

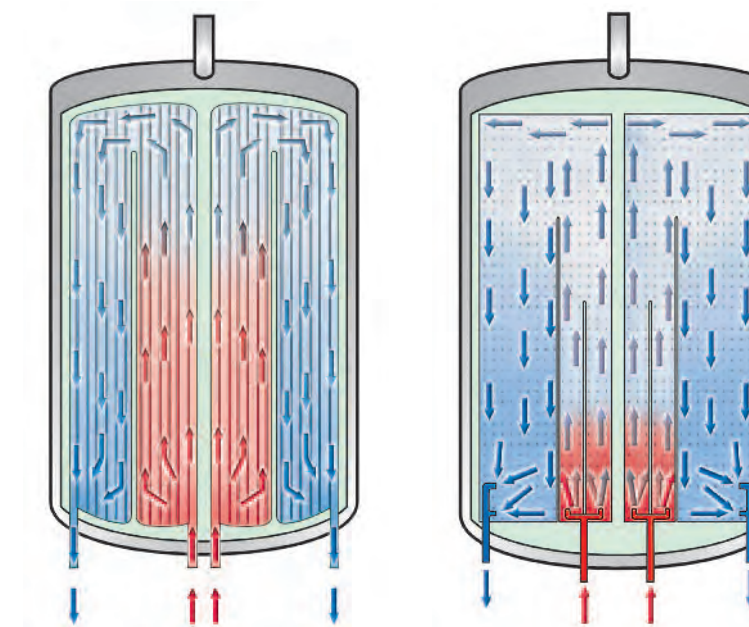


High performance inside:  
A control unit that incorporates water level metering, a powerful pump and dynamic water supply to guarantee perfect cleaning.

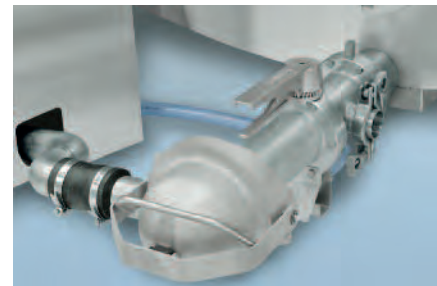
Turbo-charged rotating diffuser and a gentle agitator work together, safeguarding the good quality and the full taste of the milk. You will find all the details on the following pages as well at: [www.gea-farmtechnologies.com/L/TCEN.htm](http://www.gea-farmtechnologies.com/L/TCEN.htm)



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



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



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

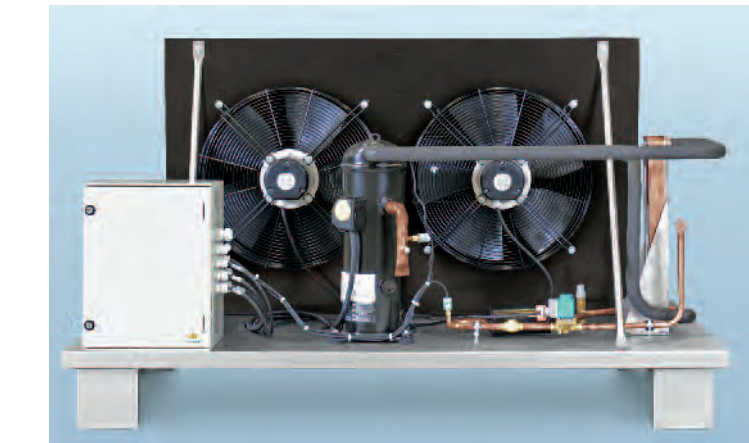
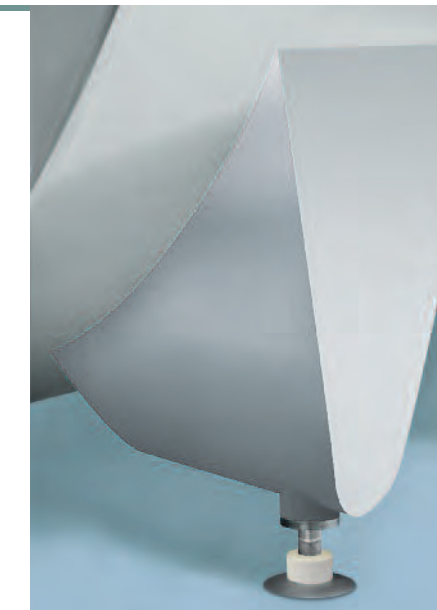


Accurate dosing down to the last millilitre: Dispensing pumps precisely and economically measure both acidic and alkaline cleaning agents. Optional use of a third dispensing pump for disinfection.



