

Biopuremax Demonstration Unit

This unit is a system to demonstrate RO pretreatment with ESR™ – HOD™ technology. The unit produces 100-250 L/hr (adjustable) with no need for softeners or chemicals.

Biopuremax Pretreatment Technology

Electrolytic Scale Reduction (ESR™)

An electrical current generates a high pH near the cathode which deposits scale in the reaction chamber and releases CO₂.

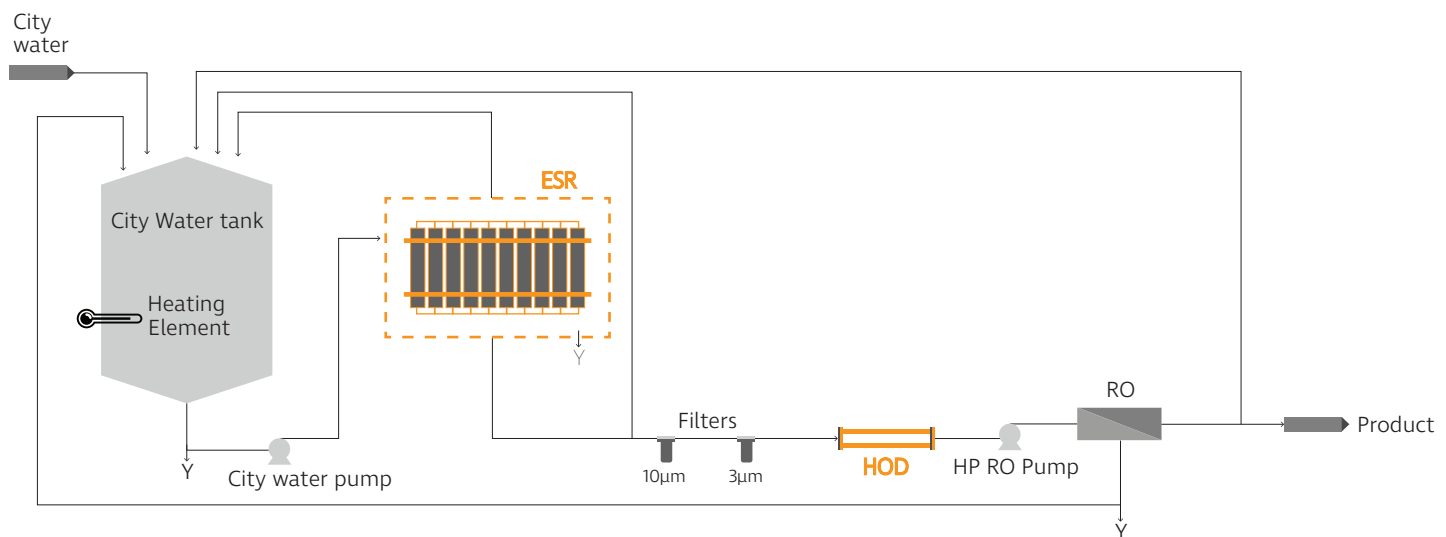
Hydro Optical De-Chlorination (HOD™)

Treats the ESR™ water, by exposure to ultra violet radiation which decomposes the free chlorine generated by the ESR™ and disinfects the water.

Standard configuration feed water specifications

Total Hardness (as CaCO₃) 100-250 ppm
Chlorides 10-100 ppm
Iron < 0.2 ppm
SDI < 3 ppm
Free Chlorine < 1.0 ppm
Chloramine < 0.25 ppm
Silica <10 ppm
Manganese <0.02 ppm
CO₂ <20 ppm
Conductivity 200-700 µS/cm
pH 6.5 - 8.0

Chemical and Media Free PW/WFI Production System PFD



BIO PUREMAX

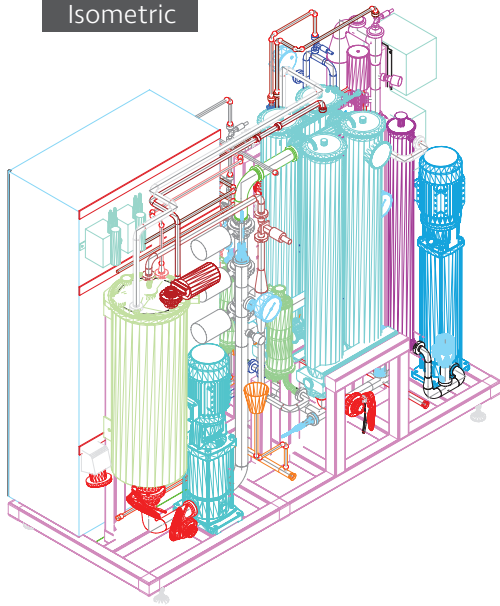
Bringing Technology to Pharmaceutical Water

