



PET-Asept D

Compact and completely dry for all aseptic products



The dry zero-risk solution



PET-Asept D takes the consistent road from the very beginning. The system relies one hundred percent on a dry sterilising medium and germs are not given a chance.

At a glance

- Filling of aseptic products
- Suitable for all bottle shapes
- Bottle sterilisation by means of hydrogen peroxide (H₂O₂)
- Output range from 12,000 to 36,000 bottles per hour*
- Particle filling of up to 10 x 10 x 10 millimetres possible
- Also available as PET-AseptBloc D with blow moulder



Solutions for various outputs



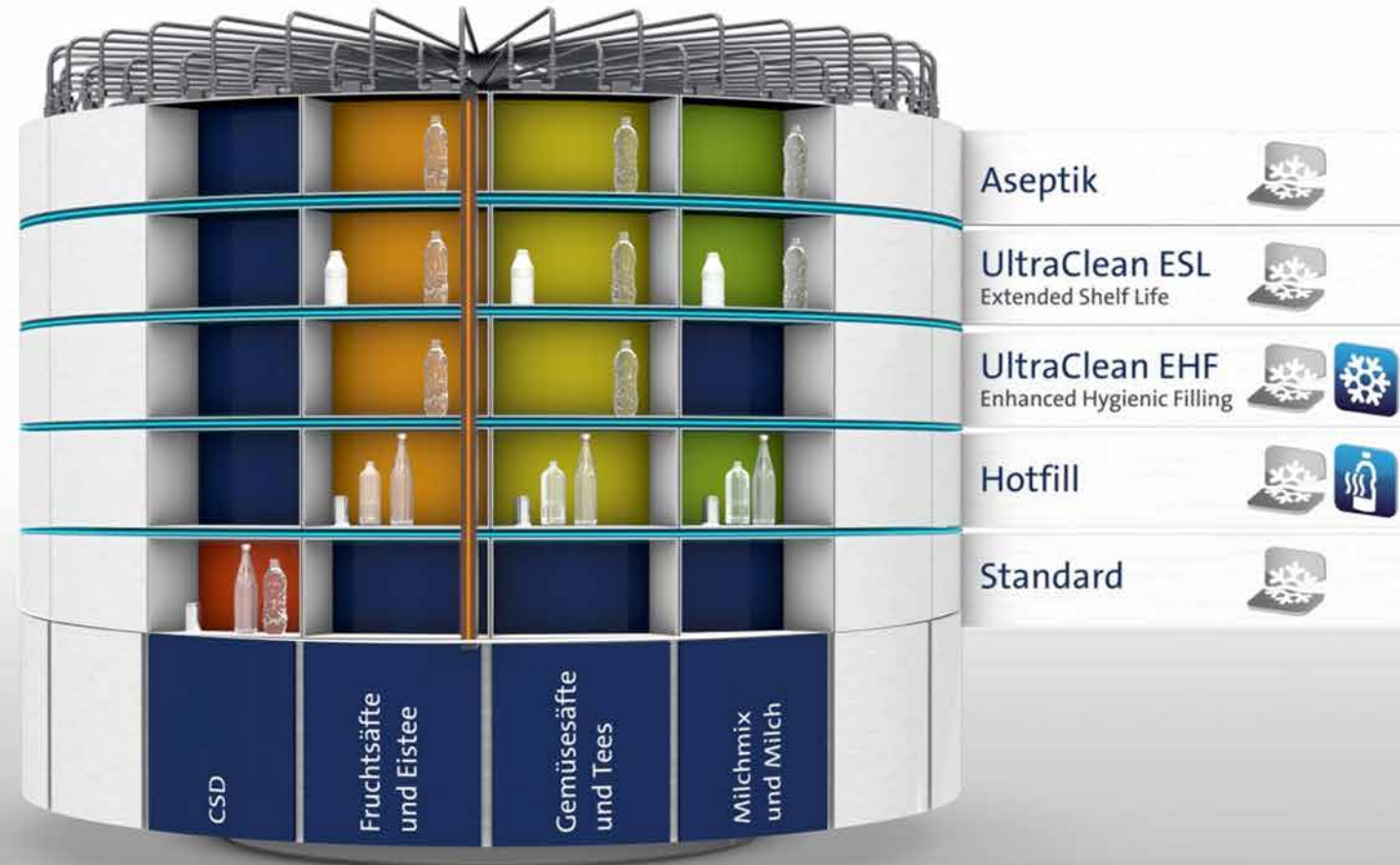
12,000 bottles per hour*



36,000 bottles per hour*

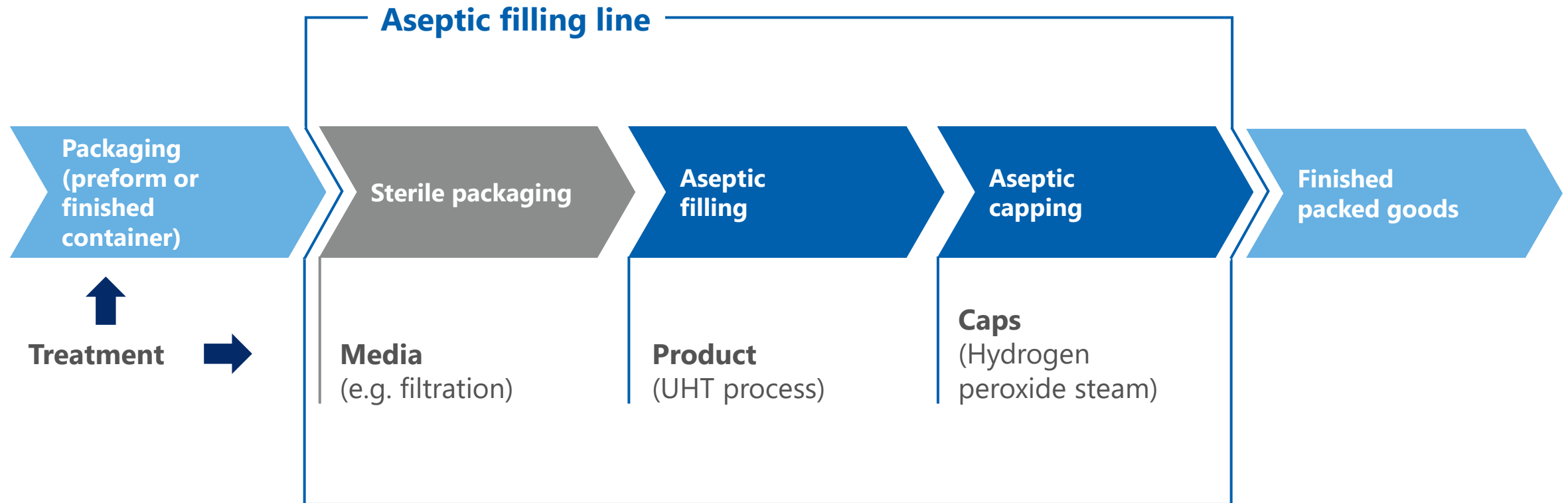
D = Dry | * Basis: 500 ml bottle

Microbiological sensitivity of beverages



The key components

Container steriliser

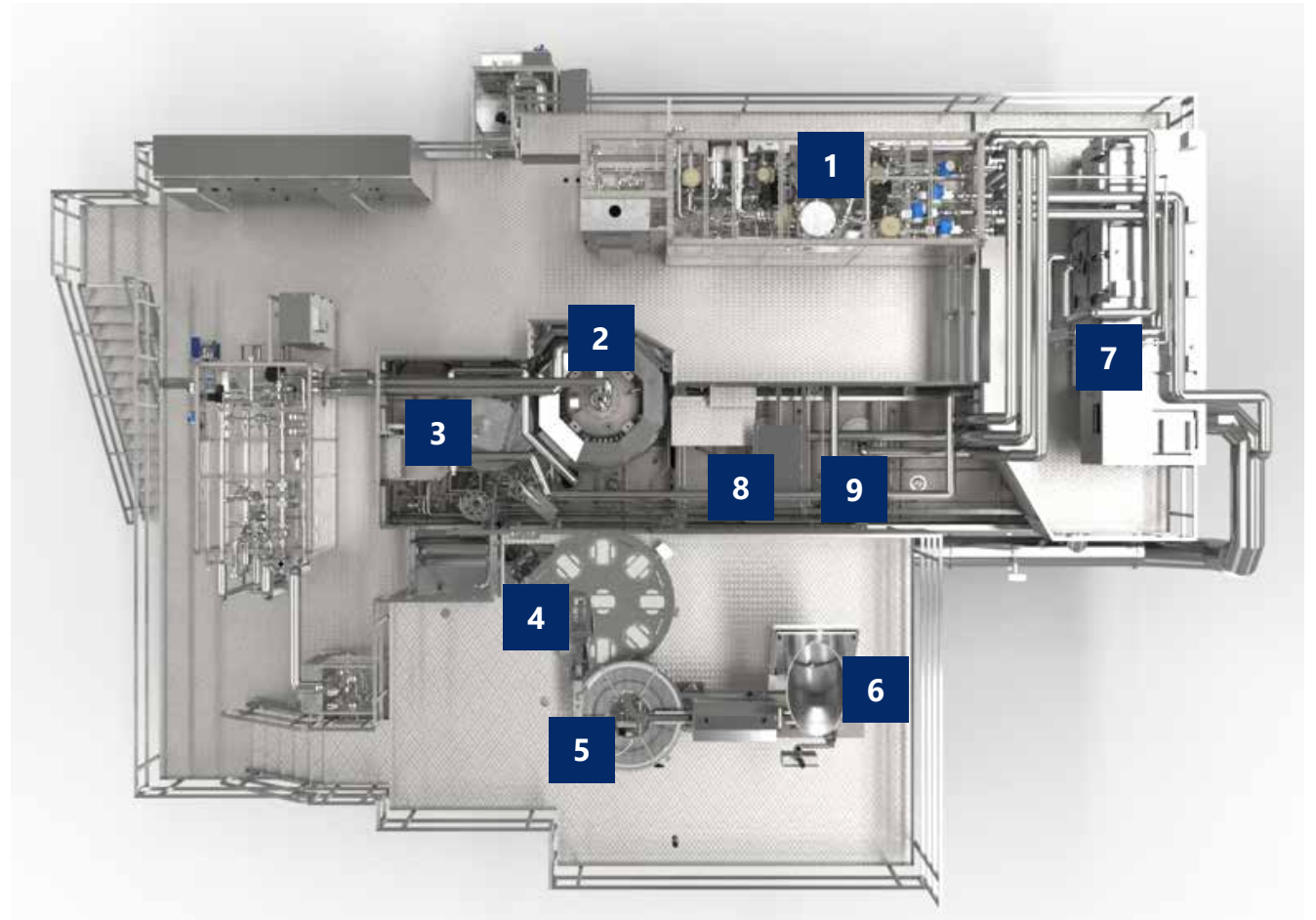


Variant

PET-Asept D without blow moulder



- 1 Valve manifold
- 2 Aseptic filler
- 3 Aseptic capper
- 4 Cap sterilisation
- 5 Cap buffer system
- 6 Cap sorting
- 7 Air handling unit
- 8 Blowing out with sterile air warm/cold
- 9 Container decontamination



