DeLaval parlour systems

Throughput – the fast lane to profitability
The more relaxed the cow, the faster the cow-flow

Throughput is the fast lane to profitability: if you want to achieve smooth cow-flow and fast milk let-down, cows must feel relaxed in the parlour.

At DeLaval, we help you achieve fast throughput by ensuring cow traffic runs smoothly, milking equipment performs optimally, and that milking is fast and effective. In this way, you can maximize throughput and milk yield, while minimizing costs per litre of milk.

With the help of our parallel parlours, dairy farmers around the world are producing high quality milk, effectively – parlours that are reliable with a proven track-record.
Complete solutions for higher throughput

When you invest in a DeLaval parallel parlour, you acquire an integrated system.

It's the seemingly small things that can make a big difference: the design of the neck rail, for example, or the width of the lane, or the way entrance gates open. These unique design innovations lead to time and labour savings. Small differences add up to give you consistently higher throughput.
DeLaval parallel parlour P2100

With the flexibility to match your herd, farm and budget

DeLaval P2100 is ideal for family farms and operations with expanding herds. DeLaval P2100, with its swing-up exit, gives you the flexibility to tailor a parlour that matches your needs: for your herd, your barn and the way you work. Even the neck-rails can be adjusted to accommodate different cow types and sizes.
Faster cow-flow

- Wide entrance lane with sliding entrance gate – quick entry and easy turning encourages fast loading of cows.
- Unique, open bottom neck-rail – designed with understanding of how cows move for faster entrance and exit.
- All-Index™ – optimum positioning of cows for better udder prep, operator comfort and safety.
- All-Exit™ – exiting of all cows on each side with one push of a button, which helps save time.
- Gang-Index™ – begin attaching units to first gangs while other gangs of cows are still being loaded.
- Gang-Exit™ – lets you release each cow gang as they finish for better cow-flow.

Better workflow

- Suspended butt-pan – gives unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.
- Comfort start – no buttons to push: just lift the cluster and start milking (option).
- Exit Plus – automates exit-entrance sequence to save operators’ time (option).
- Air-powered indexing – gently but firmly positions each cow back against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.
- Deck flush – automatically cleans platform reducing risk of contamination (option).

Fast installation

- Bolt-together design – eliminates on-site welding and reduces risk of incorrect installation. This also speeds up the installation process for faster start-up.

Robust and reliable

- Robust structure – provides a safe working environment, low maintenance and long parlour lifetime.
- Stainless steel butt-pan, optional stainless steel cabinets and kick curb – easy to clean and durable.
- Air control box with built-in filter: provides pneumatics with clean air for longer life of air components.

Cow comfort

- Cluster support – provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and reducing risk of mastitis (option).
- Duplex cylinders – allow different pressure settings for gentle, slow but firm indexing of cows.
- Fully-adjustable neck-rail – suitable for different cow types/sizes.
Champion™
parallel parlour

High throughput for 24/7 milking. Maximum cow comfort

Champion is a heavy-duty parlour designed for use on medium to very large farms. With the sequencing gates mounted on the neck rails, the cow platform is left completely open for extra high throughput. Neck-rail mounted gates also mean that posts do not have to be cemented in the cow platform, which allows for same-day installation in existing parlours.
Faster cow-flow
• Sequence gates mounted on neck-rail – faster loading time for all sizes of cow.
• Vertical-lift exit – faster exiting; can be installed in barns with narrow exit alleys.
• Unique, open bottom neck-rail – designed with understanding of how cows move for faster entrance and exit.
• Wide entrance lane with sliding entrance gate – quick entry and easy turning encourages fast loading of cows.
• All-Index™ – optimum positioning of cows for better udder prep, operator comfort and safety.
• All-Exit™ – exiting of all cows on each side with one push of a button, which helps save time.

Better workflow
• Suspended butt-pan – gives unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.
• Remote start – initiate take-off without reaching up to control panel, saving operator time and energy (option).
• Air-powered indexing – gently but firmly positions each cow back against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.
• Deck flush – automatically cleans platform reducing risk of contamination (option).

Faster installation
• Sequencing gates mounted on neck-rails – gates do not have to be cemented in floor.
• Bolt-together design – reduces on-site welding and reduces risk of incorrect installation. This also speeds up the installation process for faster start-up.

Robust and reliable
• Robust structure – provides a safe working environment, low maintenance and long parlour lifetime.
• Heavy-duty cylinders and no steel-to-steel wear points provide excellent reliability.
• Air control box with built-in filter – provides pneumatics with clean air for longer life of air components.
• In-place ID provides accurate ID information and data integrity (option).

Cow comfort
• Open platform – easier to keep clean.
• Lifting draw-bar – optimized lifting of sequence gates keeps cows relaxed while exiting.
• Cluster support – provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and reducing risk of mastitis (option).
• Adjustable air bellows – allow different pressure settings for gentle, slow but firm indexing of cows.
EnDurance™ parallel parlour
The gold standard heavy-duty parlour equipped with exclusive features

DeLaval EnDurance is a heavy-duty parlour designed for large- to mega-sized herds that require around-the-clock milking. This no-compromise parlour can handle the toughest conditions with minimum maintenance. It includes a number of exclusive features such as Gang-Exit™ and Gang-Index™ to optimize labour time and operational costs.
Faster cow-flow
- Unique, open bottom neck-rail – designed with understanding of how cows move for faster entrance and exit.
- Wide entrance lane with sliding entrance gate – quick entry and easy turning encourages fast loading of cows.
- Gang-Index™ – begin attaching units to first gangs while other gangs of cows are still being loaded.
- Gang-Exit™ – lets you release gang of 4-5 cows as they finish milking for better cow flow.
- Ergonomic sequence gates: cow-friendly design with the top of the gate below the hip-bone of the cow. The curved sequence-gate posts give cows the space they need to turn comfortably as the move into the stall, resulting in faster loading.

Better workflow
- Suspended butt-pan – gives unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.
- Remote start – initiate take-off without reaching up to control panel, saving operator time and energy (option).
- Exit Plus – automates exit-entrance sequence to save operators time (option).
- Air-powered indexing – gently but firmly positions each cow back against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.
- Deck flush – automatically cleans platform reducing risk of contamination (option).

Cow comfort
- Cluster support – provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and reducing risk of mastitis (option).
- Duplex cylinders – allow different pressure settings for gentle, slow but firm indexing of cows.

