

DELAVAL MILK COOLING

A fresh approach to milk cooling



Keeping the world's milk fresh

We don't create cooling systems for a range of liquids and sell some of them for milk.

We create solutions specifically for the challenges of cooling, storing and protecting milk.

We believe that keeping milk fresh has some unique challenges that demand a no compromises approach.

We understand that, for you, protecting your income is about protecting your milk, and to do that you must keep it fresh at all times. That's why, at DeLaval, we develop solutions for cooling milk - because when you live milk, you are passionate about keeping it fresh.



Beyond cooling

Our drive to help you deliver the highest quality milk goes above and beyond the equipment required to cool, store and protect your precious income. Beyond cooling, we have developed our technology with operating costs, energy savings and the environment in mind, creating solutions that allow you to save money and improve your bottom line whilst reducing your carbon footprint and protecting the environment for future generations.

We also know how important it is to know exactly what's going on with your system, and to react quickly when something goes wrong. That's why we offer the tools to remotely monitor your cooling operation, no matter where you are in the world, and include a service and maintenance agreement for the peace of mind that comes from knowing your milk is always in safe hands.



Why is it better

At DeLaval we design and manufacture a complete set of solutions for cooling, storing, transporting and protecting your milk. Designed to work together or as individual units, we have a solution to preserve the freshness of your milk through every step of the cooling process - from the moment it leaves the teat, to its collection by the milk tanker.

