

# BIO PUREMAX

Bringing Technology to Pharmaceutical Water



Biopuremax, the ultimate pharmaceutical water system that is media & chemical free

## Green Technology - Cost Reductions



Up to 30% savings on feed water



Actively reduces bacteria to very low levels



Simple to use / Easy to maintain / Exceptionally reliable



Environmentally friendly



Low operational cost / High efficiency

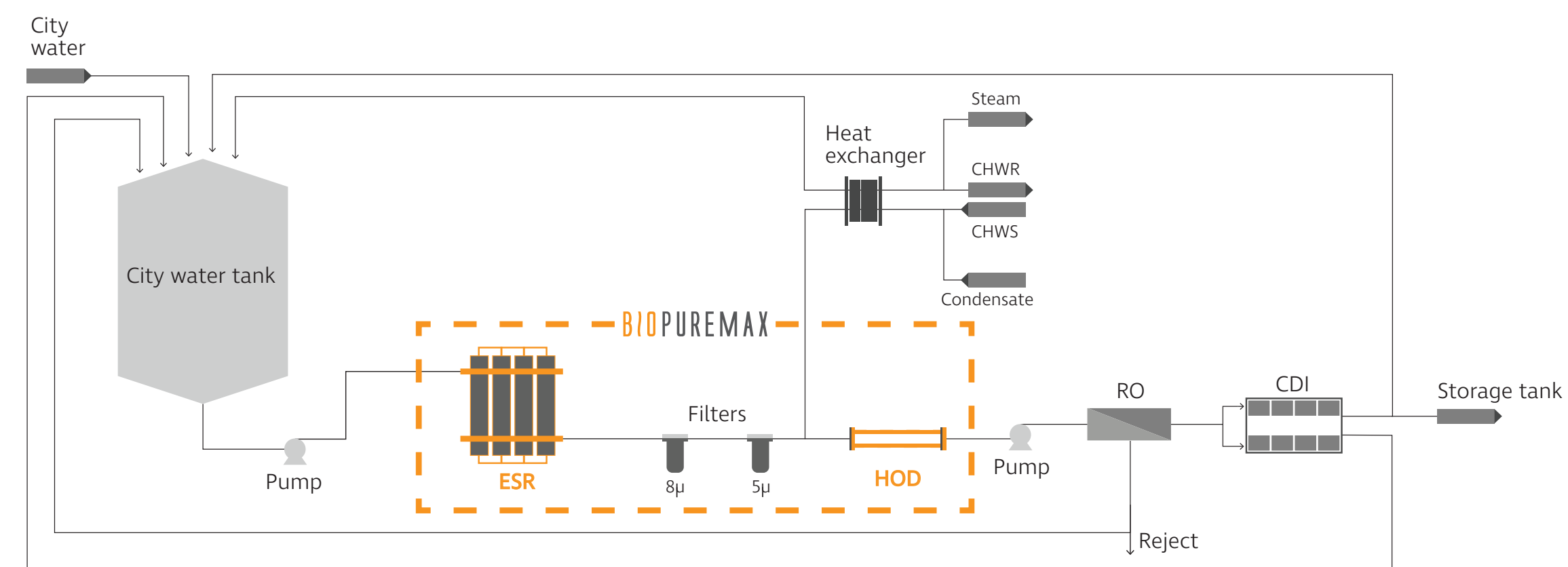
EP/USP/JP

Exceeding USP, EP and JP standards for PW & WFI

ISO/CE

ISO22519, ISO9001, ISO13485, CE Mark

## PW/WFI Chemical and Media Free Flow Diagram



# 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 Irraddiation

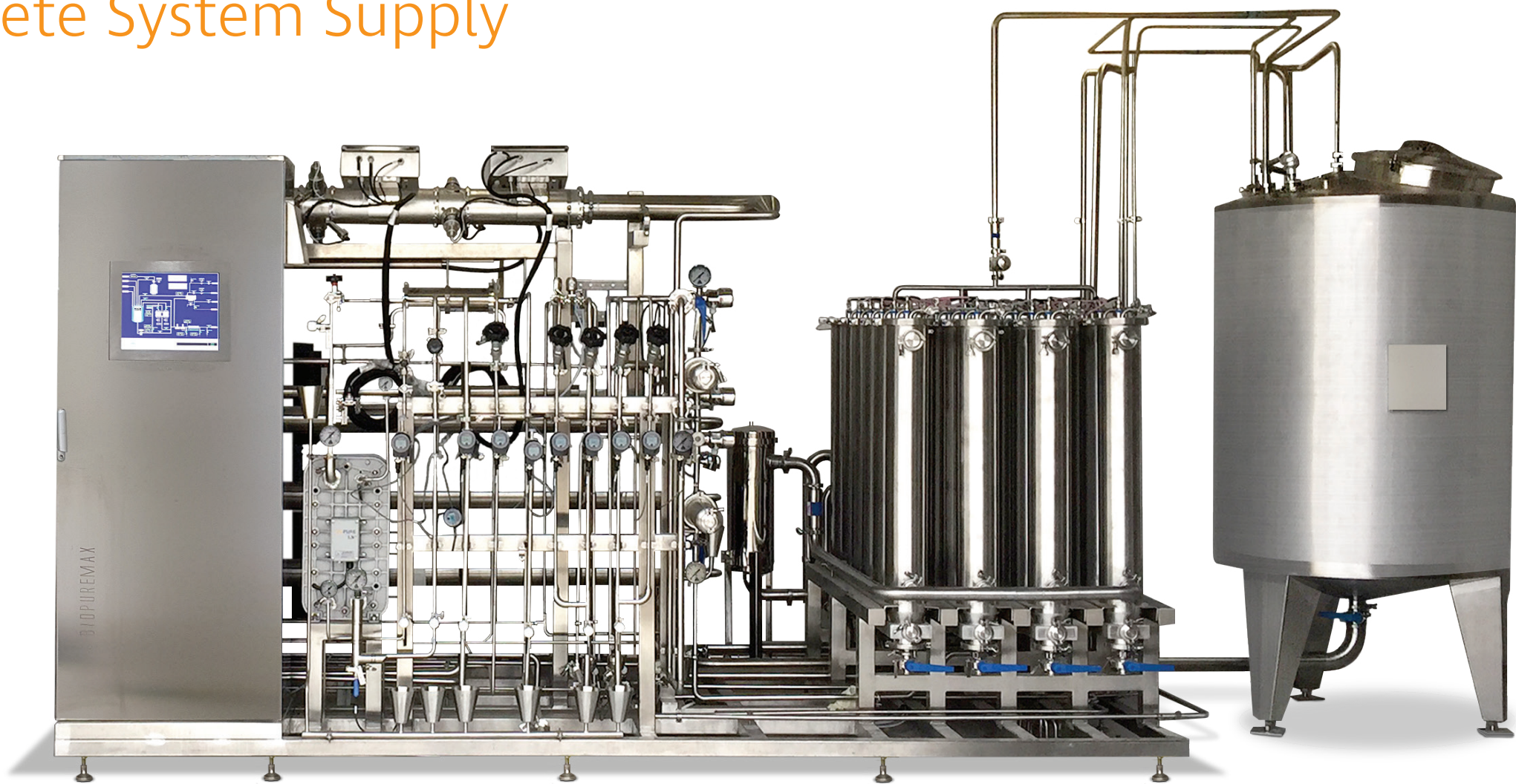
- No ACF - no biofilm
- No SBS - no chemical handling and no RO fouling
- Environmentally safe