Robust and reliable
- Robust structure – provides a safe working environment, low maintenance and long parlour lifetime.
- No steel-to-steel wear points, 76 mm x 152 mm (3x6") beams and heavy-duty 127 mm (5") duplex cylinders provide excellent reliability.
- Air control box with built-in filter – provides pneumatics with clean air for longer life of air components.
- In-place ID provides accurate ID information and data integrity (option).

Faster installation
- Factory-assembled – having maximized pre-assembly, installation errors are minimized for fast installation.
Cascade™ parallel parlour

Value-for-money, 24/7 parlour with configuration flexibility

DeLaval Cascade delivers top-of-the-line performance at the right price. It's a heavy-duty parlour designed for medium- to large-sized herds that require round-the-clock milking. Together with its swing-up exit, DeLaval Cascade gives you the flexibility to tailor a parlour from basic configurations to more efficiency-enhanced solutions. Cascade is designed to increase the speed of cow traffic with smooth cow-flow, while offering significant time and labour savings.
Better workflow
- Suspended butt-pan – gives unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.
- Remote start – initiate take-off without reaching up to control panel, saving operator time and energy (option).
- Exit Plus – automates exit-entrance sequence to save operators time. (option)
- Air-powered indexing – gently but firmly positions each cow back against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.
- Deck flush – automatically cleans platform reducing risk of contamination (option).

Faster cow-flow
- Unique open bottom neck-rail – designed with understanding of how cows move for faster entrance and exit.
- Wide entrance lane with sliding entrance gate – quick entry and easy turning encourages fast loading of cows.
- All-Index™ – optimum positioning of cows for better udder prep, operator comfort and safety.
- All-Exit™ – exiting of all cows on each side with one push of a button, which helps save time.
- Gang-Index™ – begin attaching units to first gangs while other gangs of cows are still being loaded.
- Gang-Exit™ – lets you release each cow gang as they finish for better cow-flow.

Robust and reliable
- Heavy-duty – designed for 24/7 milking, Cascade offers reliable operation and low maintenance costs.
- Air control box with built-in filter – provides pneumatics with clean air for longer life of air components.
- In-place ID provides accurate ID information and data integrity (option).

Cow comfort
- Cluster support – provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and reducing risk of mastitis (option).
- Duplex cylinders – allow different pressure settings for gentle, slow but firm indexing of cows.
- Ergonomic sequence gates – allow for optimum positioning of cows; relaxed cows produce more milk.
The integrated solution provider
DeLaval herringbone parlours
Cow and milker interaction – driving superior performance
When you want to expand your herd without losing close contact with your cows, think DeLaval herringbone parlours.

When you want comfortable cows but superior milking performance, think DeLaval herringbone parlours.

We have helped dairy farmers just like you, produce high-quality milk effectively for over 130 years and are happy to help you find the perfect herringbone parlour for you, your cows and your wallet.
When you invest in a DeLaval herringbone parlour, you acquire an integrated system.

It’s the seemingly small things that make the difference: the suspended, angled rump-rail, wide entrance lane and minimal turning space for the cows. These unique design innovations lead to time and labour savings: small differences that add up to provide extra cow and operator comfort.
DeLaval herringbone HB50

Excellent cow-milker positioning, higher throughput

DeLaval herringbone parlour HB50 allows you to fit in more cows per side than DeLaval HB30 for faster milking. With the angled staggered rump-rail, the cow stands comfortably close to the pit with no pressure on her sensitive pin and tail areas. And because the rump-rail is suspended, it is easy for the operator to access the udder.
Cow comfort
- Angled staggered rump-rail increases cow confidence promoting fast let-down and milk-out.
- Less bullying due to staggered positioning.
- Small turn needed to get into position for fast and easy entry and exit.
- Cluster alignment – reduces the risk of liner slip and mastitis.
- Adjustable breast rail for comfortable, snug fit (manual or pneumatic options).

Operator comfort
- Comfort-Start allows operators to start milking by lifting the cluster, without having to push any buttons.
- Suspended “post-free” rump-rail gives unobstructed view of the udder and reduces risk of operator injury.
- Angled rump-rail allows cows to stand close to the operator.
- Kick-rail positioned close to back leg reduces risk of milker getting kicked.
- Galvanized steel curb for operator safety.
- Splash guard protects milkers and equipment (option).

Optimal flow
- Fast and precise cluster attachment thanks to unobstructed view of udder.
- Better alignment means better milk let-down.
- Swinging vacuum-controlled entrance gate opens fully for fast entry.
- Swinging exit gate with manual or vacuum control for speedy exit.
- Proven identification system provides fast and reliable cow ID (option).
- Crowd gate for faster milking routines (option).

Robust and reliable
- Durable design with heavy gage steel tubing.
- Rump-rail suspended from robust beam.
- Hot-dip galvanised welded components.

In-parlour feeding options
- Individual mangers: each cow can eat her concentrate ration in peace.
- Enables challenge feeding to drive up peak yield.
- Prevents post-peak weight gain by feeding to yield.
- Can be linked to DeLaval herd management systems for optimal control and reduced feed costs.
DeLaval herringbone HDHB

The heavy-duty parlour with optimum cow positioning and milker comfort

DeLaval herringbone HDHB parlour improves productivity by optimizing cow positioning and milker comfort. This no compromise parlour can handle the toughest conditions with minimum maintenance.

DeLaval herringbone HDHB gives you the flexibility to tailor a parlour to your special needs. You can choose everything: from type of materials, stall spacing and cabinets, to the level of automation; from stand-alone milking points to full herd management connectivity.
Cow comfort
• Brisket rails with positioning guide – allows the milker to attach clusters more quickly.
• Unique two-direction indexing – gently but firmly positions the cows towards the rump-rail and back against the butt-pan. This ensures optimal cow fit and positioning, resulting in faster milker routines.
• Angled rump-rail – shaped to the back of the cow for good cow positioning and comfort.
• Wide entrance lane – minimal turn needed to get into position for fast and easy entry.

Operator comfort
• Suspended angled rump-rail – gives unobstructed view of the udder resulting in better working environment and operator comfort.
• Air powered All-Index™ – optimum positioning of cows for better udder preparation, operator comfort and safety.
• Angled rump-rail with integrated butt-pan – allows cows to stand close to the operator and protects milkers and equipment.
• Remote start – activates milking point controller improving operator ergonomics.
• Deck flush – automatically cleans platform, reducing risk of contamination (option).

