Water Purification & Reverse Osmosis
(BOTTLED DRINKING WATER)

Water is a fundamental human need, yet 660 million people worldwide lack access to safe drinking water.

MAKE MONEY FROM WATER & SEA WATER

Pure Drinking Water Technology

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kzn@zhauns.com

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SHOWROOMS:

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Municipal water cost from: *R0.01c per litre
Purified Water sells for: *R2 per litre

**Water Purification Unit**

Fill from taps & sell water by the litre - Very profitable.

Example of Supermarket Water Purification Unit setup.

Purification unit that is built into this water unit

**Taps (room temperature)**

Purification process - RO (up to: *200L/hr)

**Filter & membranes:**
- Filters: Replace *3 months
  Price = *R60, (XD.25) $4.21
- Membranes: Replace *1 year
  Price = *R3300, (XD.25) $232
- Carbon filters: Replace every ±6 months
  Price = *R120, (XD.25) $8.42

**Machine size:**
L 1.0m*W 0.38m*H 1.1m
Weight: *65KG/set

Also gets rid of other harmful material in source water, such as four chlorination carbons, benzenese, hydrocarbon, agrochemical, and lead, mercury, chrome ... etc other radioactive elements

**Bigger Plants available**

**Anyone can Fill & Sell Water by the litre! Easy Business**

**MAKE MONEY FROM WATER UP TO *R2000 ($200)/DAY**

START A SMME PURIFIED DRINKING WATER BUSINESS (EAsy)

**PAY FOR WATER**

**ENJOY HEALTHY DRINKING WATER!**

**TAKE WATER HOME**

**PRODUCING HEALTHY DRINKING WATER FROM MUNICIPAL WATER/TAP**

**Bigger Plants available**

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Machines:- Purify, Municipal, Tap, Brackish, Impure, Borehole, River, Sea, Dirty & Underground water etc. & convert into pure drinking bottled water

Machines below are a guideline of what we can supply. For equipment specific to your requirements a water analysis is required from the source.

WATER PURIFICATION MACHINES

Model A

This Machine converts average impure water into drinking water

Technical Data

<table>
<thead>
<tr>
<th>Model: A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Flow Rate</td>
</tr>
<tr>
<td>Maximum Pressure Rating</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Hertz</td>
</tr>
<tr>
<td>Max Water Temperature</td>
</tr>
<tr>
<td>Min Water Temperature</td>
</tr>
<tr>
<td>Max ambient temperature</td>
</tr>
<tr>
<td>Inlet connection</td>
</tr>
<tr>
<td>Outlet connection</td>
</tr>
<tr>
<td>Height</td>
</tr>
<tr>
<td>Width</td>
</tr>
<tr>
<td>Depth</td>
</tr>
<tr>
<td>Weight approx.</td>
</tr>
</tbody>
</table>

PLASTIC BOTTLES EASILY AVAILABLE

Various Models

2700 LT HR

• Frame: Mild steel epoxy coated mounting frame.
• 1st stage: 20 micron pre filter for the removal of sediment and suspended matter.
• 2nd stage: Activated carbon block of the removal of organic, chlorine and unwanted taste and odor.
• *3rd stage: 5 micron pre filter for the removal of fine sediment and suspended matter.
• 4th stage: Stainless steel Ultra Violet sterilizing unit for the eradication of bacteria, viruses, algae and spores.

Visit: www.zhauns.co.za
For polluted water *(mildly) (conditions apply)*

Model: ZRO-1000I (500L/h)
Commercial type (Reverse Osmosis)

Capacity (Pure water): 500L/h (25°C)
Dimensions: 1900x900x1900 mm
RO system recovery: 50-75%
Ro working power: AC 220V/380V
RO system remove salt: 98.5%
RO system power: 2.75KW
Treat water 1000 PPM to WHO standard

System design basis
- (1) Raw water quality:  
  (base on client water report)
- TDS <1000ppm
- Iron <0.2ppm
- Total hardness <100ppm
- SDI <5

- Produce water flow meter: 0.5M3/h
- water temperature: 25°C
- Product water quality: WHO drinking water standard

**Line Process of illustration**

- For polluted water (mildly)
- Conditions apply
- Design may vary

**Capacity of pure water:** 500L/H 25°C
**General power:** 2.75KW
**Electrical power:** AC 220V / 380V 3P 50Hz (Client to supply power supply requirements)
**RO membranes:** USA ULP 4040 2 items
**Multi-phases pump:** CDL-2-180/2.2KW 1 item
**Beforehand filter (sand and carbon):** Stainless Steel 304 material Ф200×1000 2 items
**PP sediment membranes filter:** Ф90×1000 2 items
**Booster pump:** CHL-2-30/0.55KW 1 item
**Active carbon filter:** 30kg
**Quartz sand filter:** 60kg
**Out size of main machine:** 1700×710×1700mm

