



Water Technologies & Solutions fact sheet

PROflex* LT8

RO and NF equipment from 14,400 to 288,000 gpd (10-200 gpm, 2.5-45 m³/h)



overview

With a focus on light industrial and commercial applications and end-users, the PRO*flex* LT is both an evolution of popular E-Series brackish water RO and NF systems and an extension of the PRO*flex* product line. With this new offering, you can continue to expect the quality and durability that SUEZ systems provide. The PRO*flex* LT will have the optimized simplicity and economics expected of the E-Series systems but incorporate the powerful combination of further cost savings and configurability in the existing PRO*flex* systems.



Figure 1: PROflex LT8 flow ranges including the relevant prior E-Series reference point demonstrating the high flux and fixed flow rate designs of the prior E-Series systems. PROflex LT systems can be configured using the flexConfigurator to lower flux and flow as shown in the chart.

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flexible design

- PROflex LT8 has eight 8" element default configurations
- Improves upon the prior E-Series platform by:
 - allowing *flex*Configurator users to optimize their system to fit their needs with their choice of pump, permeate flow rate, and flux rate
 - offering further options to configure their system with only the features and components that they want, including new features such as permeate divert and VFDs, or a CIP pump and chemical feed package
 - access specification sheets, drawings, and detailed information for unique configured system

SUEZ flexConfigurator

www.suezwatertechnologies.com/flexconfigurator

Our expertise at your fingertips, on your schedule, while only paying for what you need.

true flexibilityto design a system you want

PRO*flex* LT offers the flexibility to choose a system at an aggressive or conservative design to meet the capital and flux requirements of your specific application. Figure 1 shows the PRO*flex* LT8 product line and the flow ranges. The flow ranges are the hydraulic limits with each model. Users should explore and choose their optimal system by determining:

- desired permeate flow range
- temperature of the water
- square footage of the membranes needed (or flux limits) using Winflows*
- desired recovery
- 50 or 60 Hz frequency

The various models and options in the *flex*Configurator will allow you to see changes to the capital investment and weigh different design considerations.

default features

All PRO*flex* LT8 systems come default with the following features:

- Tonkaflo* pump
- improved access to Tonkaflo pump for easier maintenance
- larger instrument panel allows for mounting additional field equipment and instrumentation
- new slip stream for instruments to allow for easier maintenance

- new Horner X4 PLC/HMI is the default option that runs with free programable Cscape software
- motor starter
- 1-micron pre-filter
- elements are shipped loose, and will have a wood frame under the skid for easier mobility

default instrumentation and control

- pre and post filter pressure gauges
- permeate and concentrate flow sensors
- pre and post local membrane element pressure gauges
- flow control valves concentrate and recycle
- feed throttle valve
- CIP connection valves included
- air actuated automatic inlet shut-off valve

default monitoring and alarms

- motor starter fault with machine shutdown
- machine control
 - remote on/off capability or
 - permeate level analog control (comes with low and high alarms)
- low permeate and low concentrate flow alarms
- pretreatment lockout
- chemical feed control (start/stop)
- common alarm output signal
- inlet pressure switch (with low pressure alarm)
- permeate conductivity (with high conductivity alarm)
- inlet temperature (with high temperature alarm)

configurable options available

As seen by using the *flex*Configurator, example configurable options include:

- multiple Tonkaflo pump options use Pump Tools and Winflows to select the right pump for your application
- membrane options:
 - o high rejection elements
 - o low energy elements
 - o low fouling elements
 - o nanofiltration elements
- housing/valves/connections options:
 - auto flush solenoid
 - electric valve actuators (selecting this option applies to both inlet and permeate divert)
 - stainless steel membrane element housings
 - permeate divert valve (requires permeate conductivity instrumentation)

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configurable options available (continued)

- electrical options:
 - motor starters removed
 - VFD upgrade
 - 50 and 60Hz with various voltages
- instrument and PLC options:
 - Horner X4 Controller default controller, with the following options:
 - o recycle flow sensor
 - inlet pH with P.I. D. control (with high/low alarm)
 - P.I.D. control of pump speed (requires VFD)
 - permeate pressure switch (with high pressure alarm) and concentrate pressure switch (with high pressure alarm)
 - permeate divert (with high conductivity alarm)
 - Horner X4 Plus Controller, upgrade option.
 Same option choices as X4, plus the following:
 - inlet conductivity which displays conductivity and membrane system rejection on HMI (with low rejection alarm)
 - inlet oxidation-reduction potential (ORP, with high ORP alarm)
 - pressure transmitters 4 total pre and post filter and membrane (with high prefilter pressure drop and high membrane element pressure drop alarms)
 - Allen Bradley, upgrade option. AB850 Series with 4" HMI. Same option choices as X4 plus.
 no instrument or controller option
 - shipping and packaging options:
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- o elements loaded in skid
- \circ system shipped in wooden crate