Faster throughput
• Fast and precise cluster attachment and alignment – thanks to unobstructed view of udder.
• All-Exit™ – one push of a button allows cows on each side to exit, helping to save time (swing-up or vertical-lift options available).
• Open cow platform from entrance to milking place for fast loading.
• Exit Plus – automates exit/entrance sequence to save operators time (option).

Faster installation
• Bolt-together modular design – eliminates on-site welding, speeding up installation process for faster start-up.
• Surface-mount method – simplifies concrete work resulting in faster installation and retrofitting (option).

Robust and reliable
• Robust structure – provides a safe working environment, low maintenance and long parlour lifetime.
• Heavy-duty cylinders, no steel-to-steel wear points, plus strong rectangular structural frames provide durability and safety.
• Air control box with built-in filter – provides pneumatics with clean air for longer life of air components.
• Entrance lane is designed to provide highly accurate identification for data integrity.

Better alignment, better ergonomics – robust arm take-off
DeLaval arm take-off with legendary reliability offers many benefits (option for 42-inch/1,067-mm stall spacing):
• Quicker and easier cluster attachment – eliminates 20% of your work routine.
• Protects udder health by providing a controlled removal of the claw, with no residual vacuum.
• Claw and teat-cups hang straight in the rest position.
• Fall-offs do not disturb the rest of the system.
• Reduces parlour noise and worker stress.
• Less wear and tear on equipment, claws, teat cups and liners.
Labour effective, batch milking parlours

DeLaval Herringbone Duovac parlours

DeLaval herringbone parlour 30° and 50°. These parlours prioritise smooth traffic, flexibility and comfort. Moveable breast rails ensure smooth loading and gently position the cow close to the milker for optimal udder visibility and access. Wide cow passages allow rapid exit when the milking is over. The herringbone parlours make milking easier for all involved.

What is Duovac?

Duovac can be explained as when the cluster is attached to the cow the vacuum level starts off at a lower rate of 32kPa. When milk flow is detected the vacuum level goes up to normal working vacuum and pulsation ratio. At the end of each milking when low milk flow levels are detected Duovac reduces the vacuum rate back to 32kPa therefore reducing the exposure of high vacuum to the teats. Duovac then allows for the milker to manually detach the cluster.
DeLaval feed station **FSC40**

**Individual feeding plans for ultimate health and efficiency**

DeLaval feed stations enable you to program an individual feeding plan for every cow, based on her transition and lactation period as well as her milk yield. Your cows have access to their individual concentrate ration in small portions regularly throughout the day. When a cow enters the station, the processor identifies her by either an electronic ear tag or transponder around her neck. Because the processor calculates every animal's daily ration continuously around the clock, it can immediately assess if the cow should eat, and how much. The station blends and dispenses the feed right to the cow's mouth at a speed predetermined to match her eating speed.

The high demands placed on dairy cows during transition and lactation in a group environment can be very challenging. Feeding each cow to her individual needs, will keep her in optimum health and allow her to perform to her genetic potential.
DeLaval MidiLine™ ML3100
The swing-over that will help you grow
**High-end design. Top-tier efficiency**

The sleek, ultramodern lines of the new DeLaval MidiLine™ ML3100 are a reflection of its advanced farm management capabilities. In other words, not only is it a pleasure to look at, but because it’s packed with time-saving options, it’s also a pleasure to work with.

### More management — more cows

Many farmers are increasing the size of their herds. Others simply want to reduce milking times. Whatever your needs, DeLaval MidiLine™ ML3100 – with its wide choice of farm management options – can help you get more done faster.

With DeLaval ML3100, you decide on the level of management automation that suits you. As your herd grows, you can increase the level step by step: from automated cluster removal, to full integration with DeLaval DelPro™ Farm Manager.

### Easy to use

The swing-over arm has been designed to boost throughput and make life easier: whether for you or hired hands. By combining the swing-over arm with our lightweight, industry-leading top flow cluster, you can improve workplace comfort and ergonomics. In addition, since each arm has its own indicator light, you can check milking status or alarms from anywhere in the parlour.

### Easy to maintain

The design of the swing-over arm ensures fast and easy maintenance. With plug-and-play replacement of wearing parts, you can finish routine maintenance tasks in a matter of minutes. DeLaval ML3100 is also easy to keep clean thanks to its sleek housing.

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**Smart investment**

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**Sleek design**

With smooth surfaces for easy cleaning, the DeLaval MidiLine™ ML3100 is also easy to keep clean thanks to its sleek housing.

**Well-thought through design for easy service**

The design of the swing-over arm ensures fast and easy maintenance. With plug-and-play replacement of wearing parts, you can finish routine maintenance tasks in a matter of minutes. DeLaval ML3100 is also easy to keep clean thanks to its sleek housing.
DeLaval
MidiLine™ ML3100 milking system
A swing-over for 21st century farms

You can get more done with DeLaval MidiLine™ ML3100 because it offers you a higher level of automated farm management. With a range of optional management tools, you can increase productivity and the performance of your herd, while maintaining cow comfort.
Add value with automation

With DeLaval MidiLine™ milking systems, you can add automation as you go –

- DeLaval ID system automates cow identification, collects data and registers actions
- Milk metering provides accurate yield recording for individual cow management
- Sort gates identify and sort cows based on herd management decisions
- Automatic DeLaval body condition scoring BCS identifies incorrect feed balance
- Automated feeding reduces labour and optimises feed utilisation
- Activity metering enables 24/7 automated heat detection
- DeLaval DelPro™ Farm Manager provides the overview needed for making daily management decisions
DeLaval MidiLine™ ML2100 milking system

Low investment swing-over system

With its swing-over clusters positioned in the middle of the pit, DeLaval ML2100 lets you cut automation costs in half.

Serving both sides of the parlour, DeLaval MidiLine ML2100 makes extremely efficient use of milking points compared to a system with one unit per stall. In other words, you can achieve a similar parlour capacity to a double-up or low line system, for a significantly lower capital investment.
Operator comfort
- Well positioned interfaces ensure comfortable and easy operation.
- Accurate and intuitive automatic cluster removers ACRs promote better routines and less walking.
- The optimized design of our ML2100 swing-arm, ensures open work areas and unhindered preparation of the next row of cows.

Cow Comfort:
- Perfect positioning leads to comfortable cows. With optimum cluster alignment provided by the DeLaval MSA20 swing-arm, cows milk quickly and easily, leading to higher throughputs.

