






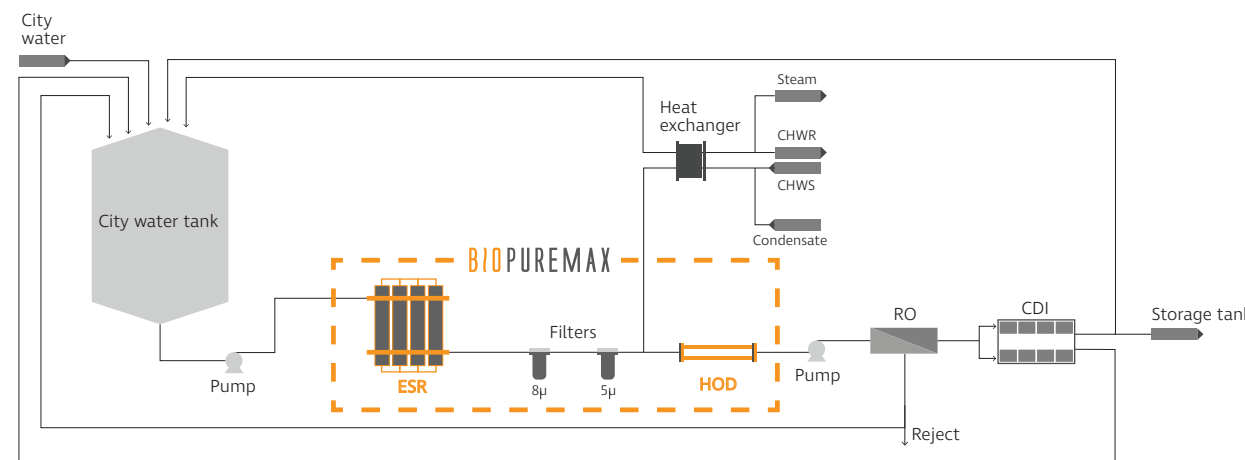
Green Technology - Cost Reductions

-  Up to 30% savings on feedwater
-  Effectively reduces bacterial levels to extremely low concentrations
-  Simple to use / Easy to maintain / Exceptionally reliable
-  Environmentally friendly
-  Low operational cost / High efficiency

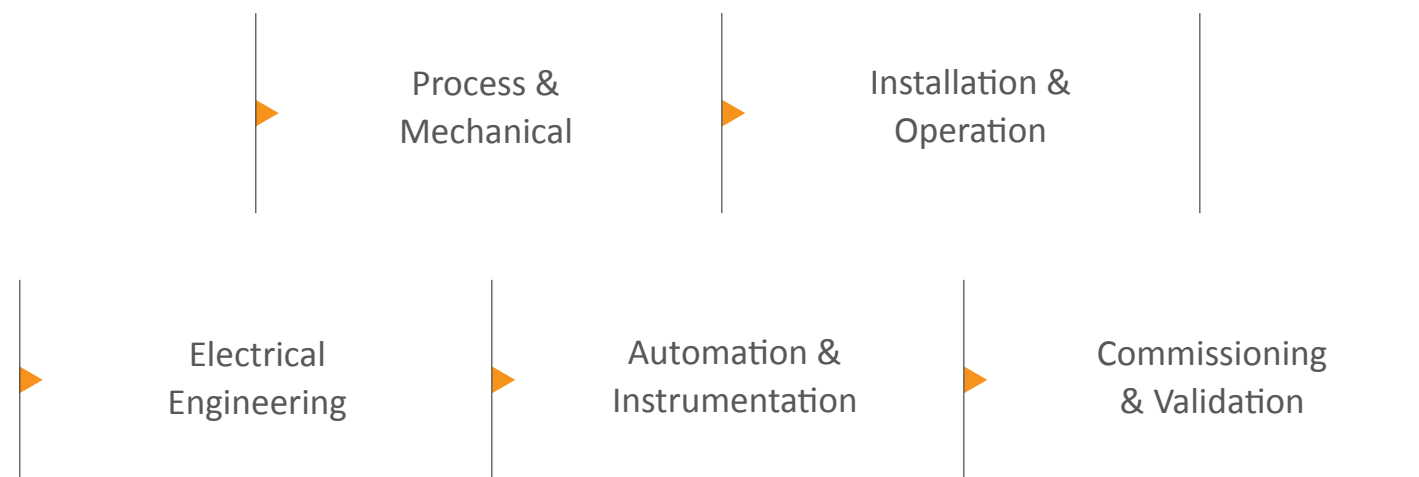
EP/USP/JP Exceeds USP, EP, and JP standards for PW & WFI

