Deionisers/Demineralisers

High Purity Water for Industry

BSDI SERIES

PACKAGED FILTRATION & DEIONISATION SYSTEMS FOR HIGH PURITY WATER PRODUCTION FOR GENERAL INDUSTRY

TWO MODELS, TWO FLOW RATES
22.0 litres per minute
&
100.0 litres per minute

FEATURES

• Inlet pressure limiting valve and isolation valve
• Automatic Carbon Filter to remove chlorine, chloramines, surfactants and organics
• Automatic Twin Column Cation and Anion Deioniser for < 10.0 ms/cm water quality
• Nuclear Grade deioniser resins
• Conductivity meter and display for continuous water quality monitoring
• Automatic shut-off via stainless steel solenoid valve if water quality exceeds set-point
• Single push-button Deioniser regeneration
• Filter and Deioniser Controls front-mounted for easy access
• LED lights to indicate system status
• Mains ON/OFF switch
• Stainless steel test points for Carbon Filter, Cation and Anion tanks water testing
• Inlet pressure gauge
• Rinse valve to rinse deioniser to quality
• Plumbed with non-corroding UPVC pipe, fittings and valves
• Mounted on Stainless Steel frame and PVC sheet backboard.

GENERAL

SYSTEM RATED PRESSURE:
600 kpa

SYSTEM OPERATING PRESSURE:
Backwash & regeneration minimum 350 kpa

PLUMBING:
25mm Inlet, 25mm Treated water, 20mm Wastewater

OPTIONAL:
Wastewater Neutralising Tank

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DOWDENS
PUMPING & WATER TREATMENT
www.dowdens.com.au
The **MIX-SDI** follows in the same pride and functionality as the top selling **MIX-2BD** but with added features for demanding applications. With a Hydrogen cycle Cation exchanger as a final polisher, the **MIX-SDI** produces high purity water with low sodium leakage in a continuous counter-current configuration. As in the **MIX-2BD**, feed water enters the packed bed upward in the service cycle and downwards in the regeneration cycles. In the upward service cycle, the resin bed is lifted up in a compacted state. As the water progressively comes into contact with the more regenerated resin, high quality water production is ensured with lower ionic leakage.

The **MIX-SDI** is packed with narrow bead size resin which provides excellent fluid hydraulics and minimizes channeling during regeneration. The resultant improved resin kinetics also means less mechanical and hydraulic damage to the resin beads during service and regeneration. Narrow bead size resin, thus has lower susceptibility to fouling.

The **MIX-SDI** also features *layered bed* in each resin tank as standard. Layered beds are an efficient and economical alternative to employing separate vessels for strong and weak resin within the same tank. Layered beds have higher chemical efficiency and total capacity. In anion layered beds, optimal silica removal is achieved. Effluent from the **MIX-SDI** is largely neutral due to the equivalence of cations to anions. As acid and caustic are both introduced into the packed bed at the same time during regeneration, the effluent generated is mostly neutral.

The **MIX-SDI** is compact in design. It is mounted fully on a skid with corrosion resistant frame. Mounted together are 2 VSD driven stainless steel multi-stage pumps that provides sufficient pressure and flow during service and regeneration.
Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TYPICAL FLOW m³/hr</th>
<th>PIPE SIZE mm</th>
<th>RESIN VOLUME litres</th>
<th>CHEMICALS USED/REGEN litres</th>
<th>EFFLUENT VOL./REGEN m³</th>
<th>TREATED WATER m³ approx</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cation</td>
<td>Anion</td>
<td>33% HCL</td>
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<tr>
<td>SDI-1621</td>
<td>4.0</td>
<td>10</td>
<td>250</td>
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<tr>
<td>SDI-2130</td>
<td>6.0</td>
<td>15</td>
<td>400</td>
<td>80</td>
<td>65</td>
<td>7.6</td>
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<tr>
<td>SDI-2436</td>
<td>8.0</td>
<td>20</td>
<td>550</td>
<td>120</td>
<td>80</td>
<td>10.0</td>
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<tr>
<td>SDI-3042</td>
<td>11.0</td>
<td>20</td>
<td>800</td>
<td>145</td>
<td>110</td>
<td>15.0</td>
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<tr>
<td>SDI-4248</td>
<td>16.0</td>
<td>25</td>
<td>1100</td>
<td>170</td>
<td>150</td>
<td>20.0</td>
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</table>

