

# THE BEST TECHNOLOGY FOR A RAPIDLY CHANGING WORLD

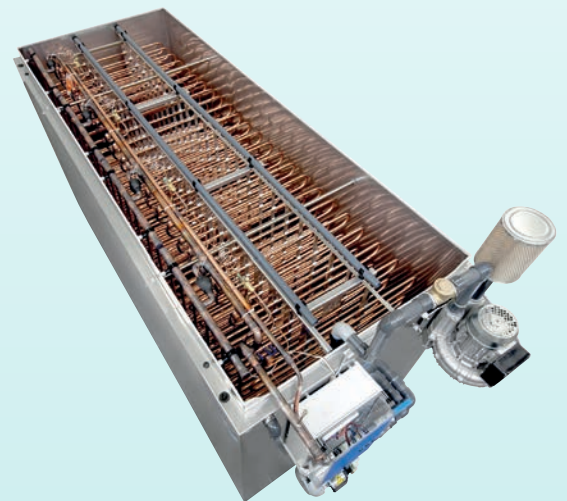
## MILK COOLING BY MEANS OF ICE WATER

This unique cooling system was designed by Fullwood Packo. It is the fastest way to cool down the milk and to maintain its quality. For more than 50 years, Packo develops and finetunes this technology of 'indirect cooling'.

With the technology of the ice water cooling (IB), Fullwood Packo allows you to reduce the cooling time of the milk with 50%. Since the temperature of the ice water is situated above the freezing point ( $0,5-1^{\circ}\text{C}$ ), there is never a risk of freezing the milk. Even when only small quantities of milk have to be cooled or at varying loads, e.g. robotic milking, or if one buys a milk cooling tank for future expansion.

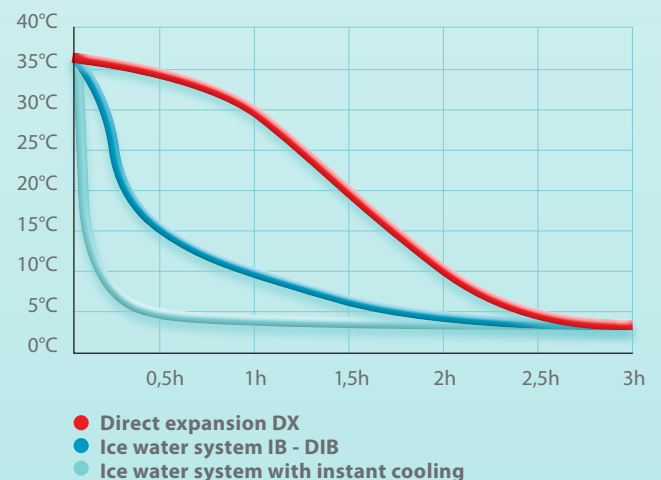


Ice builder with a battery of copper tubes for the production and storage of ice water



### The best way to cool the milk

- Twice as fast cooling from  $35^{\circ}\text{C}$  to  $10^{\circ}\text{C}$
- Intensive cooling without any risk of freezing (even with small quantities)
- Smaller cooling unit thanks to the accumulation of ice during several hours
- Limited power costs (cheap night rates)
- Large energy storage (battery), ideal in combination with the production of alternative energy on the farm
- Ice water is available at the start of the milking; less power required during milking
- At instant cooling the milk can be collected during milking



