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

No ACF - no biofilm No SBS - no chemical handling 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

CBR- No need for sanitization, operation of system reduces bacterial levels

Biopuremax Pretreatment Technology

Electrolytic Scale Reduction (ESR $^{\text{\tiny TM}}$)

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 De-Chlorination (HOD[™])

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



Complete System Supply





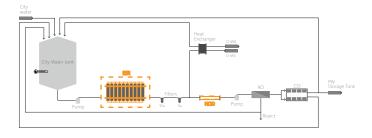
For additional info & pricing: biopuremax.com info@biopuremax.com Contact us: Netherlands +31-6-1833-1470 Brazil +55-11-98169-1523

Standard configuration feed water specifications

Total Hardness (as CaCO₃): 50-300 ppm Chlorides: 10-100 ppm Iron: <0.2 ppm SDI < 3 Chlorine < 1.0 ppm Chloramine < 0.25 ppm Silica: <10 ppm Manganese: <0.02 ppm CO_2 : <20 ppm Conductivity: 50-1000 pH: 6.5 - 8.0

Feed water specifications are for standard systems, the Biopuremax can be configured for nearly any type of feed water including high levels of incoming silica, iron and

Chemical and Media Free PW/WFI Production System PFD



Performance

Parameter	Feed water	After Biopuremax
Total Count (cfu/ml)	< 500	< 10
Pseudomonas (per ml)	0-10	0
E-Coli (per ml)	0-100	0
Coliforms (per ml)	0-100	0

PW/WFI	Foot print	Operating weight (not including electrical cabinet)	Electrical	Chilled water (supply at 7°c, 45°F), cool after sanitization 3 Hrs	Steam 7 barg (sanitization heat up 2 Hrs)
L/hr	mm x mm	Kg	kW	1000 Kg/Hr	Kg/Hr
500	3,000x1,400	1,050	7.5	5.7	75
1,000	3,000x1,400	1,300	9.5	6.8	75
2,000	3,200x1,400	1,550	15	9.1	100
3,000	3,200x1,400	1,980	17.5	11.3	100
4,000	3,200x1,600	2,390	22.5	11.3	120
5,000	3,200x1,600	2,480	31.5	11.3	120
6,000	3,500x1,600	2,980	33	11.3	120
7,000	3,500x1,600	3,100	35	11.3	120
8,000	3,800x1,800	3,640	48	12.5	150
9,000	3,800x1,800	3,630	48	12.5	150
10,000	3,800x1,800	3,860	60	12.5	150
15,000	4,200x2,000	5,540	70	14.7	200
20,000	4,600x2,000	6,640	85	14.7	200

Note

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manganese.

The above data is pretreatment for single pass RO, if double pass RO is needed please state.





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