

# 250 & 500 Litre Bulk Milk Cooler

Powered with Hybrid Ice Technology

This system works on a hybrid ice energy storage technology to provide fast cooling, high milk quality and in-built cooling backup.

In hybrid technology, compressor and ice energy storage work together to boost the cooling performance. The average cooling output from 35 to 4 °C is 3 times of the compressor capacity.

Additionally, ice energy storage acts as a backup to eliminate diesel generator. It completely charges with 10 hours of electricity any time of the day to provide more than 24 hours of cooling.

Ice based cooling ensures that milk never freezes even when milk is below the agitator level. The entire system is automatic and doesn't require any user intervention. The system is ideal for small dairies and milk collection centres having 100 to 500 L/day of milk.



## Features

### FAST COOLING RATES

45 vs 145 mins to cool from 35 to 10 °C

90 vs 180 mins to cool from 35 to 4 °C

### EFFICIENT OPERATIONS

Fully automatic control ensures highest milk quality

### 3°C MILK TEMPERATURE

Reduces bacteria count & improves milk quality

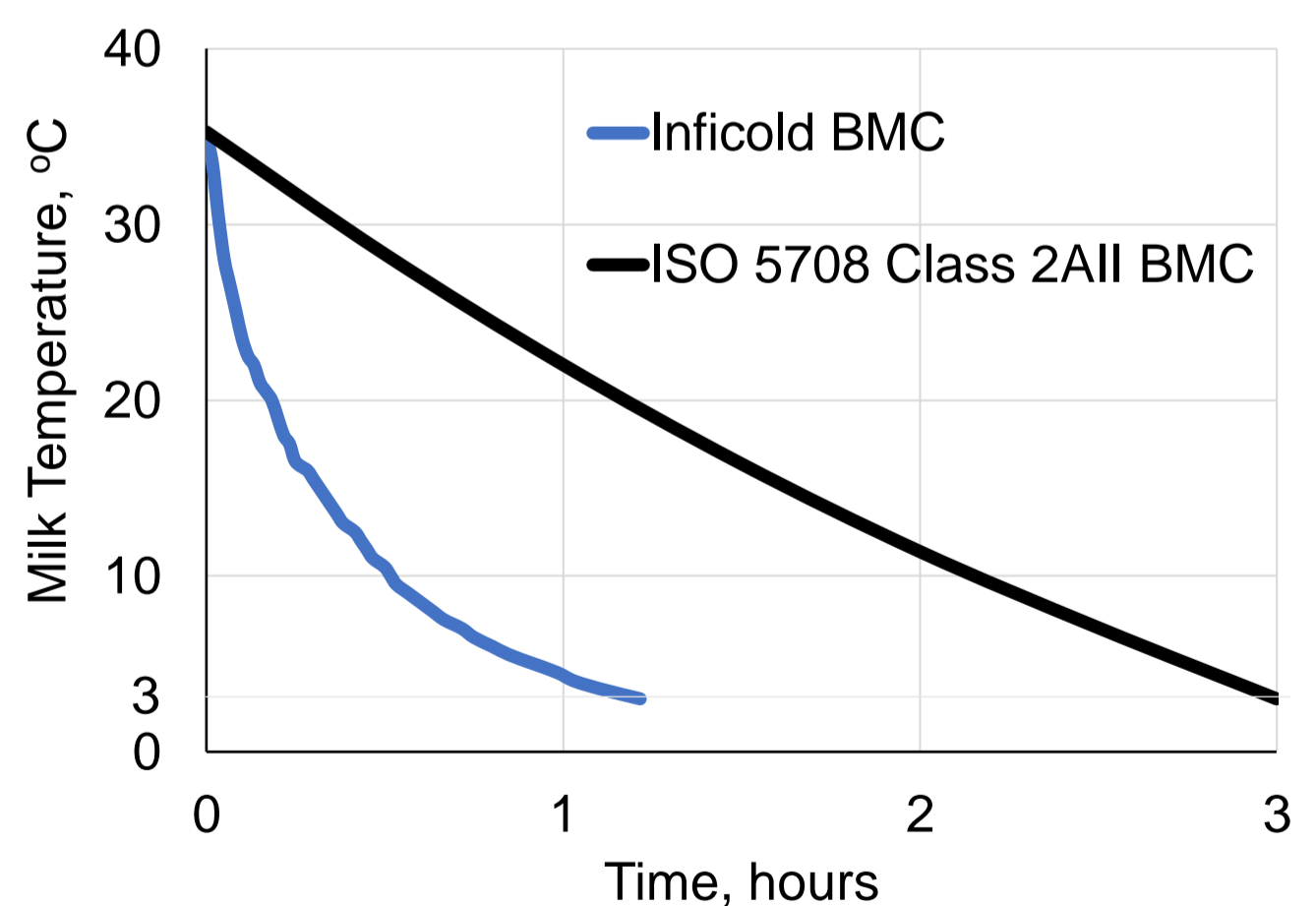
### LOWER OPERATING COST

1 day of cooling autonomy during grid outages completely eliminates diesel

## Specifications

Description	250 L BMC	500 L BMC
Rated daily cooling capacity	250 L	500 L
Ice energy storage capacity	35 MJ	70 MJ
Cooling backup capacity from 35 to 3 °C	200 L	400 L
Cooling backup capacity from 35 to 6 °C	250 L	500 L
Power requirement	1 kVA	2 kVA
Refrigerant	R134a / R407c	

## Cooling Performance



### Notes:

1. Data shown in the brochure is based on cooling of 125 L milk from 35 °C to 3 °C in 250 L BMC

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## Advantages over traditional milk coolers

Parameters	Inficold	Traditional ISO 5708 2All	Implications
Cooling output at 30 °C – 250 L BMC	70 kBTU/h	7 kBTU/h	10 times fast cooling High milk quality
Cooling output at 10 °C – 250 L BMC	12 kBTU/h	5 kBTU/h	2.4 times fast cooling High milk quality
Cooling output at 4 °C – 250 L BMC	4 kBTU/h	4 kBTU/h	Low chances of milk freezing
Time to cool 50% capacity 35 to 10 °C	30 mins	130 mins	High milk quality
Time to cool 50% capacity 35 to 4 °C	65 mins	180 mins	High milk quality
Cooling cost with grid	0.15 INR/L	0.15 INR/L	No additional cooling cost for high milk quality
Cooling cost during grid failure	0.15 INR/L	1.1 INR/L	Low cooling cost
User intervention during grid failure	Automatic	Manual	High milk quality
Pollution & Noise	None	High	Environment friendly

## Advantages over “milk can coolers”

Parameters	Inficold	Milk Can Coolers
Cooling principle	Ice water is circulated in a heat exchanger attached on the outer surface of a milk tank	Ice water is circulated over milk cans
Meet ISO 5708 manufacturing standards of milk coolers	Yes	No
Cooling time (50% capacity from 35 to 3 °C)	90 mins	200 mins
Exposure of ice water to external environment	No	Yes
Prone to buildup of viral & bacterial pathogens in ice water	No	Yes
Milk contamination due to ice water	No	Yes
Milk agitation feature to prevent fat separation	Yes	No
Milk quantity measurement	Yes	No

