

# WATER TREATMENT SYSTEMS

## KIDRON SERIES (MINI & MAXI)

### SYSTEM SPECIFICATIONS



The Kidron series of water treatment systems are pre-engineered for easy installation and low maintenance. The system is fully automated for start-up and shut-down with level control and system flush cycles.

The system contains a series of cartridge filters to remove sedimentation and protect the membranes, followed by high pressure reverse osmosis filtration to produce purified permeate product water.

Each system is modified to client's requirements and individually tested in our workshop. All spares and parts are readily available.

Kidron series benefits:

- Fully equipped, assembled & customizable
- Expandable & skid mounted
- Low operation & maintenance costs
- Easy maintenance & servicing
- 1-year limited mechanical warranty

#### The system design:

- ✓ Water temperature: 5 - 35 °C
- ✓ Feed water TDS: <1500 ppm
- ✓ Recovery: 50 - 75%
- ✓ Operating pH: 3 - 10

#### These systems all include:

- 304 SS Frame
- UPVC LP piping, fittings and valves
- SS 304 HP piping, fittings and valves (\*)
- Permeate and concentrate flow meters
- Pressure indicators
- Low pressure switch for pump protection
- Control cabinet - fully automatic
- CIP connections integrated

SERIES MODEL	UNITS	KIDRON-MINI CT-BWRO-4040-1	KIDRON-MAXI CT-BWRO-4040-2
Nominal Permeate flow	L/h	100-250	250-500
<b>Low pressure Pump and Motor</b>			
Pump pressure	bar	3	3
Motor power	kW	0.8	0.8
Wet contact material (*)	-	SS 304	SS 304
<b>Pre-Filtration</b>			
Filter cartridge 1	micron	20	20
Filter cartridge 2	-	KDF/GAC	KDF/GAC
Filter cartridge 3	micron	5	5
<b>High pressure Pump and Motor</b>			
Pump pressure	bar	11	11
Motor power	kW	1.5	1.5
Wet contact material (*)	-	SS 304	SS 304
<b>Membranes Elements and Housings</b>			
Membranes quantity	#	1 x 4040	2 x 4040
Membrane housing	#	1	2
<b>General System</b>			
Approx. dimensions (LxWxH)	cm	70 x 70 x 165	70 x 70 x 165
Voltage	V	220	220
<b>System cost (excl. VAT)</b>	<b>ZAR</b>	<b>R120 000 to R140 000</b>	<b>R150 000 to R165 000</b>

\* Available in stainless steel 316 versions for brackish water applications of >1500 ppm TDS

**Applicable costing depends on feed water analysis and level of pre-treatment required for each application. Variations from standard conditions are customized. Contact us for a quote.**

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## VALUE ADDED SERVICES



**AMANZI**  
Quality Solutions



### WATER QUALITY AND ANALYSIS

A complete water analysis is the first step towards understanding your water treatment requirements.

We have partnered with Amanzi Quality Solutions to ensure expert sample analysis, water quality assessments and continued monitoring of water sources.

### AFTER SALES SERVICE CONTRACT

We offer after sales service contracts that can be tailored to client requirements. This typically includes regular site visits to inspect equipment and conduct cleaning cycles (CIP) on membranes. We also supply parts and consumables that are replaced as part of routine maintenance and care.

This service will ensure trouble free operation for many years.

### PLANT OPTIMIZATION

We will gladly arrange a site visit and inspection of your current water system to advise on how to get the most out of you existing equipment.

Our engineers and technicians can assist to improve operation and maintain water quality.



"UV-C, for what you don't see"

**APPROVED DISTRIBUTOR**



### STORAGE AND DISTRIBUTION

All treated water needs to be stored for periodic use.

We supply storage tanks and installations for distribution infrastructure to end-point supply.

### ULTRAVIOLET (UV) DISINFECTION

Stored water experiences algal growth and micro-organisms over time. UV disinfection in storage tanks eliminates this problem as UV light destroys micro-organisms and disinfects water without chemical addition. We supply a range of UV systems to suit all kinds of storage.

### END-POINT FILTRATION

Water can become contaminated either during storage or distribution.

We advise end-point filtration for all applications where the water will be used as drinking water.

We supply a range of under the counter end-point filters.

**CONTACT US TODAY FOR ALL YOUR WATER TREATMENT NEEDS!**

