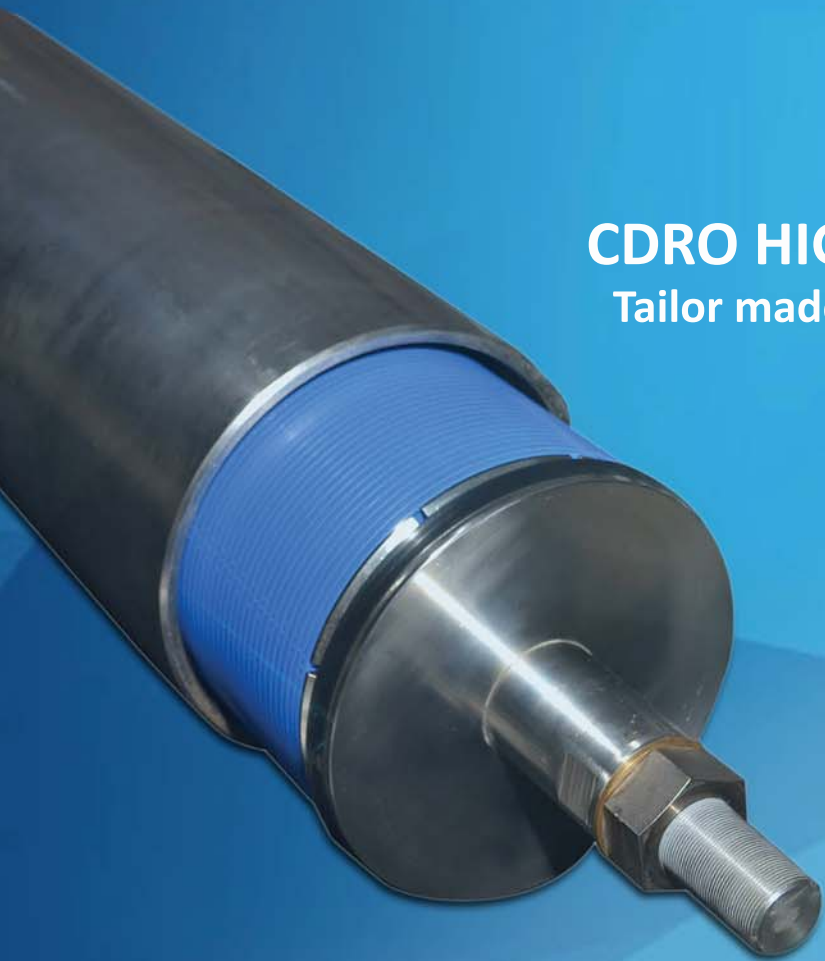


CDRO HIGH PRESSURE SYSTEMS
Tailor made solutions for water recycling





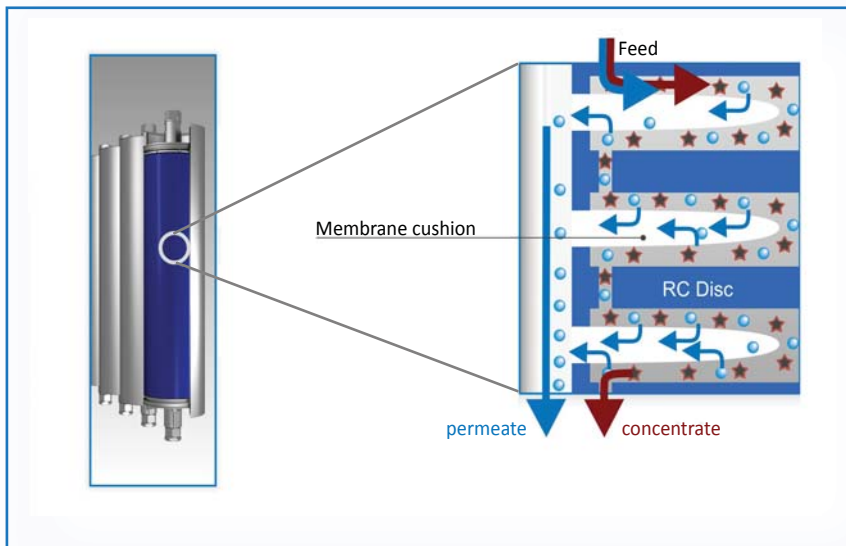
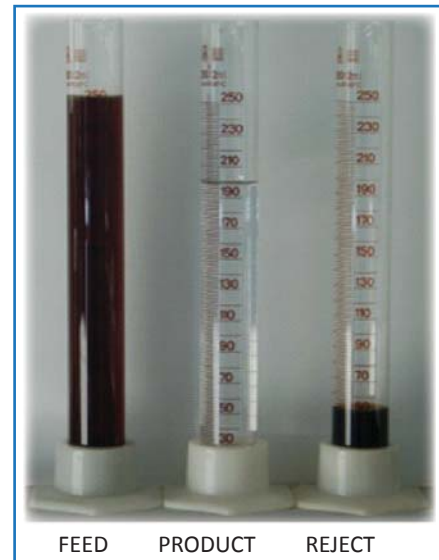
CDRO HIGH PRESSURE TECHNOLOGY

Industries are one of the maximum water consumers. Scarcity of water, treatment techniques and regulatory policies often challenges the growth and demand of a proper water recycling system.