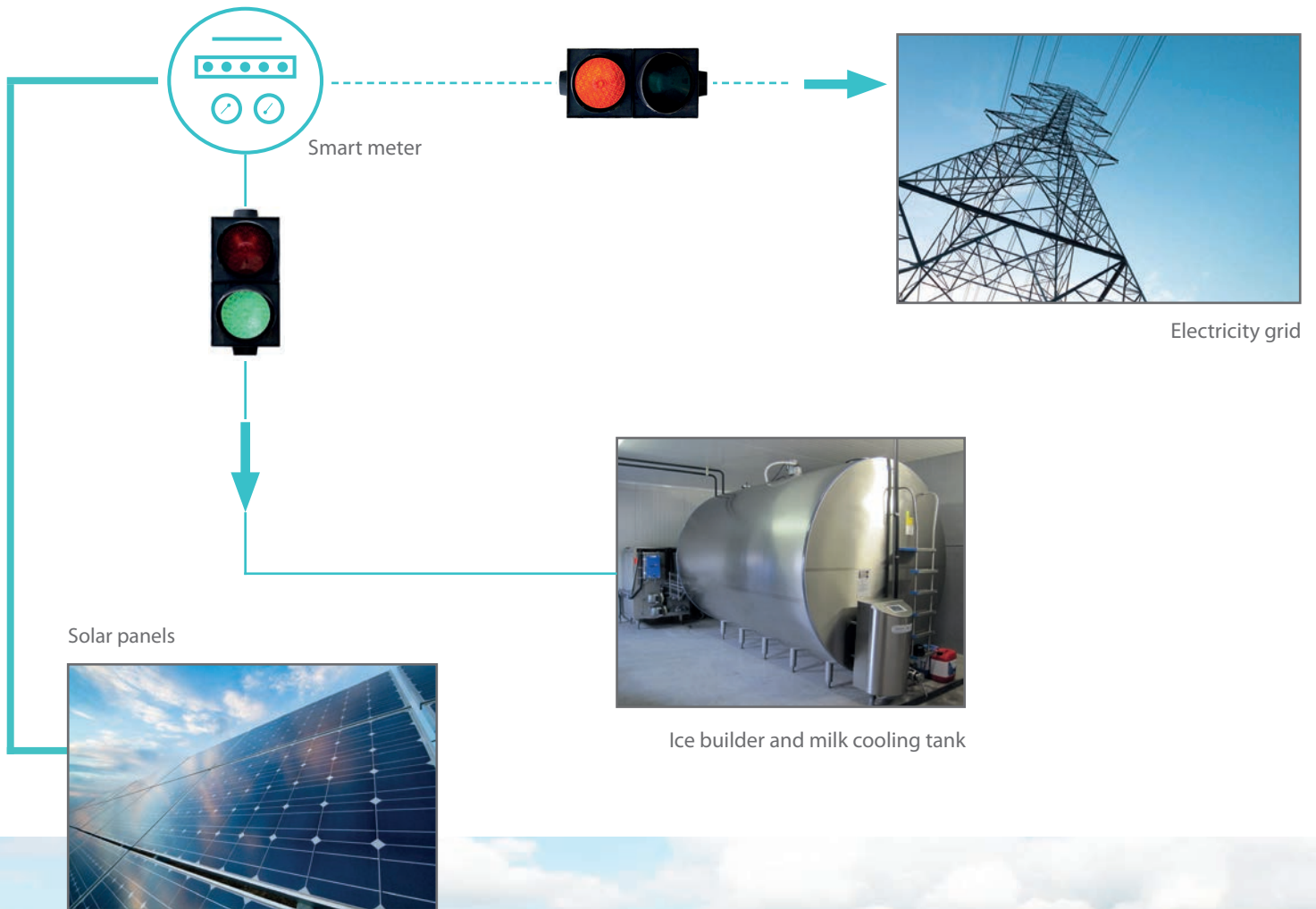
## Ice water + alternative energy = cheapest way of cooling your milk

Storage of energy will be strongly appreciated in the future.

Through 'smart meters', available on the market in the near future, it will be possible to decide as 'prosumer' (= producer + consumer) how much and when you put energy on the grid.

So you can produce ice water for free or at a very low cost and sell the excess solar energy at the most interesting price.

The expected return on investment in ice water cooling is between 3 and 8 years depending on the amount of solar panels, whether smart controls are available or not and the electricity prices of the grid.



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