Dimensions

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SDI-1621</th>
<th>SDI-2130</th>
<th>SDI-2436</th>
<th>SDI-3042</th>
<th>SDI-4248</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2.0 m</td>
<td>2.4 m</td>
<td>3.8 m</td>
<td>4.5 m</td>
<td>6.0 m</td>
</tr>
<tr>
<td>Width</td>
<td>1.0 m</td>
<td>1.5 m</td>
<td>2.0 m</td>
<td>2.2 m</td>
<td>2.5 m</td>
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<tr>
<td>Height</td>
<td>2.1 m</td>
<td>2.1 m</td>
<td>2.3 m</td>
<td>2.3 m</td>
<td>2.3 m</td>
</tr>
<tr>
<td>Weight*</td>
<td>1200 Kg</td>
<td>1400 Kg</td>
<td>1800 Kg</td>
<td>2200 Kg</td>
<td>3300 Kg</td>
</tr>
</tbody>
</table>

Plant Requirements
1. Chlorine and organic free feed-water, preferably with Activated Carbon pre-treatment
2. Clean, dry compressed air @ 7 bar
3. 3-phase power with neutral 50/60 Hz

Treated Water Qualities
1. Typical conductivity: 3 - 7 μS/cm (*) based on 150 ppm feed-water TDS.
2. pH: 5.5 to 7.5
3. Pressure drop @ service flow: 2.5 bar
All Systems Supplied

- Process & instrument drawing
- Electrical control drawing
- Equipment layout drawing
- Electrical power drawing
- Valve operation sequence table
- PLC ladder diagram
- Flow-meter values table
- Equipment parts list
- Electrical component list
- Full operation manual
- Start-up & trouble-shooting guide

Main Equipment

<table>
<thead>
<tr>
<th>1</th>
<th>CONTROLS</th>
<th>4</th>
<th>RESIN TANK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fully automatic:</strong> PLC with HMI touch panel for user selectable values</td>
<td><strong>Material of construction:</strong> FRP Composite Tank with P.E. inner lining</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Modes:</strong> Fully Auto, Semi Auto or Manual</td>
<td><strong>Max. Working Temp:</strong> 50°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Analyzer:</strong> Conductivity &amp; optional flow totalizer</td>
<td><strong>Max. Working Pressure:</strong> 6.9 bar (100psi).</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pumps:</strong> All pumps VSD driven</td>
<td><strong>Openings:</strong> 4” UN threaded or 6” flanged top &amp;</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pressure gauges:</strong> 0 - 100psi range</td>
<td>5</td>
<td>STORAGE TANKS</td>
<td></td>
</tr>
<tr>
<td><strong>Level switches:</strong> 24 volt, PVC chemical resistant</td>
<td><strong>Material:</strong> Polyethylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2 FRONTAL PIPING</strong></td>
<td><strong>HCl &amp; NaOH:</strong> Min. 2 regeneration volumes</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Piping material:</strong> Schedule 80 PVC</td>
<td><strong>Filtered Water Tank:</strong> Min. 1 hour service flow-rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Valve:</strong> Air operated diaphragm valve</td>
<td><strong>Regeneration Tank:</strong> Min. 1 regeneration volume</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flowmeters:</strong> 5 nos. each with flow control valve</td>
<td><strong>Demineralised Water Tank:</strong> Min. 2 hour service flow-rate volume</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3 PUMPS:</strong> Grundfos multistage stainless steel</td>
<td>6</td>
<td>STRUCTURE: Epoxy coated carbon steel</td>
<td></td>
</tr>
</tbody>
</table>

Standard Features

- Fully packed resin tanks give higher throughput compared to conventional systems
- Counter current regeneration provides better water quality compared to co-current design
- Short regeneration time
- Fully Automatic featuring the ‘No Operator’ Mode
- Small footprint with compact skid mounted arrangement
- Packaged into modular system with 7 models and multiple options for every application
- Fully automatic, PLC based
- High chemical efficiency
- Conductivity meter with digital display
- Flow-meters for feed stream, acid and caustic and slow rinse
- Visible and audible alarm for poor water quality and faults
- Supplied complete with stainless steel pump with VSD
- Minimal site installation

OPTIONS

- Media Sediment Filtration pre-treatment
- Activated Carbon pre-treatment
- Point-of-use system with pumps, UV sterilizer and cartridge filters
- Macroporous Resin
- Flow Totalizer
- Installed standby pump

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The **M•IX-2BD** series are complete packaged 2-bed demineraliser systems that incorporate proven counter-current configuration in a packed resin bed.

