

EUROWATER

A GROUP OF CO-OPERATING EUROPEAN WATER TREATMENT SPECIALISTS

CUSTOMER INFORMATION

EUROTEC L4-2UP REVERSE OSMOSIS PLANT

- DEMINERALIZED WATER AT INLET WATER PRESSURE
- REDUCES THE ORGANIC CONTENT OF THE WATER
- SUITABLE FOR MINOR WATER CONSUMPTION
- EASY-TO-CHANGE MEMBRANE FILTERS
- ELECTRONIC QUALITY CONTROL
- CONTINUOUS OPERATION
- FOR WALL MOUNTING



APPLICATION FIELDS

- FEEDWATER FOR HUMIDIFYING
- WATER FOR RINSE AND WASHING PROCESSES
- RINSE WATER FOR DISH WASHING MACHINES
- FEEDWATER FOR CUTTING COOLANT
- PUBLIC AND PRIVATE LABORATORIES

TECHNICS

The EuROtec reverse osmosis plant is made of spiral-wound thin film membranes of polyamide. The plant carries out two processes simultaneously. The reverse osmosis process demineralizes the water, and the ultra filtration process reduces the content of organic matters, pyrogenes and bacteria in the water.

DEMINERALIZATION

By means of the inlet water, the raw water is led into the osmosis filters. The pressure forces 30-50% of the water through the membrane filters that retain 95-99% of the salts in the water. The concentrated salts are run to drain.

POLISHING

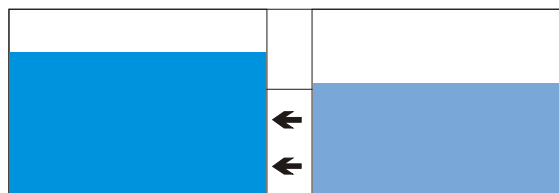
If demineralized water with a neutral pH-value or with a very low conductivity is required, it is necessary to polish the water in a mixed-bed ion exchange plant (see separate leaflet).

QUALITY CONTROL

The conductivity of the water is displayed on the conductivity meter. During standstill the water in the membrane filters acquires a high conductivity. However, the conductivity decreases rapidly, as soon as the plant is returned to operation and thus supplies water again.

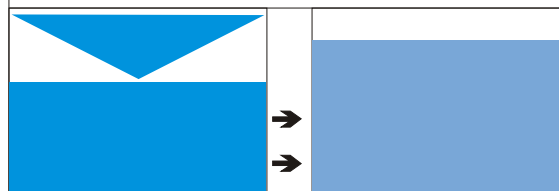
CHANGING OF MEMBRANE FILTERS

Depending on the hardness and the content of carbonic acid in the inlet water, the membrane filters might clog and therefore eventually must be changed. Often it turns out to be sufficient only to change the membrane filter placed at the end of the series, as the risk of precipitation is biggest there.



OSMOSIS

If an osmosis membrane separates two liquids with a different salt concentration, the water from the liquid with the low concentration will pass through the membrane until the salt concentration is equalized on each side of the membrane.



REVERSE OSMOSIS

If pressure is applied to the liquid with the high salt content, the water current is reversed and the demineralized water is forced through the membrane.

SPECIFICATIONS

Flow * 30-50 l/h

Connections:

Inlet DN15 / 20 mm PVC

Outlet DN15 / 20 mm PVC

Drain DN15 / 20 mm PVC

Measures:

Height 1200 mm

Length 560 mm

Depth 140 mm

* Operating pressure: 3 bar.

Salt content of the feedwater: 500 mg/l.

Temperature: 10° C.

Recovery: 30-50%.



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