

KRONES LinaTherm

The warmer in Clean Design

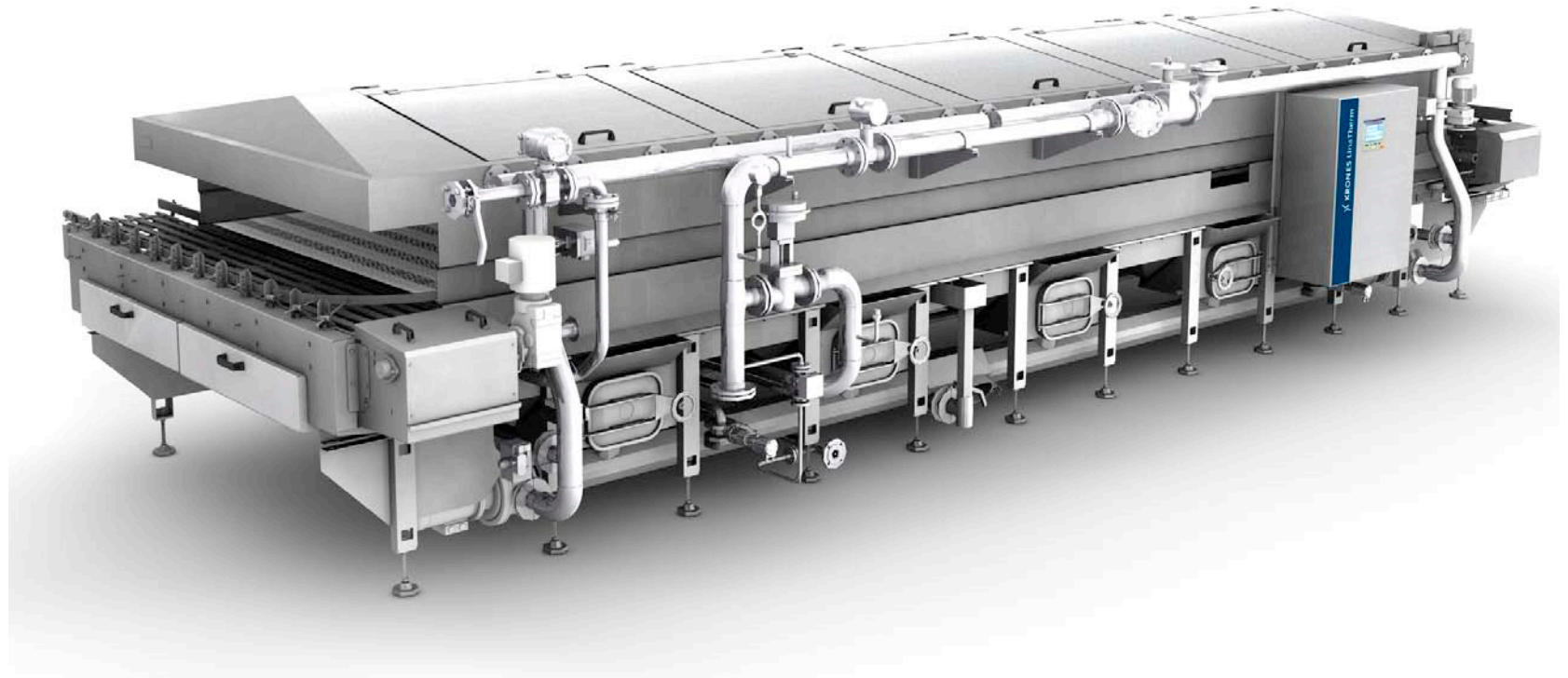


 **KRONES**

Cold filling, safe packaging

KRONES LinaTherm

Cold-filled beverages are literally too cool for their packaging. As soon as the containers leave the filler, condensation collects on them. The result: soaked cartons and damage in transit. This can be prevented with the LinaTherm warmer. It is employed right after the filler and it gently adapts the containers' temperature to the ambient temperature. Hence, there are no obstacles to perfect labelling and packaging!