In the **M•IX-2BD**, feed water enters the packed bed upward in the service cycle and downwards in the regeneration cycles. In the upward service cycle, the resin bed is lifted up in a compacted state. As the water progressively comes into contact with the more regenerated resin, high quality water production is ensured with lower ionic leakage.

The **M•IX-2BD** is packed with narrow bead size resin which provides excellent fluid hydraulics, has lower susceptibility to fouling and minimizes channeling during regeneration. The resultant improved resin kinetics also means less mechanical and hydraulic damage to the resin beads during service and regeneration. **Macroporous** resin can also be supplied as option where required.

The effluent from the **M•IX-2BD** is largely neutral due to the equivalence of cations to anions. As acid and caustic are both introduced into the packed bed at the same time during regeneration, the effluent generated is mostly neutral.

The **M•IX-2BD** system is compact design. It is fully mounted on a skid with corrosion resistant frame. A stainless steel multi-stage pump is included to provide sufficient pressure & flow during service and regeneration.
Specifications

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<thead>
<tr>
<th>MODEL</th>
<th>TYPICAL FLOW m²/hr</th>
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<th>RESIN VOLUME litres</th>
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<tbody>
<tr>
<td>2BD-18</td>
<td>2.3</td>
<td>40</td>
<td>150 200</td>
<td>35 20</td>
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<td>33.0</td>
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<tr>
<td>2BD-21</td>
<td>3.4</td>
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<td>1250 1400</td>
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<td>220.0</td>
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2. Clean, dry compressed air @ 7 bar
3. 3-phase power with neutral 50/60 Hz

Treated Water Qualities
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3. Pressure drop @ service flow: 2.5 bar
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<td></td>
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**Standard Features**

- Fully packed resin tanks give higher throughput compared to conventional systems
- Counter current regeneration provides better water quality compared to co-current design
- Short regeneration time
- Fully Automatic featuring the ‘No Operator’ Mode
- Small footprint with compact skid mounted arrangement
- Packaged into modular system with 7 models and multiple options for every application
- Fully automatic, PLC based
- High chemical efficiency
- Conductivity meter with digital display
- Flow-meters for feed stream, acid and caustic and slow rinse
- Visible and audible alarm for poor water quality and faults
- Supplied complete with stainless steel pump with VSD
- Minimal site installation

**OPTIONS**

- Media Sediment Filtration pre-treatment
- Activated Carbon pre-treatment
- Point-of-use system with pumps, UV sterilizer and cartridge filters
- Macroporous Resin
- Flow Totalizer
- Installed standby pump
Approximate litres of treated water between resin cartridge change based on the mean average conductivities from that cities principal water supply

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WTCD10H</th>
<th>WTCD20H</th>
<th>MODEL</th>
<th>WTCD10H</th>
<th>WTCD20H</th>
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<td>Mackay</td>
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<td>770</td>
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<td>605</td>
<td>Melbourne</td>
<td>950</td>
<td>2870</td>
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<tr>
<td>Brisbane – Nth Pine</td>
<td>305</td>
<td>915</td>
<td>Newcastle</td>
<td>575</td>
<td>1740</td>
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<td>4855</td>
<td>Perth</td>
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<td>Sydney</td>
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<td>160</td>
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<tr>
<td>Hobart</td>
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<td>2440</td>
<td></td>
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</table>

WATER QUALITY:
10.0 Megohm to *18.3 megohm resistance equivalent to 0.1µS cm⁻¹ to 0.055µS cm⁻¹ respectively

WATER QUALITY MONITOR:
Hylite Monitor with 200k ohm endpoint. Monitor lights glows green for good quality, red with an audible alarm for poor quality. Powered by 240v/12v wall-mount transformer supplied.