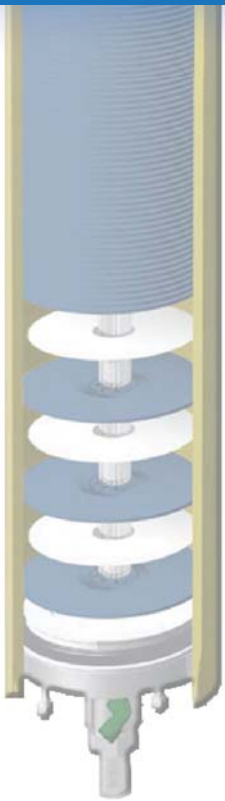
We at Deknomet seamlessly integrate the technologies to manage, optimize, treat and reuse the water with high efficiency, performance, longer life and less operation expenses. Our CDRO (Circular Disc Reverse Osmosis) Membrane technology is the most successful and cost effective system for treating and recovering the effluent/wastewater which can be re used and recycled or discharged based on pollution control board norms. Our leading edge, tailor made CDRO high pressure systems cover every conceivable water management and treatment need of the industry. CDRO high pressure systems are based on Disc & membrane reverse osmosis separation technology designed to work at high pressure requirement of 120 bar pressure there by various high pressure – high purification demand on the water treatment is resolved.

CDRO – HP 120 MODULE

The CDRO – HP 120 Module systems are designed to treat not only the dissolved ionic pollutants from water but also the separation of high organic and inorganic matter. From suspended matter to small ions, a verity of contaminants can be separated though the systems. These systems are specifically designed for high corrosion stability and flexible enough to cop up with changing quality of feed effluent.



Owing our 22 years of comprehensive experiences in disc & membrane separation technology with various effluents, we have developed the unique high pressure system after five years of extensive research and pilot studies in various effluents.



TEST UNITS

For enhancing the performance of the system and knowing the feed water behavior, low capacity pilot unit is available for site trial. To gain useful data to design a full capacity unit or optimizing the performance and recovery parameters, site trials are recommended and we can provide the same with minimum cost. This enables us to offer customized solutions and ensure customers the assurance that each aspect of the systems meets the performance conditions.



MODULE

| MODULE SPECIFICATION | | |
|-------------------------|-------------------------------|-------------------------------|
| MODEL | HP-90 | HP-120 |
| Membrane Type | Polyamide thin film composite | Polyamide thin film composite |
| Membrane area / module | 11.40 m ² | 7.90 m ² |
| Outer dia of Module | 216 ± 2 mm | 216 ± 2 mm |
| Inner dia of module | 202 ± 1 mm | 202 ± 1 mm |
| Length of Module | 1430 mm | 1000 mm |
| Operating pressure max. | 90 Bar | 120 Bar |
| pH operating range | 3-11 | 3-11 |
| Max. Operating temp. | 40 Deg C | 40 Deg C |
| Hydraulic Disc | RCDT- Patented | RCDT- Patented |

SYSTEM DESIGN

- Entire system is designed for 120 Bar operating pressure
- Constructed with high quality corrosion resistance materials
- Patented technology
- Different membrane configuration to suit product quality
- Plug and play & containerized installation
- Tailor made systems to suit treatment demand
- Designed for reliability at variation in quality & quantity
- Open channel configuration to reduce fouling and scaling
- Membrane can be replaced as individual sheets

ADVANTAGES

- Reducing the demand of costly evaporation of effluent
- High recovery rate & rejection rate with better product quality
- Final product water quality to suit discharge and reuse norms
- Allow high ionic concentration in the feed with maximum rejection
- Allow high COD, BOD and suspended matter concentration in the feed
- Very high rejection due to special membrane configuration
- Reduces the scaling, fouling & crystallization due to special design
- Less power consumption due to patented hydraulic disc
- Less foot print and easy to operate model
- Individually replaceable membrane sheets and parts thereby reducing replacement cost

APPLICATION AREAS

- Recycling of variety of industrial effluent having high ionic, organic, chemical and suspended matter
- Treatment of Reverse osmosis reject for increasing the recovery
- Treatment of evaporator feed to reduce load and operational cost
- Treatment & recycling of High TDS water from various industries
- High pressure ionic filtration applications



Deknomet is an ISO: 9001:2008 certified, technology oriented organisation focussing mainly on the Recovery, Reuse, Recycle and Refuse treatment of Water, Waste water, Effluent and Sewages. Deknomet possess five in house application methods for treating various effluent & hazardous liquid waste treatment systems, together with collaborative technologies with overseas partners. As a technology oriented organization with vast experiences, we profoundly comprehend every technology across business verticals be it conventional or modern. Deknomet believes in progressive technologies to provide environmentally sustainable customized solutions across varied industries with single point responsibility from concept to commissioning. ROTREAT & DEKNOMET are the collaborators for CDRO systems in India and specific foreign market.

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