



BERKEFELD PurBev[®] Hygienic Design for Water Treatment

Perfectly Safe Food and Beverages –
Maximum Plant Uptime

WATER TECHNOLOGIES



Maximized product quality – Increased performance

BERKEFELD PurBev® water treatment plants ensure a hygienically safe water production for food and beverage by complying with relevant international legal directives and engineering standards, such as EHEDG and others.

Your advantages:

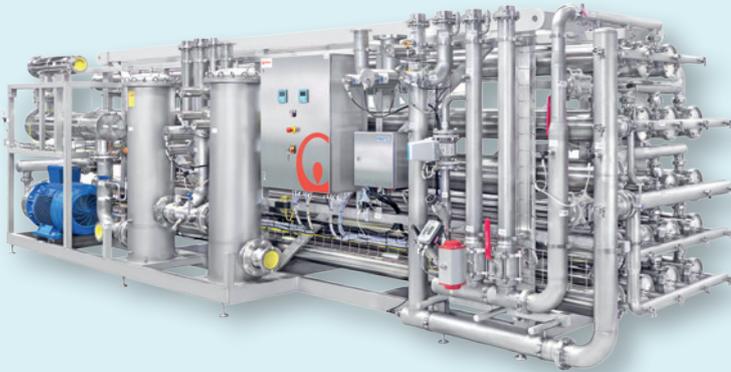
- > **Perfect product quality & safety** owing to minimized microbiological risks
- > **Maximum plant uptime** due to long intervals between cleaning & maintenance cycles
- > **Low OPEX** thanks to decreased chemical, water and energy consumption
- > **Low service costs** due to fewer & easily accessible components

Customized process design – Optimized water cycle

We understand that water is a precious product constituent but also a costly and sometimes scarce resource for food and beverage companies. That is why a customized process design is the core of each BERKEFELD PurBev® plant. Based on the experience of more than 400 installations in over 40 countries, our engineering team develops treatment concepts that fulfill all required specifications and optimize the utilization of available resources such as water, energy, chemicals and space.



Standardized technologies – Individual choices



The BERKEFELD PurBev® series comprises a range of standardized technologies, all engineered to comply with hygienic design principles. These modular technologies can be combined and scaled to meet individual customer requirements as defined in each individual BERKEFELD PurBev® process design. Optional additions enable the recycling of the plant's wastewater. Smart support programs monitor systems in production in order to optimize performance and prevent downtimes.

BERKEFELD PurBev® water treatment technologies

- ◆ Media Filtration ◆ Activated Carbon Filtration ◆ Ultrafiltration (UF)
- ◆ Reverse Osmosis (RO) ◆ Polishing Filters
- ◆ Pump Skids ◆ Storage Tanks
- ◆ Distribution Systems



BERKEFELD PurBev® water reclamation

- ◆ Basic ◆ Standard ◆ Advanced
- ◆ Extended



AQUAservice for BERKEFELD PurBev® plants

- ◆ Operator Training ◆ Spares, Media, Chemicals ◆ Service Contracts
- ◆ Preventive Maintenance
- ◆ AQUAVISTA™ Remote Monitoring

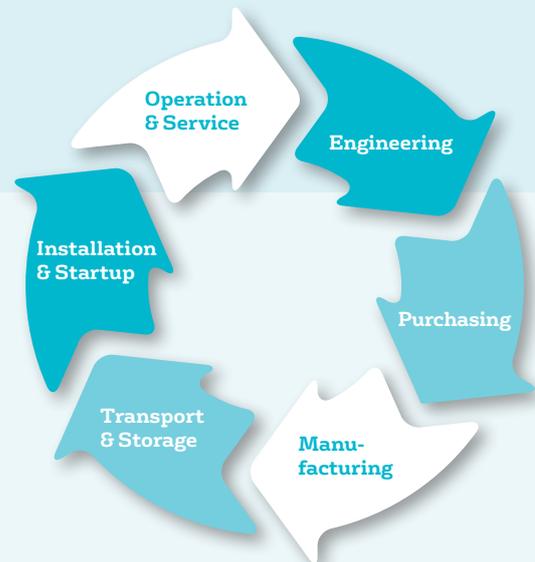


Hygiene at each stage

BERKEFELD PurBev® is not just about a specific process and system design. Along our entire value chain we follow strict hygienic standards. Our holistic approach is your guarantee for a continuous production of impeccably hygienic product water.

Hygienic materials & components

BERKEFELD PurBev® systems are made of materials and components that help prevent microbiological risks while maintaining a high product quality.



Training & quality assurance

Our guidelines and training programs for engineering, procurement, manufacturing, logistics, commissioning and service are carefully tailored to suit the BERKEFELD PurBev® requirements on hygiene.

BERKEFELD PurBev[®]

Hygienic Design



Minimize microbiological risks in your system

- > Fully drainable piping
- > Hygienic joints and gaskets
- > Hydraulic design avoiding stagnation

Ensure reliable cleaning and disinfection

- > CIP/SIP compatible surfaces
- > Defined cleaning paths and flow velocity
- > Mix-proof media separation

Prevent external contaminations

- > Closed process
- > High degree of automation
- > Surfaces suited for residue-free cleaning

Enable continuous monitoring

- > Online quality assurance
- > Traceability of individual batches
- > Trend analysis and remote performance optimization

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