The process

Cleaning and sterilisation of the system



- Cleaning cycle: "Last bottle – first bottle" in 150 minutes
- Maximum production time without intermediate cleaning: 1 week
- After handling parts and mould change-over, only 60 minutes intermediate cleaning required
- Also available with MouldXpress robot and automatic handling parts adjustment* in filler for fully automatic handling parts change-over without intermediate cleaning



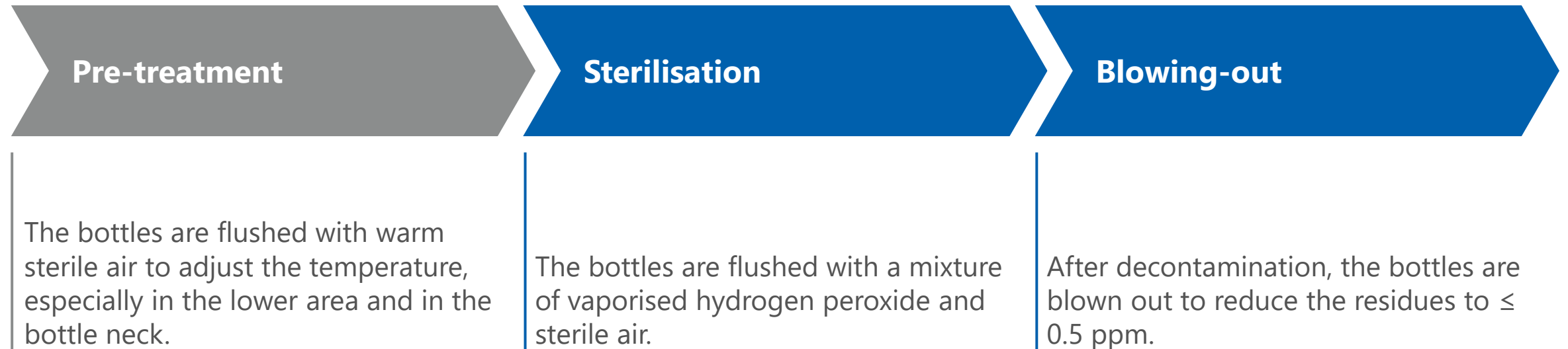
Parallel processes for fast cleaning

The system is ready for operation after a mere 150 minutes!

