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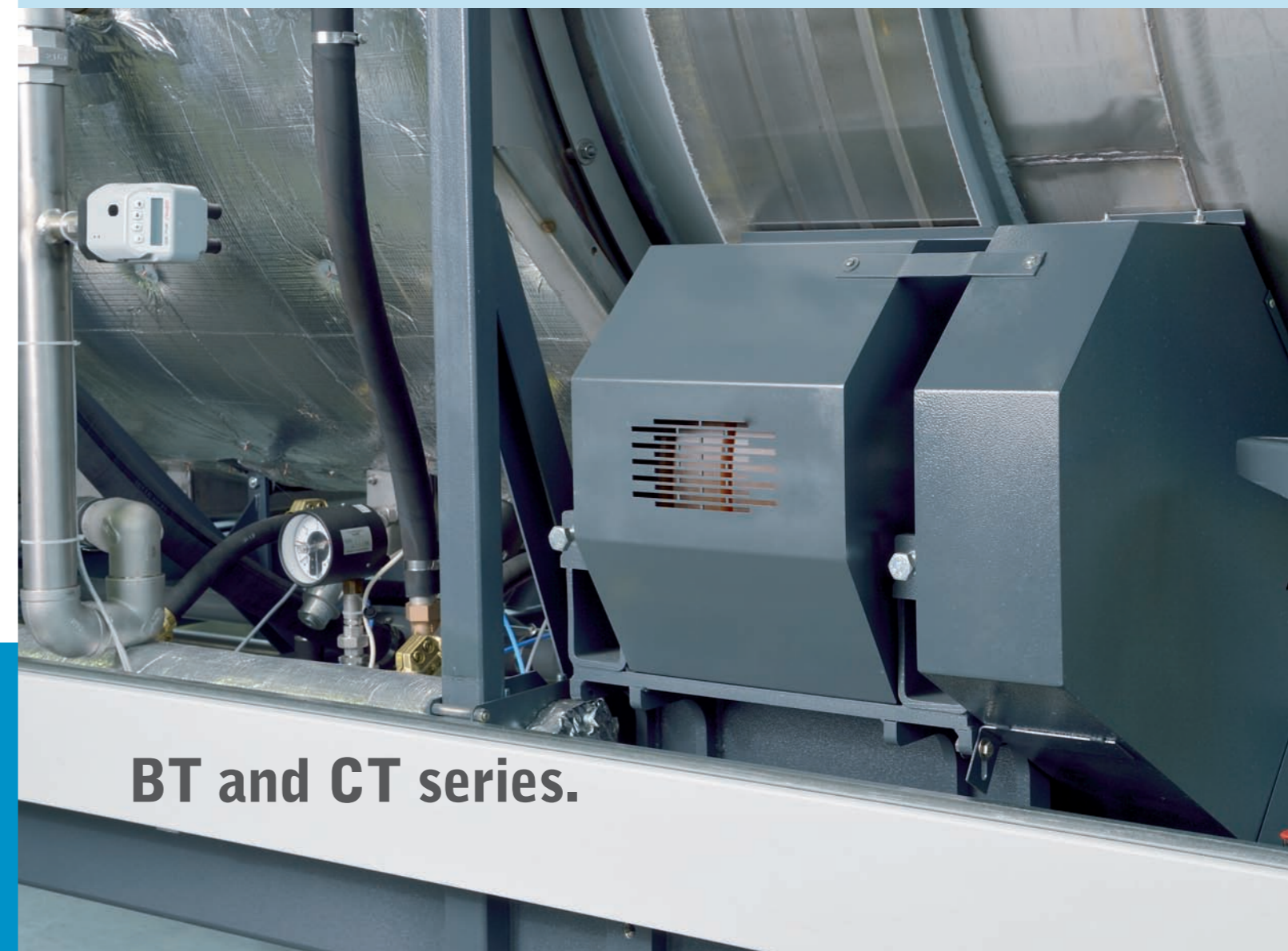
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LAVATEC

Laundry Technology GmbH

Laundry line



BT and CT series.

**Lavatec Laundry Systems
Made in Germany**

A list of our international distributors is available on www.lavatec-laundry.com

Lavatec laundry line. BT and CT series.



"Make your laundry processes simple, reproducible and sustainable:
With modular laundry lines in demand-oriented configuration."

