

## **INDION® Eco MBR**

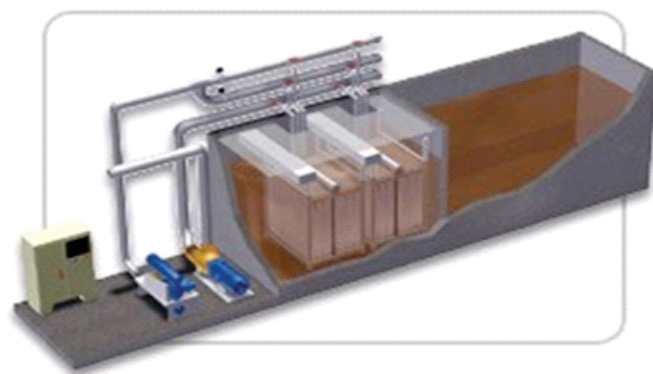
Ion Exchange has pioneered the concept of membrane bio-reactor in various configurations and operating mode for industrial and municipal applications. We have customised INDION Eco MBR technology for requirement of households and smaller capacities.

INDION Eco MBR is an extension of the proven membrane bio-reactor process designed to treat smaller capacities of effluent while producing high quality treated water for discharge and reuse without use of chemicals.

In this biological process the membranes are submerged, which aid in removal of suspended matter from activated sludge; thereby consistently producing treated water with highest possible contaminant reduction.

### **Features**

- Modular construction & design
- Single packaged unit with negligible civil construction
- Extremely compact, requires 25% of a conventional system
- Low energy consumption, max 3 kw/h for filtration
- Up to 6 log (99.9999%) removal of total coliform
- No chemicals required during treatment



