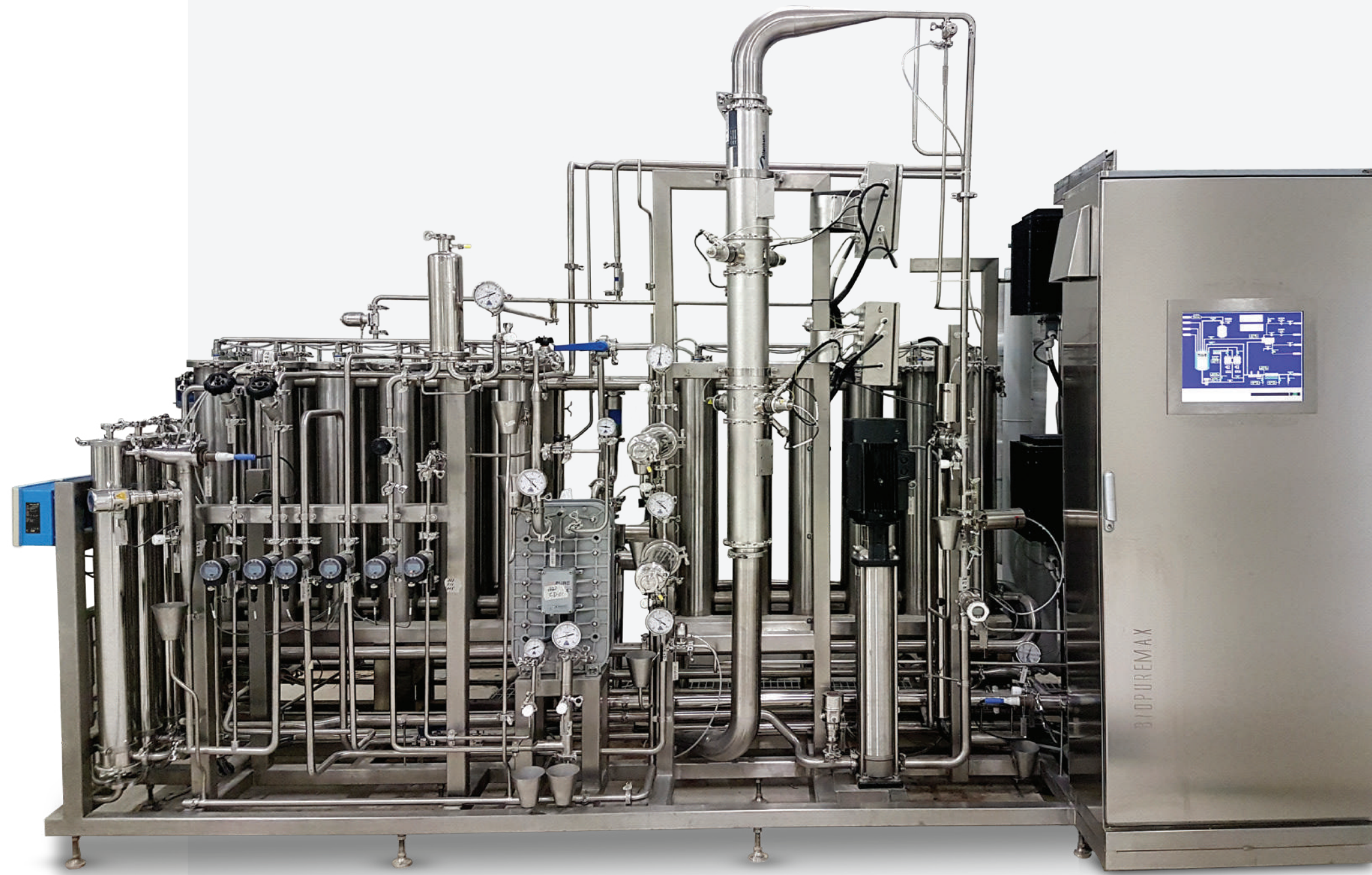


# BIO PUREMAX

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

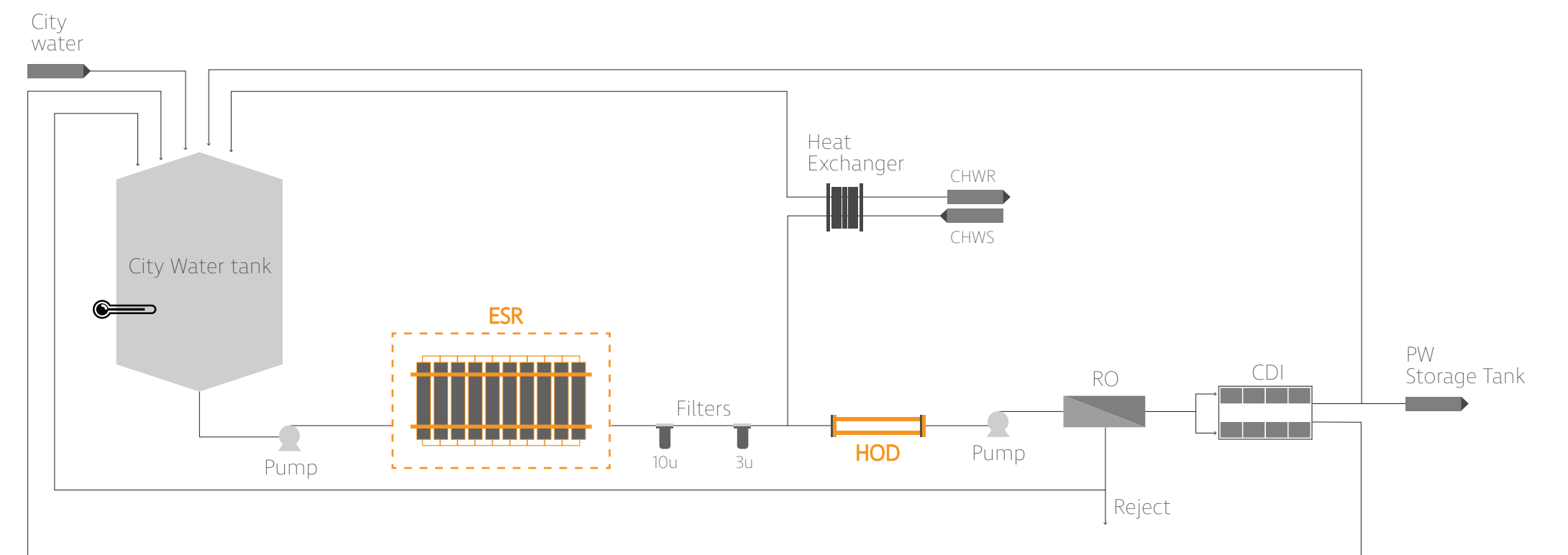


Low operational cost / High efficiency



Exceeding USP, EP and JP standards for PW & WFI

