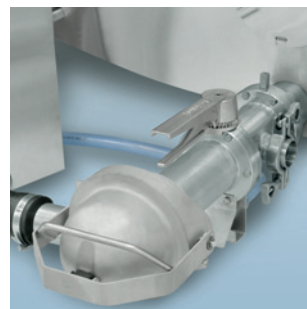




GEA Farm Technologies

## TCool – The Milk tank series

A gentle climate for the milk  
An ice-age for energy costs



GEA Milking & Cooling | [WestfaliaSurge](#)

GEA Farm Technologies – The right choice.

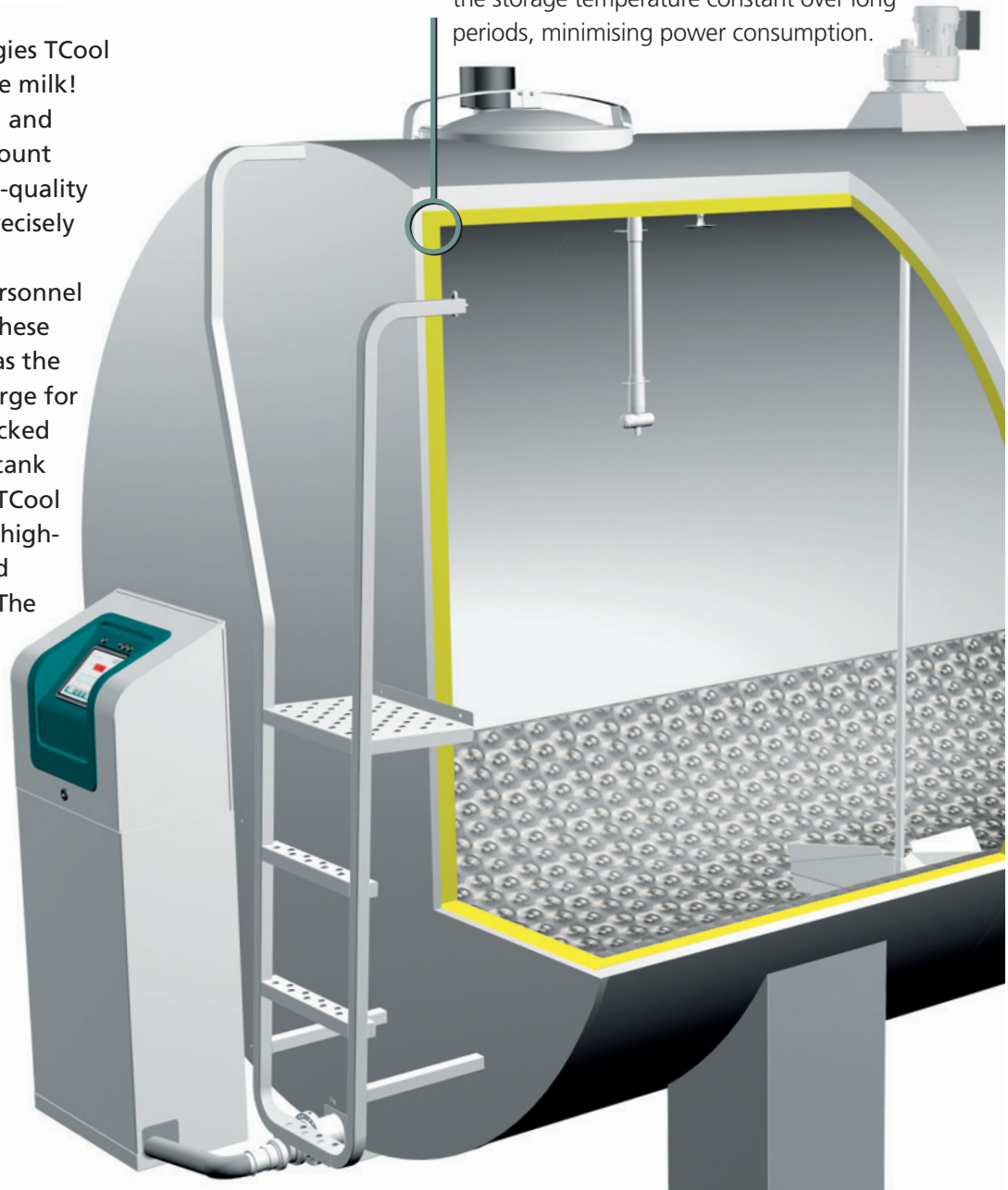
# Choose intelligent cooling ...

