



The SERAP Group: the world's leading milk cooler manufacturer

Since 1963, the SERAP Group has been designing equipment for the preservation and processing of food products. Specialized in the production of milk cooling tanks, the Group is now the world no. 1 in cooling units.

The SERAP Group's approach to continuous improvement and sustained investment in technical innovation enables it to constantly modernise its products and services.

As a key player in the dairy industry, the Group helps breeders to respond effectively to the environmental challenges of tomorrow while remaining competitive.



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The milk cooler that combines
environmental friendliness with **savings**



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The new generation milk cooling solution **Opticool**, a **patented refrigeration unit**, reduces energy consumption for cooling milk and for heating water. This innovation can be adapted to **all types of dairy farms** and ensures optimised electricity consumption as well as a high environmental performance.

Opticool guarantees a **return on investment** through lower energy consumption, controlled operating costs and **reduced carbon footprint**.

Available on new milk cooling tanks or as a retrofit on existing tanks (all brands, all models), Opticool is easy to set up and will be installed by a SERAP partner.

With its brand-new weather-proof cowl, Opticool can be positioned outside without any problem.



With Opticool, it's simple:

COOL

SAVE

PRESERVE



A high performance milk cooler for farmers seeking efficiency

Opticool is the **only refrigeration unit** that combines the **pre-cooling of the milk** with a **system for optimising cold production and heat recovery**, for the best preservation of milk quality. The compressors deliver the exact amount of power needed to cool the milk to its storage temperature in **only 3 hours**.



A low consumption solution for energy savings of up to 70%

Up to **40%** less electricity consumption for cooling milk.

Up to **70%** less with the addition of a pre-cooler.

And up to **50%** savings on water heating through heat recovery.



Pre-cooler

The technologies used along with the self-regulating system reduce the energy consumption for milk cooling by **up to 40%** compared with equivalent standard models. This consumption can be reduced by **up to 70%** with the addition of a pre-cooler.

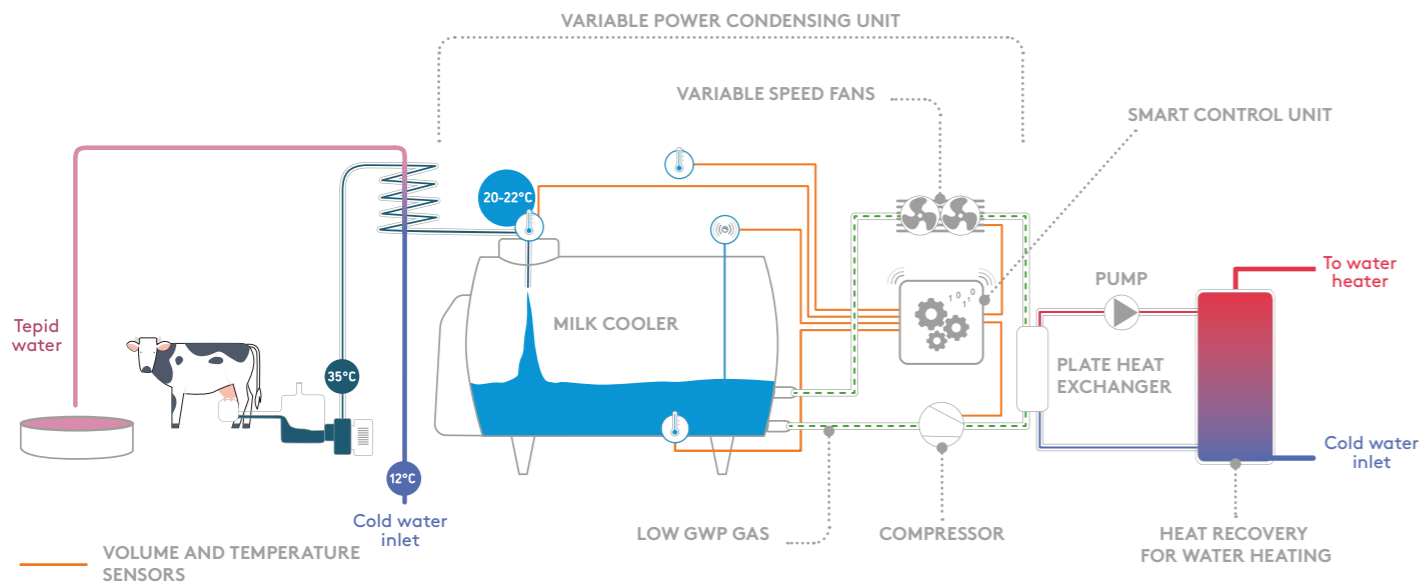
Heat recovery through this system also enables **50% savings on water heating**.

Through these performances and in the right conditions, Opticool can even **totally offset its own electricity consumption!** This is because it can **recuperate the equivalent of the energy consumed for cooling the milk in the form of hot water**.



A new environmentally friendly fluid

Its low power consumption, the use of a new refrigerant with a low GWP (Global Warming Potential) and the valorisation of recovered heat all **reduce the tank's carbon footprint by over 50% compared with equivalent conventional tanks**. A virtuous system for the environment!



Opticool: a complete innovation for breeders!



EARL Le Bas Plochin, a limited liability enterprise in Savigny-le-Vieux (Manche department - France). Established since 2015, with 100 dairy cows and an automated system.

Before, we had a 7,000-litre tank, with poorly ventilated condensers mounted on the tank that were easily and frequently triggered. We already had a pre-cooler, as we were keen to save energy. Eight months ago, we installed Opticool, with condensers positioned outside. The tank operates now according to the volume of milk. A real plus for the quality of the milk! Our working conditions have also improved, as this system is silent and generates less heat in the dairy.

In addition, the Opticool system uses an environmentally friendly fluid. A comprehensive innovation that has already reduced our electricity consumption by 40%!