* up to a defined output

The key components

Container steriliser



Warm gas for warm bottles implies: no condensation!
Faster and more efficient sterilisation process

The key components

Aseptic filler



Method of operation

- The appropriate filling valve for the most wide range of products – still and carbonated
- It is also suitable for beverages with (fruit) pieces of a size of up to 10 x 10 x 10 millimetres

Cleaning and change-over

- The filler has its own CIP module – thus no separate CIP system is required.
- The filling valves are sterilised with steam.
- The isolator room is sterilised with gaseous H_2O_2 – a fully dry method.
- Handling parts change-over is possible up to a defined output in an automatic way.



The key components

CapAsept D cap sterilisation module*



* D=Dry

Cap treatment system

- Cap blower using ionised air right in front of the unit
- Sterilisation by gaseous H_2O_2
- No back-up pressure acting on the caps – no deformation
- Clocked feed of the caps on demand: No bottle – no cap
 - Gentle on resources
 - Optimum treatment of the caps – no over-treatment

Flexibility

Flat caps and sports caps can be processed with the same handling parts.

Hygiene

Particles fall through the perforated plate and are flushed during the cleaning process.

The key components

Aseptic capper



Technical features

- Every capping head has its own separate servo drive.
- A transfer tunnel separates the sterile area from the outside area.
- The proper technique for every cap – overcaps with round bottle possible!

Cleaning and change-over

- The open design enables excellent cleaning of all capping heads.
- The handling parts adjustment system operates fully automatically up to a defined speed.



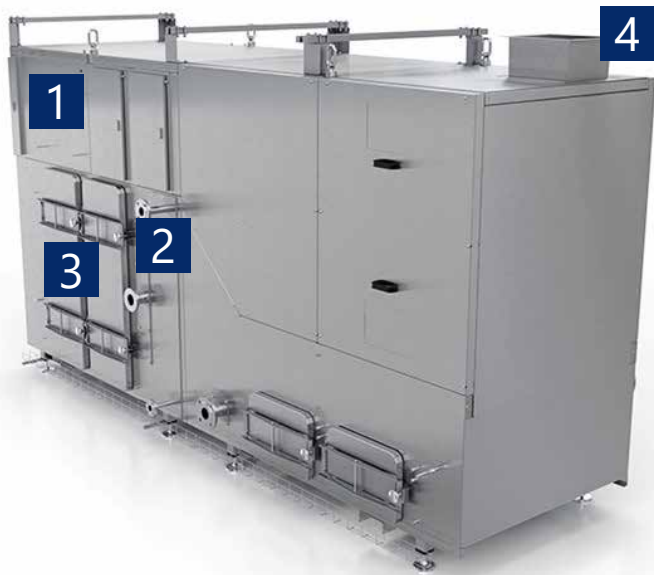
Hygiene

- The Krones aseptic capper is always in a hygienic design and meets even the most difficult hygiene requirements.
- All drives are outside the isolator.
- A liquid seal system seals all of the capper carousel's rotational movements.
- The movements of the capping head are sealed with bellows.
- Depending on the type of cap, a chuck-cone capper or a gripping-head capper are used.



The peripherals

Air handling unit



1 Preliminary filtration

2 Air treatment system

3 HEPA filtration

4 Exhaust air

In the new, central Kronos air handling unit, the entire air treatment system is combined to create one single functional unit. This way, it is no longer necessary to work with a large number of filter fan units which are placed on the machine housing.

- All filters and ventilators in one unit
- Piping as integrated component of the air handling unit
- Centralised exhaust air pipe system
- Direct air guidance, no pressure cascade required
- Simple sterilisability of the HEPA filters

Benefits to you

- Optimum accessibility
- Complete filter exchange of the air handling unit in less than 30 minutes
- Time savings of up to 90 percent during restart
- Only one exhaust air pipe system required for the entire block