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

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.



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.



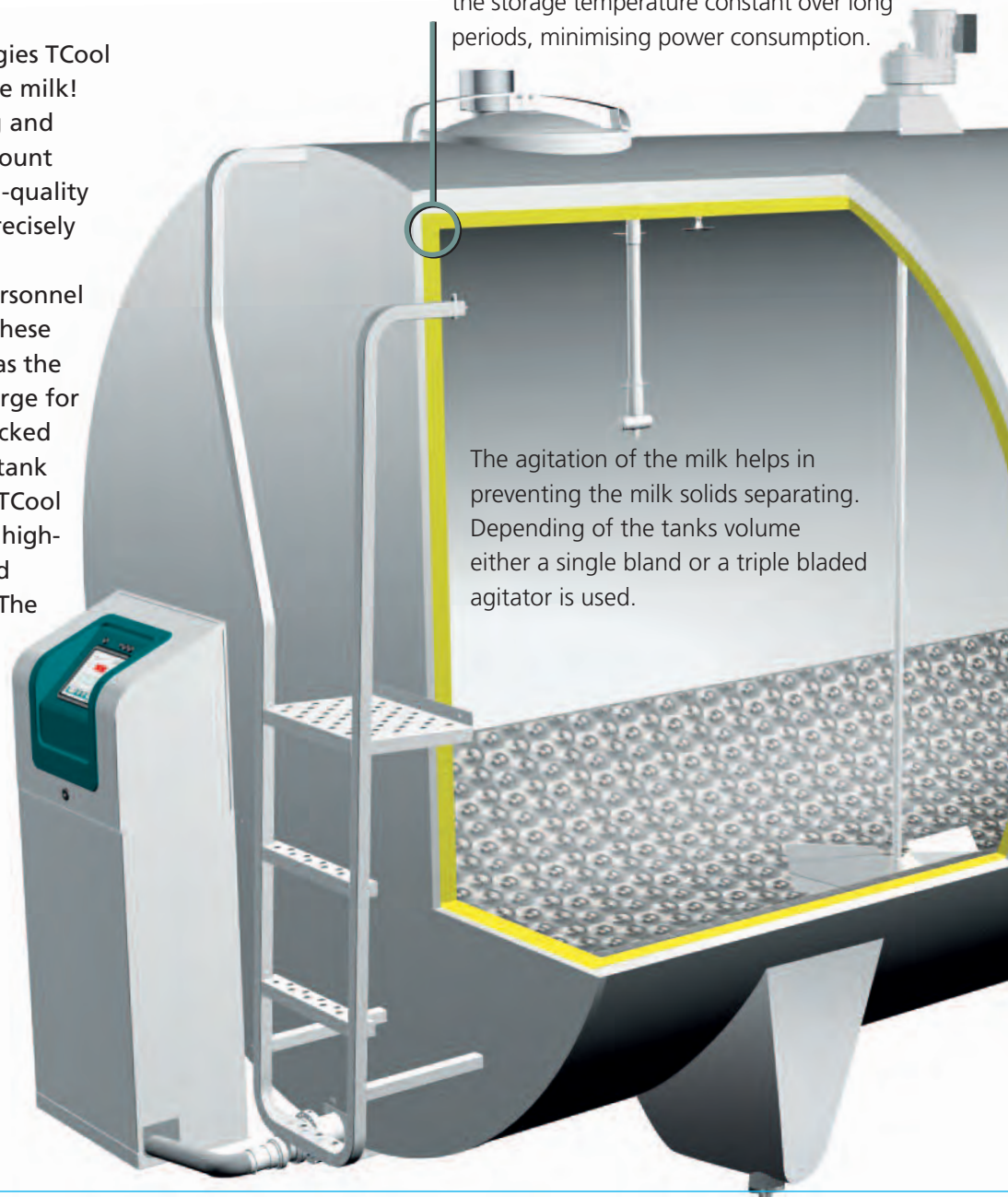
## Choose intelligent cooling ...

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.



The agitation of the milk helps in preventing the milk solids separating. Depending of the tanks volume either a single bland or a triple bladed agitator is used.

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



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



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.