## 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

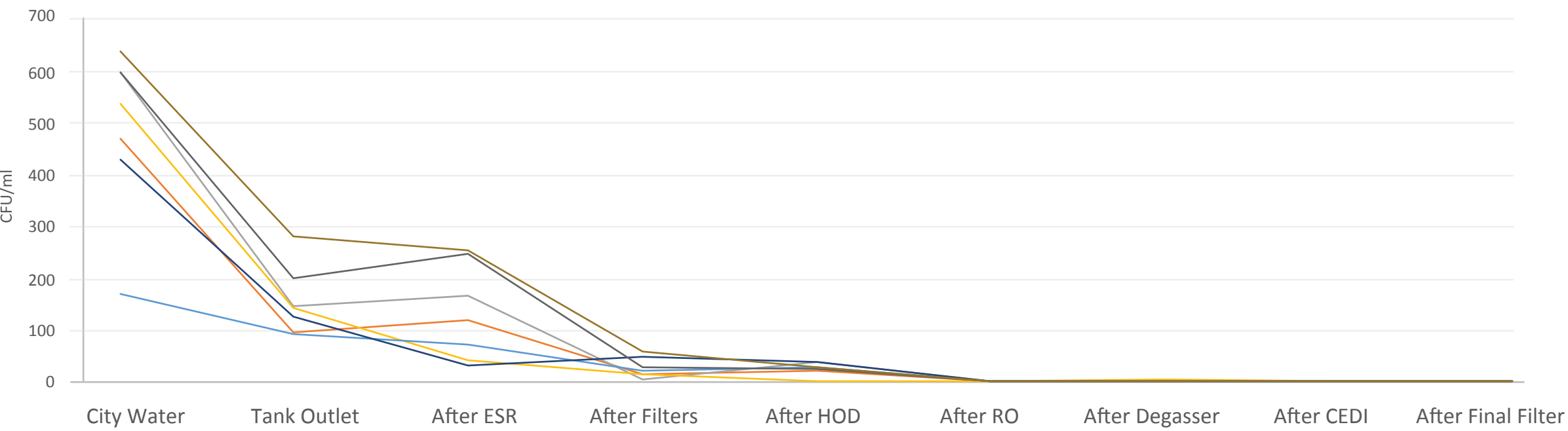
Fully automated hot water sanitization, starting from the raw water inlet

## Filters

Replace pre RO filters per feed water

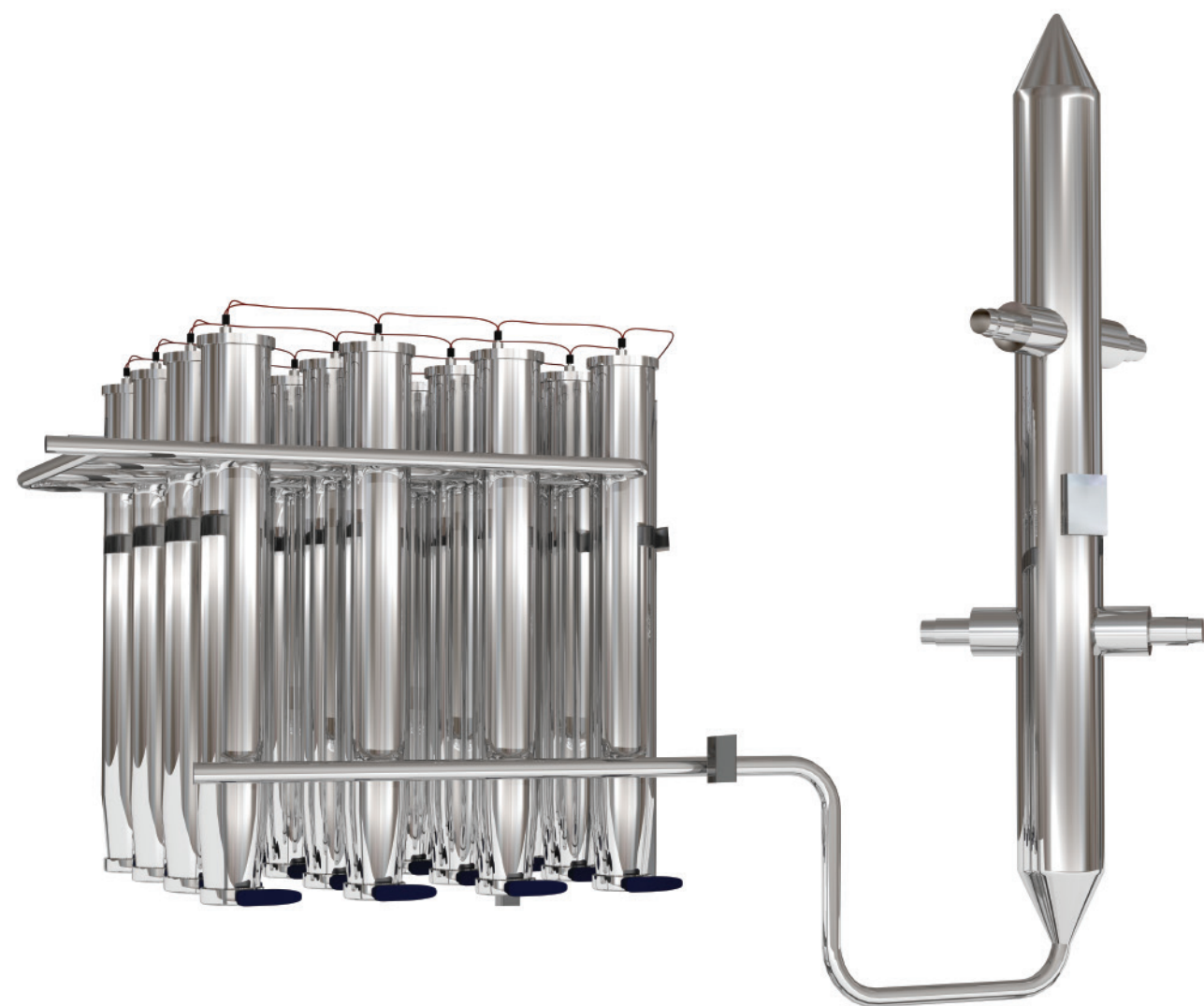
## CBR™ – Continuous Bioburden Reduction

