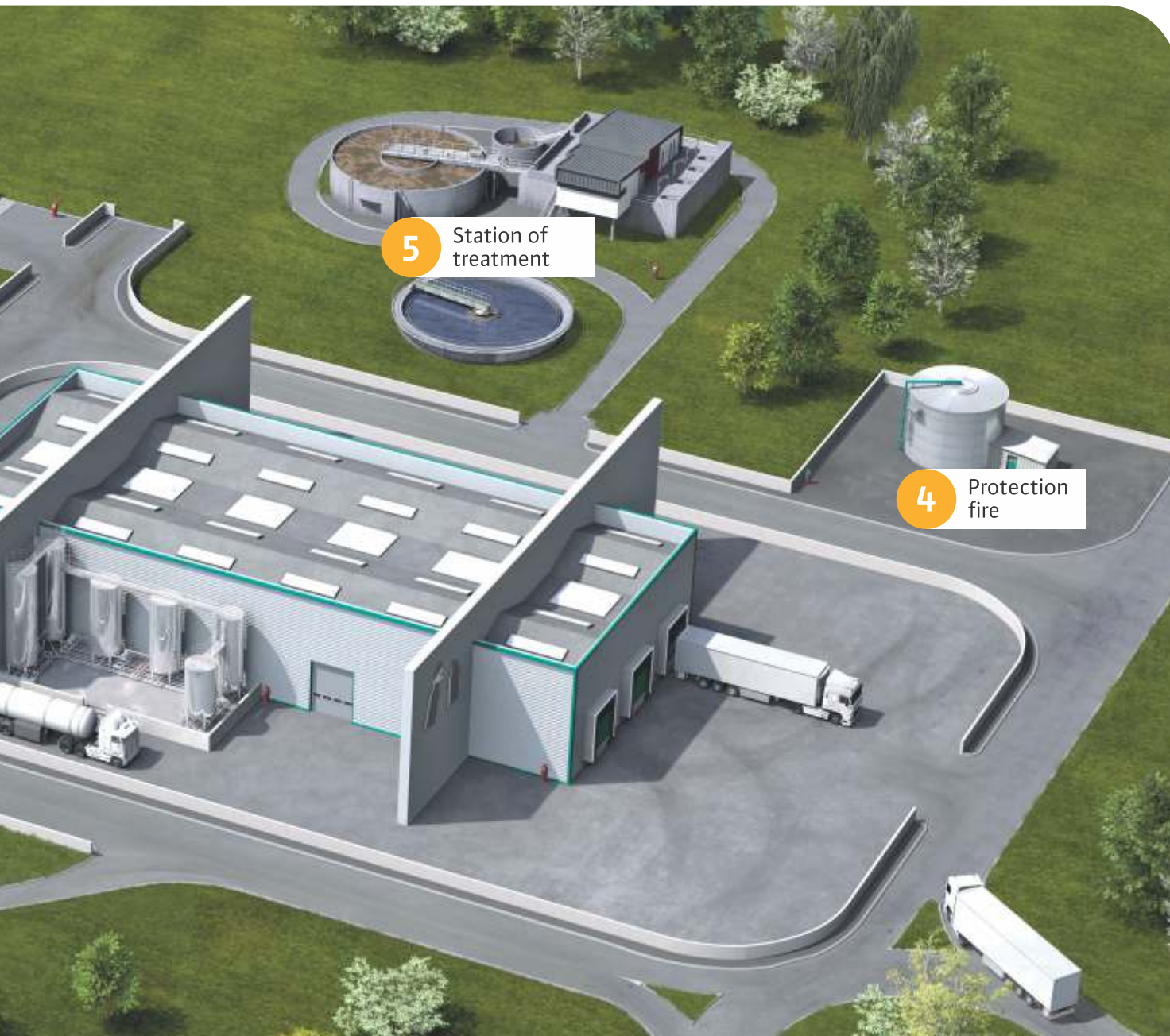


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The manufacture of dairy products requires a perfect process control in terms of temperature, hygiene and constraints in order to fully preserve the qualities of milk. Our pumps allow you to master the environment of your process, optimized thanks to speed regulation and high yields. Wilo accompanies you for heat transfer, over pressure, effluent treatment, fire, etc.

Pioneering for You

Pioneering for You

wilo

Brochure Application

Dairy Product Manufacturing

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Tech. matter subject to change without prior notice

Speed variation

Performance optimization Wilo offers a whole range of pumps with onboard speed variation for all applications encountered in the industry. This combined with a high efficiency hydraulics and IE3 motors, save money, significant energy and optimal control.

