

Reverse Osmosis System osmotron®



The Osmotron is a compact, low level integrated reverse osmosis unit designed to provide demineralised water continuously or intermittently.

- designed for maximum value and performance
- unique low height of 730mm for low level under-counter or integrated installation
- on-board treated water tank and delivery pump
- automatic membrane rinsing for extended membrane life and low maintenance
- LCD display of treated water quality
- rugged brushed stainless steel cabinet
- two models available - 135 and 220 litre/hour maximum output at 10°C.

HOW THE OSMOTRON WORKS

- pre-softened feedwater is filtered by the 5µ replaceable cartridge filter
- the water is delivered to the Reverse Osmosis modules by a rotary vane high pressure pump
- the demineralised water stream is collected in the on-board tank and delivered to the point of use by a pressure switch controlled transfer pump
- a level switch controls the actual production rate of treated water
- the effluent stream containing the eliminated dissolved minerals is directed to drain
- treated water quality is continuously monitored and displayed on the front panel, along with feedwater and pre-module pressure
- after every production event the module is automatically flushed by clean feedwater before the unit goes to standby.

TECHNICAL INFORMATION

Treated water production rate

	Osmotron I	Osmotron II
10°C	135l/h	220l/h
15°C	160l/h	260l/h

Treated water tank net capacity: 75 litres

Supply to service at 3 bar: Up to 300l/h

Electrical requirements: 230V, 50Hz

Required inlet water pressure: 2-4 bar

Acceptable water temperature: 5-25°C

Water connection sizes:

Inlet: 1/2"
 Outlet: 1/2"
 Drain: 40mm

Dimensions: Osmotron 1 Osmotron II

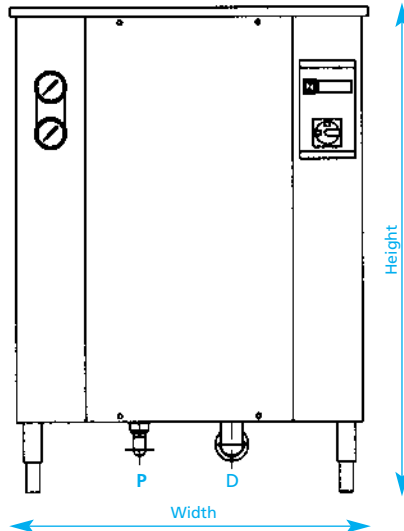
Width	775mm	775mm
Depth	625mm	625mm
Height	870mm*	1040mm*

* maximum height including lid

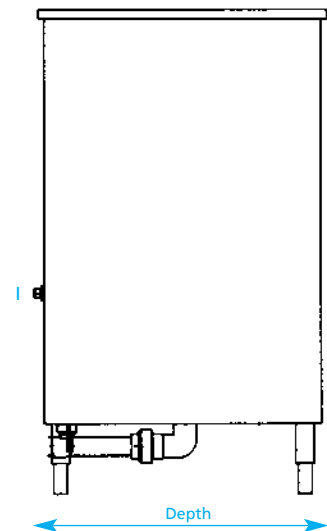
The Osmotron is designed to be supplied with fully softened make-up water. If this is not available Lubron will be pleased to advise on suitable equipment.

GENERAL ARRANGEMENT

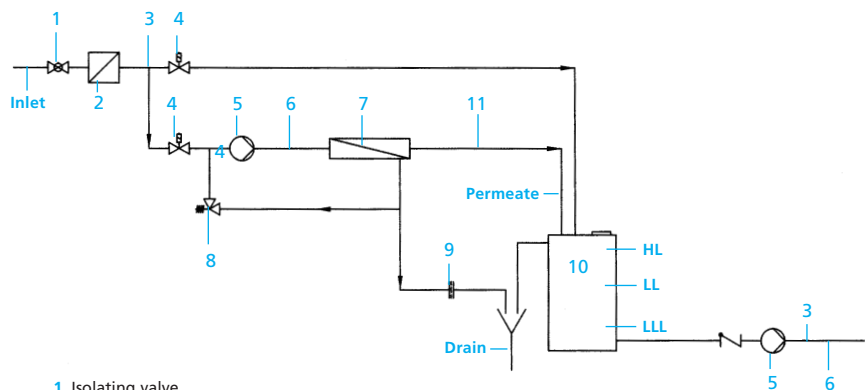
Front elevation



Side elevation



GENERAL SCHEMATIC



1. Isolating valve
2. Cartridge filter
3. Pressure switch
4. Solenoid valve
5. Pump
6. Pressure gauge
7. Membrane module
8. Recycle control valve
9. Drain control valve
10. Treated water tank
11. Conductivity cell

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