## Chemical and Media Free System PFD



## Very Low Maintenance

### ESR™

No maintenance, automatic cleaning

### HOD™

Replace UV lamps & gaskets, every 6 months

### RO-CEDI

No additional maintenance needed

### Sanitization

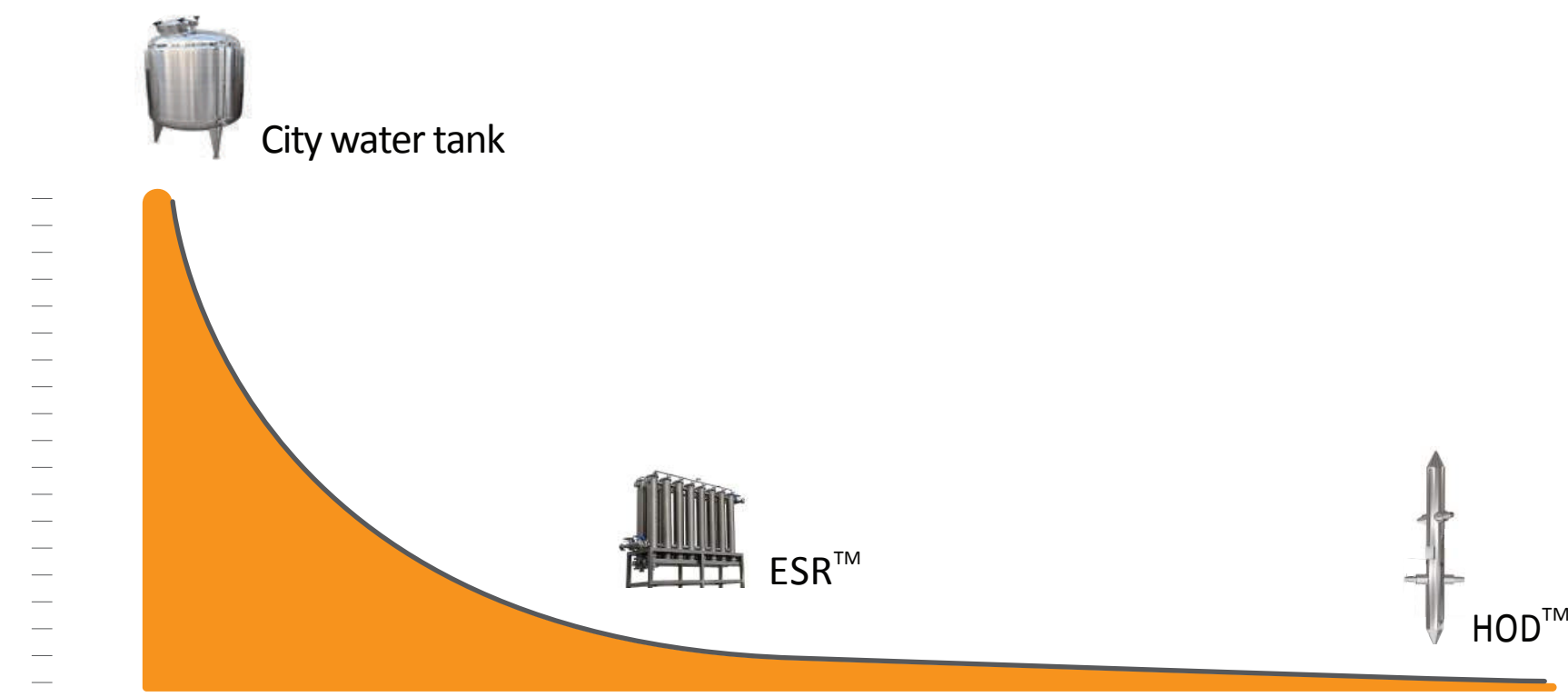
Automatic hot water sanitization after maintenance

