WE PROVIDE A WIDE RANGE OF OZONE (O₃) AND ASSOCIATED TECHNOLOGY SOLUTIONS FOR WATER PURIFICATION, AIR PURIFICATION, SEWAGE AND EFFLUENT TREATMENT AND TURNKEY BOTTLING PLANTS.
Dear Valued Client

Thank you for your interest in our Gozone GWB16 series RO systems.

We take pleasure in submitting the following information on our RO unit.

General system description:

Our Gozone Water systems are great for most standard and individual commercial needs. This unit can also be customized to add chemical dosing, feed and back wash pumps, antiscalant and more.

Our Gozone Water systems are used to purify water and remove salts and other impurities. It is also capable of rejecting bacteria, sugars, proteins, particles, dyes, and other constituents that have a molecular weight of greater than 150-250 daltons.

GWBL Series Reverse Osmosis Systems are basic and economical for capacities ranging from 250lts/hr to 500lts/hr for low TDS feed water design (Feed TDS < 1500ppm).

This proposal represents the supply of the Reverse Osmosis units only.

Gozone Water is capable of supplying prefiltration based on water analyses supplied by the client to accurately assess prefiltration to the reverse osmosis unit in order to increase RO filter longevity as well as reduce operational costs.

Gozone Water also specialises in the supply of manual, semi automated & fully automated ozone disinfection systems for the treated water – Post RO – in the “clean water” tanks, as well as a complete turnkey setup for water bottling systems.

It there is any further requirement other than just the Reverse Osmosis unit, please do not hesitate to contact us directly for a full turnkey setup proposal.

Index:

1. Applications
2. Standard Features
3. System Design Criteria
4. Dimensions
5. Cost
Applications:
- Drinking water
- Food & Beverage
- Electroplating
- Boiler Feed Water
- Domestic use
- Petrochemical industry
- Process Water
- Waste water reuse
- Agriculture
- Pretreatment of EDI or Mixed Bed

Benefits
- Basic and Economical
- Individually Tested
- Skid Mounted
- Low Operation & Maintenance Costs
- Components Easily Accessible
- Easy Maintenance and Servicing
- Pre-Plumbed Wired and Assembled
- 1-Year Limited Warranty
Standard Features

Cartridge Filtration
- Housing: 10” Big Blue
- Sediment filter: 5 Micron
  - Big Blue
  - Quantity: 1 pc

Control system
- Relay & timer control
- Tank level control
- High pressure protection

Membrane Elements and Housings
- Membrane model: TW30-4040
- Membrane manufacturer: Filmtex
- Membrane rejection: 99.0-99.6%
- Housing Spec:
  - FRP, 300psi, End port

Solenoid valve
- Feed Solenoid Valve: SS304; 10bar

High Pressure Pump
- Type: Vertical Multi-stage Centrifugal
- Pump Material: SS304
- Connection: DIN Flange
- Pump Brand: CNP

Material of Construction
- High - pressure piping: UPVC
- Low - pressure piping: UPVC
- Frame: SS304
- Control box: IP54 (painted carbon steel)

Connection Port
- Feed Inlet Port
- Permeate Port
- Drain Port

Documentation Included
- Operation & maintenance manual
- Drawings: P&ID, Electrical diagram

Instrumentation
- Pressure gauge: Pre-filter, post-filter, pump discharge, concentrate
- Pressure switch: RO membrane inlet for high pressure cut out
<table>
<thead>
<tr>
<th>MODEL</th>
<th>GWBL250</th>
<th>GWBL500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Water TDS ¹</td>
<td>&lt;1500ppm</td>
<td>&lt;1500ppm</td>
</tr>
<tr>
<td>Nominal Perm. rate ²</td>
<td>0.25m³/hr</td>
<td>0.5m³/hr</td>
</tr>
<tr>
<td>Approx. Feed rate</td>
<td>1.5m³/hr</td>
<td>1.5m³/hr</td>
</tr>
</tbody>
</table>

