

PurBev[®]

The hygienic design standard
for beverage water treatment



PurBev[®]

Series

All **PurBev[®]** series are based on a system standard, which can be scaled and modified according to respective requirements. The series' uniform basic design reduces engineering efforts and ensures maximum quality. The systems are available in all hydraulic capacities required in beverage production.

PurBev[®] series also includes:

- **PurBev[®]** pump skids
- **PurBev[®]** storage tanks
- **PurBev[®]** water distribution systems
- **PurBev[®]** control and display units
- **PurBev[®]** quality monitoring systems



PurBev[®] Media Filter

- Removes iron, manganese and particles
- Reduces arsenic, uranium, fluoride and turbidity



PurBev[®] Carbon Filter

- Removes odor and anthropogenic trace elements
- Reduces trihalogenmethanes (THM) as well as free and bonded chlorine
- Optimizes taste



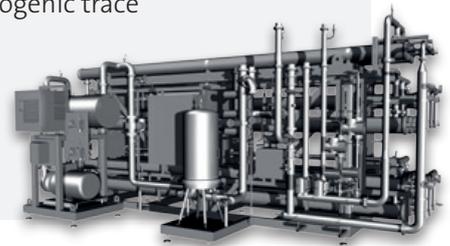
PurBev[®] UF

- Removes pathogenes, high molecular weight species (HMWS) and particles
- Reduces turbidity



PurBev[®] RO

- Removes organic matter, reaction byproducts and anthropogenic trace elements
- Reduces total dissolved salts (TDS) and carbonate hardness



PurBev®



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System design

The PurBev® hygienic design standard was developed while taking into account existing legal requirements and international standards and directives applying to beverage production. Our engineering team ensures that PurBev® systems reliably fulfill demanding customer specifications.



❖ Minimizing microbial risks in your system:

- Surfaces CIP/SIP able
- Self-draining piping arrangement
- Pipeline gradient 1 - 3 %
- Hygienic joints and gaskets
- Optimized flow design to avoid stagnant water

❖ Prevention of external impurities:

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



❖ Reliable cleaning and disinfection:

- Surfaces CIP/SIP able
- Mixproof separation of media
- Defined cleaning paths
- Defined flow velocity for cleaning

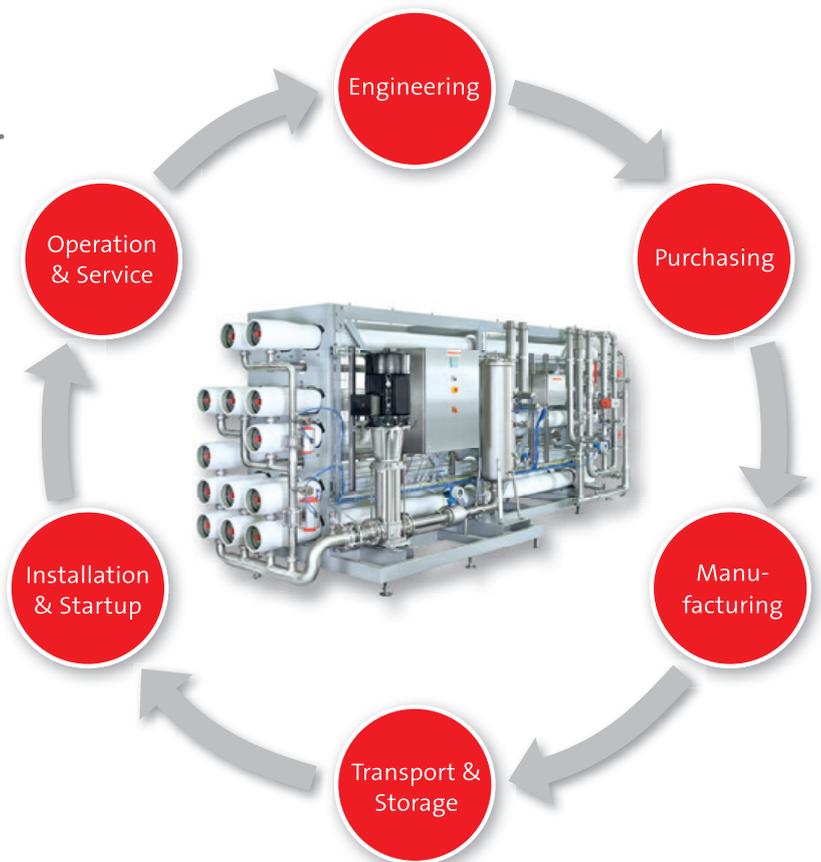
❖ Continuous monitoring:

- Online quality assurance
- Trend analysis
- Traceability of individual batches

PurBev®

Hygiene Standards Along Entire Value Chain

PurBev® does not only represent a hygienic system design. Specific know-how and binding standards ensure maximum hygiene is maintained along the entire value chain. This holistic approach guarantees high quality and reliability for the production of beverage water.



Engineering Expertise & Experience for Beverage Industry

The wide variety of requirements placed on the hygienic design of beverage production systems calls for specific expertise and in-depth knowledge of production processes. The design of the PurBev® product range is based on the competence and expertise of our engineers specializing in beverage water while complying with national and international directives:

- ❖ Machine Directive 2006/42/EC
- ❖ DIN EN 1672-2:2009
- ❖ DIN EN ISO 14159
- ❖ DIN EN ISO 21469
- ❖ DIN 10516
- ❖ DIN 10528
- ❖ EHEDG
- ❖ GMP
- ❖ VDI

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Hygiene as a holistic concept

Hygienic Materials and Components

Special materials and components prevent microbial risks and ensure optimum product quality.

Trained Personnel

Continuous hygiene training programs prevent contamination due to improper handling of components and systems.

Quality Assurance

Planning, procurement, production, logistics, assembly and startup are carefully tailored to suit the specific requirements on hygiene.

Competent Service

A worldwide network of specially trained service technicians is available for support and maintaining the value of your systems.



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Advantages

- **Optimum product quality & product safety** by minimizing microbiological risks
- **Maximum system availability** thanks to longer cleaning intervals and maintenance cycles
- **Economical operation** based on high system efficiency & decreased need of cleaning supplies
- **Low maintenance & service costs** due to less & freely accessible components
- **Lower OPEX** due to chemical, water and energy savings
- **Sustainability:** Longer lifetime and lower lifecycle costs (low TCO)



Veolia Water Technologies Deutschland GmbH
Lueckenweg 5 · D-29227 Celle
Tel.: +49 (0) 51 41/803 - 0
Fax: +49 (0) 51 41/803 - 100

www.veoliawatertechnologies.de