

# Instant Milk Chiller

Instant milk chiller (IMC) chills milk to less than 7 °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 an attachment 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 be 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

Application	Standalone		BMC Add-On	
Model Name	IMC1500-S	IMC3000-S	IMC1500-A	IMC3000-A
Rated BMC capacity	NA	NA	1000 - 3000 L	3000 – 6000 L
Maximum milk handling capacity per shift	750 L	2000 L	1500L <sup>1</sup>	3000L <sup>1</sup>
Milk flow rates	Up to 750 LPH	Up to 1500 LPH	Up to 1500 LPH	Up to 3000 LPH
Thermal storage capacity	1 x 200 MJ	2 x 200 MJ	1 x 200 MJ	2 x 200 MJ
Milk outlet temperature from IMC	Less than 7 °C		Less than 15 °C	
Refrigerant	R404a			
Power supply requirements	5 kVA	10 kVA	5 kVA	10 kVA
Off grid solar integration	Available			
Thermal storage outer body	AISI SS 304			

### Notes:

1. The rated milk cooling capacity considers cooling from both IMC and BMC
2. Milk outlet temperature is dependent on the milk flow rate and stored ice quantity in Instant Milk Chiller

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