Reverse Osmosis EDI Container

Conveniently removes dissolved solids, total organic carbon (TOC) and other colloidal contaminants in a smaller footprint than traditional units.

Operable in double-pass mode, with nominal flow rates up to 350 gpm and 200 gpm, respectively.

Uses electrical current to deionize and polish reverse osmosis (RO) permeate water without the need for media replacement, as standard in DI vessels.

Each stack can process up to 28 gpm of 16 Mohm water off a double-pass RO feed.

FEATURES

- Footprint 40% smaller than individual RO and EDI units
- Quick conversion to single- or double-pass operating mode
- Continuously produces mixed-bed-quality water
- Removes up to 99 percent of ionic contaminants and organics over 200 molecular weight
- RO-permeate-flush sequence upon shutdown and diversion to drain upon startup
- 24-hour remote access and PLC to ensure water quality parameters are met
- Requires no caustic or acid for regeneration of ion exchange resin within the stack.
- Logistics Department available 24/7 for dependable order placement and delivery coordination
- Eliminates brine injection and concentrate recirculation
- Onboard touchscreen panel PC and PLC for real-time SCADA and system trending
- RO Pump VFD(s) and EDI DC Drive

APPLICATIONS

- Total dissolved solids reduction
- Organic compound reduction
- Colloidal silica reduction
- Demineralizer system pretreatment
- Water-system outage support
- Environmental improvement and waste-discharge reduction
- Wastewater recovery for process use or discharge

DIMENSIONS

Trailer
53’x8.5’x9.5’ (LxWxH)

Operating Weight
70,000 pounds

PRODUCT WATER

Single Pass Product
Up to 350 gpm (45˚ F)

Double Pass Product
Up to 200 gpm (45˚ F)

Recovery
≤75%

Rejection
≤99%

CONNECTIONS

Inlet
6” Camlock/Flange

Product/Reject
4” Camlock/Flange

REQUIREMENTS

Max. Water Temp.
100˚ F

Inlet Turbidity
<2 NTU

SDI15
<3

Electrical*
480 VAC, 250 - 350 FLA, 3 PH

INSTRUMENTATION

Inlet, product and reject flow meters

pH and conductivity meters

Digital pressure transducers

Electrically efficient VFD controlled pumps