Wolf-Peter Graeser, CEO of Lavatec Laundry Technology GmbH



Bottom-Transfer (BT) series

Classic BT	25 to 100 kg	8 to 20 chambers
Ecoclean BT	25 to 100 kg	8 to 20 chambers
Bioclean BT	25 to 100 kg	8 to 20 chambers
Classic Virtual BT	25 to 100 kg	4 to 7 chambers (short laundry line)
Ecoclean G-Pro BT	25 to 100 kg	8 to 20 chambers

Center-Transfer (CT) series

Classic CT	35 to 60 kg	8 to 20 chambers
Ecoclean CT	35 to 60 kg	8 to 20 chambers
Classic Virtual CT	35 to 60 kg	4 to 7 chambers (short laundry line)
Ecoclean G-Pro CT	35 to 60 kg	8 to 20 chambers

Your Benefits:

Maintain control of the quality of your laundry – in the catering industry, health care, restaurant and industrial areas alike. Detailed analysis will determine your individual needs regarding capacity, hygiene, flexibility of processes for the different laundry types and contamination and the technology used.

Highlights:

- Short laundry line for small to medium-sized capacities
- Large facilities with up to 20 chambers à 100 kg
- Intuitive programme operation
- High reproducible quality of laundry results
- Individually configurable versions and options
- Innovative technology for best use of resources
- Redundancy of components to ensure high availability

Focus on economic and ecological sustainability.

The final result must be just right: the laundry must be clean or even clinically hygienic, no matter the challenges posed to your laundry process. Every time, every single piece. At the same time, the laundry process should be as gentle as possible, as intense as necessary.

The overall costs for this task should be as low as possible. Process optimisation for reproducible laundry results with the lowest possible costs is determined by technology.

The most important parameters:

- 360°-rotation (for CT-series) or variable oscillation of the drums depending on the laundry process
- The bath ratio of laundry:liquid controls the amount of water, chemicals and sewage
- Counterflow technology or standing bath influence water and energy consumption
- Capacity, combined with the number of chambers, affects system flexibility
- The robust and ergonomically optimised build lowers costs for maintenance work and increases availability

Convincing characteristics

More sustainable: Use of resource-protecting technologies and components is good for nature and improves cost efficiency by lowering consumption and disposal costs.

More work safety: Ergonomic features according to the latest insights facilitate operation and maintenance. Your employees can work more efficiently, more securely and under best environmental conditions.

More flexibility: The versions and options can be combined in a practice-compliant manner to meet any laundry task. The laundry line is the core piece of the overall turn-key system Lavatec delivers to prepare you for new challenges.

More production time: The proven technology, Lavatec know-how and redundancy of important assemblies (e.g. motors, sensors and programme) ensure extraordinary availability of the overall system. Maintenance is quick, safe and simple. Around the world, we can deliver spare parts and service very quickly.

More quality: With nearly 100 different programmes, you are able to wash any textile type gently, efficiently and with a reproducible result. You can adjust every single programme to your needs easily on your own.

More customisation: The sophisticated construction kit system permits customised configuration of your laundry line. Your service concept profits from the cost benefits of modularity and innovative technologies that reduce operating costs.

Lavatec laundry line. BT and CT series.



Functional textiles, textile leasing and small batches: 3 challenges

1. Improving state-of-the-art textiles with additional properties is an increasing trend. For laundry, this requires continuous adjustment to the different textiles. In particular chemical equipment, coating and laminates may be sensitive to detergents and mechanical strain. Washing programmes adjusted to the textiles are required to avoid customer complaints. Finishing agents may be necessary to maintain or renew the textile's properties during the washing process.

The solution:

Once the laundry parameters are determined, the operator defines the specific programme easily via a touch screen. This ensures that the washing process is reproducible.

2. The ratio of flat laundry to clothes changes to the benefit of clothes since Corporate Fashion is becoming more important. Instead of the „laundry“ service, full-service offers of textile leasing are common now. Specialisation in one industry – catering, health care, restaurant, industry – is the way to go.

The solution:

Lavatec offers a suitable solution for any application area. Every machine that leaves our company is a product customised for the respective requirements. The modular concept of chambers, bottom or centre transfer, as well as the option of using the established double-chamber technology in all chambers offer best adaptability and laundry technology.

