ARCTON Elite XLP 1000
industrial reverse osmosis system

type: AE-XLP-1000

GENERAL FEATURES:

- EuroClear controller, type: ROC-8100
  - LCD display
  - Low feed water protection
  - Low pressure protection
  - High pressure protection
  - Conductivity over limit alarm
  - Pure water level control
  - Timed membrane flushing
- High pressure pump, type: Grundfos CM 3-12
- Membranes, type: Vontron XLP11-4040
- 0,5 micron sediment filter, type: FCPPS-20B005
- Fiberglass pressure vessels
- Carbon steel frame

FEED WATER REQUIREMENTS:

- Raw water temperature: +5...+40 °C
- Residual chlorine: max. 0,1 mg/L
- Water hardness: max. 8,4 ˚dH (3 meq/L ; 150 mg/L $CaCO_3$)
- Iron: max. 0,1 mg/L
- Manganese: max. 0,05 mg/L
- Silicate: max. 20 mg/L
- Chemical oxygen demand: max. 4,0 mg O_2/L
- Hydrogen sulfide: none
- SDI: max. 3
- Raw water pressure: 2-4 bar
- TDS: max. 1500 mg/l

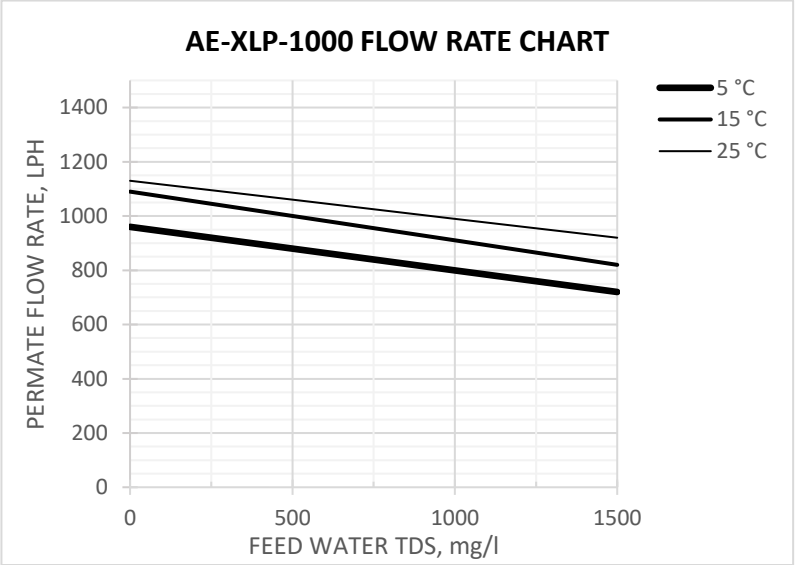
The limitations may be exceeded if using antiscalant, oxygen scavenger, or other RO pretreatment (e.g. water softener).

PHYSICAL PARAMETERS:

- Inlet water connection: G 1 ”
- Outlet water connection: G ½ ”
- Drain connection: G ½ ”
- Dimensions (H x W x D): 1510mm x 750 mm x 680 mm

TECHNICAL SPECIFICATION:

Permeate capacity: [1]	880 - 1060 l/h
Permeate recovery: [2]	75 %
Electrical requirements:	400V,50Hz
Electrical power:	1,5 kW
Operating pressure:	10 – 14 bar
Max. pressure:	15 bar
Prefilter rate:	0,5 µm



[1] depend on raw water TDS, SDI, temp., pressure, permeate recovery, low scaling water
[2] depend on raw water TDS, SDI, temp., pressure, permeate capacity, low scaling water

PIPES AND INSTRUMENTS DIAGRAM:

AE-XLP-1000	
1	Raw water valve
2	Prefilter
3	Motorized ball valve
4	Pressure gauge – 6 bar
5	Pressure switch
6	High pressure pump
7	Pressure gauge – 16 bar
8	Membrane housing
9	Conductivity measurement probe
10	Controller
11	Check valve
12	Rotameter
13	Rotameter – Adjustable
14	Rotameter – Adjustable
15	Motorized ball valve – Flushing