Any additional pumps & tanks needed *(Enquire)*

---

**>Showrooms:**

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Model C

- Model: ZRO-1000I (1200L/h)
- Commercial type (Reverse Osmosis)
- Capacity (Pure water): 1200L/h (25°C)
- Dimensions: 1900x900x1900 mm
- RO system recovery: 50-75%
- Ro working power: AC 220V / 380V
- RO system remove salt: 98.5%
- RO system power: 3.75KW
- Treat water 1000 PPM to WHO (World Health Organization) standard

**A. System design basis**

1. (1) Raw water quality: (base on client water report)
   - TDS <1000ppm
   - Iron <0.2ppm
   - Total hardness <100ppm
   - SDI <5

2. (1) produce water flow meter: 1.2M3/h water temperature :25°C (2) Product water quality: WHO (World Health Organization) drinking water standard

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity of pure water</td>
<td>1200L/H</td>
</tr>
<tr>
<td>General power</td>
<td>3.75KW</td>
</tr>
<tr>
<td>Electrical power</td>
<td>AC 220V/380V 3P 50Hz (Client to supply power supply requirements)</td>
</tr>
<tr>
<td>RO membranes</td>
<td>USA ULP40 6 items</td>
</tr>
<tr>
<td>Multiphases pump</td>
<td>CDIA-1603.3KW 1 item</td>
</tr>
<tr>
<td>Beforehand filter (sand and carbon)</td>
<td>Stainless Steel 304 material RO300-1000 2 items</td>
</tr>
<tr>
<td>PP sediment membrane filter</td>
<td>Φ90×1000 4 items</td>
</tr>
<tr>
<td>Booster pump</td>
<td>BLC700.75KW 1 item</td>
</tr>
<tr>
<td>Active carbon filter</td>
<td>40kg</td>
</tr>
<tr>
<td>Quartz sand filter</td>
<td>75kg</td>
</tr>
<tr>
<td>Out size of main machine</td>
<td>1700×710×1700mm</td>
</tr>
</tbody>
</table>
Model D
For heavily polluted water (conditions apply)

Model: ZBWRO-1000I (500L/h)
With water softener (Brackish water Reverse Osmosis)
Capacity (Pure water): 500L/h (25°C)
Dimensions: 2000x1000x2000 mm
RO system recovery: 50-75%
RO working power: AC 220V/380V
RO system remove salt: 98.5%
RO system power: 2.75KW
Treat water 5000 PPM to WHO standard

A. System design basis
1. (1) Raw water quality: (base on client water report)
   TDS <5000ppm
   Iron <3ppm
   Total hardness <500ppm

2. (1) produce water flow meter: 0.5M3/h  water temperature: 25°C
(2) Product water quality: WHO drinking water standard

Design may vary

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity of pure water:</td>
<td>500L/H 25?</td>
</tr>
<tr>
<td>General power:</td>
<td>2.75KW</td>
</tr>
<tr>
<td>Electrical power:</td>
<td>AC 220V / 380V 3P 50Hz (Client to supply power supply requirements)</td>
</tr>
<tr>
<td>RO membranes:</td>
<td>USA BW30-4040 2 items</td>
</tr>
<tr>
<td>Multiphase pump:</td>
<td>CD12-180/2.2KW 1 item</td>
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<tr>
<td>Beforehand filter (sand and carbon)</td>
<td>FRP material Ø300×1650 2 items</td>
</tr>
<tr>
<td>Water softener system</td>
<td>FRP material Ø300×1650 1 item</td>
</tr>
<tr>
<td>PP sediment membranes filter</td>
<td>Ø90×1000 2 items</td>
</tr>
<tr>
<td>Booster pump:</td>
<td>BLC700.55KW 1 item</td>
</tr>
<tr>
<td>Active carbon filter:</td>
<td>50kg</td>
</tr>
<tr>
<td>Quartz sand filter:</td>
<td>150kg</td>
</tr>
<tr>
<td>Out size of main machine:</td>
<td>2000×1000×2000 mm</td>
</tr>
</tbody>
</table>

