AQUALINE

EDI
(ELECTRODEIONIZATION)
SYSTEMS

ESLI
POLLET WATER GROUP
www.esli.com.tr




COMMON SPECIFICATIONS

DESIGN PARAMETERS	
SYSTEM RECOVERY (typical)**	90% - 95%
INLET PRESSURE	45 psig (3.1 bar)
INLET TEMPERATURE	60 °F (15.56 °C)
PRODUCT PRESSURE	20 psig (1.37 bar)

GENERAL SPRECIFICATIONS	
FRAME MATERIALS	Structural carbon steel or stainless steel
PLUMBING, VALVES AND INSTRUMENTATION	Market specific

OPERATING LIMITS	
MAXIMUM FEED TEMPERATURE	113 °F (45 °C)
MINIMUM FEED TEMPERATURE	40 °F (4.4 °C
MAXIMUM FEED PRESSURE	100 psig (6.9 bar)
MINIMUM FEED PRESSURE	45 psig (3.1 bar)
PRESSURE DROP AT MINIMUM FLOW RATE	10 - 15 psig (0.69 - 1.03 bar)
PRESSURE DROP AT NOMINAL FLOW RATE	25 - 35 psig (1.72 - 2.41 bar)
PRESSURE DROP AT MAXIMUM FLOW RATE	40 - 50 psig (2.76 - 3.45 bar)

FEED WATER REQUIREMENTS

FEED WATER SOURCE	RO PERMEATE
FEED WATER CONDUCTIVITY EQUIVALENT INCLUDING CO_2 AND SILICA	<40 µS/cm
SILICA (SiO_2)*	<1 ppm
IRON, Mn, H_2S, S	< 0.01 ppm
TOTAL CHLORINE (as Cl_2)	< 0.02 ppm
HARDNESS (as $CACO_3$)	< 1.0 ppm
DISSOLVED ORGANICS (TOC as C)	< 0.5 ppm
OPERATING pH RANGE	4 - 11

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AQUALINE CDI - LOW AND CDI-HIGH ELECTRODEIONIZATION SYSTEMS

Aqualine CDI - Low and High systems are pre-engineered and specifically designed to meet the demands of the pharmaceutical, power, microelectronics, and general industry customer. The standard CDI-Low systems come in flow rates from 1.7 to 180 gpm (0.39 to 40.88 m^3/hr), combining single or multiple (up to 8) IONPURE® CDI-LX modules on a frame with power supplies, controllers, piping, sample valves, cleaning connections, and flow and quality monitoring instrumentation. Select CDI-LX systems can be hot water sanitized at up to 185°F (85° C).

Standard CDI - High systems come in flow rates ranging from 100 gpm to 600 gpm nominal (22.7 to 136.3 m^3/hr), combining multiple Ionpure® VNX modules on a frame with power supplies, controllers, piping, sample valves, cleaning connections, and pressure, flow and quality monitoring instrumentation.

Continuous electrodeionization is a safe, chemical free way to take RO (reverse osmosis) water to a higher level of purity. CDI Low and High systems use our proven, proprietary process to continuously produce an uninterrupted supply of high purity water, up to 18 megohm-cm, without the need for regeneration chemicals or deionization (DI) tanks.

FEATURES AND BENEFITS

- Reliable, compact design
- Quick installation
- Low maintenance
- Easy validation
- Hot water sanitizable (HWS) units available up to 185 °F (85 °C)
- High operating temperature (up to 100 psig feed)
- Completely leak-free operation
- Ideal for loop applications
- Low power consumption
- Individual power supplies and controls

SPECIFICATIONS

- A complete, power supply assembly (NEMA 12 or optional NEMA 4 and 4X)
- Controllers
- Piping
- Sample valves
- Cleaning connections

Flow and quality monitoring instrumentation and remote I/O is available as an option.