Affordable automation:
- With a swing-over parlour, you get high cluster utilisation per dollar invested – and that means faster payback.
- Requiring fewer units than a lowline, DeLaval MidiLine ML2100 offers lower investment for high level automation.
- Quality equipment that helps you finish milking faster.
DeLaval MP100 Series

The DeLaval MP100 series are one button operational, electronically programmable, automatic cluster removers. They are protected in durable, corrosion resistant casing for a long, hardworking life. The design looks simple but has many supporting functions for speedy and efficient work flow, such as pre-milking stimulation options for fast and complete milking, and individual pulsation control.

These Milking points can be combined with various DeLaval flow sensors (HFC, FI2) or milk yield indicator FI7 and Milk Meter MM27BC.

The units are designed to work in every known type of parlour.

1. DeLaval Milking point MP150
   This MP provides the highest level of Take off only of the MP100 series. It can be installed in Low Line (picture 1 & 3) or MidiLine (picture 2) systems, and allows Duovac™, ComfortStart, remote cleaning/milking operation, claw drop and individual cleaning preparation. MP150 with DeLaval flow indicator FI7 or DeLaval Milk Meter MM27BC displays yield, flow and milking duration, to assist in daily herd management.

2. DeLaval Milking point MP170
   is a simple first step to Herd management. The MP170 being the brother of MP150 will not only save you time and prevent over-milking. It’s the way to collect yields and cow number and built an accurate database to help you managing your herd in a simple way using DelPro herd management software. MP170 is not just a take off unit since it will give the milker herd related information. Sometimes less is more, the milker

Milk recording

Effective monitoring of milk with ICAR- approved milk meters and non-ICAR indicators provide the information you need to improve cow health and milk quality. DeLaval ICAR-approved milk meters, such as the MM27BC, go a step further in monitoring blood traces in milk, conductivity, kick-off and air entry into liners.
can easily relate to a few key functionalities instead of being confronted with more complex MP. Although the design is very simple, the MP170 offers many useful features that help managing your herd such as sorting a cow on spot when she leaves the parlour.

MP170 together with Animal identification and Flow indication (FI7) or milk metering (MM27BC) ensures that you know which of your cows are producing best and can act quickly at any yield drop.

Check with your dealer which MP100 is the most appropriate for you.

3. DeLaval Milking point MP580
Used as an integrated stand alone automatic cluster remover, DeLaval MP580 offers you efficient, simple and fast milking operation. This unit monitors milk yield, provides remote gate operation and indicates abnormal air entry into the cluster, when it is combined with DeLaval flow indicator FI7.

With MM27BC and connection to DeLaval ALPRO™ or Delpro™, MP580 supplies even more. It detects traces of blood and abnormal milk-out, and provides ICAR approved yield measurement and milk conductivity level, and records that data in the herd management software.

DeLaval MP580 makes the link to DeLaval ™ and helps you to better manage your herd. You benefit from the interactive user interface, clear information such as “Don’t milk” or “Dump milk”, and it enables sorting of a cow from any milking point.

4. DeLaval Milking point MP680
This is the premium parlour user interface with DeLaval ALPRO™ or Delpro™ herd management system which gives you full remote control of all other milking points. It is designed to run around the clock and to help you maximize production with a consistent, efficient milking routine. It offers all the functionality of DeLaval MP580, controlling the milking point for smooth milking and recording milk yield, and much more. It delivers more information and clearer alerts, e.g. feed alarm and ration or cow treatments, and enables many more active inputs on all milking points to parlour operations or into the ALPRO™ /Delpro™ software. It combines well with DeLaval MP580.

5. DeLaval milking point MP780
The MP780 was created to give you full control over information on every cow. This superior streamlined milking point for full herd management can connect to ALPRO™/Delpro™ to give the milker access to all cow data. You can see and set the information such as treatment flags or “sort cow” on the spot. No need to go and change the status in the management program afterwards.

DeLaval MP780 gives full MP680 functionalities housed in a sleek, vertical, stainless steel cabinet for trouble-free operation and easy cleaning; and the quiet environment reduces milking stress for cows and milkers and allows faster milking routines. DeLaval MP780 is suitable for new installations or existing parlour upgrades, and comes pre-assembled for fast and easy installation.
DeLaval Milking Points

DeLaval MP100 Series
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DeLaval MP780 gives full MP680 functionalities housed in a sleek, vertical, stainless steel cabinet for trouble-free operation and easy cleaning; and the quiet environment reduces milking stress for cows and milkers and allows faster milking routines. DeLaval MP780 is suitable for new installations or existing parlour upgrades, and comes pre-assembled for fast and easy installation with minimal production disturbance.
Farm management systems

Bringing the latest technology to dairy farms around the world

A farm management system collects and processes data around the clock, 24/7. It helps to identify trends and supports you in developing strategies at an early stage, helping you to manage your herd and identify cows in need of extra care.

The right decision at the right time
A herd management tool is essential for all farmers who are interested in optimizing production and profits. DeLaval farm management system is a modular concept that allows you to manage sorting, feeding, milking and breeding as one integrated business operation. This optimum herd management solution keeps track of each animal, monitors trends and evaluates options.

The power of control
Knowledge is a powerful tool. Reliable ID and milking point controllers help you to manage your milking process in an accurate way and provide you with valuable information.

Easier herd management
Lactation curves can be displayed graphically as can the development and trends of fat, protein and somatic cell count. Activity meters and a breeding calendar are powerful tools in your reproduction management.
A good barn environment is essential for optimum cow comfort, health and productivity, and to protect your milk quality. This is particularly true in loose-house barns, where your animals are indoors all or most of the time.

A good barn environment is essential for optimum cow comfort, health and productivity, and to protect your milk quality. This is particularly true in loose-house barns, where your animals are indoors all or most of the time.

Your animals need fresh clean air to achieve their production potential. Unventilated or poorly ventilated structures with high levels of moisture, manure gases, pathogens and dust are detrimental to your cows, and your profits. Good light management will optimize milk production.

DeLaval offers a range of effective cooling and pre-cooling systems that can be tailored to meet the needs of a productive farm. They ensure that milk is cooled down rapidly and kept in motion, preserving fat content and reducing bacterial growth. In short, they keep milk fresh, so that you can maximize milk quality and secure milk premiums.

DeLaval supplies a wide range of proven solutions, equipment, consumables and accessories to help you control the production of the highest quality milk from healthy cows. Help your animals relax in a more hygienic, ergonomic and comfortable environment, and you help improve overall profitability.
**Vacuum system**

The vacuum system is one of the key components in your milking system – providing vacuum for efficient milk extraction and transport, and for effective cleaning of the whole system.

