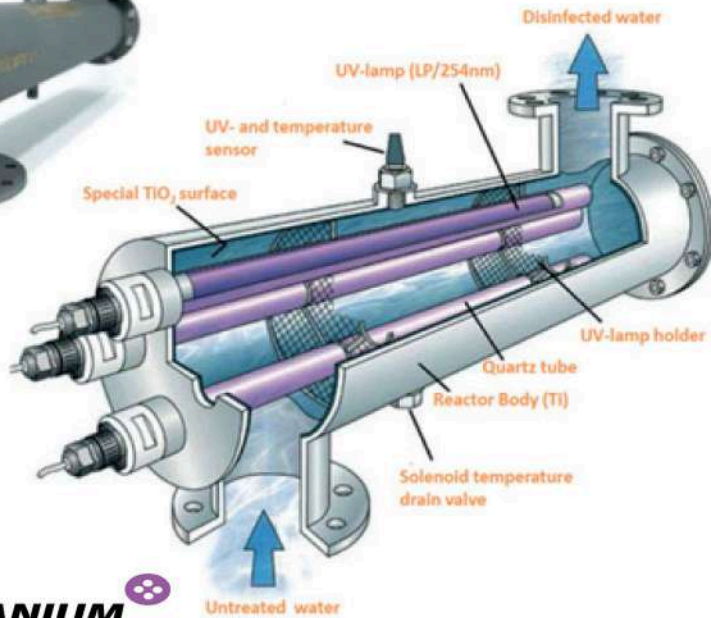




# Enwa Process

## Filtration - Disinfection - Water Conditioning





**h2o.TITANIUM**  
Fresh Radicals

# Enwa AOP

## Advanced Oxidation Process

Cost effective and environmentally friendly gatekeeper solution for disinfection of potable & process water

Unique reactor in single block Titanium dioxide

Disinfection by UV photolysis and hydroxyl radicals

Kills and decomposes all organic substances and water borne pollutants

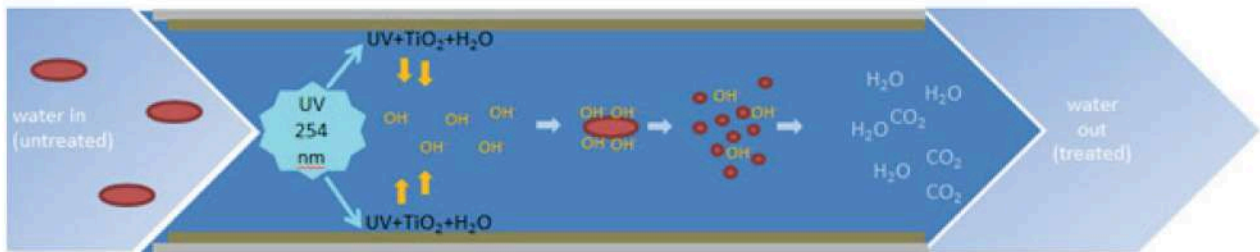
99.99% reduction of pathogenic microorganisms

No chemicals and no residual by-products

Low energy consumption

Fully automated monitoring and control system

Flow rates: 0.5 m3/h to over 1000 m3/h



UV light at 254nm hits TiO2 reactor surface and OH-radicals are created

OH- radicals seek out and destroy microorganisms

The cell structure is broken down and harmless water and CO2 is formed

# Enwa UV

Safe, effective disinfection with low operating cost

Stainless steel reactor with low pressure lamps

Dosage: 400 J/m2 @ 254 nm wavelength

Electronic control maintains effective dose rate

Max working pressure: 10 bar

Flow rates: 1.2 m3/h to 400 m3/h

## UV-C Disinfection for potable & process water





## Enwa RO

### Reverse Osmosis

Flexible RO solutions for the production of potable, process and technical water

Highly effective water production technology for a broad spectrum of applications

High pressure across a semi-permeable membrane removes particulates, salts, ions, bacteria and viruses

Single or 'Second Pass' systems

High pressure piping in 316 stainless steel

Compact skid mounted packages with pre and post treatment requirements for easy access & service

Flow meter for product, recirculation and waste water

Fully automated monitoring and control system

Hard wired and Modbus BMS options for remote enable and status output

Production: 4 m<sup>3</sup> / day to over 200 m<sup>3</sup> / day

## Enwa BIN-X

### Ultra-filtration

Chemical free bacteriological barrier for potable and process water

Cost effective capillary membrane technology for removal of particulates and bacteria

Provides protection against Legionella and E-coli

Reduced operational costs and long membrane lifespan

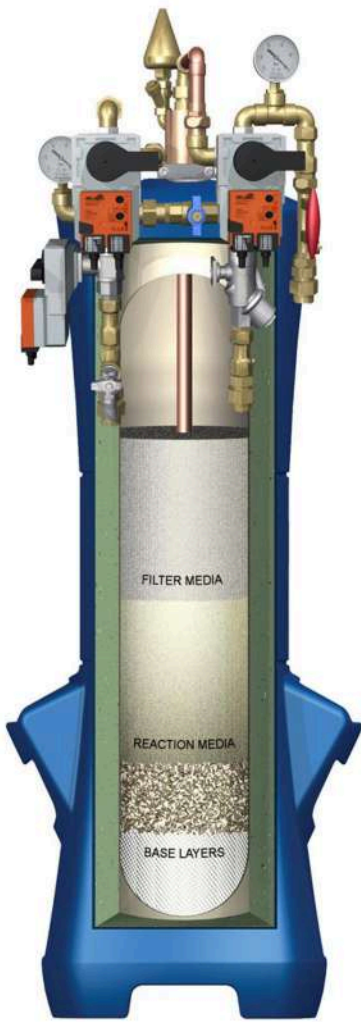
Automated flush function by PLC or electronic timer

No chemicals or residual by-products

Production: 0.8 m<sup>3</sup> /day to over 400 m<sup>3</sup> / day



"Bin-X ultra filtration systems reduce the conditions for biological growth, and accordingly also for Legionella, in water systems. The system does not add any chemicals to the water, not even during flushing"



# EnwaMatic®

## Side stream filtration & water conditioning

Cost effective and environmentally friendly technology for filtration and water treatment in closed / recirculating heating, cooling and process systems

Media bed filtration to < 5 microns with integral air separator

Automated backwash with an external water supply cleans and re-uses the filter bed with no loss of system water. No manual replacement and disposal of filter cartridges

Glycol retaining automated backwash option

Self regulating water conditioning process provides pH regulation, corrosion inhibition, scale control and restricted potential for bacterial growth

Cost effective, safe and green alternative to traditional chemical dosing of closed systems

Ideal retrofit to clean existing systems

Improves the performance, reliability and energy efficiency of closed systems

Stainless steel vessel in an insulated plastic casing

Volt free contacts for BMS connection, with Modbus RS 485 option

Max operating pressure: 10 bar, Max operating temperature: 95C

System volume capacity: 1 - 130 m3

## EnwaMatic® Bespoke

Bespoke and turn-key solutions for closed heating, cooling and process special applications

Operating temperature to 140 C

Operating pressure to 25 bar

Single vessels for system volumes to 600 m3

Multiple vessel packages to > 1500 m3

Process cooling to sub zero temperatures

Internal vessel, external casing and pipework 316 stainless

Special materials and finishes

Project specific software with graphical PLC interface

## Project specific design



ADVANCED WATER TECHNOLOGY



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