The peripherals

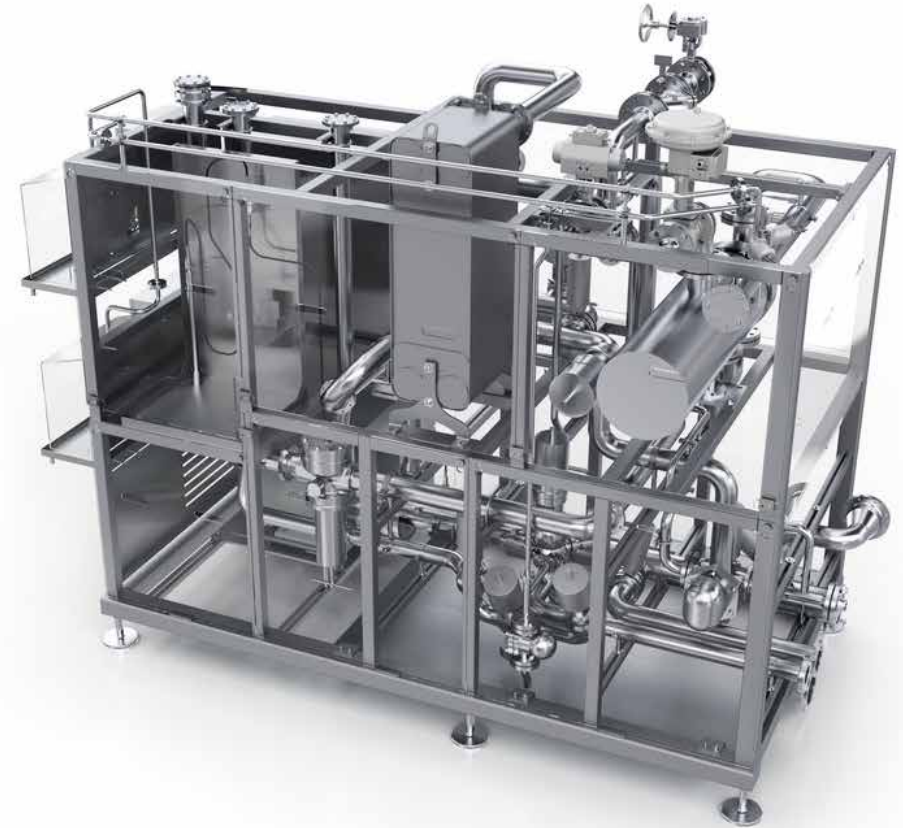
CIP module without tank



The PET-Asept L is equipped with its own CIP module. Special features: it works completely without CIP buffer tank because the machine housing of the block also buffers the CIP fluid.

Benefits to you

- Thanks to the fact that no buffer tank is required, about 85 percent of the installation surface and 40 percent of space-consuming volume can be saved.
- No separate valve manifold is required for the CIP return flow.
- All media are provided just in time.



Dimensions: 3.1 m x 1.7 m x 2.6 m (L x W x H)