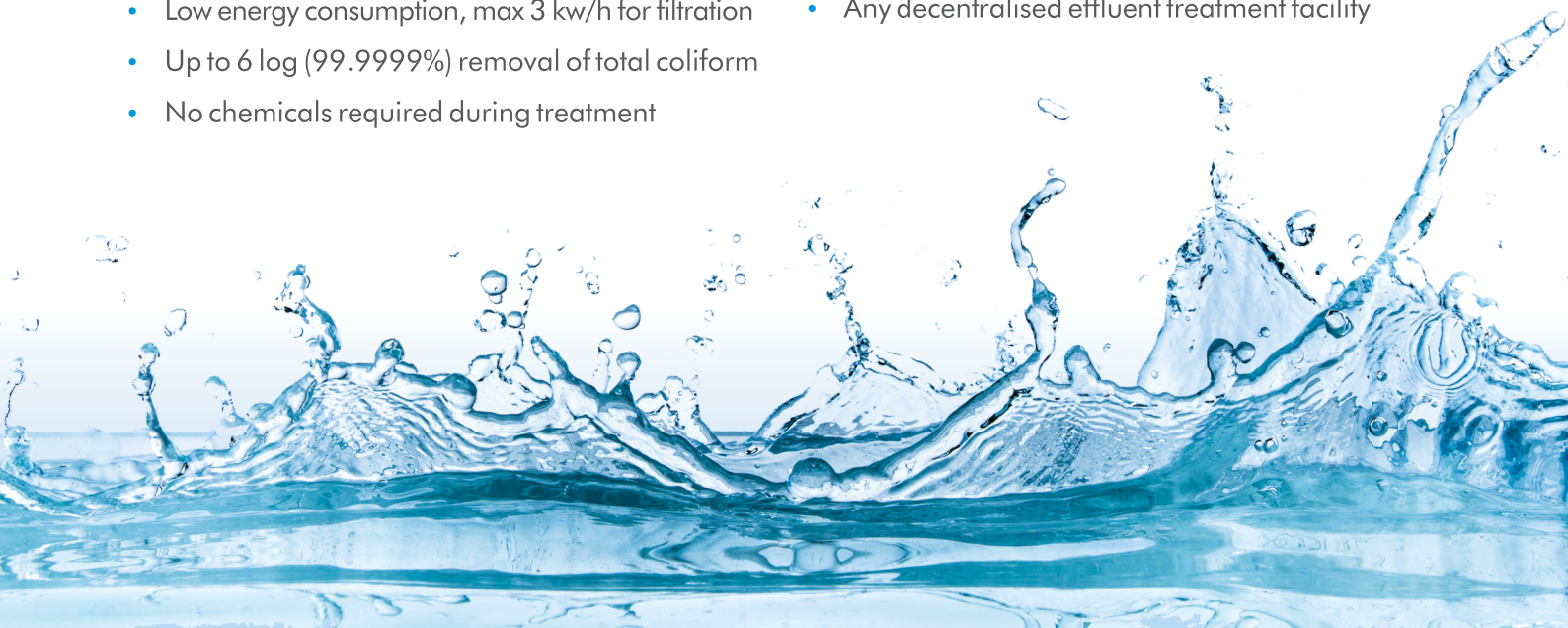
### **Advantages**

- Compact, easy to operate
- Extremely low operating cost
- Simple self-maintained system

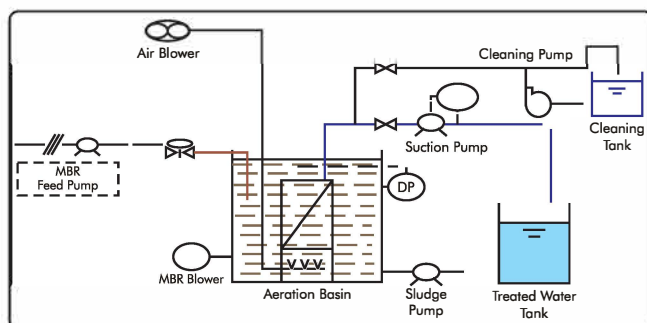
### **Applications**

Ideal for

- Individual homes
- Bungalows
- Transit camp
- Labour colony
- Construction site
- Any decentralised effluent treatment facility



## Typical Treatment Scheme



## Typical Water Characteristics:

(Domestic Effluent)

Parameters	Inlet (ppm)	Outlet (ppm)
COD	300 - 400	50
BOD	150 - 300	10
TSS	200 - 250	<5
Oil & Grease	<10	Traces
Heavy Metals	Nil	-

\*With appropriate biological design and/or chemical addition.

INDION Eco MBR is also suitable for treating industrial effluents. The treated water characteristics may vary & can be established after piloting.

## Standard Module Specifications \*\*

Modules Model Name		INDION Eco MBR 5	INDION Eco MBR 10	INDION Eco MBR 15	INDION Eco MBR 20
Standard flow (m <sup>3</sup> /day)		5	10	15	20
Housing Size	Width (mm)	1	1	1	1
	Length (mm)	2.15	3.15	4.15	5.80
	Height (mm)	1	1	1	1
	Height with hand railing & platform (m)	2.9	2.9	2.9	2.9
Working Weight (kg)		4500	6500	8700	12000
Material of construction	Housing	MS epoxy coated			
	Piping	CPVC			

\*\* Primary specifications for domestic effluent, case specific for industrial effluents.

Our state-of-the-art manufacturing facilities are ISO 9001, ISO 14001 & ISO 45001 certified.

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.

**INDION** is the registered trademark of Ion Exchange (India) Limited.



## ION EXCHANGE (INDIA) LTD.

### Corporate Office

Ion House, Dr. E. Moses Road, Mahalaxmi,  
Mumbai - 400011 | Tel: +91 22 6231 2000  
E-mail: ieil@ionexchange.co.in

### Regional and Branch Offices - CLICK HERE

Bengaluru | Bhubaneswar | Chandigarh | Chennai | Delhi  
Hyderabad | Kolkata | Lucknow | Vadodara | Vashi  
Visakhapatnam

### International Division

R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,  
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400  
E-mail: export.sales@ionexchange.co.in

### Overseas Offices - CLICK HERE

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