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



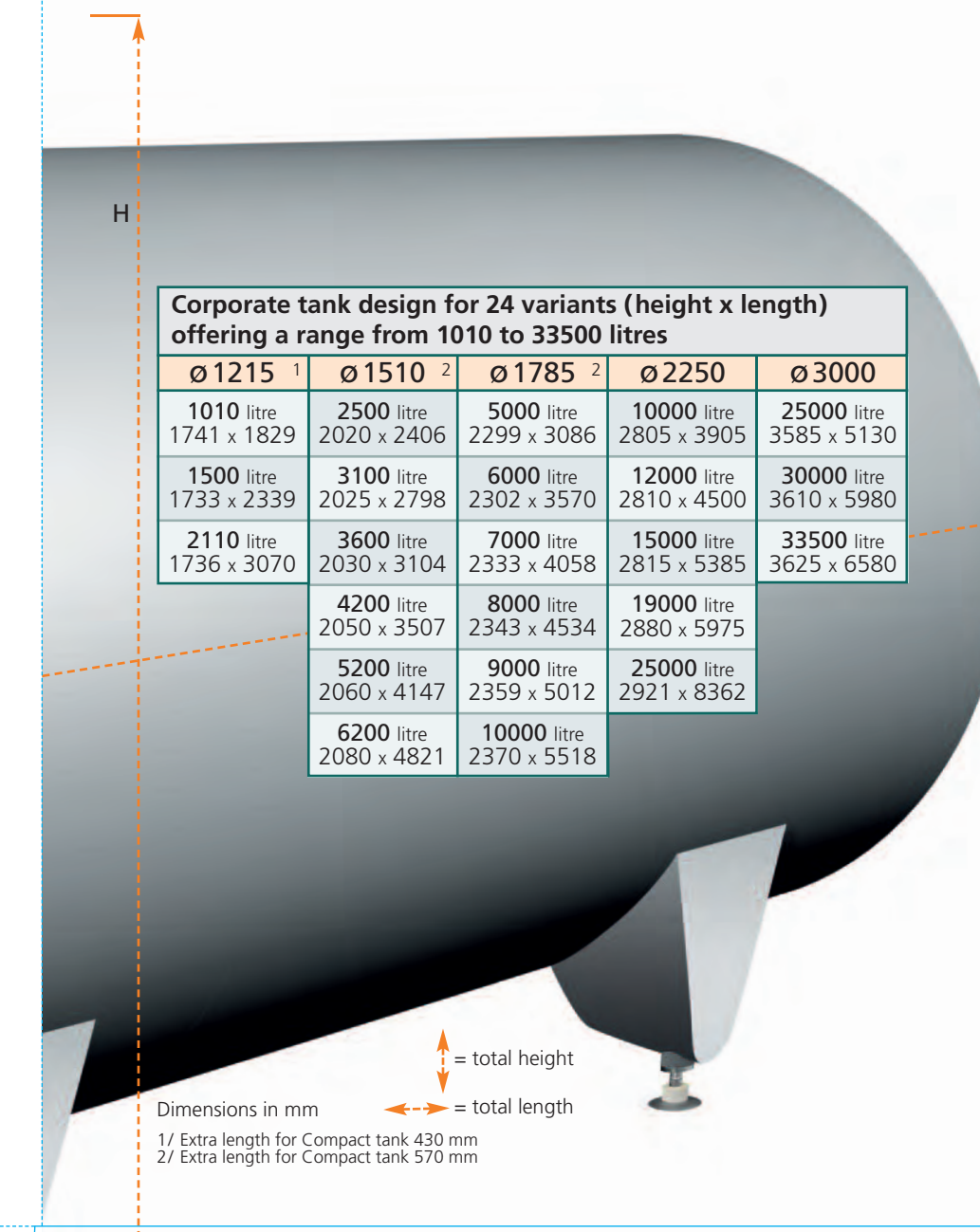
(Option) Software "Expertise" as smart Service tool for technicians

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



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



Corporate tank design for 24 variants (height x length) offering a range from 1010 to 33500 litres

Ø 1215 <sup>1</sup>	Ø 1510 <sup>2</sup>	Ø 1785 <sup>2</sup>	Ø 2250	Ø 3000
1010 litre 1741 x 1829	2500 litre 2020 x 2406	5000 litre 2299 x 3086	10000 litre 2805 x 3905	25000 litre 3585 x 5130
1500 litre 1733 x 2339	3100 litre 2025 x 2798	6000 litre 2302 x 3570	12000 litre 2810 x 4500	30000 litre 3610 x 5980
2110 litre 1736 x 3070	3600 litre 2030 x 3104	7000 litre 2333 x 4058	15000 litre 2815 x 5385	33500 litre 3625 x 6580
	4200 litre 2050 x 3507	8000 litre 2343 x 4534	19000 litre 2880 x 5975	
	5200 litre 2060 x 4147	9000 litre 2359 x 5012	25000 litre 2921 x 8362	
	6200 litre 2080 x 4821	10000 litre 2370 x 5518		