### Filters

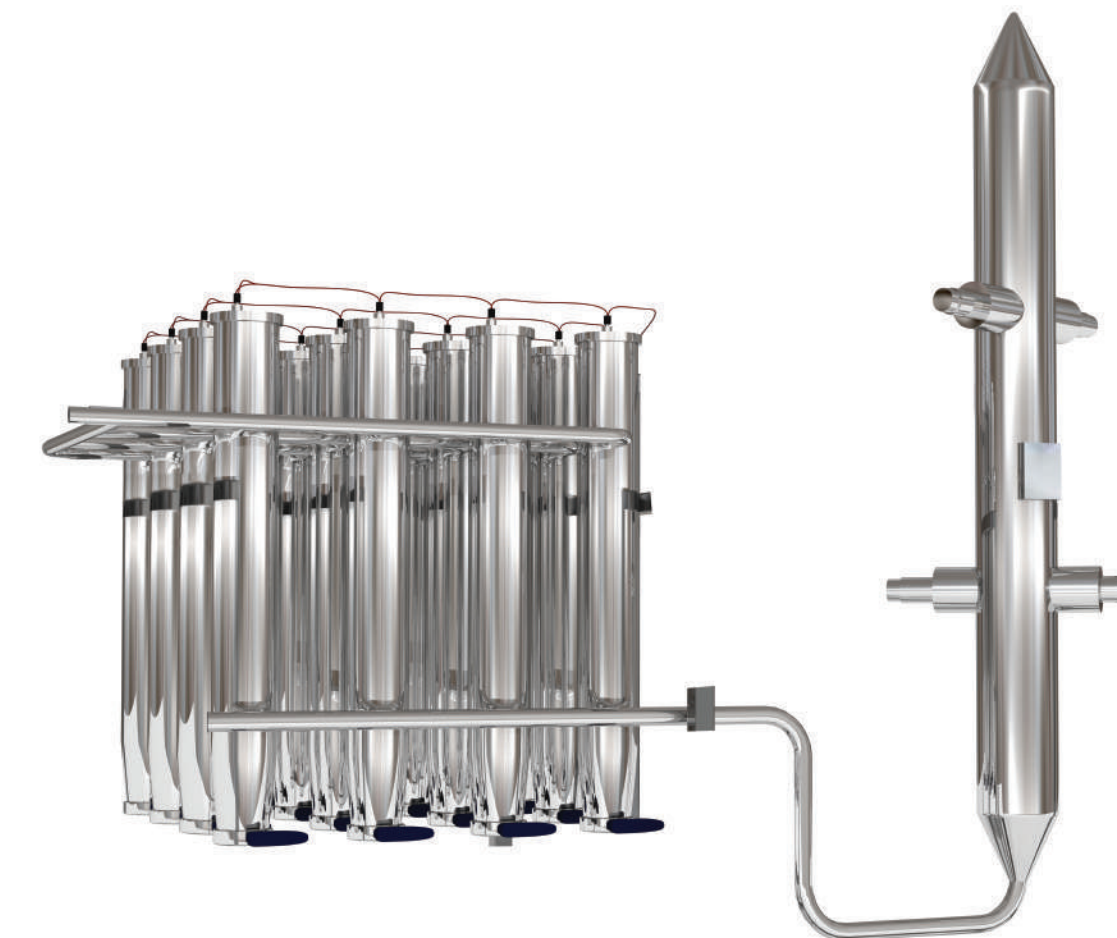
Replace pre RO filters per feed water

## CBR™ – Continuous Bioburden Reduction

Very low microbiological contamination level through Biopuremax system



## 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 micro-organisms.

Biopuremax is a high end system that produces both PW and WFI. Biopuremax is one of the only systems that can produce WFI reliably without distillation due to very low microbiological levels throughout the system.

The Biopuremax water systems comply with the strictest requirements and highest standards for pharmaceutical water systems.

