

## **INDROMATIC**

### **Upgraded Packaged Reverse Osmosis Systems**

Scarcity of clean water has increased our dependence on ground water sources. However, this water is unfit for drinking or for industrial use unless properly treated. Reverse osmosis, a membrane desalination process increasingly used worldwide, purifies brackish water for drinking and industrial purposes.

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

### **Features**

- Housed in a well designed cabin modelled mild steel epoxy painted skid
- FRP moulded control & wet panels for longer life with added protection
- Operation control by microprocessor
- Auto or manual control of entire RO system
- GSM based one way remote monitoring system
- MIMIC for the complete RO operation
- Built in safety features to protect high pressure pump & membranes
- Additional protection (Dry run / Overload / Single Phase) for high pressure pump
- Provision for auto dosing
- Metering and control of RO system, based on product water quality
- Online sensor to measure permeate flow rate and total value
- Efficiently removes up to 95% of total dissolved solids (TDS) or salinity to produce water that is clear and pleasant to taste
- Range of models with capacities from 400 - 1000 litres/h
- Capable of handling waters with TDS levels up to 2500 ppm (based on model)
- Fault condition notification by means of SMS alerts
- High level treated water tank indication to prevent overflow



### **Optional Features**

- Microprocessor based auto flushing

### **Advantages**

- The most economical & efficient method of dissolved solids removal
- Easy to start up and user friendly operation. Lesser footprints
- Can handle fluctuations of total dissolved solids (TDS) in feed water
- Easy availability of spares and service
- Short delivery periods

### **Applications**

- Providing safe drinking water for hotels, restaurants, hospitals and residences
- Mineral water plants
- Laboratory water
- Pre-treatment to deionisation system, in turn reduces chemical consumption and operating cost
- In pharmaceutical processes
- In providing water with reduced scaling potential to boilers

## Technical Data

Model	<b>INDROMATIC 402</b>	<b>INDROMATIC 403</b>	<b>INDROMATIC 404</b>	<b>INDROMATIC 405</b>
Average Product Flow (LPH)	400	600	800	1000
*Average Recovery (%)	30	30	30	30
*Maximum Permissible TDS in feed (ppm)	2500	2500	2500	2500
Average TDS Removal (%)	Between 90 to 95			
Minimum Feed Pressure required at Pump inlet (kg/cm <sup>2</sup> )	Not less than 2 .0			
Power Supply	415V/50HZ			
Motor HP /RPM	3.0/2900			
Dimensions (Width x Depth x Height x Head Room)	850 mm x 650 mm x 1630 mm x 1000 mm			

**Note:** \*Higher recovery & TDS levels are possible. Contact us with detailed raw water analysis for confirmation.  
Feed water temperature should not be above 40 degrees centigrade.

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.

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