▼ LOW RUNNING COST

SERVICE AND MAINTENANCE IS INCLUDED

+ REMOTELY MONITOR YOUR COOLING TANK

DeLaval

▼ 50% LESS REFRIGERANT*

▼ COOL TO 4 DEGREES IN 4 SECONDS*

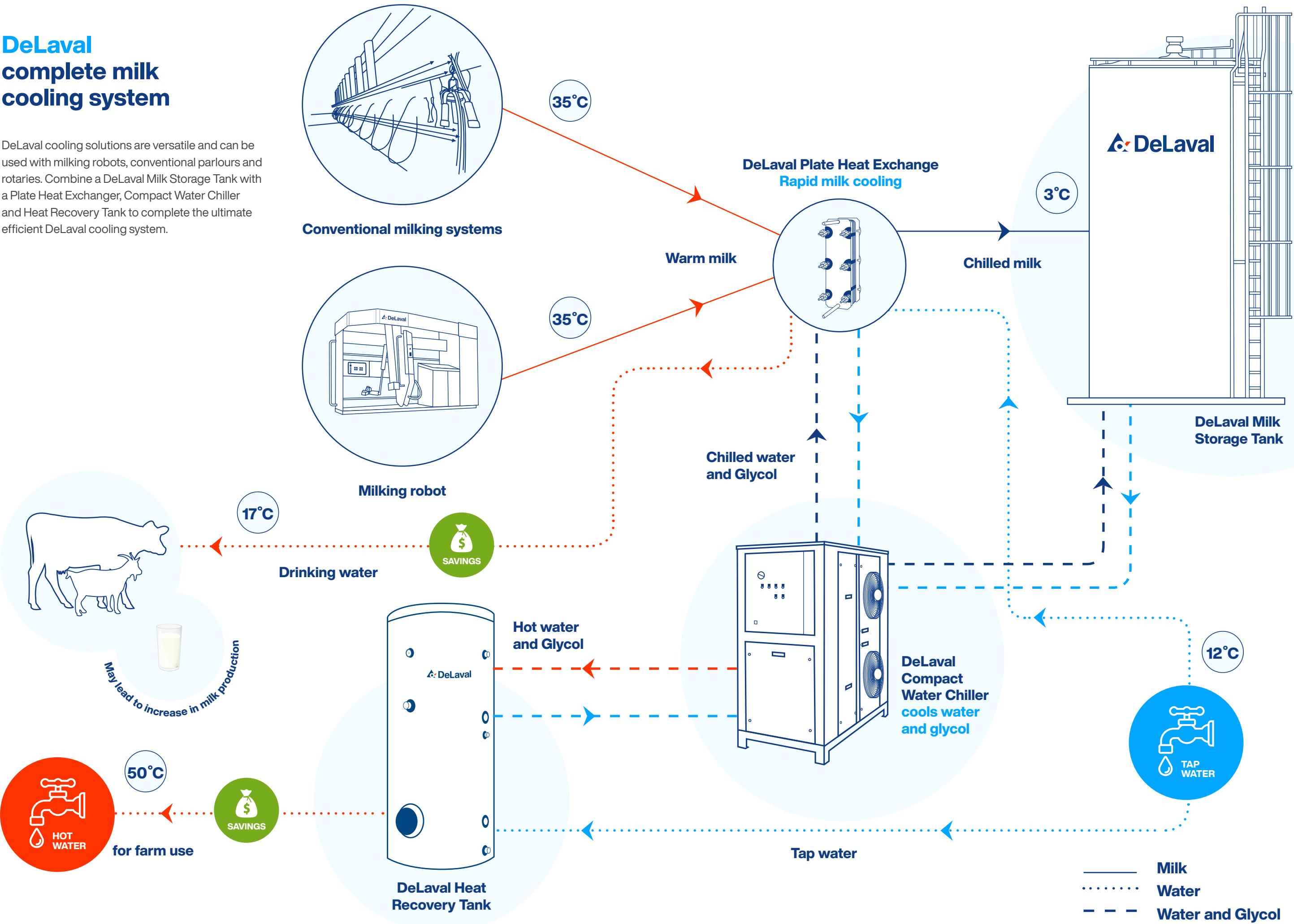
100% STAINLESS STEEL COOLING TANKS

*Based on AFCC compared with standard cooling unit
**Based on CWC



DeLaval
complete milk
cooling system

DeLaval cooling solutions are versatile and can be used with milking robots, conventional parlours and rotaries. Combine a DeLaval Milk Storage Tank with a Plate Heat Exchanger, Compact Water Chiller and Heat Recovery Tank to complete the ultimate efficient DeLaval cooling system.



Faster means fresher

As soon as it leaves the udder, naturally occurring bacteria in the milk start multiplying immediately. In just two hours 1,000 bacteria can increase to 64,000. The faster you cool the milk, the more you slow this process down and the fresher your milk will be. That's why our unique range of chillers are the fastest we've ever developed.



Robust and reliable

Low operating costs

Precise temperature control eliminates under and over cooling

Low energy consumption

Cooling for conventional and automatic milking

Our best solution for the in-line cooling of small to very large milk flows, our patented compact coolers are designed to meet your highest demands and deliver in all conditions. Intelligent cooling and temperature control helps to ensure the freshness of your milk before it enters the cooling tank, and precise power control means it only uses the energy necessary to keep your milk fresh, no more, no less. A DeLaval Compact Water Chiller (CWC) can help you to reduce energy costs and improve your bottom line.

Cooling for automatic milking systems

The cooling of small milk flows presents a unique set of challenges. Milk flows that vary in volume and milk flows from modern automatic milking systems require a solution that can adjust cooling capacity to match. Our unique and patented DeLaval Adaptive Flow Controlled Cooling (AFCC) system can handle it all. With AFCC, cooling capacity is automatically adjusted to suit milk flow, so varying volumes of milk can be cooled quickly and consistently, without stirring and without the risk of freezing.



Low refrigerant usage

Fast cooling

Robust 'all seasons' housing

Eliminate risk of freezing

Standard cool unit

Our standard range of cooling units may not be as standard as you might think. Did you know that all of our cooling units are equipped with an extra-large condenser? The extra surface area guarantees optimum performance and low energy consumption, even in the peak of summer. We also supply various safety devices to optimise and protect your compressor performance.

Milk tank cleaning

Revolutionary tank cleaning with DeLaval's cleaning and disinfection system. Embracing the power of a high-water flow combined with unique full coverage variable distributor plate technology.

InFlow cooling

With DeLaval InFlow cooling milk is cooled to below 4 degrees in only 4 seconds, before it is stored in the cooling tank. Cool your milk faster to lock in its freshness and preserve its quality with DeLaval InFlow cooling solutions.

Vertical tanks DeLaval DXS – 11,000 - 40,000 Litres

Speed controlled digital agitator for gentle mixing

Fully enclosed housing

Unique configuration of bottom evaporators for early cooling

Future-ready evaporators on the bottom and side for high cooling capacity.



Milk level measurement and overflow protection alarm

T500 cleaning and control unit with a built in milk-monitoring device

Stainless steel inside and out

3" or DN100 outlet for rapid tank emptying

Horizontal tanks DeLaval DXE – 1,100 to 30,000 Litres

Digital level measurement

Stainless steel inside and out

Full flow cooling design allows evaporators to deliver max cooling capacity.