Inside the GEA Farm Technologies TCool tank, your profits flow with the milk! Because an intelligent cooling and cleaning concept take into account every factor affecting the high-quality tank so that you can save at precisely where it counts.

Invested capital costs, feed, personnel and operating costs: None of these costs pay off unless the milk has the right quality. But who is in charge for your valuable milk until it is picked up? You can rely on a cooling tank from GEA Farm Technologies: TCool combines optimal tank design, high-performance cooling units and superior cleaning technology. The Expert control unit monitors key factors, ensuring perfect hygiene and minimising the operating costs.

With this powerful concept there is only one winner: You. Due to the quality of the tank you can rely on receiving top value for your milk. A quality investment with a quick pay-back.

Freshness in the right packaging:  
The high-density, CFC-free insulation keeps the storage temperature constant over long periods, minimising power consumption.





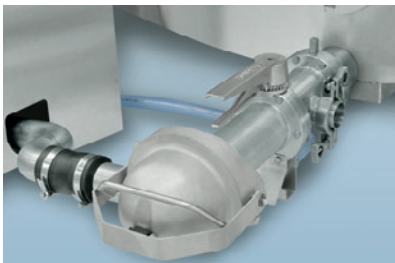
## A brilliant basis for highest quality milk

Powerful cleaning technology keeps the interior free from residues, protecting perfect hygiene.



High performance inside:  
A control unit that incorporates water level metering, a powerful pump and dynamic water supply to guarantee perfect cleaning.

Turbo-charged rotating diffuser and a gentle agitator work together, safeguarding the good quality and the full taste of the milk. You will find all the details on the following pages as well at: [www.gea-farmtechnologies.com/LTCEN.htm](http://www.gea-farmtechnologies.com/LTCEN.htm)



Flexible hygienic connection:  
Patented valve technology separates water and milk with absolute reliability. With an optional self-cleaning drain.



Accurate dosing down to the last millilitre: Dispensing pumps precisely and economically measure both acidic and alkaline cleaning agents. Optional use of a third dispensing pump for disinfection.



# ... for customisation by the user ...



Intuitive operation makes the Expert control easy to use: Flexible cleaning programs can be customised to comply with required regulations! Historical performance data is available with the touch of a button.

A smart system focused on savings: The Expert control cools, agitates, cleans and monitors every function to ensure the lowest energy usage.

An eye on everything, everything under control: User-friendly Expert control unit is positioned at an ergonomic height.



*(Option)*

Software „Expertise“ as smart Service tool for technicians

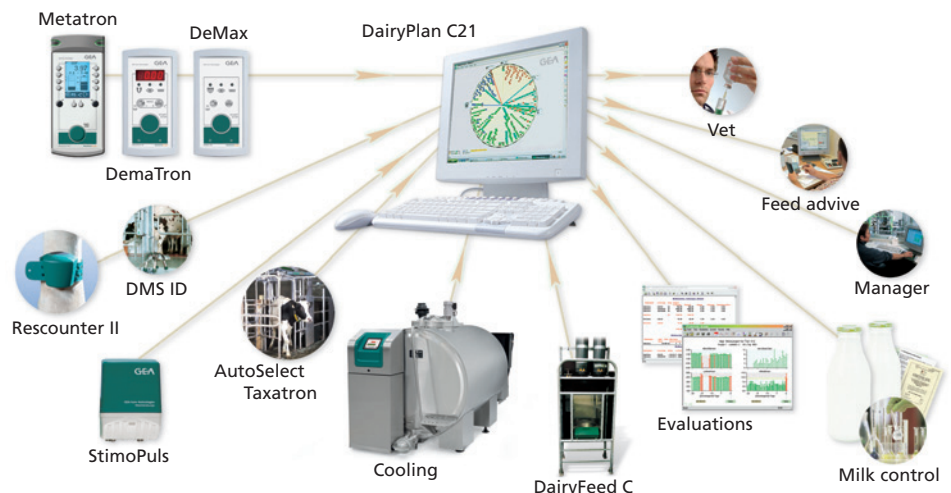
- Data storage for 2 months
- Temperature profile
- Milk and cleaning process
- Fulfillment of functionalities by fault codes
- Performance of cooling



