ENVIROGEN
WATER TECHNOLOGIES

RO 2700

Applications

With years of experience we are able to solve and optimise various tasks involving reverse osmosis, e.g.

- Autoclaves
- Car washing
- District heating plants
- Food industry
- Humidifiers
- Cooling water
- Component washing
- Boiler water and steam production
- Printing houses
- Evaporators
- Process water
- Nursery gardens
- Chemical industry
- Laboratories
- Waste water recovery

Options

- Anti-scalant dosing
- Membrane monitoring
- Internet PLC access
- Clean in place (CIP) unit
- GSM modem for remote monitoring
- Automatic conductivity and or timer controlled membrane flushing

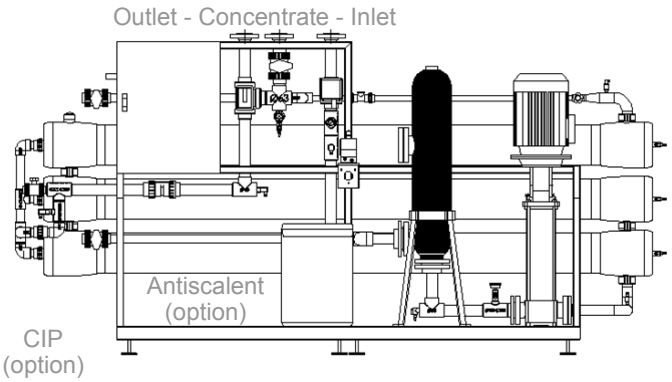
Reverse Osmosis

Reverse Osmosis is a membrane process where water is pumped at high pressure through a semi permeable membrane. The membrane pore structure is very fine and allows the passage of water whilst at the same time rejecting the dissolved salts. The Reverse Osmosis process will reduce the concentration of dissolved salts by up to 99% when new. The permeate (pure water) production rate is normally 70% to 75% of the feed flow with the concentrate (waste water) being 25% to 30%, these figures are based on a softened water feed.

The purity of the permeate depends on the quality of the feed water and the efficiency of any pre treatment required. Most UK water are below 350ppm dissolved solids and typical water qualities produced will be in the range 10 to 30 µs/cm. The water quality is measured on the outlet by a conductivity monitor and this instrument can be linked to a dump valve to ensure out of specification water is diverted to drain. The purified water will need to be collected in a suitable treated water tank prior to being pumped to the process or further treatment.

Reverse osmosis will also remove bacteria, pyrogens and yeast cells, however, to keep the water in this clean state further treatment may be required. The RO-2700 range includes PLC with HMI panel with trending and data logging capability.

Technical Specification



Technical Specification

Technical Data	RO-2710	RO-2720	RO-2730	RO-2740	RO-2750	RO-2760	RO-2780
Capacity, m3/h* (± 15%)	6	8	10	12	14	16	20
Maximum recovery, %*	75	75	75	75	75	75	75
Salt rejection, %*	>98	>98	>98	>98	>98	>98	>98
Typical water quality, µS/cm*	<30	<30	<30	<30	<30	<30	<30
Electrical supply, V/Hz	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50
Power consumption, kW**	11	11	11	15	15	15	15
Inlet pipe diameter, (mm)	50	50	50	50	50	50	50
Concentrate outlet diameter, (mm)	50	50	50	50	50	50	50
Permeate outlet diameter, (mm)	50	50	50	50	50	50	50
Feed water pressure, min/max, bar	3/7	3/7	3/7	3/7	3/7	3/7	3/7
Dimensions, L x W x H, mm	1015 x 3800 x 1800	1015x 3800 x 1800	1015 x 3800 x 1800	1015 x 3800 x 1800	1015 x 3800 x 1800	1015 x 3800 x 1800	1015 x 3800 x 1800
Maximum water temp ºC	25	25	25	25	25	25	25

*Nominal, based on a potable feed water supply with a maximum total dissolved solids level of 500 mg/l, a minimum temperature of 10ºC and a 3 bar inlet pressure.
** Without CIP-unit

UK Office:

Envirogen Water Technologies
Unit 14a Bromyard Road Trading Estate
Bromyard Road, Ledbury
Herefordshire HR8 1NS
Tel: +44 (0) 1531 636328
E: info@envirogengroup.com
www.envirogengroup.com

Italian Office:

Fluxa Filtri S.p.A
Viale De GASPERI,88/B
20017
Mazzo di Rho
Milano
Tel: +39 (0)2 93959.1
E: info@fluxafiltri.com
www.fluxafiltri.com

USA Office:

Envirogen Technologies Inc
PO Box 5419
Kingwood, TX 7735-5419
Tel: +1 877.312.8950
E: info@envirogen.com
www.envirogen.com