1. **DeLaval vacuum pump DVPF**
Vane vacuum pump with frequency inverter and integrated DeLaval vacuum pump controller VPC for much quieter milking and energy savings of 30% to 60%. Electronic control regulates vacuum levels: constant vacuum at 30% to 50% capacity for milking, full vacuum for cleaning. Up to three DVP2700F can be controlled by one VPC in our multi-pump solution, managing up to 80 milking points.

2. **DeLaval vacuum pump DVP**
This direct-drive vane vacuum pump has no belt. It is reliable, efficient, and safe, with no exposed moving parts, and none of the worries of belt-driven pumps. Operation is more precise and tolerances are reduced, for constant vacuum and smoother running which uses less oil. The silencer/oil reclaimer collects up to 95% of oil for careful disposal and reduces air borne oil particles.

3. **DeLaval variable speed drive NFO**
DeLaval variable speed drive NFO is the first in the dairy industry with a whisper-silent variable speed drive for vacuum pump – addressing the source of the EMC problem rather than the symptoms.

4. **DeLaval vacuum pump controller VPC**
DeLaval VPC Controls up to three frequency controlled pumps and, in the multi-pump solution, the pumps are rotated to even out the run times. That means uniform wear and tear - for low maintenance and long life together with an optimum controlled vacuum level.

5. **DeLaval vacuum pump oil**
Pump capacity is vital to quality milk production, good udder health and plant cleaning. Original DeLaval vacuum pump oil cost-effectively helps protect pump life, the milking system and resulting profits.

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<thead>
<tr>
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**Pump Type DVP1400**

<table>
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<tr>
<td>Number of vacuum pumps</td>
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</tr>
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<td>Running hours per day</td>
<td>x</td>
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<tr>
<td>Electricity cost per day £</td>
<td>x</td>
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<tr>
<td>Saved electricity cost per day £</td>
<td>=</td>
</tr>
<tr>
<td>NFO Investment</td>
<td>/</td>
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<tr>
<td>Saved electricity cost per year £</td>
<td>£</td>
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<tr>
<td>Time for return on investment (years)</td>
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</table>

<table>
<thead>
<tr>
<th>Vacuum pump motor (kW)</th>
<th>x</th>
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<tr>
<td>Number of vacuum pumps</td>
<td>x</td>
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<tr>
<td>Running hours per day</td>
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</tr>
<tr>
<td>Time for return on investment (years)</td>
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Harmony™
DeLaval introduced the Harmony™ cluster in the early 1990's. Today the name is synonymous with rapid milk flow, gentle treatment of the cow and easy handling. The light shells and high quality materials give an ideal weight without sacrificing cluster durability. Weighing one kilogram less than conventional clusters, Harmony™ lowers the risk of liner slip and cluster fall-off. Harmony™ will optimally meet the needs of highest producing herds milked less than 12 hours per day.
- Weight: 1.6kg
- Short milk tube Ø: 12.5mm
- Outlet ID: 16mm
- Claw volume: 360ml

MC31 will meet the demands of most producers milking less than 12000 kg per lactation.
- Weight: 2.7kg
- Short milk tube Ø: 12mm
- Outlet ID: 16mm
- Claw volume: 360ml
Herd Navigator™ for VMS® and milking parlours

You know a healthy cow is a profitable cow…

Forget guesswork.
Forget averages.

Win time.
Earn more.

Ease your workload.
Boost productivity.

You Can Earn An Extra €250 Per Cow!

Herd Navigator™ features

• Automatic sampling of up to eight VMS stations, together with analysis of the respective milk indicators, giving you control over your daily milk production.

• It analyses four parameters:
  – LDH (Lactate dehydrogenase) for mastitis
  – Progesterone for reproduction
  – BHB (beta hydroxybutyrate) for ketosis
  – Urea for feed protein balance

• Clearly identifies the cows in need of special attention – for reproduction, health and feeding.

• It provides clear, easy to understand, recommended action plans.

• You can take action before the clinical outbreak of disease, before a cow shows clinical signs.

• Automatic heat detection with the “gold standard” indicator progesterone finds even silent heats.

• It also provides your vet and advisors with new, detailed information that enables them to give you faster and even better service.

• It improves efficiency in daily tasks and reduces time and labour in work routines.
Intelligent milk-sampling station Analysis unit

Clear action points for effective management

Detects heat by measuring progesterone
Early detection of: silent heat, heat, pregnancy, abortion, follicular and luteal cysts, and prolonged anoestrus.

Detects mastitis by measuring LDH, lactate dehydrogenase
Early detection of acute mastitis.

Detects ketosis by measuring BHB, beta-hydroxybutyrate
Early detection of: subclinical ketosis, ketosis, metabolic diseases.

Herd Navigator™ also detects urea to help balance feed protein.

Herd Navigator™ support
- Easy to use software integrated into the herd management program.
- Well arranged attention lists and graphs for all animals in need of special attention.
- Preset action proposals for the “attention” cows (standard operating procedures – SOP).
- Functionality to develop your own treatment schedule, which you may choose to do with support from your local veterinarian or advisor.

Connect with the experts: if you choose, your veterinarian and advisory service may access your dairy management data remotely to provide advice, quickly and efficiently, based on real time data from your herd.

A Herd Navigator™ from DeLaval gives you the real-time advice you need to treat a cow at risk before it gets mastitis or ketosis. And the information given provides you better control, improving your reproduction, nutrition and health management. And now, with the newest upgrade, Herd Navigator™ can analyse milk samples from up to eight VMS stations.

### Parameter Detection Rate

<table>
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<th>Parameter</th>
<th>Detection Rate</th>
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<td>Heat Detection</td>
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<tr>
<td>Mastitis (acute Mastitis)</td>
<td>80%</td>
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<tr>
<td>Confirm pregnancy/abortion</td>
<td>&gt;90%</td>
</tr>
<tr>
<td>Luteal cysts</td>
<td>90%</td>
</tr>
<tr>
<td>Follicular cysts</td>
<td>70%</td>
</tr>
<tr>
<td>Ketosis</td>
<td>&gt;80%</td>
</tr>
</tbody>
</table>

Herd Navigator Profit Improvement Potential

- Labour Saving
- Urea
- Reproduction
- Other Diseases
- Mastitis
- Ketosis

Herd Navigator TM supports your dairy management by providing real-time analysis and recommendations for effective herd management.
**Pulsation** is the heartbeat of the whole milking system. DeLaval has a range of efficient pulsators designed to meet all needs, from the simplest to the most demanding.