TYPICAL APPLICATIONS:
AUTOCLAVES · HUMIDIFIERS · LABORATORIES · DENTAL · REVERSE OSMOSIS POLISHERS · BATTERY FILLING STATIONS - FORKLIFTS, GOLF CARTS

SYSTEM STAGES

Stage 1: INLET PLUMBING  Includes 12mm (1/2") brass compression tee for connection to water supply · Backflow prevention device · Pressure limiting valve to protect system from excess water pressure · Shut-off valve to facilitate cartridge changes · 1/4" high pressure tubing with quick-connect fittings

Stage 2: FILTRATION  A premium 10 micron extruded carbon block filter cartridge substantially reduces sediment, organics, chlorine and chloramines. Protects the demineraliser resins from degradation and premature fouling.

Stage 3 & 4: DEIONISATION  Two inline deioniser cartridges containing high quality nuclear grade mixed bed ion-exchange resin ensures high purity water up to 18 meg resistivity (0.5ms/cm)

Stage 5: CONDUCTIVITY MONITOR  Treated water passes through a water quality monitor. The monitor displays a green light for good quality water, or a red light and audible alarm for poor quality water, indicating a resin or cartridge change is due. The monitor uses safe 12 volt power from the wall-mount transformer supplied.

Stage 6: DISPENSING  1/4” tubing with ball valve and quick-connect fittings included for dispensing deionised water.

Cartridge Options:  Supplied with refillable resin cartridges. Exhausted resin cartridges can be disposed of or washed and refilled. Cartridge refill packs, bulk resin packs for large users, or complete replacement cartridges with are available.

Specifications:  *Litres per minute flow rate dependant on raw water quality and inlet water pressure
Maximum Flow Rate: CD10  3.0 lpm*  CD20  7.0 lpm*  Total Resin Quantity: CD10  1.3 litres  CD20  4.0 litres
Installed Dimensions (cms):  CD10: 50W x 15D x 50H  CD20: 50W x 15D x 72H
Deionisers/Demineralisers
Low Conductivity/TDS, High Purity Water Systems

FLOW-THRU SERIES

ECONOMICAL INLINE, FLOW-THROUGH NUCLEAR GRADE MIXED BED ION EXCHANGE RESIN SYSTEMS FOR HIGH PURITY WATER PRODUCTION

WATER QUALITY:
10.0 Megohm to 18.3 megohm resistance equivalent to 0.1µS cm⁻¹ to 0.055µS cm⁻¹ respectively

TYPICAL APPLICATIONS:
AUTOCLAVES · HUMIDIFIERS · LABORATORIES · PHARMACEUTICAL · COSMETICS MANUFACTURE · REVERSE OSMOSIS POLISHERS · PRINTING PRESSES · LASER CUTTERS · WATER CUTTERS · JEWELLERY MANUFACTURE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Resin Qty -litres</th>
<th>*Litres Capacity @</th>
<th>**Max Flow lpm</th>
<th>Dimensions (cms)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>100 ms/cm</td>
<td>200 ms/cm</td>
<td>300 ms/cm</td>
</tr>
<tr>
<td>WTD06</td>
<td>6</td>
<td>3,840</td>
<td>1,920</td>
<td>1,440</td>
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<td>11,520</td>
<td>5,760</td>
<td>4,320</td>
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<td>18,500</td>
<td>9,250</td>
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<td>40</td>
<td>25,520</td>
<td>12,760</td>
<td>9,570</td>
</tr>
<tr>
<td>WTD10</td>
<td>56</td>
<td>35,720</td>
<td>17,860</td>
<td>13,395</td>
</tr>
<tr>
<td>WTD12</td>
<td>75</td>
<td>47,840</td>
<td>23,920</td>
<td>17,940</td>
</tr>
<tr>
<td>WTD13</td>
<td>94</td>
<td>59,980</td>
<td>29,990</td>
<td>22,490</td>
</tr>
<tr>
<td>WTD14</td>
<td>138</td>
<td>88,040</td>
<td>44,020</td>
<td>33,015</td>
</tr>
</tbody>
</table>

