# ARCTON Basic XLP 250 industrial reverse osmosis system

type: AB-XLP-250



**GENERAL FEATURES:**

- EuroClear controller, type: ROC-2210
  - 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: DE814-RO1000
- Membranes, type: Vontron XLP11-4040A integrated
- 0,5 micron sediment filter, type: FCPPS-10005
- 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

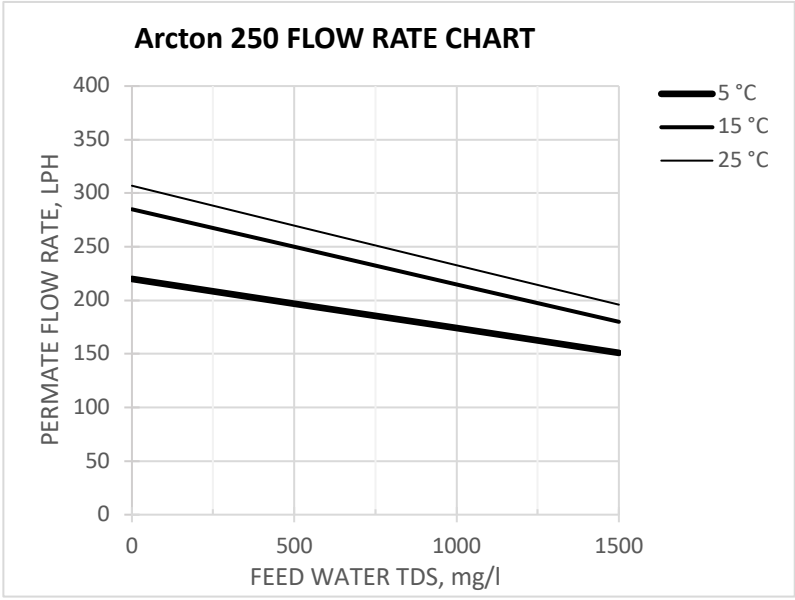
The limitations may be exceeded if using antiscalant, oxygen scavenger, or other RO pretreatment (e.g. water softener).

**PHYSICAL PARAMETERS:**

- Inlet water connection: G 1/2”
- Outlet water connection: G 1/2”
- Drain connection: G 1/2”
- Dimensions (H x W x D): 1510 x 580 x 590 mm

## TECHNICAL SPECIFICATION:

| | |
|---|---|
| Permeate capacity: [1] | 200 - 270 l/h |
| Permeate recovery: [2] | 75% |
| Electrical requirements: | 230V, 50Hz |
| Electrical power: | 0,57 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:

| AB-250 | |
|---|---|
| 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 |