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Model: ZBWRO-1000I (1200L/h)
With water softener system (Brackish water Reverse Osmosis)
Capacity (Pure water): 1200L/h (25°C)
Dimensions: 2200x1000x2000 mm
RO system recovery: 50-75%
Ro working power: AC 220V/ 380V
RO system remove salt: 98.5%
RO system power: 3.75KW
Treat water 5000 PPM to WHO standard

A. System design basis
1. (1) Raw water quality: (base on client water report)
   TDS <5000ppm
   Iron <3ppm
   Total hardness <500ppm
2. (1) produce water flow meter: 1.2M3/h water temperature: 25°C
   (2) Product water quality: WHO drinking water standard

Design may vary

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity of pure water</td>
<td>1200L/h</td>
</tr>
<tr>
<td>General power</td>
<td>3.75KW</td>
</tr>
<tr>
<td>Electrical power</td>
<td>AC 220V /380V 50Hz (Client to supply power supply requirements)</td>
</tr>
<tr>
<td>RO membranes</td>
<td>USA BW30-4040 4 items</td>
</tr>
<tr>
<td>Multi-phases pump</td>
<td>CDL4-160/3.0KW 1 item</td>
</tr>
<tr>
<td>Beforehand filter (sand and carbon)</td>
<td>FRP material φ300×1650 2 items</td>
</tr>
<tr>
<td>Water softener system</td>
<td>FRP material φ300×1650 1 item</td>
</tr>
<tr>
<td>PP sediment membranes filter</td>
<td>φφ×1000 4 items</td>
</tr>
<tr>
<td>Booster pump</td>
<td>BL C700/7KW1 item</td>
</tr>
<tr>
<td>Active carbon filter</td>
<td>50kg</td>
</tr>
<tr>
<td>Quartz sand filter</td>
<td>150kg</td>
</tr>
<tr>
<td>Out size of main machine</td>
<td>2200×1000×2000 mm</td>
</tr>
</tbody>
</table>

Beforehand filter

Mainly get rid of big molecule impurities like suspended substance, and so on.

Active carbon filter

Mainly get rid of organic substance, chlorine residue, smell, and color in the raw water.

PP sediment membrane filter

Mainly get rid of suspended substance, rust, small molecule, get prepare for the next procedure.

Quartz sand filter

Supply enough water pressure for the RO membrane.

Get rid of iron, organic substance, colloid, and bacteria in water.

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**SEA WATER DESALINATION PLANT**
(TURN SEA WATER INTO DRINKING/BATHING WATER)

<table>
<thead>
<tr>
<th>Equipment name</th>
<th>Type</th>
<th>Capacity (pure water)</th>
<th>Total Weight</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse osmosis seawater desalination</td>
<td>RO-1000L(1000L/h)</td>
<td>1000L/H / 20,000L/D</td>
<td>1000 KG</td>
<td>3000<em>1000</em>1900 (mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(25°C)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note**
- TDS of feed water ≤ 40000ppm
- Product drinkable water quality: according WHO standard
- Power: 8.3 KW

**Flow Chart**

Sea water → Raw water pump → Multi media filter → PP sediment filter → Seawater high pressure pump → Desalination RO System → Living pure water

---

**BIGGER DESALINATION LINES**

**Enquire**
EXAMPLES OF MOBILE INDUSTRIAL WATER PURIFICATION/RO UNITS

PRICES & SPECS ENQUIRE

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WATER STORAGE TANKS
Stainless Steel available

FAQ:
1) Q: How long do filters last?
   A: Depends on the quantity of the feed water.
   On good quality Borehole or municipal water filters can last a few months.
2) Q: How long do carbon filters last?
   A: Every 2-3 months regardless of flow rate.
3000L LIQUID STORAGE TANK
Food Grade S/S (316)

NOTES
1. TANK MATERIALS 316 STAINLESS STEEL 1.6mm THICK
2. MANHOLE DIAMETER 400mm
3. LOOSE LEG SUPPORTS MANUFACTURED FROM MILD STEEL
4. LIQUID INLET 2" BSP
5. LIQUID DISCHARGE 2" BSP BALL VALVE
6. LIQUID HEIGHT BY SIGHT (CLEAR PVC TUBE)
7. VACUUM BREAK VALVE FITTED
8. TANK DIAMETER 1194mm
9. TANK CAPACITY 3000L NOMINAL

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<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>DRAWING NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAINLESS STEEL AISI316/304 1.6t</td>
<td>21082016</td>
</tr>
</tbody>
</table>
3000L LIQUID STORAGE TANK
Non- Food Grade S/S (304)

