

## Water-Treatment-Plant – Reverse-Osmose

### Overview Water-Treatment-Plant with ca. 110 m<sup>3</sup> ph

Complete Water-Treatment-Plant according to the Reverse-Osmose-Procedure incl. De-Ironing in very good condition.

The plant is complete serviceable; not included is a buffer for de-ironed water.

Plant is shut down; not dismantled.

The plant is built in 1998 with 3 units à 28 m<sup>3</sup> ph Permeate-capacity; extended in 2003 with 1 unit of 28 m<sup>3</sup> constructed in the same way.

De-Ironing	4 x 7,5 m <sup>3</sup>	98...03	Delpenau
Dosing and Pre-Filtration		1998	
Reverse-Osmose-Plant	4 x 28 m <sup>3</sup> ph Permeate	98...03	RWT
CIP-Plant		1998	

### Price

Price:

Basis for negotiation



Membrane-Elements

## De-Ironing Plant

De-Ironing- and De-Maganising-Vessels incl. build-in Filter-nozzles, Air- and static mixer; all needed measuring- and controlling-equipment.

De-Ironing Plant	140 m <sup>3</sup> ph	98...03	Delpenau
De-Ironing-Vessels	Quantity: 4 Volume: à 7.550 l Ø 1.800 Height: 2.500/3.700 Filternozzles pV: 208		
Connections	Scaveng. Air: DN50 Rawwater: DN100 Purewater: DN80 De-Aeration: DN50		
Wateranalysis (primary)	Rawwater: Fe: 3,50 mgpl Mn: 0,80 mgpl	De-Ironed: < 0,10 mgpl < 0,05 mgpl	



De-Ironing Plant

### Dosing , CO<sub>2</sub>-Supply and Pre-Filtration

Pre-Filter with wounded PP-candles, Dosing Plant and CO<sub>2</sub>-Dosage.  
CO<sub>2</sub> and Antiscalent will be added to the pre-conditioned rawwater.



**Dosing**



**Pre-Filtration**

## Reverse-Osmose-Plant

Reverse-Osmose-Plant existing of 4 identical units incl. all needed measuring- and controlling equipment.

The Plant is able to be used by a frequent-controlled operation – the output can be adjusted to the needed capacity.

Reverse-Osmose-Plant	4 x 28 m <sup>3</sup> ph Permeate	98...03	IVA/RWT
Membrane	Polysulfon / Polyamid		
<b>Technical Details</b>			
- Permeatecapacity:	4 x 20...28 m <sup>3</sup> ph		
- Rawwater:	4 x 25...35 m <sup>3</sup> ph		
- Yield:	80 %		
- Working Pressure:	max. 25 bar		
- Inlet Pressure:	5 bar		
- Membrane-Module:	6 pcs		
<b>Wateranalysis (primary)</b>			
	Inlet Osmose:	Permeate:	
pH-value:	5,9...6,9	4,6...5,9	
Ca:	239 mgpl	7,3 mgpl	
Mg:	26 mgpl	1,2 mgpl	
Na:	58 mgpl	1,1 mgpl	
K:	2 mgpl	0,1 mgpl	
SO <sub>4</sub> :	362 mgpl	9,9 mgpl	
Cl:	94 mgpl	0,1 mgpl	
NO <sub>3</sub> :	1 mgpl	0,1 mgpl	
P:	0,25 mgpl	0,0 mgpl	



2 Units of the Reverse Osmose-Plant