**DeLaval master pulsator**
**DMP150 and DMP500**
Designed to fit all types of parlours, DeLaval DMP150 and DMP500 control up to 24 or 80 EP100 pulsators. They can be set to alternating or simultaneous pulsation with a wide range of adjustable rates and ratios, suitable for cows, sheep or goats. DeLaval DMP150 and DMP500 provide fully adjustable time-shifted pulsation periods (Rate and Ratios) for stable vacuum conditions and good udder health.

**DeLaval pulsator EP100** is the most sold electronic pulsator in the world. It works with the DMP master pulsator and offers precise individual pulsation for optimum animal comfort with maximum milking efficiency. A vacuum operated diaphragm means minimal wear while well proven technology offers resistance to temperature, humidity and dirt.

**Milk meters – optimising herd management for improved daily milk yield, cow health and profitability** DeLaval offers a complete range of ICAR approved milk meters, yield indicators and flow sensors that precisely measure your herd’s day-to-day milk production for optimised milk yield, milk quality, cow health and profitability.

1. **DeLaval milk meter MM27BC**
The latest DeLaval MM27BC milk meter delivers you all the key data needed to optimise your herd management for better productivity and profitability. A highly accurate ICAR approved milk meter that also monitors blood traces in the milk, milk conductivity, air entry in the liners (kick-off, block and slip), the DeLaval MM27BC delivers you fast, on the spot milk yield monitoring and improved cow health control.

Meeting the demands of dairy farmers around the world for a one-stop solution for sustained production efficiency, the DeLaval MM27BC milk meter harnesses infrared light technology to measure the flow of milk with extreme accuracy.

2. **DeLaval yield indicator FI7**
This unit uses infrared technology which ensures no direct contact with the milk. It senses the milk flow and displays the estimated yield, giving a good indication of each cow’s milk yield. It also measures milking duration. DeLaval FI5 has no moving parts which means reliable operation with minimal need for service.

3. **DeLaval flow indicator HFC**
Robust construction for heavy duty 24/7 milking. It is designed for high yielding dairy cows. Easy to service.

Key benefits of the New DeLaval MM27BC milk meter
- Milk is measured continuously with minimal disturbance on the milk or airflow.
- Monitors blood presence, milk conductivity and milk out performances.
- It is not dependent on a central computer.
- Low service cost – no movable parts.
- Information is displayed on the milk meter.
- Sealed unit.
- It is fully compatible with previous generations of products.
- Unique detection of kick-off, block and slip.
### Milk meters

<table>
<thead>
<tr>
<th>Name</th>
<th>Measurement</th>
<th>Readings</th>
<th>Cluster removing when combined with milking point</th>
<th>In combination with cluster removers</th>
<th>ICAR Approved</th>
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</thead>
<tbody>
<tr>
<td>1. DeLaval milk meter MM27/BC</td>
<td>Infrared and white light</td>
<td>On meter or on MP</td>
<td>Yes</td>
<td>Yes, optimized for DeLaval MP780, MP680, MP580, and also for MP400</td>
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<td>2. DeLaval milk meter MM15</td>
<td>By weight</td>
<td>On MP</td>
<td>Yes</td>
<td>Yes, DeLaval milking point MP780, MP680 and MP580</td>
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<td>3. DeLaval milk meter MM6</td>
<td>Manual</td>
<td>Visual on meter</td>
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<td>No</td>
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<tr>
<td></td>
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</tbody>
</table>
### Milk yield indicators

<table>
<thead>
<tr>
<th>Name</th>
<th>Measurement</th>
<th>Readings</th>
<th>Cluster removing when combined with milking point</th>
<th>In combination with cluster removers</th>
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</thead>
<tbody>
<tr>
<td>4. DeLaval yield indicator F17</td>
<td>Infrared light</td>
<td>On meter or on MP</td>
<td>Yes</td>
<td>Yes, optimised for DeLaval MP680, MP580, MP400 and MP150</td>
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<tr>
<td>5. DeLaval flow indicator F12</td>
<td>Volume</td>
<td>—</td>
<td>Yes</td>
<td>Yes, DeLaval MP780, MP680, MP580, MP400 and MP100 series</td>
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<tr>
<td>6. DeLaval flow indicator HFC</td>
<td>Resistivity</td>
<td>—</td>
<td>Yes</td>
<td>Yes, DeLaval MP780, MP680, MP580, MP400 and MP150</td>
<td></td>
</tr>
</tbody>
</table>

### DeLaval heat recovery system HRS

**Wash away high heating costs**

![Diagram of heat recovery system](image)

**Reduce energy costs**

DeLaval heat recovery system generates warm water using a milk cooling process. This solution can recover up to 60 percent of the heat extracted from cooling milk and convert it to hot water for use in all your pipeline and parlour cleaning.

Milk cooling to a low storage temperature is an essential part of your daily routine. The environmentally-friendly DeLaval heat recovery system generates warm water from the milk cooling process. The energy removed from this process generates warm water rather than hot air. In fact for every litre of milk cooled, 0.7 litres of warm water is produced.

**Profit from heat recovery**

The heat transferred from milk to water is maximized through the thermostat or water pressure valve control set, to reduce your energy consumption and related costs. You may even be able to further reduce these costs via subsidies from local energy usage reduction programmes.

No labour is needed for daily adjustments because DeLaval heat recovery system operates automatically and you only need minimal space for this compact, well designed solution. You can also customize your choice from a wide range of heat exchangers and storage tanks.

**Numerous uses for on-farm water heating**

- You need an adequate quantity of hot water (80°C to 85°C) to clean the milking system after each milking and the cooling tank whenever it is emptied. Our heat recovery unit warms water (50°C to 55°C) and an additional heater is installed to make the water hot. When compared to heating tap water directly from 10°C, this dual approach consumes far less energy and that means less cost.

- Warm water sourced straight from the storage tank can be used for manual milk room washing and cleaning together with general household demands like showers or washing your hands.