For additional info & pricing: www.biopuremax.com • info@biopuremax.com

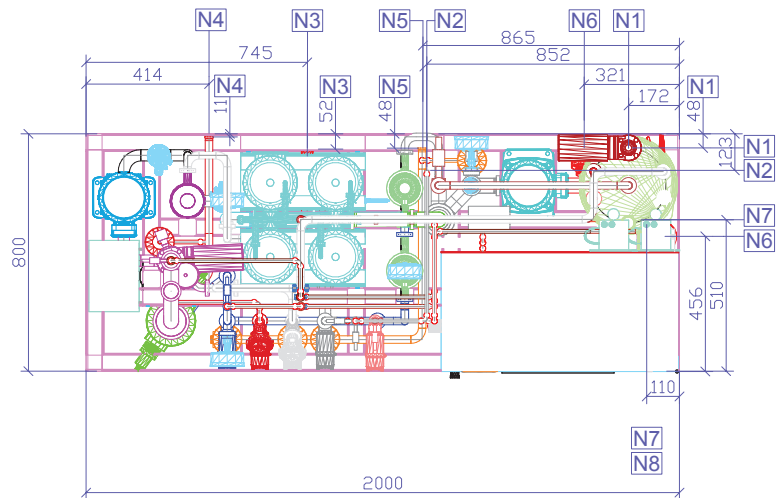
Germany +49-691-2006-6626 • Netherlands +31-61-095-73-80 • USA +1-516-684-8200

Views of Demonstration Skid

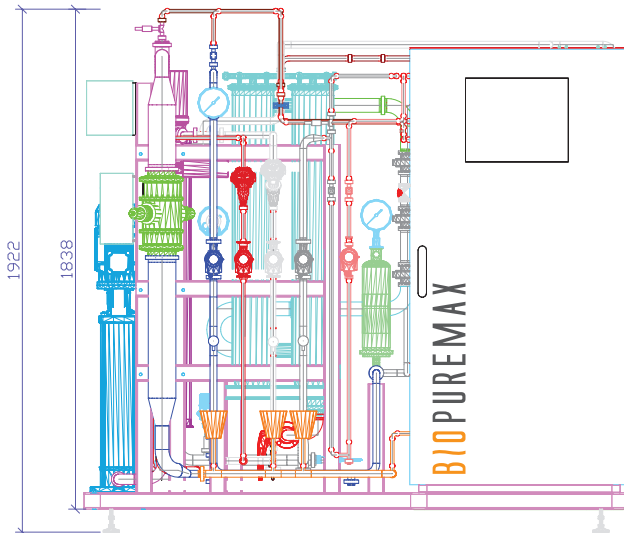
Isometric



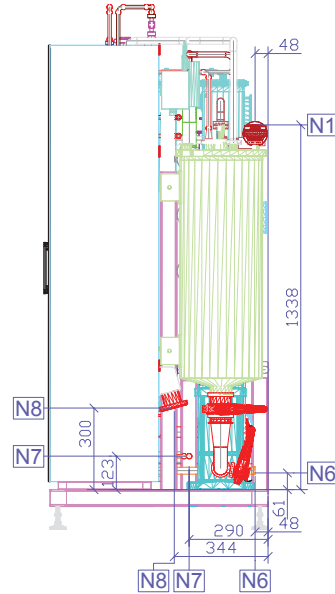
Top



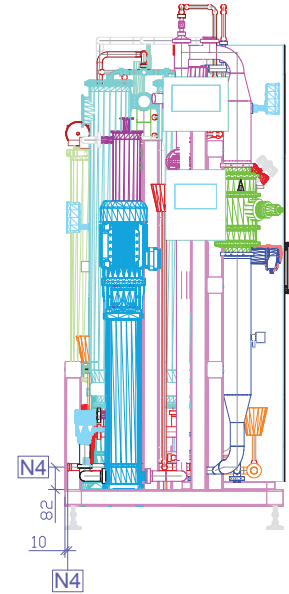
Front



Right



Left



Skid Connections

Position	Service	Connection Size	Connection Type	Operating Pressure (barg)	Flowrate (m ³ /hr)	Temp. (°C)
N1	CW Supply	1"	ASME BPE	2-4	0.5	Ambient
N2	Product Outlet	1/2"	ASME BPE	1-3	0.1 - 0.25	Ambient
N3	ESR Drain	1 1/2"	ASME BPE	Hydrostatic	0.4	Ambient
N4	RO Drain	1"	ASME BPE	8-12	0.1	Ambient
N5	Sample Point Drain	1"	ASME BPE	Hydrostatic	0.1	Ambient
N6	Tank Drain	1"	ASME BPE	Hydrostatic	0.4	Ambient
N7	Instrument Air Inlet	8 mm	Quick Connect	6-8	1	Ambient
N8	Electrical Supply	32A / 400 VAC	IEC 309 CEE	-	-	Ambient

Dimensions (mm)

Net	L: 2000	W: 800	H: 1922
Transport	L: 2160	W: 960	H: 2050

Weight (Kg)

Net Empty	Operational	Transport
650	750	830