Standard systems are supplied with a Hylite Water Quality Monitor with 200k ohm endpoint. Monitor lights glow green for good quality, red with an audible alarm for poor quality. Powered by 240v/12v wall-mount transformer supplied. *Litres of treated water before exhaustion, based on inlet water ms/cm conductivity shown. **Dependant on inlet supply flow and pressure. Higher flow rates may be used for polishing and/or recirculation loops. NOTE: *To achieve consistent 18.3 megohm quality a second smaller demineraliser ‘polisher’ can be used. E.g Model Di12K followed by Di6K.
PACKAGED FILTRATION & DEIONISATION SYSTEM FOR HIGH QUALITY WATER FOR POWDER COATING RINSE TANKS

FEATURES:
- Large capacity 150 litre filter and deioniser tanks 355mm dia x 1650mm height
- Automatic Filter to remove sediment, dirt, rust and metal particles
- Automatic Carbon Filter to remove chlorine, chloramines, surfactants and organics
- Automatic Twin Column Cation/Anion Deioniser for < 10.0 ms/cm water quality
- Conductivity meter and display for continuous water quality monitoring
- Single push-button Deioniser regeneration
- Filter and Deioniser Controls mounted on display board for easy access
- LED lights to indicate system status
- Mains ON/OFF switch
- Pump over-ride switch
- Test points for Carbon Filter, Cation and Anion tanks mounted on display board for easy access
- Inlet pressure gauge
- 316 Stainless Steel recirculation pump. Optional Press-Control with run-dry protection
- Pump suction strainer to prevent impeller fouling
- Automatic switching to town water for filter backwashing and deioniser regeneration
- Plumbed with non-corroding UPVC pipe, fittings and valves
- Mounted on heavy duty poly pallet with Stainless Steel frame and PVC sheet backboard.
- Uses standard 240v 50 hz power
- Four simple plumbing connections: 1. Pump suction 2. Treated water return line 3. Wastewater line 4. Rinse tank dump line

SYSTEM FLOW RATE:
Variable up to 50.0 lpm with 20.0 lpm preferred flow rate for consistent high quality water.

SYSTEM RATED PRESSURE: 700kpa

SYSTEM OPERATING PRESSURE:
Recirculation 285kpa
Backwash & regeneration minimum 350 kpa
PACKAGED COMBINATION REVERSE OSMOSIS SYSTEM WITH DUAL-PASS MIXED-BED DEIONISER POLISHER SYSTEM STAGES

Stage 1: Inlet plumbing kit comprising 12mm brass compression tee for connection to water supply, backflow prevention device, pressure limiting valve to protect system from excess water pressure, shut-off valve to facilitate cartridge changes, 1/4” high pressure tubing with quick-connect fittings

Stage 2: 5 micron poly spun filter cartridge removes sediment

Stage 3: Premium 10 micron extruded carbon block filter cartridge reduces organics, chlorine and chloramines. Protects the reverse osmosis membrane from degradation and premature fouling

Stage 4: Reverse Osmosis (RO) membrane removes over 95% of the Total Dissolved Solids (TDS) in the water

Stage 5: The RO treated water is stored in a plastic pressurised storage tank. The tank delivers pressurised water to the deioniser. The tank can be located on top of, or underneath, the bench top

Stages 6 & 7: Water is then passed through a dual stage (2) mixed bed ion-exchange deioniser where the remaining 5% TDS is reduced to approximately 18 meg resistivity (0.5ms/cm). Both stages contain high quality nuclear grade mixed bed ion-exchange resin cartridges. Long cartridge life is assured by the RO pre-treatment

Stage 8: Treated water passes through a water quality monitor. The monitor displays a green light for good quality water, or a red light and audible alarm for poor quality water indicating a resin or cartridge change is due. The monitor uses safe 12 volt power from the wall-mount transformer supplied

Cartridge Options: The deionisers are supplied with refillable resin cartridges. Exhausted resin cartridges can be disposed of or washed and refilled. Cartridge refill packs, bulk resin packs or complete replacement cartridges with resin are available

Specifications:
- Maximum Daily Production: 160 litres
- Maximum Flow Rate: 3.0 lpm*
- Total Resin Quantity: 1.3 litres
- Installed Dimensions (mms): 725W x 500H x 175D

*(Litres per minute flow rate daily production dependant on raw water quality, inlet water pressure and water temperature)
Designed with the Highest Efficiency membranes in the industry and proprietary MemShell Carbon Cartridges, the Hydrant RO delivers up to 3500 litres of treated water per day at a 420kpa line pressure!