ISO/CE ISO22519, ISO9001, ISO13485, CE Mark

PW/WFI Chemical and Media Free Flow Diagram



All capabilities in house



Biopuremax has over 30 years of experience in the design, installation, validation, and operation of high-quality water systems

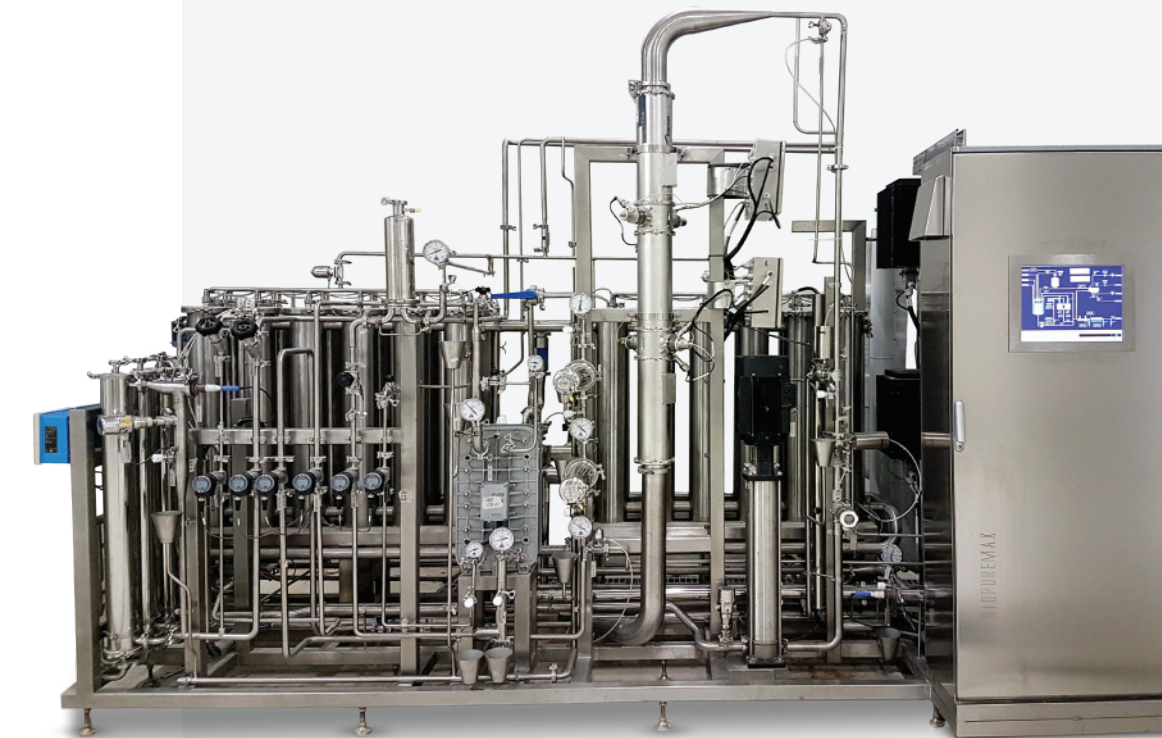
BIOPUREMAX
Bringing Technology to Pharmaceutical Water

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BIOPUREMAX
Bringing Technology to Pharmaceutical Water



Biopuremax: The Ultimate Pharmaceutical Water System, Free from Media & Chemicals