3. With the increasing number of different textiles, the volume per textile type is dropping, leading to smaller batch sizes than just a few years ago. This poses a challenge to technology, capacities and internal operations logistics

The solution:

Bundling the batches into laundry classes that are washed together on the same laundry line. The control system recognises the load in every single chamber, adjusting the water and chemicals added accordingly. This leads to optimised washing output at the lowest possible consumption.

Hygiene is vital.

There is good reason for the diversity of standards, requirements, norms and customer specifications that must be observed. In particular in case of body contact with the laundry, in the foodstuffs industry and in health care, hygiene is perfectly vital. In contrast to external inspections and tests that only permit a momentary situation's analysis, secure processes warrant perfect hygiene at all times.

Precise analysis of demand determines the specific requirements regarding hygiene and disinfection. Process parameters in wet laundry are temperature, retention time, use of chemicals.

Lavatec has developed different laundry lines that correspond to the respective requirements perfectly. All laundry lines have the same control system to ensure that the laundry will go through the disinfection time without once losing the target temperature. Only then will the laundry leave the washing zone.

Another factor is the simple and process-safe disinfection of the laundry line as such. All relevant assemblies, drums, containers and pipe lines directly discharge liquids, which prevents deposits from forming. Special rinsing and disinfection programmes make maintenance automatic.

Hygiene in the catering business and in health care:

Low to medium requirements

- Ecoclean BT
- Ecoclean CT

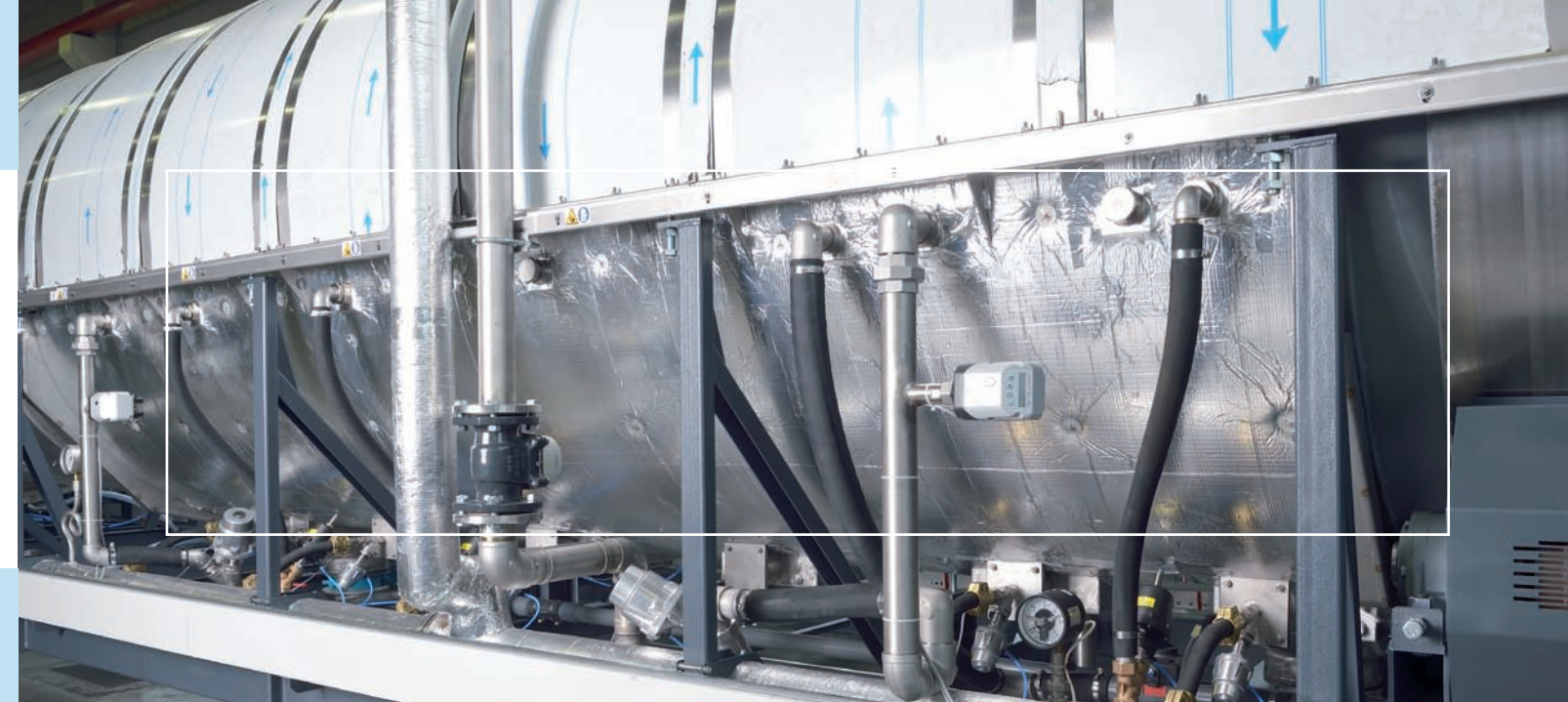
Medium to high requirements

- Classic BT
- Classic CT

High to highest requirements

- Bioclean BT
- Classic Virtual Tunnel BT (short laundry line)
- Classic Virtual Tunnel CT (short laundry line)

Lavatec laundry line. BT and CT series.



		Primary Application	Water consumption 2–8 ltr / kg	Disinfection of linen guaranteed (3)	Warranted disinfection of laundry	Double drums	May wash very different laundry types	May wash very different laundry types	Bath ratios	Hygiene and health care applications	Adaptability to new laundry processes	Number of motors / operation at motor failure possible	Heating possible in all chambers	Load capacity	Number of modules
Classic BT		Catering business / health care – light to medium contamination – counterflow – lower water consumption	very low	✓	good	80–100 %	medium	low	1/36	good	✓	4 / yes (4)	✓	25–100 kg	6–20
Classic CT		Catering business / health care / restaurant – medium to strong contamination – counterflow	low	✓	very good	100 %	very good	good	1/51	good	✓	4 / yes	✓	35–60 kg	6–20
Ecoclean BT		Catering business / health care – light to strong contamination – different types of laundry without excessive water consumption – standing bath	very low	✓ (1)	good	30–60 %	very good	good	1/36	medium	low (2)	4 / yes (4)	–	25–100 kg	6–20
Ecoclean CT		Catering business / health care – medium to very strong contamination – different types of laundry without excessive water consumption – standing bath	very low	✓ (1)	very good	30–60 %	very good	good	1/51	medium	low (2)	4 / yes	–	35–60 kg	6–20
Bioclean BT		Catering business / health care – light to strong contamination matching colours	very low	✓	good	100 %	very good	good	1/36	very good	✓	4 / yes (4)	✓	25–100 kg	6–20
Classic Virtual tunnel BT (mini laundry line)		Catering business / health care / Restaurant medium contamination Practically doubles the number of chambers	low (7)	✓	good	100 %	good	very good	1/36	very good	✓	4 / yes (4)	✓	25–100 kg	4–7
Classic Virtual tunnel CT (mini laundry line)		Catering business / health care / Restaurant strong contamination Practically doubles the number of chambers	low (7)	✓	very good	100 %	very good	very good	1/51	very good	✓	4 / yes (4)	✓	35–60 kg	4–7
Ecoclean G-PRO BT		Industry / foodstuffs industry / coloured clothes, standing bath, no water mixing, 4x recovery tanks	low (6)	✓	good	40–70 %	very to very good	very to very good	1/36	–	low (2)	4 / yes	–	25–100 kg	6–20
Ecoclean G-PRO CT		Industry / foodstuffs industry / coloured clothes, standing bath, no water mixing, 4x recovery tanks	low (6)	✓	very good	40–70 %	very to very good	very to very good	1/51	–	low (2)	4 / yes	–	35–60 kg	6–20

All CT machines can turn their drums by 360° when washing as well to increase the mechanical laundry result.

With additional options, some of these laundry lines can be used for other purposes than those indicated here. The laundry line is equipped with a level control and/or flow-rate controlled water volume to ensure good transfer. The laundry line always verifies that the laundry load has reached the first module.

(1): Except during extended shut-down of the laundry line – it is not possible to heat the washing zone.

(2): The single-drum chambers cannot be changed.

(3): Control warrants correct disinfection time and temperature. The laundry cannot leave the laundry zone before the disinfection time has elapsed completely without the temperature dropping below the setpoint.

(4): For more than 5 modules.

(5): Low power consumption for this laundry class, combined in the same laundry line (clothes industry, foodstuffs processing, ...).

(6): Depends on the number of batch changes per laundry mix.