NOTES
1. TANK MATERIALS 316 STAINLESS STEEL 1.6mm THICK
2. MANHOLE DIAMETER 400mm
3. LOOSE LEG SUPPORTS MANUFACTURED FROM MILD STEEL
4. LIQUID INLET 2" BSP
5. LIQUID DISCHARGE 2" BSP BALL VALVE
6. LIQUID HEIGHT BY SIGHT (CLEAR PVC TUBE)
7. VACUUM BREAK VALVE FITTED
8. TANK DIAMETER 1194mm
9. TANK CAPACITY 3000L NOMINAL
## Price List

**Prices subject to change**

All prices Excl. VAT

Dollar ($) prices are subject to fluctuation (change)

---

<table>
<thead>
<tr>
<th>Item Description</th>
<th>R Price</th>
<th>$ Price</th>
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</thead>
<tbody>
<tr>
<td>Water Purification Table</td>
<td>R 31 899.00</td>
<td>$2 599.00</td>
</tr>
<tr>
<td>Water purification machine (Model A)</td>
<td>R 14 999.00</td>
<td>$1 199.00</td>
</tr>
<tr>
<td>Water purification machine (Model B)</td>
<td>R 98 299.00</td>
<td>$7 899.00</td>
</tr>
<tr>
<td>Water purification machine (Model C)</td>
<td>R 142 399.00</td>
<td>$11 399.00</td>
</tr>
<tr>
<td>Water purification machine (Model D)</td>
<td>R 136 499.00</td>
<td>$10 899.00</td>
</tr>
<tr>
<td>Water purification machine (Model E)</td>
<td>R 201 999.00</td>
<td>$16 199.00</td>
</tr>
<tr>
<td>Sea Water desalination plant</td>
<td>R 587 099.00</td>
<td>$46 999.00</td>
</tr>
<tr>
<td>Bottle blowing semi-auto (Model A - 2 cavity)</td>
<td>R 251 999.00</td>
<td>$20 199.00</td>
</tr>
<tr>
<td>Bottle blowing semi-auto (Model B - 1 cavity)</td>
<td>R 283 799.00</td>
<td>$22 699.00</td>
</tr>
<tr>
<td>Bottle washing, filling, capping &amp; label line (Model B)</td>
<td>R 300 499.00</td>
<td>$23 699.00</td>
</tr>
<tr>
<td>Air to water machine - 20L P/Day</td>
<td>R 16 699.00</td>
<td>$1 299.00</td>
</tr>
<tr>
<td>Air to water machine - 50L P/Day</td>
<td>R 27 799.00</td>
<td>$2 199.00</td>
</tr>
<tr>
<td>Water storage tank (Plastic) - Vertical (2'500L)</td>
<td>R 3 899.00</td>
<td>$299.00</td>
</tr>
<tr>
<td>Water storage tank (Plastic)- Vertical (10'000L)</td>
<td>R 14 999.00</td>
<td>$1 199.00</td>
</tr>
<tr>
<td>Water storage tank (Plastic) - Vertical (15'000L)</td>
<td>R 32 999.00</td>
<td>$2 599.00</td>
</tr>
<tr>
<td>Water storage tank (Plastic)- Vertical (20'000L)</td>
<td>R 50 999.00</td>
<td>$4 099.00</td>
</tr>
<tr>
<td>Ozone machine for 1'000L Tank (3 gram)</td>
<td>R 16 799.00</td>
<td>$1 299.00</td>
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<tr>
<td>Ozone machine for 3'000L Tank (10 gram)</td>
<td>R 25 099.00</td>
<td>$1 999.00</td>
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<tr>
<td>Ozone machine for 5'000L Tank (15 gram)</td>
<td>R 29 399.00</td>
<td>$2 299.00</td>
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<tr>
<td>Ozone machine for 10'000L Tank (32 gram)</td>
<td>R 125 799.00</td>
<td>$10 099.00</td>
</tr>
<tr>
<td>Storage Tanks Stainless Steel (316) - 3'000L (Food Grade)</td>
<td>R 64 999.00</td>
<td>$5 199.00</td>
</tr>
<tr>
<td>Storage Tanks Stainless Steel (304) - 3'000L (Non-Food Grade)</td>
<td>R 59 999.00</td>
<td>$4 799.00</td>
</tr>
<tr>
<td>Storage Tanks Stainless Steel (316) - 6'000L (Food Grade)</td>
<td>PRICE ENQUIRE</td>
<td></td>
</tr>
<tr>
<td>Storage Tanks Stainless Steel (304) - 6'000L (Non-Food Grade)</td>
<td>PRICE ENQUIRE</td>
<td></td>
</tr>
</tbody>
</table>

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**Contact Information**

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