Biopuremax Added Values

Electrolytic Scale Reduction (ESR™)

- No waste brine
- No salt and salt handling
- No organic resins
- No backwash or regeneration

Hydro-Optical Dechlorination (HOD™) by UV Irradiation

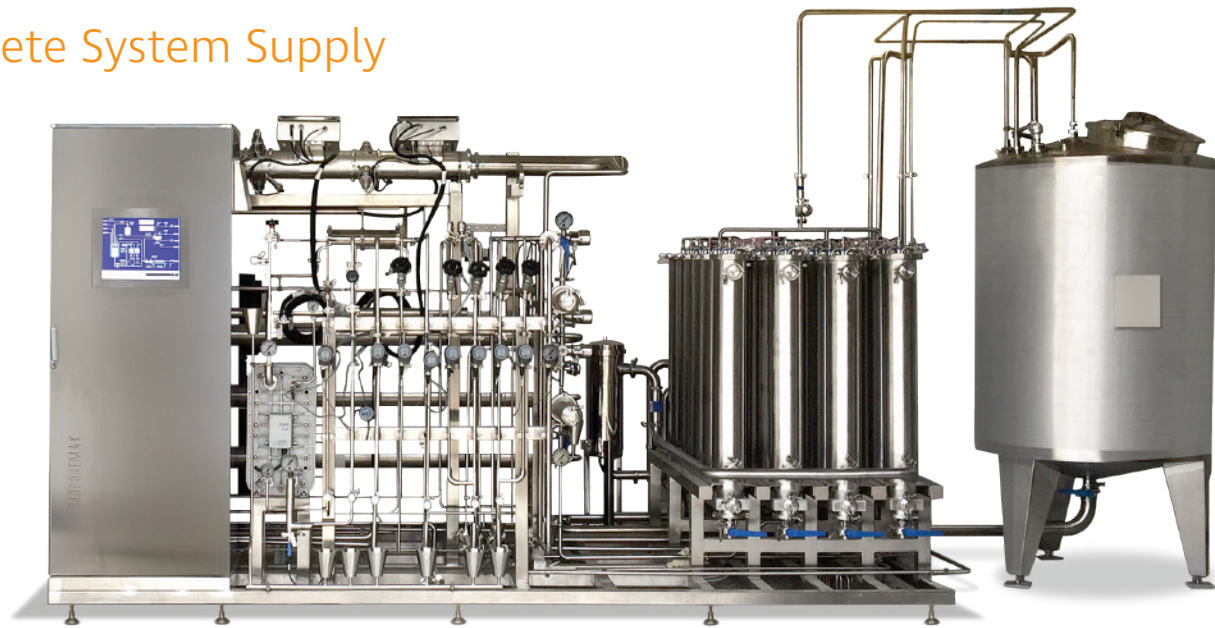
- No ACF - no biofilm
- No SBS - no chemical handling and no RO fouling
- Environmentally safe

Complete Hot Water Sanitization for total system

- RO pretreatment is fully fabricated from SS316L stainless steel
- The simplest and most effective solution for eliminating bacteria

