

# IONPRO™

Reverse Osmosis & CEDI

The IONPRO™ LX systems produce high purity water with low bacteria levels.

Flow rates  
From 500 to  
1,000 L/h



Pharma



Cosmetics



## ✓ FEATURES & BENEFITS

- I-Button security protection
- HMI: intuitive & simple to use; process information, performance calculations, warnings, alarms displayed on screen
- Stainless steel kid; longevity
- Aesthetically pleasing; moulded covers
- Compact skid; small foot print
- Standardised single-skid design; short lead times and quick start-up
- Flexible design solutions; easy upgrade, options
- Configurable set points
- Combined drain; simplicity
- Supplied with full Factory Acceptance Test (FAT)
- Integral automatic sanitisation (AutoSan); minimal operator involvement, reliable & repeatable

## 💧 APPLICATIONS

- Pharmaceutical
- Microelectronics
- Central laboratory (analytical water grade 2)
- General manufacturing

## + OPTIONS

- Validation pack with schedules, Installation
- Qualification (IQ) and Operational
- Qualification (OQ)
- Degasser for performance enhancement

### HYDREX™ CHEMICALS

Hydrex™ 4000 water treatment chemicals from Veolia Water Technologies should be used for optimized plant operation.

### ASSOCIATED SERVICES

Local aftermarket service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plants.





### System Operating Parameters

Model	Unit	2-10	3-10	3-18	4-10	4-18
Nominal Feed Flowrate	m <sup>3</sup> /h	0.75	1.10	1.10	1.50	1.50
Nominal Flowrate for Maximum Capacity	m <sup>3</sup> /h	0.50	0.75	0.75	1	1
Recovery	%	66 - 75	67 - 75	68 - 75	69 - 75	70 - 75
Salt Usage per Regeneration	kg	6	6	6	6	6
Output per Regeneration	m <sup>3</sup>	10	10	10	10	10

### System Dimensions

Model	Unit	2-10	3-10	3-18	4-10	4-18
Total Installed Length	m	1.100 ( 1.300 with optional Degasser)				
Total Installed Width	m	0.8 (0.95 with optional Degasser)				
Total Installed Height	m	1.57	1.57	1.57	1.57	1.57
Empty Weight	kg	650	650	660	650	660

### Pipes Connections

Model	Unit	2-10	3-10	3-18	4-10	4-18
Feed US Customary	in	43558 BSP (G) Female				
Treated water <sup>(1)</sup>	DN	25	25	25	25	25
Concentrate <sup>(1)</sup>	DN	25	25	25	25	25
Drain	DN	40	40	40	40	40

<sup>(1)</sup> uPVC Socket Union (option: 1" stainless steel tri-clamp)

### Materials of Construction

Softeners	Noryl Heads Polyethylene Lined Vessels
Soft Water Tank	High Density Polyethylene
Skid	304 Stainless Steel
Control Cabinet	Painted Mild Steel
RO Pressure Vessels	PVC and fibreglass epoxy
RO Pump	304 & 316 Stainless Steel
RO Elements	4"x40" thin-film composite
CEDI Module	Robuste Wide Cell Technology

### Feed water Requirements

Parameter	Unit	Value
Minimum water temperature	°C	5
Maximum water temperature	°C	25
Minimum supply pressure	barg	3.5
Maximum supply pressure	barg	6
Max inlet Iron Fe <sup>3+</sup>	mg/l	< 0.1
Max inlet Manganese Mn <sup>2+</sup>	mg/l	< 0.05
Maximum Inlet TDS	mg/l	< 1000
Max inlet Total Hardness	mg/l CaCO <sub>3</sub>	< 400
Max inlet Free Chlorine Cl <sub>2</sub>	mg/l	< 0.25 <sup>(2)</sup> < 0.02 <sup>(3)</sup>

<sup>(2)</sup> with Activated Carbon Cartridge Filters

<sup>(3)</sup> with Pleated Depth Cartridge Filters

### Power Requirements

Parameter	Unit	Value
Frequency	Hz	50
Phases	-	3