The new IE4 ranges

Equipped with motors with an index of higher energy performance than IE4 (according to the IEC TS60034–31 Ed.1), the new ranges Helix EXCEL and Stratos GIGA outperform current requirements

Advantages of speed variation

Saving energy: regulation of pump speed as per the requirement helps towards lower the energy bill

Control of your process: the variation of speed makes it possible to master optimally the settings of your application with the following possibilities:

- Ensure constant pressure whatever is the flow demand
- Order the flow according to a temperature (maintains the temperature of the vats storage)
- Optimize the operations of several pumps with cascade start (process water supply)

Wilo–Stratos GIGA



1. Water catchment

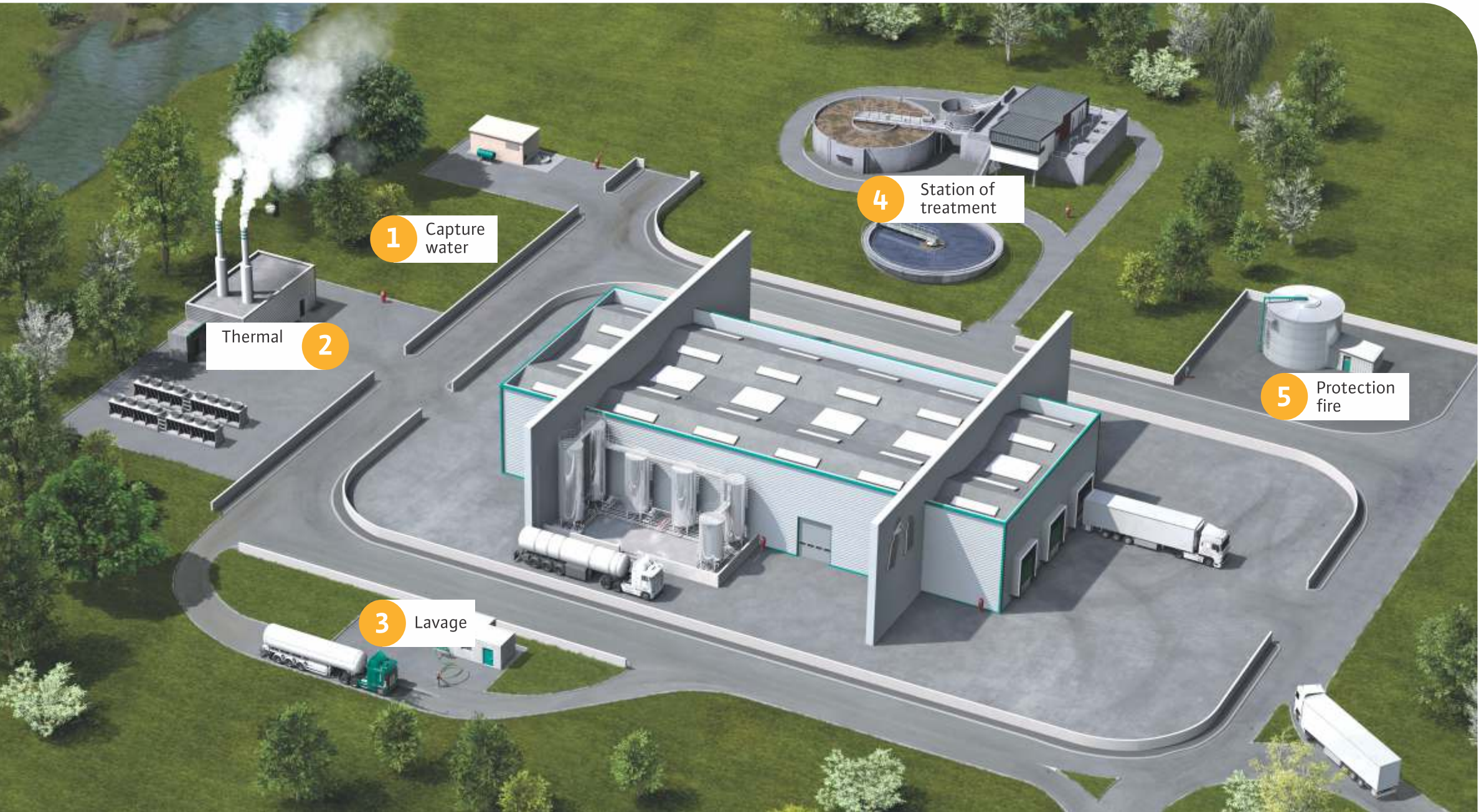
All or part of the water used by the site is captured in the natural environment, to be integrated in the ingredients (osmosis water), either for washing / cleaning.