CBR™ – Continuous Bioburden Reduction

Complete System Supply



Very Low Maintenance

ESR™

No maintenance, automatic cleaning

HOD™

Replace UV lamps and gaskets every six months

RO-CEDI

No additional maintenance needed

Sanitization

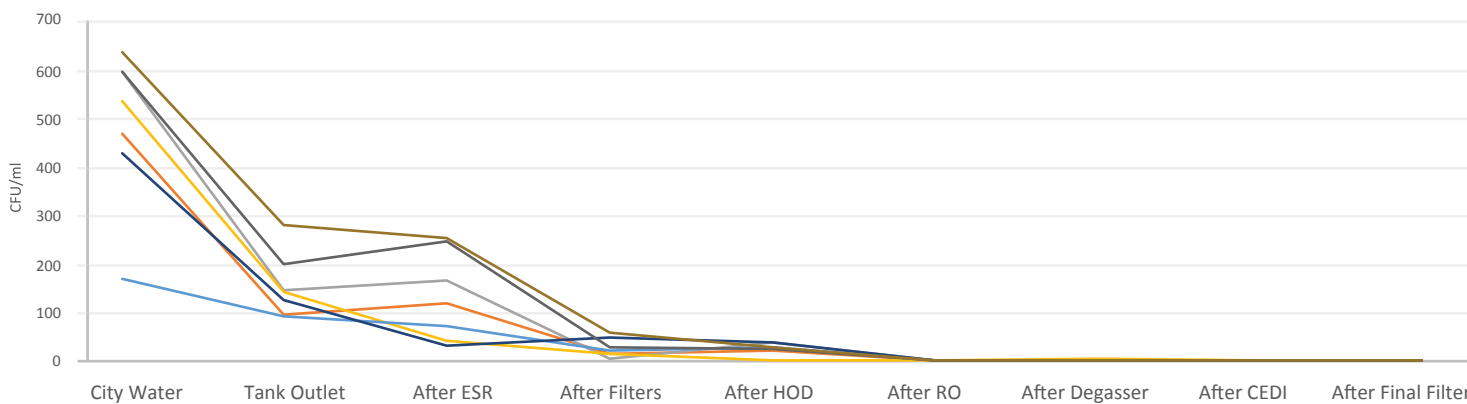
Fully automated hot water sanitization, starting from the raw water inlet

Filters

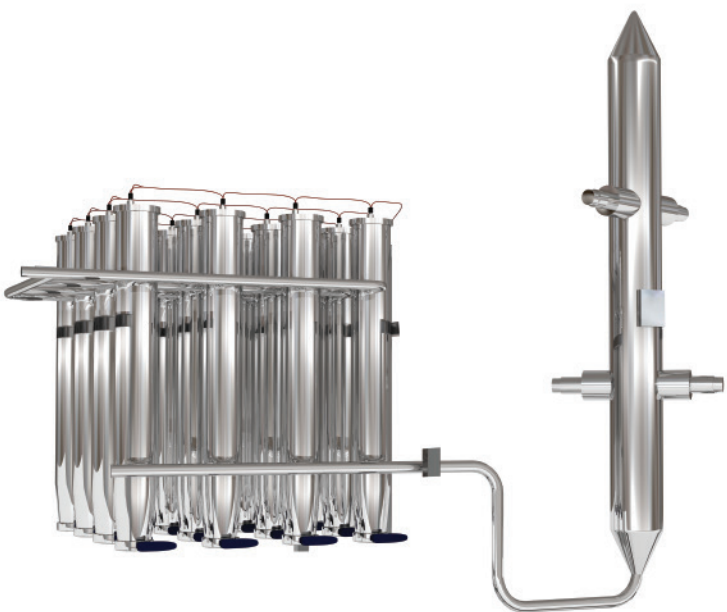
Replace pre RO filters per feed water

CBR™ – Continuous Bioburden Reduction

Biopuremax systems keep the whole system free of microbiological growth and biofilm



Biopuremax Pretreatment Technology

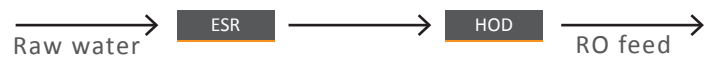


Electrolytic Scale Reduction (ESR™)

An elegant solution that replaces both ion-exchange softeners and antiscalant chemicals. An electrical current generates a high pH near the cathode which deposits scale in the reaction chamber and releases CO₂.

Hydro-Optical Dechlorination (HOD™)

Treats ESR water through exposure to ultraviolet radiation, decomposing free chlorine and destroying microorganisms.



Biopuremax is a high end system that produces both PW and WFI. Biopuremax is one of the few systems capable of reliably producing WFI without distillation, thanks to its exceptionally low microbiological levels throughout the system. Biopuremax water systems comply with the strictest requirements and highest standards for pharmaceutical water production.