

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

CHEMICAL FREE ENERGY STORAGE

Water is used as energy storage to maintain highest safety standards

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 ¹	3000L ¹
Milk flow rates	Up to 750 LPH	Up to 1500 LPH	Up to 1500 LPH	Up to 2000 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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