## Biopuremax Added Value

### 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

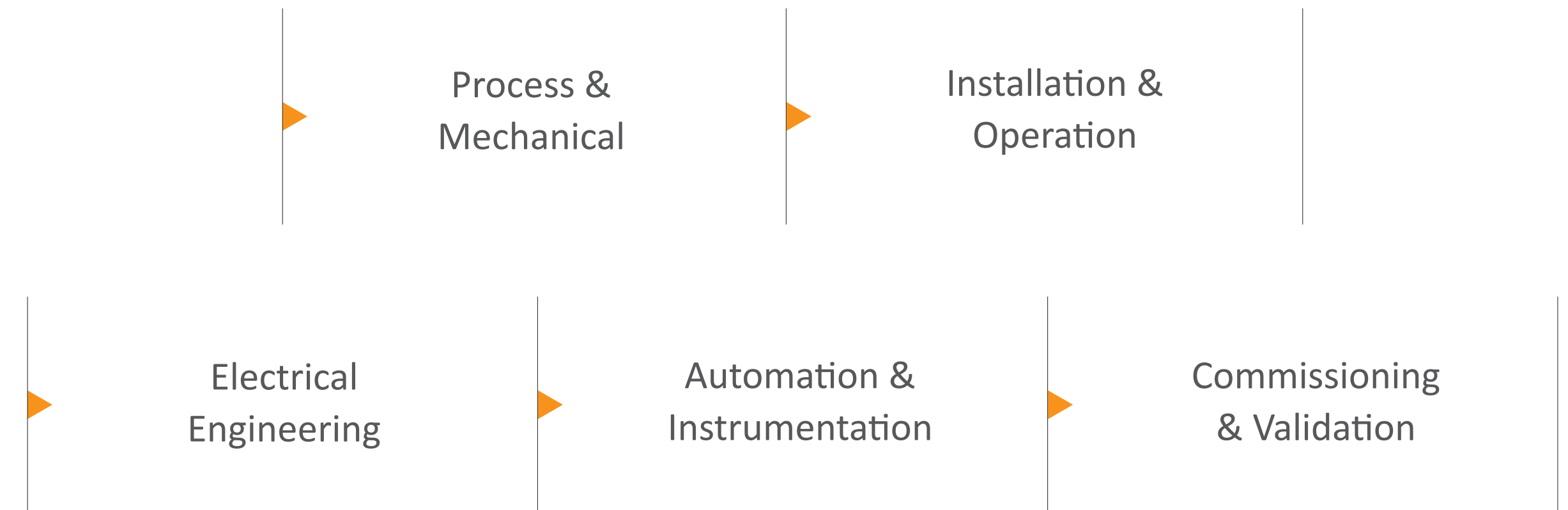
- RO Pretreatment fully fabricated of SS316L
- The most straightforward and effective solution for killing bacteria

### CBR™ – Continuous Bioburden Reduction

## Complete System Supply



## All capabilities in house



**Biopuremax** has over 20 years of experience in design, installation, validation and operation of high quality water systems

**BIO PURE MAX**

Bringing Technology to Pharmaceutical Water

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