

# REVOTEC

## Reverse Osmosis / Nanofiltration



## The Application

The Reverse Osmosis is a physical principle for the concentration of diluted materials in liquids by using pressure to reverse the natural osmosis.

The liquid which contains the material to be removed is separated by a semi permeable membrane to the liquid the concentration will be increased.

The pressure of the to be treated liquid must be high enough to stop and reverse the natural force of the osmosis process in order to pass the membrane to the liquid which contains the increasing concentration. The treated water called permeate and is practically free of all impurities, salt molecules and bacteria.

- **Compact Design**  
with low energy consumption
- **Optional Process Visualisation**  
Visualize and store continuously the process on the local PLC or at an upper SCADA System
- **Optional Validation / Qualification**  
for the use in pharmaceutical or Highly Purified Watertreatment Systems

### Technical Data

<b>Capacity</b>	1 - 500 m <sup>3</sup> /h
<b>Residual TDS</b>	App. 1 mg/l
<b>Inlet Pressure</b>	0-8 bar
<b>Operating Temperature</b>	1-60°C
<b>Cleaning</b>	CIP up to 125°C
<b>Material</b>	1.4301 / 1.4404 / Epoxy / PP
<b>PLC</b>	Siematic S7
<b>Optional</b>	Pre-Filtration Softener Ultra Filtration Electro De-Ionisation Storage and Loop System



- **Hygienic**

in design and fully integrated in the CIP process

- **Flexible**

by using a local PLC or fully integrated in the overall process

- **Full automatic**

controlled by high sophisticated process measurement

- **Energy-Efficient**

by using high end components





Unsere weltweiten Partner für Vertrieb und Service  
Our worldwide partners for sales and service  
[www.centec.de](http://www.centec.de)

Centec Germany (Hauptsitz/Headquarter)  
Centec Gesellschaft für Labor-  
und Prozessmesstechnik mbH  
Wilhelm-Röntgen-Str. 10  
D-63477 Maintal / Frankfurt  
Tel +49 (0) 6181 1878 0  
Fax +49 (0) 6181 1878 50  
[info@centec.de](mailto:info@centec.de)  
[www.centec.de](http://www.centec.de)

*UK representative and distributor:*  
Protecnica Solutions Limited.  
Stalworths, The Street,  
Great Tey,  
Colchester,  
Essex, CO6 1JS,  
United Kingdom

[www.centec-systems.co.uk](http://www.centec-systems.co.uk)  
[info@centec-systems.co.uk](mailto:info@centec-systems.co.uk)  
Tel: +44 (0)1206 211 921 Ext. 22

Centec Czech Republic  
Centec automatika spol  
s.r.o.  
Pekarská 8  
CZ-15500 Praha  
Tel.: +420 257 084 111  
Fax: +420 235 518 701

Centec USA  
Centec LLC  
P.O. Box 820  
Germantown,  
WI 53022-0820  
Tel.: +1-262 251-8209  
Fax: +1-262 251-8376

Centec Brasil  
Centec América Latina  
Av. das Américas, 500 Bl  
13/313  
22640-100 Rio de Janeiro,  
Tel./Fax:  
+55 21 2494 5849

Centec Serbia  
Centec Predstavništvo  
u Beogradu  
Bogdana Zerajica 34  
11090 Belgrad, Srbija  
Tel./Fax:  
+381 11 358 11 24