Dimensions in mm  
 ↑ = total height  
 ← = total length  
 1/ Extra length for Compact tank 430 mm  
 2/ Extra length for Compact tank 570 mm

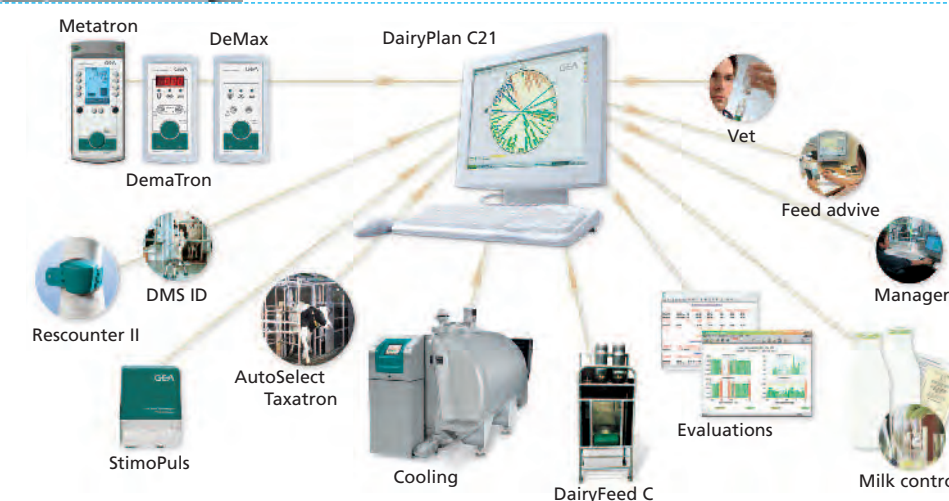
The many available sizes and extensive features of the TCool tank can be combined to create three customised packages to satisfy any milk cooling requirement:

- 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.

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(Option) Integration in DairyManagementSystem 21

- Monitoring of current operation mode
- Access to data storage







The energy savings takes care of your economic future  
The low energy consumption is impressive. Both the environment and your wallet will thank you!



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



A brilliant basis for highest quality milk  
Powerful cleaning technology keeps the interior free from residues, protecting perfect hygiene.

## 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	•	•	•

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### We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 index.



### TCool – The Milk tank series

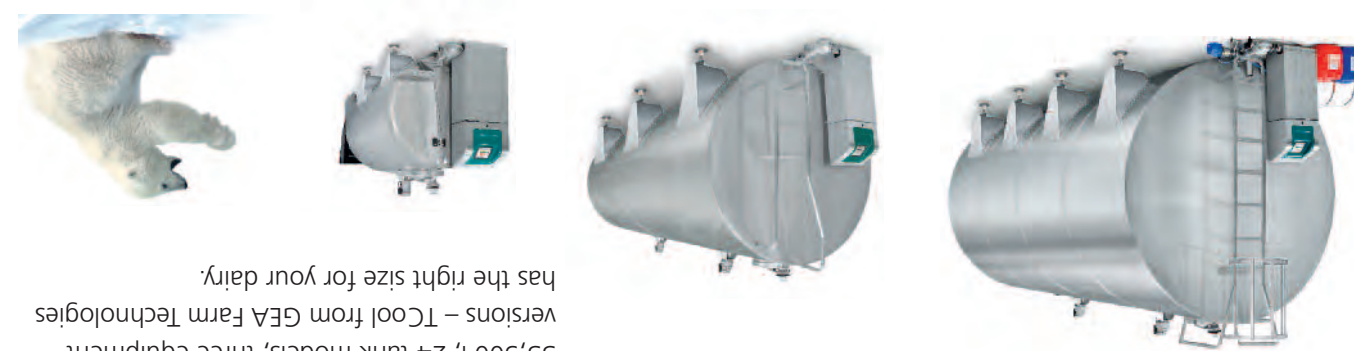
A gentle climate for the milk  
An ice-age for energy costs

GEA Milking & Cooling | WestfaliaSurge

engineering for a better world

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The perfect candidates: Sizes from 1,010 l to 33,500 l, 24 tank models, three equipment versions – TCool from GEA Farm Technologies has the right size for your dairy.

9997-1554-010 / PSC-30010106 / 9502020199 / S+L.d&d / D-Stu / 11.12 - We reserve the right to modify the construction and design in all cases!