NO ELECTRICITY REQUIRED

HYDROPONICS LABORATORY

RESIDENTIAL DRINKING WATER

CAR WASH FINAL RINSE FOOD SERVICE AQUATICS

STERILISING EQUIPMENT DENTAL & MEDICAL WATER

FEATURES

HIGH PURITY WATER APPLICATIONS

Model: WTROHYDRANT

<table>
<thead>
<tr>
<th>CARBON FILTER</th>
<th>Two 4” x 21” MemShell Coconut Carbon Cartridges, each rated to 378.5 kilolitres chlorine reduction at 2.0mg/l chlorine</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRE-TREATMENT</td>
<td></td>
</tr>
<tr>
<td>RO MEMBRANES</td>
<td>Two 4” X 21” TFC HF5 Membranes. High flow membranes for 98.5% (nominal), 96% (minimum) rejection of impurities</td>
</tr>
<tr>
<td>MEMBRANE HOUSINGS</td>
<td>Two 4” x 21” Axion PVC housings feature patented locking device and requires no tools for servicing</td>
</tr>
<tr>
<td>ACCUMULATOR TANK</td>
<td>Reduces TDS creep to supply consistent quality water on call</td>
</tr>
<tr>
<td>FRAME</td>
<td>White powder-coated corrosion resistant aluminium frame</td>
</tr>
<tr>
<td>FLUSH VALVE</td>
<td>Manual flush valve for cleaning RO membranes and extending service life</td>
</tr>
<tr>
<td>CASTERS</td>
<td>System supplied with castors for roll-away service convenience</td>
</tr>
<tr>
<td>COMPACT</td>
<td>Pre-plumbed with easy access to membranes and componentry</td>
</tr>
<tr>
<td>RECOVERY</td>
<td>High Recovery rate 1:1 ratio</td>
</tr>
</tbody>
</table>

1Actual performance is dependant on raw water TDS, water temperature and adequate pre-treatment. 2Up to 2000 mg/l TDS
HYDRANT SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Litres/Day approx 3,785 @ 25°C @ 500 mg/l TDS</th>
<th>Dimensions 360mm d x 585mm l x 510mm h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight 23kgs</td>
<td>Feed Connection 3/8”</td>
</tr>
<tr>
<td>Product Connection 3/8”</td>
<td>Waste Connection 3/8”</td>
</tr>
<tr>
<td>System Recovery 50%</td>
<td>RO Membranes 2</td>
</tr>
</tbody>
</table>

SYSTEM OPERATING SPECIFICATIONS

<table>
<thead>
<tr>
<th>Minimum Feed Pressure 420 kpa</th>
<th>Maximum TDS 2000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Operating Pressure 550 - 700 kpa</td>
<td>Maximum Hardness 100.0 mg/l</td>
</tr>
<tr>
<td>Maximum System Pressure 700 kpa</td>
<td>pH Range 3-11</td>
</tr>
<tr>
<td>Minimum Feed 5.3 litres per minute</td>
<td>Maximum Temperature 40°C</td>
</tr>
<tr>
<td>Maximum Feed 11.5 litres per minute</td>
<td>Minimum NaCl rejection 96%</td>
</tr>
</tbody>
</table>

HYDRANT CONFIGURATION

- CONNECTION MANIFOLD
- CARBON FILTERS (2)
- RO MEMBRANES (2)
- ACCUMULATOR TANK
- SHUT-OFF VALVE (mounted under frame)
INSTALLATION & START UP - refer to pictures below

- Connect feed water tube to the port labeled “IN”
- Connect R.O. drain line to the port labeled “DRAIN”
- Connect the product water port marked “OUT” to your tank or dispensing device
- Turn the Flush Valve to the “closed” position
- Turn on the water supply
- At first start-up or after membrane replacement, disconnect the ‘OUT’ tube and allow the RO to run for at least 15 minutes to flush preservative chemical from the membrane
- Reconnect tube to ‘OUT’ fitting
- The RO is now ready for use

MEMBRANE FLUSH FEATURE

MEMBRANE FLUSH

To prevent the RO membrane from premature fouling and prolong membrane life it is recommended to perform a membrane flush every 2 weeks:

- Turn the Flush Valve to the open position.
- Allow water to run for approximately 5-10 minutes
- Close the Flush Valve