- Luke-warm water (15°C to 35°C) is a combination of storage tank water mixed with cold water. It can be used to clean udders before milking, as drinking water for cows and calves during winter time and as milk powder preparation for calf feeding.
Compact chillers for instant milk cooling
CWC60, CWC90 and CWC120

A very cool way to increase your milk quality and profit
One of the challenges faced by every dairy operation is cooling milk fast enough to achieve the highest level of milk quality. This is especially true for dairy farmers who are expanding their operations, changing over to voluntary milking systems or simply trying to make do with out-dated cooling systems that just can’t keep up.

The DeLaval Compact Chiller range lets you achieve the highest levels of milk quality and profit by delivering powerful instant cooling that locks in the quality of your milk before it goes into the tank.

In case your existing equipment cannot cope with increased production on your farm you can also use them to pre-chill the milk before it comes to tank for final cooling.

But what’s really cool is how well these compact chillers fit into your milking system. As the only complete-solution provider in the dairy industry, DeLaval always looks at how solutions work together – not just how they work on their own. Recognising the challenges of space that many modern dairy farms face, we didn’t want to develop a space-consuming solution that would create one problem to solve another.

So we developed a range of milk chillers that are not only compact enough to fit into the space you have available, but also robust enough to be able to operate away from high-traffic areas – even outside the barn if you need.

With configurable power options that let you customise cooling capacity to meet your needs while allowing you to scale up in the future; DeLaval Compact Chillers are the ideal milk cooling solution for any sized operation.

Voltage 3x400V 50Hz

<table>
<thead>
<tr>
<th></th>
<th>Nominal capacity kW at 38°C ambient</th>
<th>Number of cooling circuits</th>
<th># of compressors</th>
<th># of circulation pumps</th>
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<tbody>
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<td>CWC 60</td>
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<td>2</td>
<td>2</td>
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<tr>
<td>CWC 90</td>
<td>88</td>
<td>2</td>
<td>4</td>
<td>2</td>
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<tr>
<td>CWC 120</td>
<td>121</td>
<td>2</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

Core benefits
- Possibility to cool milk on farms where traditional in-tank cooling is not enough
- Provides fastest cooling rate of all cooling system types -> conserves milk quality
- One-piece design makes it easy to install and maintain
- Possible to install outside the building to conserve space
- Built in heat recovery to limit energy use
- Makes possible use of vertical tanks with limited cooling surface to store the milk
- Designed with long working time in mind, double system to minimize risk of total failure
- Multiple compressors circuits to adjust capacity to actual milk flow on farm
DeLaval cooling tank DXO
No frills, just cools!

Although milk has a natural resistance to bacteria immediately after it leaves the cow, only rapid cooling will stop the growth of harmful bacteria. Correct milk cooling is the only way to retain optimal quality and command the highest price from the dairy. DeLaval cooling tank DXO efficiently cools your milk so you can maximise your income.

**Easy installation**
DeLaval DXO tanks all come complete with factory installed refrigeration and electrical systems ready for fast, trouble-free installation in your milk room. Tank capacity can be matched to your needs, based on cow numbers, average yield, and the frequency of milk tanker collection.

**Insulation**
DeLaval cooling tank DXO incorporates environmentally friendly (CFC free) high-density polyurethane foam to prevent cold milk from warming up. Any increase in temperature is limited to less than 1°C over a 12-hour period (in an ambient temperature of 32°C) so milk is kept well cooled.
Top hygiene and quality
Cleaning is easy due to the high quality finish of the double-walled, stainless-steel shell. The rounded shape of the lid prevents water remaining on it and minimizes the risk of dirt adhering to the surface.

Compact cooling
With its condensing unit placed underneath the small tank, DeLaval open tank DXO 200litre needs only 1.43m$^2$ of space.

100% control
The electronic DeLaval control box T3 takes care of your cooling tank’s daily operation. This device controls milk temperature, agitation and cooling time. Its purpose designed digital display and functions make cooling easy.

<table>
<thead>
<tr>
<th>Capacity nominal</th>
<th>Capacity maximum</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>K</th>
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<td>1830</td>
<td>1430</td>
<td>890</td>
<td>760</td>
<td>310 ÷ 342</td>
</tr>
</tbody>
</table>

Dimensions in mm; Capacity in litres; Weight in kg
We designed the heavy duty DeLaval DXCE and DXCEM bulk milk cooling tanks to meet your distinct cooling needs. At DeLaval we can customize this essential cooling component to serve any sized dairy farm, anywhere. Maximize your income by professionally cooling and storing your milk with DeLaval.

**DXCE**

High gas turbulence inside our evaporators gives rapid cooling and saves energy costs

**Targeted quality cooling**

DeLaval effectively caters to the cooling needs of all sized farms around the globe with our top quality DXCE and DXCEM cooling tanks. The elliptic shaped DeLaval cooling tank DXCE matches small to medium sized dairy farms with five different width dimensions and capacities from 1150 to 12 000 litres. The hyper-elliptic shaped DeLaval cooling tank DXCEM serves big dairy farms with 12 000 to 32 000 litre capacities and two different diameter sizes.

**Inside out**

The unique shape of our tanks allows us to use large evaporator surfaces without overdoing the outer tank dimension. Each tank can contain one to four independent, DeLaval made dimple plate evaporators for reliably efficient milk cooling. All our cooling tanks are insulated with a high density, environmentally-friendly foam which protects against energy loss from the inside.
Rapid cooling
Milk is increasingly sensitive to mechanical impact as its temperature falls, so our agitator blades run at a minimum speed and are positioned centrally on the tank. This design distributes the cold temperature generated at the bottom of the tank, through the milk within two minutes, to help ensure rapid cooling.

DeLaval DXCE is equipped with one blade to delicately handle your milk and the larger DeLaval DXCEM tanks perform with two. The blade has inbuilt spray nozzles and combines with a strong hydro-power cleaning pump to reliably maintain your tank’s hygiene.

The double revolving manhole lid opens vertically or horizontally for easy access and it is ideal for milk rooms with low ceilings.

DXCEM

DXCEM with cleaning and control unit T250

Note: a lid holder is standard on 700 to 1850litre tanks.
Top hygiene made easy
DeLaval simplifies daily cleaning routines to save your time and effort by offering a wide, quality range of cleaning and control units. Simply choose the level of automation and programming you require.

You can select from a standard circulation cleaning system like DeLaval cleaning and control unit T10, through to micro-processor controlled models offering several adjustable cleaning programs like DeLaval T100 and T200. DeLaval T200 is the current market leader because it reduces cleaning water consumption by 46 percent, detergent use by 43 percent and cleaning time by up to 60 percent when compared to other circulation cleaning systems. DeLaval T150 and T250 even offer alarm features and data recording.