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 CO<sub>2</sub>.

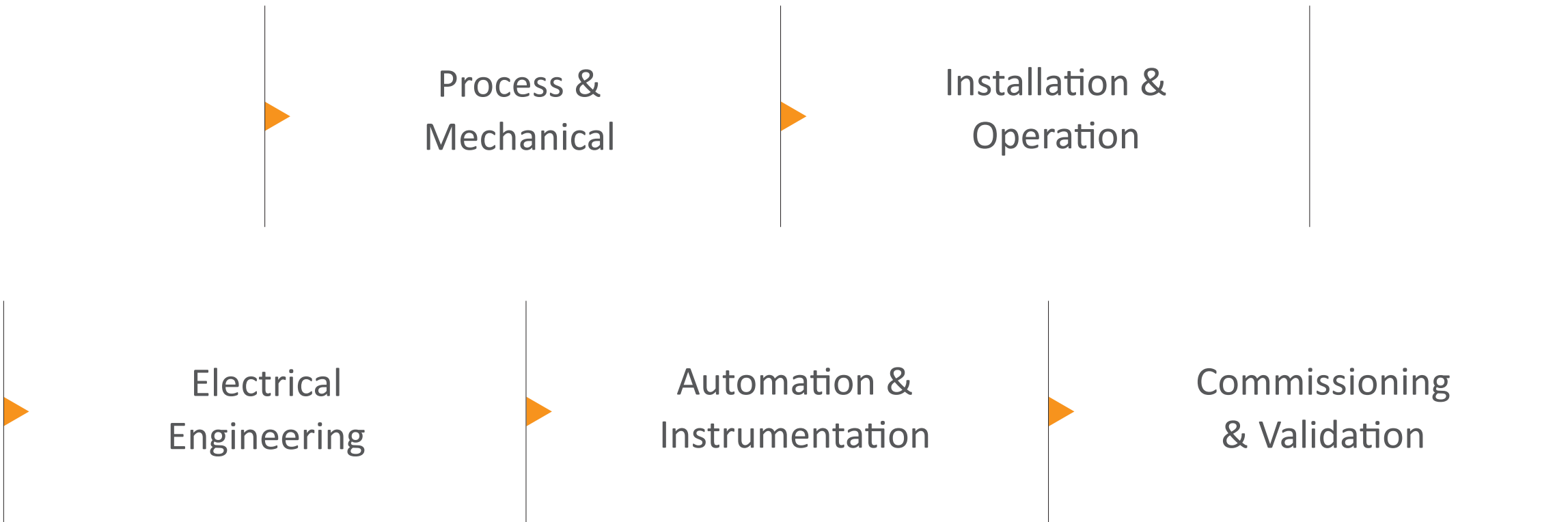
## Hydro Optical De-Chlorination (HOD™)

Treats the ESR water, by exposure to ultra violet radiation which decomposes the free chlorine and destruction of 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.

# All capabilities in house



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