

#### Core Benefits

- Optimal protection of milk quality
- Robust double system design for non-stop cooling and long life
- Precise temperature control
- Economical and energy efficient scroll compressor
- Fastest cooling rate of any cooling system type
- Supported by DeLaval service team
- Easy to install and maintain one-piece design
- Built in heat recovery
- Multiple cooling circuits to adjust capacity to actual milk flow

# DeLaval compact water chiller

## High-capacity milk cooling for high-quality milk

High-volume milking demands high-capacity cooling. DeLaval compact chillers have been designed to meet these demands. They provide powerful cooling and precise temperature control to lock in milk quality before it goes into the storage tank.

#### Protect milk quality – and profit

Cooling milk promptly after milking reduces bacterial activity and helps protect milk quality. This in turn is a key factor in maximising profit.

The needs of large-scale milking operations with high milk throughput cannot be met by traditional refrigeration techniques – in-tank cooling simply can't keep up. DeLaval compact chillers and plate heat exchangers provide a high-capacity alternative that can meet large-scale needs.

#### High-capacity precision cooling

DeLaval compact chillers provide powerful water and glycol cooling for plate heat exchangers. This method of cooling provides the fastest cooling rate of any milk cooling technique.

60KW, 90KW and 120KW models provide a cost-effective way to match capacity to demand.

This cooling power is combined with precision temperature control. Under-cooling and over-cooling are both bad for milk quality. DeLaval compact chillers provide precise temperature control to optimise milk quality and reduce energy consumption.

DeLaval compact chillers have multiple cooling circuits that easily adapt to variable flow rates and fluctuating demands. This ensures smooth operation while avoiding unnecessary power consumption. The DeLaval controlled milk pumping regulates milk flow to plate heat exchangers to ensure consistent milk flow and cooling.

### Reliability by design

Cows don't take days off. When your operation is 365 days a year and up to 24 hours a day – you can't afford for anything to stop production. That is why DeLaval compact chillers are designed with double-system redundancy. If any component stops working, it is always doubled up. So your cooling system and milking operation will keep on working while you fix the problem.

DeLaval compact chillers' robust one-piece design means ease of installation and less maintenance. It also contributes to a long lifespan that maximises return on investment.

### Compact convenience

As milking operations expand, demands on space increase. DeLaval compact chillers – as their name suggests – have a compact design that can be positioned to suit any dairy configuration. This lets you place it away from high-traffic areas, inside or outside the shed.

### Economical and energy efficient

DeLaval compact chillers provide economical cooling with the combination of efficient scroll compression, precision temperature control and integrated heat recovery.

The scroll compressor is the heart of the compact chiller. It provides greater energy efficiency than conventional piston compressors. This reduces energy consumption and power costs. This energy efficiency is enhanced by the precision temperature control that reduces unnecessary energy consumption while optimising milk quality.

Integrated heat recovery also helps to recover energy costs and provides an economical source of hot water for cleaning and general farm purposes. DeLaval heat recovery tanks can be used to store the hot water produced until it is needed. It is all about making the most of your resources.



### DeLaval complete milk cooling system

