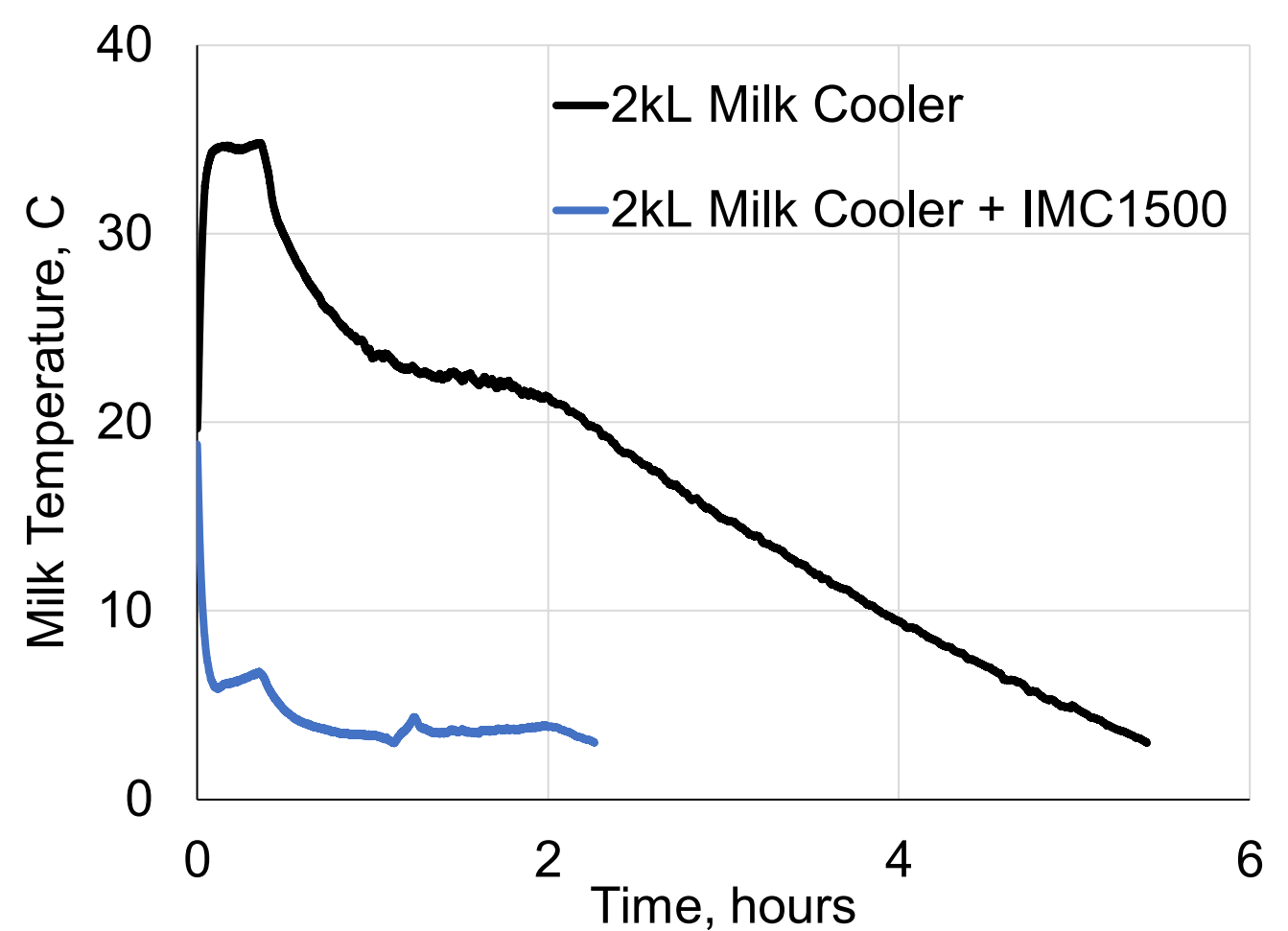
### SEAMLESS SOLAR INTEGRATION

Enables captive usage of solar energy on existing chilling centers

## Specifications

Description	IMC1500	IMC3000
Rated BMC capacity	1000 - 3000 L	3000 – 6000 L
Maximum milk handling capacity per shift and milk outlet temperature from IMC	Less than 12 °C for 1500 L at 1500 LPH	Less than 12 °C for 3000 L at 3000 LPH
Ice energy storage capacity	200 MJ	400 MJ
Power requirement	7.5 kVA	15 kVA
Refrigerant	R404a / R407c	
Off grid solar integration	Available	

## Cooling Performance



### Notes:

1. Data shown in the brochure is based on cooling 2000 L milk with 2 hours of collection