Method of operation

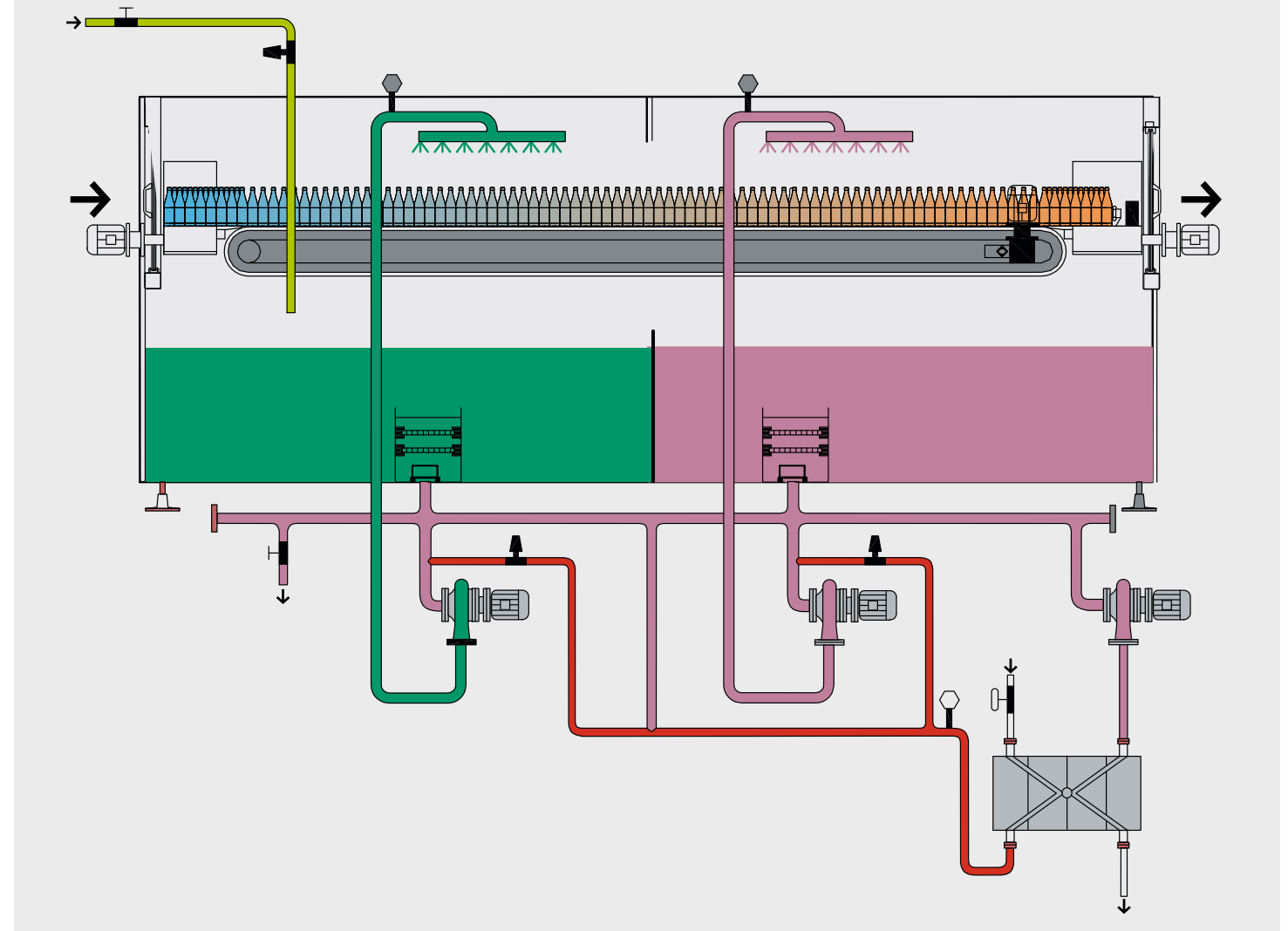
Depending on the size, the containers will pass through one or several treatment zones. Spraying nozzles shower the bottles with precisely tempered water. Thus, the containers are gently heated to the ambient temperature and generation of condensation water is prevented.

Application

Heating of all products in glass bottles, PET containers, and cans

Output

10,000 to 90,000 containers per hour



Design features

- One-piece, compact machine housing
- Housing and pumps in stainless steel
- Clean Design with central draining, flat sidewalls and inclined drip pans
- Infeed and discharge height: 1,200 mm
- Frequency-controlled drives
- PLC-controlled
- Touch-screen
- CHESS heating concept (Central Heat Exchanger Supply System)
- Detachable system for pumps and spraying nozzle protection
- Level switch for automatic refilling of fresh water



Additional equipment

- Rotary Sweeper for automatic pushing of containers which have been left behind
- Interior cleaning system
- Blowing station for removal of drip water
- Dosing system for water treatment
- Measuring system for energy and water consumption
- Lighting at infeed and discharge
- Condensate siphon pump

Operation

- Touch-screen operation
- Automatic filling
- Change-over to another product within minutes

Maintenance

- Maintenance without tools
- Large cleaning and service openings at the infeed and discharge conveyor, as well as at each treatment zone
- All pumps and fittings are accessible directly from the floor.



Spraying nozzle system

- Snap-in spraying nozzle
- Free access for service purposes
- Spraying pipes must not be disassembled for cleaning
- Flap cover on both sides of the machine



Marathon Belt

- Patent-pending conveyor of plastic links and stainless steel links
- Suitable for all container types
- Long service life and low-maintenance due to minimum friction
- Short transfer section for gentle product change-over
- Deflection via welded sections

Infeed and discharge area

- Low height, each 1,200 mm
- Ideal connection with the filler

Your benefits

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- **Hygiene and safety**

The Clean Design with plane side-walls, inclined drip pans, and central draining provides ideal, hygienic conditions and guarantees that no water remains in the machine.

- **Minimum, easy maintenance**

All components are in operating height and are easily accessible. Maintenance jobs can be done easily and without any tools.

- **Quick installation**

All LinaTherm components are completely pre-assembled and tested already at the KRONES plant. The subsequent installation is done at the site via plug and play. This way, you can use your warmer fully within very short time!

- **High-quality processing**

Housings and pumps are manufactured entirely of stainless steel and bated surfaces. This reduces the risk of corrosion and provides the warmer with a long service life.



*Optimal operator
accessibility*