OVIVO LE 8 RO SYSTEM
25 TO 35 M³/HR

APPLICATIONS
Boiler Feedwater
‘Waste to Energy’ plants
Food and Beverage
Chemical production plants
Any application requiring a standard designed RO water system

PRODUCT DESCRIPTION
Result of many years of experience, the Ovivo LE 8 range combines compactness, ease of use and high treatment performance.

Equipped with low energy 8” reverse osmosis membranes, the Ovivo LE 8 RO systems are controlled by a PLC with colour touchscreen and an intuitive menu allowing the adjustment of all the operating parameters. The critical parameters such as the conductivity and the flow rates are distinctly displayed together with adjustable alarm thresholds.

As an option, the Ovivo LE 8 RO systems can be completed with pretreatment systems integrated on a stainless steel skid and compatible to the raw water specifications (pre-filtration, softening, chemical conditioning, dechlorination…)

An independant Clean-In-Place (CIP) equipment is also available.

SPECIFICATIONS
1µ pre-filtration with isolating valve and upstream/downstream pressure gauges
Automatic inlet butterfly valve
Adjustable low inlet pressure switch
Multi-stage vertical pump
Valve to adjust the service pressure with pressure gauge
Fiberglass membrane housings
Low energy 8” membranes
Conductivity probe
Stainless steel concentrate and recirculation globe valves
Flush solenoid valve
Impulse turbine to measure the permeate flow rate
Impulse turbine to measure the concentrate and recirculation flow rates
PVC Connection valve for the CIP
Butterfly valve to drain permeate line
PLC with colour touchscreen 10”
Electrical enclosure 400V+GND

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### OPERATING PARAMETERS

**Feed pressure min/max**  
2/5 bars (30/72 PSI)

**Maximum temperature**  
37°C (98°F)

**TDS max**  
< 2000ppm

**Iron+Manganese concentration**  
<0.1ppm

**SDI15 (fouling index)**  
< 3

**Organic matter**  
< 3ppm

**Free chlorine**  
<0.1ppm

**Minimum rejection**  
99.1%

### TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>OVIVO LE 8-25</th>
<th>OVIVO LE 8-30</th>
<th>OVIVO 8-35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permeate flow rate at 15°C for 500 ppm*</td>
<td>25 m³/h (110 GPM)</td>
<td>30 m³/h (132 GPM)</td>
<td>35 m³/h (154 GPM)</td>
</tr>
<tr>
<td>Concentrate flow rate</td>
<td>8.3 m³/h (36.5 GPM)</td>
<td>10.0 m³/h (44 GPM)</td>
<td>11.7 m³/h (51.5 GPM)</td>
</tr>
<tr>
<td>Feed flow rate</td>
<td>33.3 m³/h (146.6 GPM)</td>
<td>40.0 m³/h (176 GPM)</td>
<td>46.7 m³/h (205.6 GPM)</td>
</tr>
<tr>
<td>Recovery</td>
<td>75%</td>
<td>75%</td>
<td>75%</td>
</tr>
<tr>
<td>Number of membranes</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>Service pressure</td>
<td>12 bar (174 PSI)</td>
<td>12 bar (174 PSI)</td>
<td>12 bar (174 PSI)</td>
</tr>
<tr>
<td>Permeate counter pressure</td>
<td>0.5 bar (7.25 PSI)</td>
<td>0.5 bar (7.25 PSI)</td>
<td>0.5 bar (7.25 PSI)</td>
</tr>
<tr>
<td>Power (kW)</td>
<td>18.5</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Electrical supply</td>
<td>3 x 400V</td>
<td>3 x 400V</td>
<td>3 x 400V</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>6000 mm (236.22&quot;)</td>
<td>6000 (236.22&quot;)</td>
<td>6000 (236.22&quot;)</td>
</tr>
<tr>
<td>Depth</td>
<td>1100 (43.3&quot;)</td>
<td>1100 (43.3&quot;)</td>
<td>1100 (43.3&quot;)</td>
</tr>
<tr>
<td>Height</td>
<td>2100 (82.67&quot;)</td>
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</tr>
</tbody>
</table>

* The permeate flow rate varies with the water temperature, approximately 3% per °C.