*(Option)*

Integration in DairyManagementSystem 21

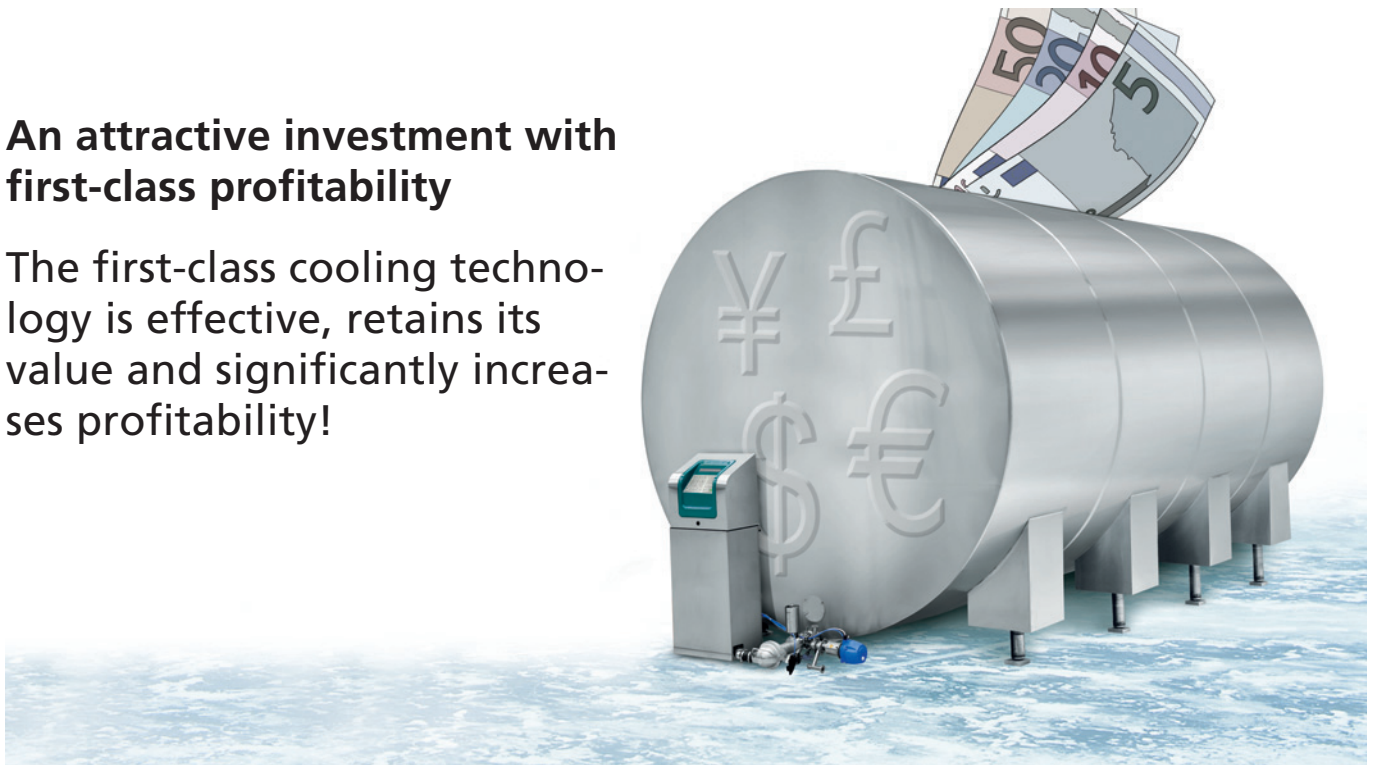
- Monitoring of current operation mode
- Access to data storage





## An attractive investment with first-class profitability

The first-class cooling technology is effective, retains its value and significantly increases profitability!



Unique cover design provides leak proof seal without a gasket. Opens vertically or swings out of the way.