### Pump and Motor

<table>
<thead>
<tr>
<th></th>
<th>GWBL250</th>
<th>GWBL500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>CNP</td>
<td>CNP</td>
</tr>
<tr>
<td>Model</td>
<td>CDLF2-13</td>
<td>CDLF2-13</td>
</tr>
<tr>
<td>Motor HP</td>
<td>(50hz)</td>
<td>(50hz)</td>
</tr>
<tr>
<td>Wet contact Material</td>
<td>SS304</td>
<td>SS304</td>
</tr>
<tr>
<td>Design flow rate ³</td>
<td>1.5m³/hr</td>
<td>1.5m³/hr</td>
</tr>
<tr>
<td>Pump pressure</td>
<td>10.8bar</td>
<td>10.8bar</td>
</tr>
</tbody>
</table>

### Membranes Elements and Housings

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membranes quantity</td>
<td>1 (single element)</td>
<td>2 (single element)</td>
</tr>
<tr>
<td>Membrane housing Qty</td>
<td>1</td>
<td>1→1</td>
</tr>
</tbody>
</table>

### Installation

<table>
<thead>
<tr>
<th></th>
<th>1&quot;BSPT or NPT</th>
<th>1&quot;BSPT or NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet</td>
<td>1&quot;BSPT or NPT</td>
<td>1&quot;BSPT or NPT</td>
</tr>
<tr>
<td>Permeate</td>
<td>1/2&quot;BSPT or NPT</td>
<td>1/2&quot;BSPT or NPT</td>
</tr>
<tr>
<td>Drain</td>
<td>NPT</td>
<td>NPT</td>
</tr>
</tbody>
</table>

### Options

¹ Treatment ability and working pressure of the RO system are dependent on feed water quality.
² Maximum permeate rate listed at temperature 25°C, Permeate rate will decreases with decreasing temperature
³ Design flow rate of the pump is the sum of Feed rate and Concentrate recycle rate

### Operating Limits

<table>
<thead>
<tr>
<th></th>
<th>°C (°F)</th>
<th>pH (Continuous)</th>
<th>Free Chlorine</th>
<th>Iron ppm</th>
<th>Manganese ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Feed Temperature</td>
<td>35 (95)</td>
<td>4 ~ 9</td>
<td>undetectable</td>
<td>&lt;0.1</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Minimum Feed Temperature</td>
<td>5 (41)</td>
<td>Minimum pH (Continuous)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Feed Pressure</td>
<td>5 (72)</td>
<td>Free Chlorine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Feed Pressure</td>
<td>2 (29)</td>
<td>Iron ppm</td>
<td></td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>Maximum TDS</td>
<td>1500</td>
<td>Manganese ppm</td>
<td></td>
<td>&lt;0.05</td>
<td></td>
</tr>
<tr>
<td>SDI</td>
<td>&lt;5</td>
<td>Organic matter ppm</td>
<td></td>
<td>&lt;1</td>
<td></td>
</tr>
</tbody>
</table>
Note: All dimensions are given in millimeters and [inches]
<table>
<thead>
<tr>
<th>Description</th>
<th>QTY</th>
<th>Cost Per Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>GWBL250 Basic compact industrial RO unit 250lts/hr production with</td>
<td>1</td>
<td>R 25 400.00</td>
<td>R 25 400.00</td>
</tr>
<tr>
<td>1 x TW30-4040 Filmtec membrane PCS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GWBL500 Basic compact industrial RO unit 500lts/hr production with</td>
<td>1</td>
<td>R 29 200.00</td>
<td>R 29 200.00</td>
</tr>
<tr>
<td>2 x TW30-4040 Filmtec membranes PCS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Prices:
- Price total excludes VAT
- Prices are ex-factory, Kya Sands, Randburg

Please Note
- You will receive complete operation and maintenance manuals with trouble shooting guides
- Roof to be installed over system and cage if installed outside to maintain warranty

Terms & Conditions
- Membranes and filters carry NO GUARANTEE - due to ever changing water quality
- All electrical Items for Industrial equipment carry a 1 year standard guarantee
- A valid invoice must be provided on claiming guarantees, within the valid guarantee period
- Gozone Water will not be held responsible for any faults resulting from client's own installations or tampering, your product guarantee becomes void if the product is installed incorrectly
- On any product faults, customer to issue Gozone Water with a valid Invoice within the guarantee period and book the product in for repairs: the repair period on any product is between 3 - 7 days
- All payments made upfront and in full settlement, money to reflect in Gozone Water’s bank account prior to product collection
- Gozone Water will not be held responsible for any damage to production transit by courier
- 1 Day Lead time from order

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W: www.gozonewater.com