The peripherals

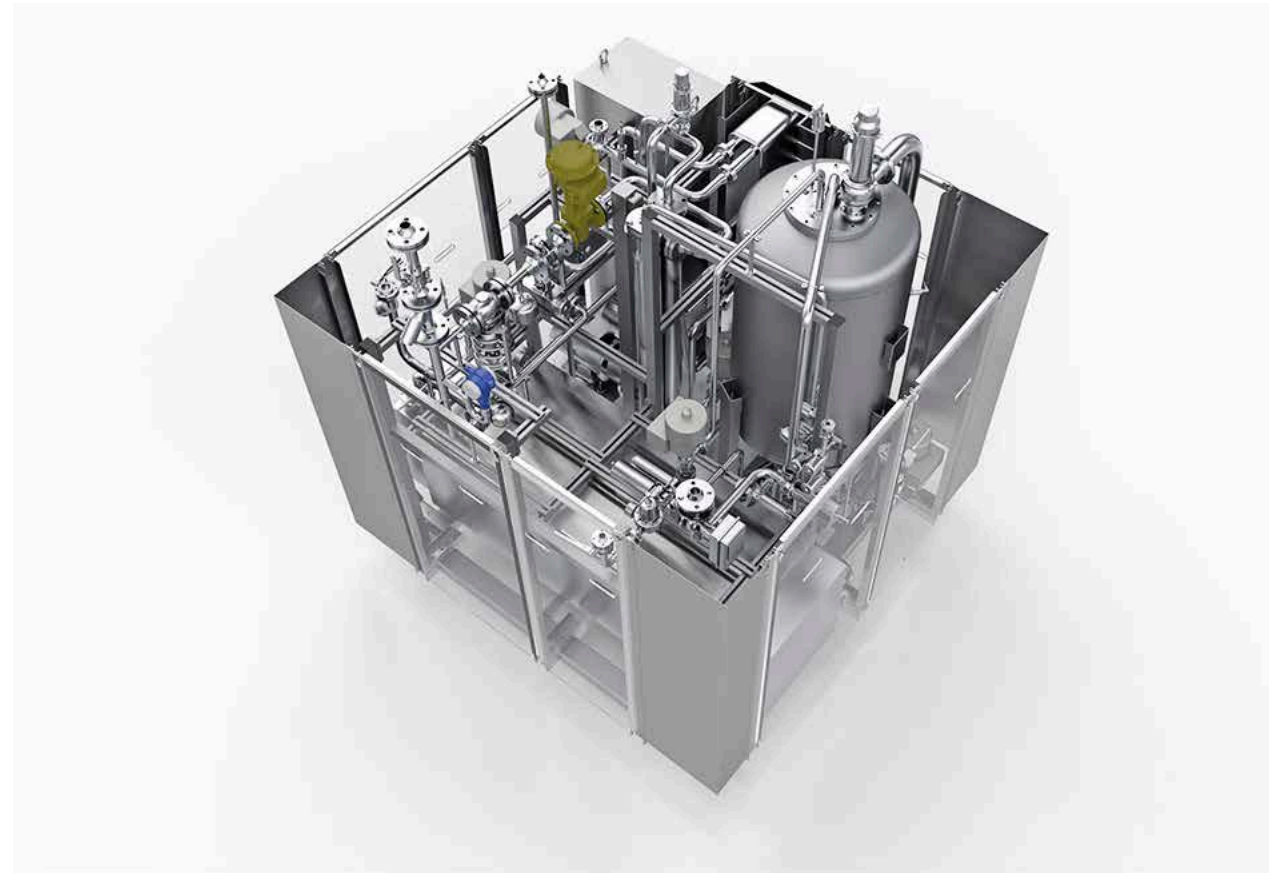
Sterile water UHT system



- Depending on the requirement, it provides 5 to 12 m³ metres of sterile water per hour
- Kills germs by means of thermal treatment
- Equipped with a connection for surface disinfectants
- Enables quick chilling of the bottling system after steam sterilisation to production temperature, for instance for CSD or cold chain products

Benefits to you

- The sophisticated unit arrangement reduces the installation surface by 45 percent and the space-consuming volume by even 60 percent.
- The thermal treatment guarantees a safe sterile water production with low operating costs.



Dimensions: 2.4 m x 2.4 m x 2.7 m (L x W x H)

Benefits to you



Pinpoint production

Filling to the last drop: The system uses the remaining product quantity in order to calculate exactly how many more PET containers and caps are still to be sterilised.

Fully-automatic change-over

Handling parts change-over at the filler and the capper can be performed up to a defined output without any manual interference.

Broad spectrum

The line covers outputs of 12,000 to 36,000 bottles per hour and is also suitable for filling products containing particles.

High availability

The PET-Asept D system produces continuously for up to one week at a time! The subsequent cleaning cycle from the last to the first bottle is done within 150 minutes.

No condensation

Clever: The treatment of warm bottles with warm gas prevents the occurrence of condensation. A fast and efficient sterilisation process results.

Requesting a new machine

You can easily send a request for a non-binding quotation in our [Krones.shop](#).



Everything from a single source



Training courses at the Krones Academy – trained personnel will increase your line efficiency

The multifaceted offer by the Krones Academy ranges from operation, servicing and maintenance courses through to management training. We will gladly also create your individual training programme.

KIC Krones cleaning agents make your machine shine

An immaculate production environment is essential if your product is to shine. KIC Krones provides you with the optimum cleaning agents and disinfectants for each individual production step.

KIC Krones lubricants – for each production step

Whether for gears, chains or central lubrication systems – our greases and oils are true all-round talents. They can reach every lubrication point, protect your line and ensure gentle treatment for your products thanks to their food-grade quality.

Krones Lifecycle Service – Partner for Performance

It goes without saying that also after the purchase of new machines, Krones takes care of your lines: The Krones LCS experts are always there to help you reaching your goals and turn your wishes into optimal LCS solutions.

Evoguard – excellent valve technology throughout the line

The Evoguard valve series comprises a modular system with hygienic and aseptic components which contributes to an increased performance at every point of the production line and has the perfect solution for every process step.

Evoguard – pumps for absolute process reliability

In addition to separation and shutting off, one thing is particularly important for a plant: the reliable feeding of your product. This is why Evoguard also offers innovative centrifugal pumps in addition to high-quality valves.

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