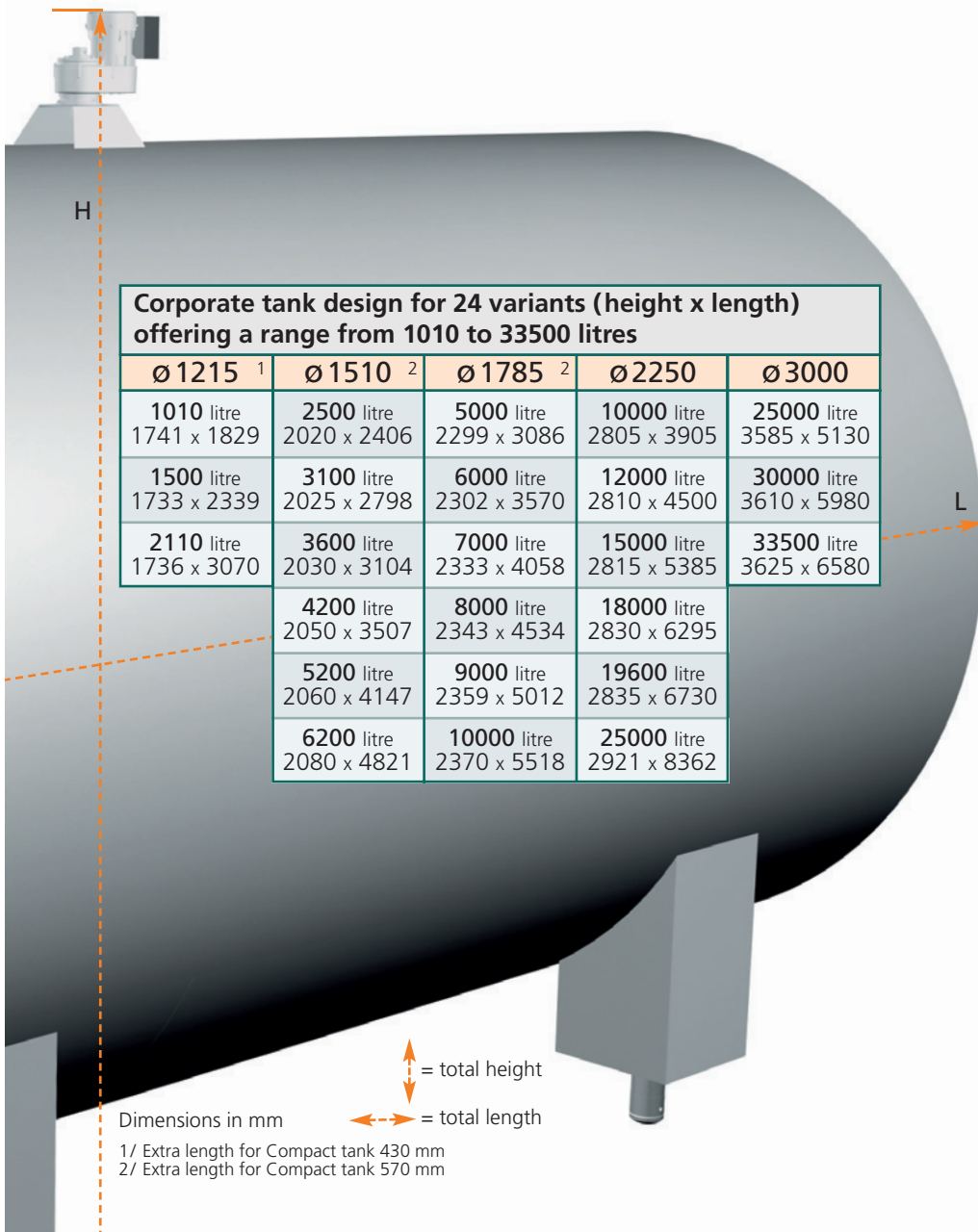
Valuable technology on a strong foundation: The reinforced, non-warping tank body enables precise and permanent calibration. The solid feet are easy to adjust on the dairy.



The patented digital measuring stick provides automated accurate milk quantity measurement and is recognised by numerous standards authorities.



# ... and save money at the right point!

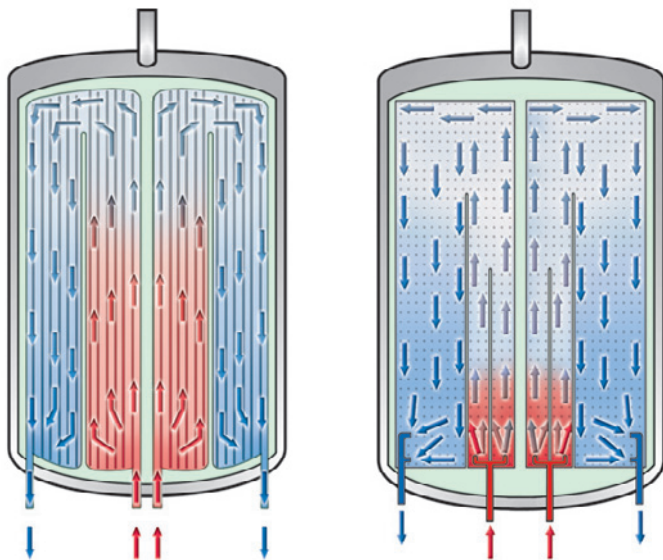


The many available sizes and extensive features of the TCool tank can be combined to create three customised packages to satisfy any milk cooling requirement:

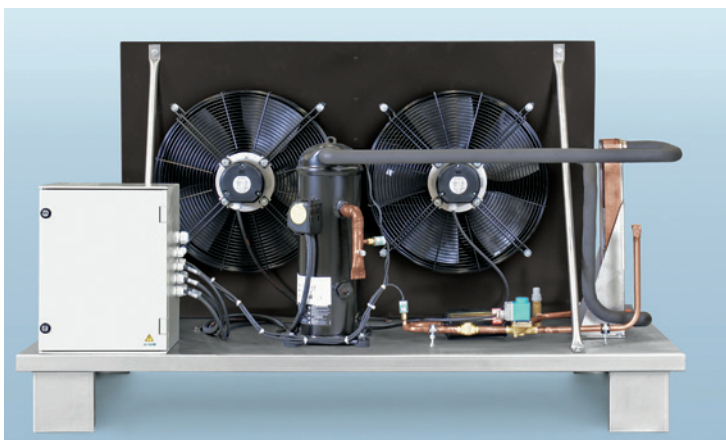
- Standard version, Basic: Profit directly from the tank's outstanding insulation, the dynamic cleaning power of the AED system and the effective, energy-saving performance of the durable evaporator.
- Comfort version, Expert: A reliable cooling centre, with a comprehensive range of monitoring and control functions offered by the Expert control unit plus long-term data storage for quality management. Includes automatic cooling start for use with milking robots.
- Premium version, Expert XG+: The specialist with additional monitoring and control functions keeps an eye on everything so that you can concentrate on the important aspects of your milk production.

## The energy savings takes care of your economic future

The low energy consumption is impressive. Both the environment and your wallet will thank you!



Innovative design, optimised performance: STI and STIL evaporators offer the fastest path to cool milk with reduced energy consumption.



Designed to save energy: Scroll compressors and condenser fans are perfectly engineered to deliver ample cooling capacity.

Clever savings: Remove the heat energy from the milk in order to use it again.





# An overview of our powerful equipment



Tank available in 3 value segments	Standard tank	Comfort tank	Premium tank
Copper lines	•	•	•
Water hoses	•	•	•
Chemical drum brackets	Option	•	•
Diverter for wash water	–	Option	•
2 dispensing pumps	•	•	•
Heating elements	Option	Option	•
Control with wash cabinet	Basic level	Expert level	Expert XG+
Stainless steel protection tank end	•	•	•
Cooling unit separate	•	•	•
Tank calibration	Indicative by manual Dipstick	Approved by manual Dipstick (Option Digital Dipstick)	Approved by Digital Dipstick (Option DP net Digital Dipstick)
Agitator	•	•	•
Vessel with 3.0 inch milk outlet flange	•	•	•

Tank control Agitation & Cooling	Basic level	Expert level	Expert XG+
Agitation	–	–	•
Cooling mode	•	•	•
Power supply	•	•	•
System	–	•	•
Temperature	–	•	•
Cooling time	–	–	•
20 day recording Cooling, cleaning, detergents	–	•	•
Check of cooling time	–	•	•
2nd cooling temperature	–	•	•
Cooling speed control	–	•	•
Milk level detection	•	•	•
Robot Mlone connection Milk intake or stop in case of milk collection or cleaning	–	•	•
Safety thermostat	–	•	•
Emergency cooling mode	•	•	•
Cooling units to run	2	3	3

Tank control cleaning function	Basic level	Expert level	Expert XG+
Expertise interface (Recording) To connect technicians service tool	•	•	•
20 day recording detergent Storage of dosing data	–	•	•
Detergent Check detergent dosing	•	•	•
20 day recording Storage of milk-, cleaning temperature data	–	•	•
Cleaning temperature Check if temperature is too low	•	•	•
Intervall washing control Check if proposed cleaning process was done	–	–	•
Verification cleaning process By measuring water intake	–	•	•
Stop cleaning control In case of urgency to secure cleaning performance	•	•	•
Cleaning start delay Adjustable automated cleaning time	•	•	•
Rapid cleaning process For shorter cleaning process	–	•	•
Heater Efficient heating of main wash water	•	•	•
2nd drain valve To separate cleaning water with milk residuals	–	•	•
Advanced cleaning With disinfection	–	•	•
Standard cleaning cycle For alkaline and acid procedure	•	•	•





# GEA Farm Technologies

## The right choice.



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