Automatic peace of mind
Milk producers using an automatic milking system require a special cooling setup. We developed DeLaval flow controlled cooling FCC specifically for this purpose. It helps avoid common problems found on systems not adapted to the realities of automatic milking – like milk freezing, high plate counts, water residues and high freezing points. DeLaval FCC links DeLaval voluntary milking system VMS to the cooling tank and one of our T-family of cleaning and control units.
All relevant process data and alarms are linked between the milking system and DeLaval DXCE or DXCEM. This data is communicated to the milker via the DeLaval VMS display and optional external warning devices.
DeLaval silo tank DX3S
Protecting milk quality at large volumes

Safety air-vent system
Minimizes the risk of tank damage due to negative pressure during both emptying and cleaning of tank.

Efficient cleaning system
Patented direct-to-drain technology with custom-designed T-sprayer provide optimum cleaning results protecting milk quality.

Milk volume indicator
Makes it easy to monitor the volume of milk in DeLaval DX3S.
Smarter storage for farms with parlours and rotaries

With tank volumes of up to 40,000 litres, DeLaval DX3S offers significant storage capacity. To protect the quality of such large volumes of milk, DeLaval DX3S provides optional side evaporators, to give you exceptional cooling capacity for tanks of this size.

When storing large volumes, it’s recommended to pre-cool milk before it enters the bulk tank. DeLaval has a range of pre-coolers that can reduce total energy consumption for cooling by as much as 60% compared with direct expansion cooling. To achieve the highest milk quality, we recommend using instant cooling with DeLaval compact chillers CWC and plate heat exchangers.

Cut energy costs by up to 60%
With pre-cooling, you can reduce the total energy needed to cool milk by up to 60%.

Even insulation – longer cooling
Polyurethane coating process is controlled by an infrared camera to achieve highly even insulation. Thanks to this the best thermal protection and prolong lifetime for compressors.

20% lower mixing costs
Two-speed agitation allows for efficient mixing, whether for small or large volumes of milk.

Soft-start and soft-stop of agitator Reduces wear and tear of gearbox and agitator paddle for longer service lifetime.

Over-flow protection
When the tank is 90% full, an alarm warns personnel to stop milking or when possible to divert milk to a different tank.

Milk room access
All connections from the tank lead into the milk room to ensure premium milk quality and full control over access to the tank.

Stainless steel quality
Provides mechanical strength and resistance to corrosion. Manufactured with high quality finish for long service lifetime.

Outdoor installation
Makes it possible to reduce the size of the milk room, while making it easier to expand your farm in the future.

Agitator design development
Developed in collaboration with university researchers, the design of the agitator achieves optimal heat-transfer efficiency.

World-class evaporators
The evaporators are extremely efficient, which prolongs the lifetime of the condensing units. Their high efficiency also helps to reduce energy costs.
Keeping milk at the optimal temperature and ensuring the cooling tank is cleaned properly once it’s emptied is essential if you want to ensure milk quality is preserved. Automating these processes with DeLaval cleaning control unit T300, ensures maximum cleaning results are achieved with minimum resources.

Fully programmable to meet the needs of your farm
With DeLaval T300 you don’t have to worry about your milk in the cooling tank. The pre-programmed control unit automatically cools milk to the ideal temperature, as well as cleans the tank each time milk is collected by the dairy. Cooling and cleaning parameters can also be programmed to meet your, or your dairy’s, specific requirements taking minimal required time no matter if you are using conventional milking systems or DeLaval VMS™.

The cost-saving control unit
DeLaval T300 is a cost effective control unit. On average it uses 30% less water than conventional circulation cleaning systems. Additionally, as it registers exactly how much milk is in the tank, it uses the minimum amount of energy required to keep the milk cool – no energy is wasted.

Integrated system
DeLaval T300 can be fully integrated with DeLaval DelPro™ Farm Manager when used with DeLaval VMS. This enables you to control the cooling and cleaning processes as well as view diagnostics reports from the farm computer. DeLaval T300 can also be controlled directly from the control unit, via a user-friendly interface.

Secure cleaning and cooling
DeLaval T300 has a built-in milk monitoring system. It informs you of current milk tank status – including milk temperature and volume, or current stage of cleaning – and provides a history of cooling and cleaning operations. There is an optional GSM module for receiving alerts on your mobile.

Safe collection
DeLaval T300 has a warning system that informs the milk truck driver if it is safe to pump the milk from the milk tank.
Cleaning milking equipment is a vital part of your daily routine. It is essential for maintaining top quality milk but is not something you want to spend time doing yourself, or supervising.

Entrust cleaning to a DeLaval cleaning unit and solve this dilemma at the touch of a button. These units clean your milking installation automatically after every milking. Instead of standing in front of a wash trough, you can devote your energy to more important things like herd management or spending time with family and friends.

Consistent, no-compromise cleaning
As automated units, DeLaval cleaning units always clean in the same consistent and effective way. They never hurry. They never have a bad day. The result is always the same. This consistent way of working is built into the design. For example, the water level filling feature ensures the same volume is used at every single cleaning, regardless of water supply pressure.

A full assortment
DeLaval offers a wide range of cleaning units; from semi-automatic units convenient for small bucket installations, up to automatic ones suitable for a big, sophisticated milking installation. DeLaval automatic cleaning systems control essential cleaning factors such as water temperature, detergent dose rate, cleaning duration and water turbulence.

1. DeLaval cleaning unit C100E
Although more basic than the C200, the C100E automatically takes care of cleaning your milking plant and is easy to use. The all-in-one unit is easy to install and keeps your milk room looking neat.

The C100E is available as a stand-alone unit requiring a separate wash trough, or with an integrated container. The latter unit is equipped with heating elements and is available with 40 litre, 80 litre or 160 litre containers.

2. DeLaval cleaning unit C200
Cleaning unit C200 is supplied as one unit, allowing efficient installation, operation and monitoring. This fully programmable unit is electronically controlled, to provide a cleaning system that meets your exact milking plant requirements. This unit provides low running costs.

The C200 is available in 40 litres, 80 litres, 160 litres and as a stand-alone unit. A wide range of accessories are available for the C200.

3. DeLaval cleaning unit C50
The hygiene requirements of milking plants on smaller dairy farms are very similar to those of much larger dairy farms. An effective cleaning system which provides a consistent, high quality result – and is reliable and easy-to-use – is a priority for any farmer running a small to medium sized dairy farm.