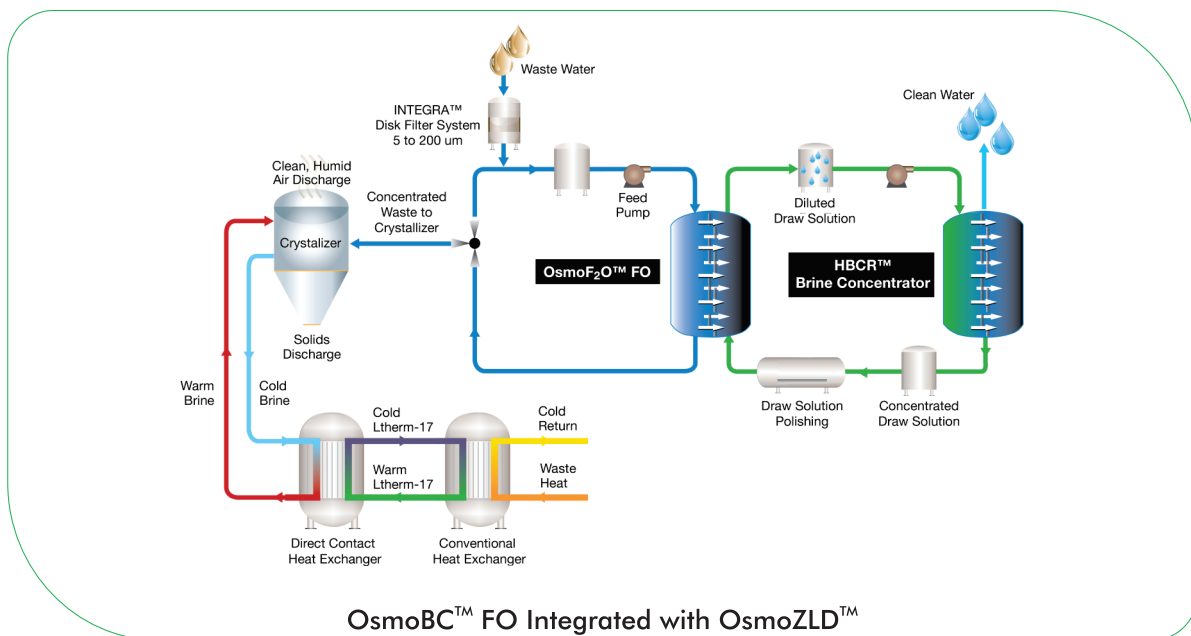


OsmoBC™ Forward Osmosis (FO)

Forward Osmosis (FO) is a 'green' process that uses a semi-permeable membrane to separate water from dissolved solids. Forward Osmosis pulls water molecules through the membrane via osmotic pressure differences and does not require an external pump or hydraulic pressure. OsmoBC™ process, which leverages OsmoF₂O™ FO membrane technology, brings forward osmosis to a wide range of industrial waste water treatment applications.



Features

- Compact modular design, flexible construction and small footprint
- System can handle:
 - High TDS (70,000 ppm – 2,00,000 ppm)
 - High COD/BOD (> 5000 mg/l / > 8000 mg/l)
- Up to 80% recovery with permeate TDS < 50 ppm
- Minimal pre-treatment with INTEGRA™ 100 micron backwashable filter
- Automatic Control
- Minimal daily cleaning requirements, saves more than 65% of cleaning costs associated with RO systems
- Low replacement and maintenance costs – OsmoF₂O™ FO and HBCR™ Brine Concentration are proven membrane technologies for many challenged waters and fluids

Applications

- **Cost-effective Zero Liquid Discharge** treatment of complex, high strength waste water from:
 - Oil and gas
 - Power industry
 - Chemical plants
 - Textile
 - Food & beverage
 - Steel
 - Mining and many more

Advantages

- Up to 90 – 95% recovery, significantly reducing ZLD and disposal cost
- Low capex cost - eliminates extensive pretreatment



OsmoBC™ System

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.

OsmoBC™ FO and OsmoZLD™ are proprietary products/technologies of Fluid Technology Solutions Inc.



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