

INDRO 401 Packaged Reverse Osmosis Systems

An economical way to obtain pure water from brackish water

The scarcity of good quality water has increased dependence on groundwater sources. Brackish or saline water is unfit for drinking or industrial use unless properly treated. Reverse osmosis, a membrane desalination process increasingly used worldwide, purifies brackish water for drinking and industrial purposes.

INDRO 401, with its reverse osmosis membrane technology, produces water with very low dissolved solids, which is also free from particulate, colloidal and organic matter.

Features

- Compact unit with robust mild steel powder coated frame
- Efficiently removes up to 95% of Total Dissolved Solids (TDS) or salinity to produce water that is clear and pleasant to taste
- Capable of handling water with TDS levels up to 1500 ppm
- On-line device to monitor treated water quality
- Built-in safety features to protect high-pressure pump & membranes
- Capacity of the model is 200 l/h

Advantages

- The most economical & efficient method for removal of dissolved solids
- Easy to operate with smaller footprint
- Can handle fluctuations of TDS in the feed water
- Easy availability of spares and service
- Short delivery period



Applications

- Hygienic drinking water for hotels, restaurants, hospitals and residences
- Mineral water plants
- High purity water for hospitals in dialysis units
- As a retrofit to demineralisation plants in industries to reduce use of regeneration chemicals

Technical Specifications

Model	INDRO 401
Average Product Flow (l/h)	200
Average Recovery (%)	30
Maximum Permissible TDS in Feed (ppm)	1500
Average TDS Removal (%)	Between 90 to 95
Minimum Feed Pressure required at pump inlet (kg/cm)	More than 1.0
Power Supply	220/230 V 50 Hz, Single phase
Drive Motor (hp/rpm)	0.75/1450
Dimensions (Width x Depth x Height)	550 mm x 440 mm x 1455 mm

Note: Higher recovery and ability to treat water with higher TDS levels is possible. Contact us with detailed raw water analysis for confirmation.

Feed water limiting conditions:

- Temperature: 35° C maximum
- Pressure: 2 - 3 kg/cm² (30 - 45 psi)
- Salinity: Up to 1500 ppm. Please contact us for higher TDS values.
- Silt Density Index: (SDI) < 4.0
- Oil and Grease: Absent
- Iron & Manganese: 0.1 ppm, maximum (total) pH 4 - 10

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch offices for current product specifications.



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