This capture can be done from river, lakes etc with the help of surface pumps or in a water table by using submersible borehole pumps.



Wilo–CronoNorm–NL Single cell pump standardized EN 733

- ACS version optional.
- "Process" system for a easy disassembly of the trim mechanical (option spacer).



Wilo–SCP Pump with gasket

- Easy access to rotating parts.
- Compatible with the speed variation landed.
- Very low NPSH for better suction capacity.



Wilo–Sub TWI Stainless steel submersible pump

- Corrosion-resistant and low-wearing
- Easy disassembly for easy maintenance.
- Possible installation in horizontal and vertical.
- High hydraulic efficiency

2. Thermal

Production and circulation of ice water are essential to maintain the temperature of storage tanks.

Steam or hot water circulates in the process of sterilization, pasteurization of milk or simply heating.

These pumps are running continuously and the top yield saves energy significantly. The pumps must operate at 4 ° C for storage up to 72 ° C for pasteurization and 150 ° C for sterilization *.



Wilo–NESD Standard centrifugal pump self-cooled ISO 2858

- Up to 207 ° C.
- Self-cooled pump to avoid the use of cooling fluids.
- High hydraulic performance.



Wilo–Stratos GIGA High efficiency online pump

- Exceeding energy efficiency IE4 (according to IEC TS60034–31 Ed.1).
- Also high-efficiency EC motor with efficiency class IE5 according to IEC 60034–30–2
- Optimization of the point of operation with variation of speed.
- Temperature range from –20 ° C to + 140 ° C

3. Lavage

The inside of the pipes is cleaned by NEP, unlike locals and outside equipment that is cleaned using washing lances. The maximum cleanliness and hygiene are de rigueur in a dairy.

Maintaining a constant pressure is essential to obtain an optimal wash.



Wilo–Helix V Multistage Pump

- Available with synchronous motor
- Greater than IE4.
- Stainless steel 304 or 316L.
- Up to 25 bar.
- Cartridge filling for ease of maintenance.



Wilo–Siboost Smart Helix Excel High Pressure Multistage

- Available with synchronous motor
- higher than IE4 (according to the IEC TS60034–31 Ed.1).
- Easy handling with the lifting rings.
- Stainless steel collectors with flared edges without dead zones.

4. Treatment plant

Effluents from the dairy (washing, emptying of vats, CIP cycles ...) are treated or pretreated at the treatment plant before being returned to the natural environment or sanitation network.

The effluents collected require pumps resistant to the aggressiveness of different products used for cleaning.



Wilo–Rexa PRO Submersible pump

- Submersible sewage pump as submersible monoblock unit for stationary and portable wet well installation, as well as stationary dry well installation.
- Cast iron and casing stainless steel or cast iron motor.
- 60 ° C maximum.



Wilo–Mixer

- Ceram® coating.
- High efficiency.
- Available with IE3 motors.
- Complete range of agitators with diameters from 280 mm to 2600 mm.

5. Fire protection

The protection of people and property is mandatory for the company.

Fire protection is a profession in its own right.

The design of the pumps must avoid any risk of seizure, guaranteeing immediate availability.



Wilo–UL FM Fire boosterdedicated to RIA installations

- Available with synchronous motor
- higher than IE4 (according to the IEC TS60034–31 Ed.1).
- Easy handling with the lifting rings.
- Stainless steel collectors with flared edges without dead zones.



Wilo–SiFire EN Fire booster EN12845 compliance

- Modular set compact for Sprinkler installations.
- Pump jockey provided in standard to maintain pressure.



Wilo Solutions for UL Listed, FM Approved Fire Pumps

- Shut off head will range to a maximum of 140% of rated head.
- The pump must be able to work at 150% of the rated flow.
- Pump shall furnish not less then 150% of rated capacity at not less than 65% of total rated head.
- Motor power must be in compliance with the working conditions that contains 150% of the rated flow.



Wilo UL Listed Diesel Fire Pump Controller

- The diesel fire pump controller is a comprehensive, multi-function microprocessor based fire pump controller.
- Designed to meet the needs of markets worldwide, the diesel fire pump controller is certified by the following authorities: Underwriters Laboratories (UL)