Milk valve double outlet



Maintenance-free manhole for safe cooling tank access

Unique and powerful cleaning from the agitator shaft

T500 cleaning and control unit with a built in milk-monitoring device

3" or DN100 outlet, for rapid tank emptying

Cooling tank range



DeLaval DXE tanks



DeLaval compact cooling tanks



DeLaval DXS tanks

DeLaval Buffer Solutions



DeLaval Buffer Vessel BVV
300, 600 & 850 Litre options



DeLaval Buffer Vessel DBV
1,100 & 1,700 Litre options

Enable 24/7 operation of your DeLaval VMS™ by allowing milking while your tank is not available due to milk pick-up and cleaning.

For more information and the full range of tanks visit [DeLaval.com](https://www.delaval.com)

Protect

Secure your milk freshness

At DeLaval, we know that protecting the freshness of your milk doesn't end once your milk is in the tank. To maintain the highest milk quality your system needs to be cleaned to the highest standard, and requires regular servicing and maintenance to make sure it consistently performs to the level you demand of it.

Cleaning Control Systems

Our user friendly Cleaning and Control Units automatically clean your tank after each and every collection, allowing your farm to achieve the highest food quality standards.

Control

Fully control your cooling and cleaning processes from the user-friendly touch panel.

Monitor

Monitor your cooling and cleaning processes and receive important alerts when you need them most.

Clean

Our DeLaval detergents have been developed to work well with all of our cooling systems and achieve the cleaning performance required to consistently deliver high quality milk.



Save

A fresh approach to sustainability

A DeLaval energy recovery-system extracts heat from your milk. Milk and compressor energy is directly converted to hot water for use in a wide range of applications around your farm.

A DeLaval heat recuperation system is compatible with any model or brand of cooling system.



Sustainable Refrigeration

DeLaval cooling solutions can transform energy used for cooling into heat and recover it for use in other applications around your farm.

DeLaval heat recovery

With or without internal heat exchanger

Wide range of sizes and applications



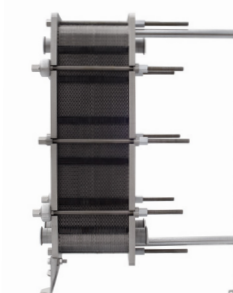
For storage and boiler applications



For the highest water quality

DeLaval plate cooler

DeLaval offers a wide range of plate coolers suitable for the smallest milk flows to large industrial volumes. Plate coolers always deliver the best results of any type of pre-coolers by guaranteeing maximum milk to plate surface contact whilst maintaining a gentle flow of milk. With our plate cooler assortment, milk is rapidly cooled before it reaches the tank, reducing the growth of bacteria, and reducing the amount of energy required for tank cooling by up to 50%. Following the pre-cooling process, water can be redirected to your herd at the optimal temperature for milk production.



Save up to 50% on energy costs

Retrofit to any cooling system

For more information and the full range of DeLaval Heat Recovery and Plate Coolers visit DeLaval.com



Performance delivery. Easy as 1-2-3.

Tailor-made for you and your farm, your performance plan empowers you with the peace of mind of knowing your performance partner has your back. Every step of the way.

1 DeLaval InService™ Long term performance is all-included

Your milk cooling system requires maintenance, servicing and replacement of oils, filters, liners, detergents as well as regular cleaning to keep it performing at the level you demand. Select the InService contract that meets your performance goals.

2 DeLaval Advisory Services Remote and on-farm advice

Choose what, how much and how often you need assistance from a variety of people, animal and milking system performance reviews, data analysis and advice for optimised performance opportunities.

3 DeLaval Plus Your Performance Portal

DeLaval Plus is an ever-evolving set of cloud-based digital services that turns farm data into easy-to-understand insights, empowering you with the tools to make fast, accurate, and actionable decisions that benefit your animals, your workforce, and your profitability.



Cooling Monitoring

This application provides continuous, real-time data on temperature and milk volume, enabling you with actionable insights to respond to any irregularities that could impact milk quality. This helps you optimise your cooling system's performance, comply with health regulations, preserve milk quality for longer periods.

Put DeLaval cooling solutions to work for you

To take the next step on your journey, either talk to your trusted DeLaval representative or for more information [visit us at delaval.com](https://delaval.com)

DeLaval does not claim that the results reflected herein will be achieved by all users and this information does not constitute a warranty nor guarantee of service or performance.

Actual, individual performance and improvement will depend on a number of factors, including milking practices, type of cows, farm and herd maintenance practices.