

Reverse Osmosis Systems

BK Series



The BK Series reverse osmosis systems are a proven range of quality engineered units, designed to provide demineralised water 24 hours a day.

All models are fully automatic, and designed for efficient and reliable operation, with straight forward maintenance.

The main control panel incorporates a programmable micro-processor, which continuously monitors product water quality, and initiates the various plant sequences. Every plant is configured to each customer's treated water quality needs.

TECHNICAL DATA

Connections

Inlet: NW25/32/PVC28/40mm
 Outlet: NW25/PVC32mm
 Drain: NW50/PVC63mm

Required inlet pressure: 2-4 bar
 Feed water temperature: 5-25°C

Acceptable feed water quality

Conductivity: < 1500µS/cm
 Free chlorine: < 0.1mg/l
 Iron: < 0.1mg/l

Typical performance

Recovery: 75%
 Salt rejection: approx 98%

Electrical connections 400V 50Hz

Skid details

Material: Stainless Steel
 Width BK05-08: 1400mm
 Width BK10-16: 2800mm
 Depth: 650mm
 Height: 1700mm

Control unit

Microprocessor controller with integrated user interface. Continuous display of treated water conductivity, plant status and hours run.
 Fully programmable, 2-level alarm contacts, and input/output for level controls and ancillary equipment.

Options

A full range of compatible options are available, including

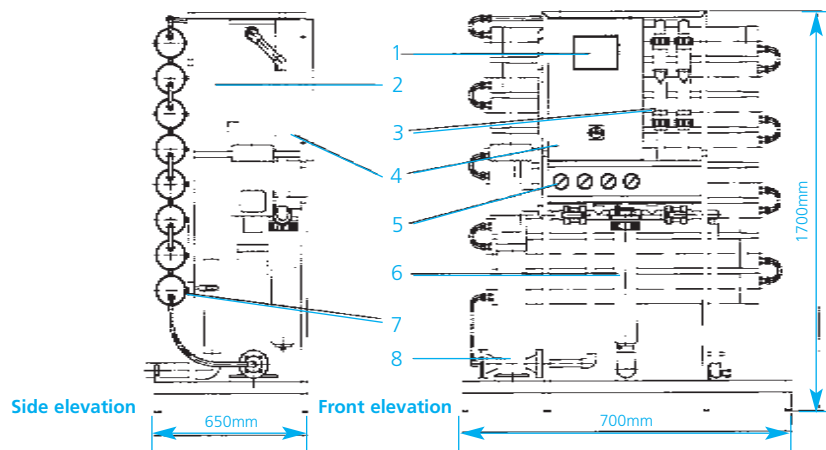
- water softeners
- permeate storage systems
- UV-disinfection
- polishing for special requirements

PRODUCT RANGE

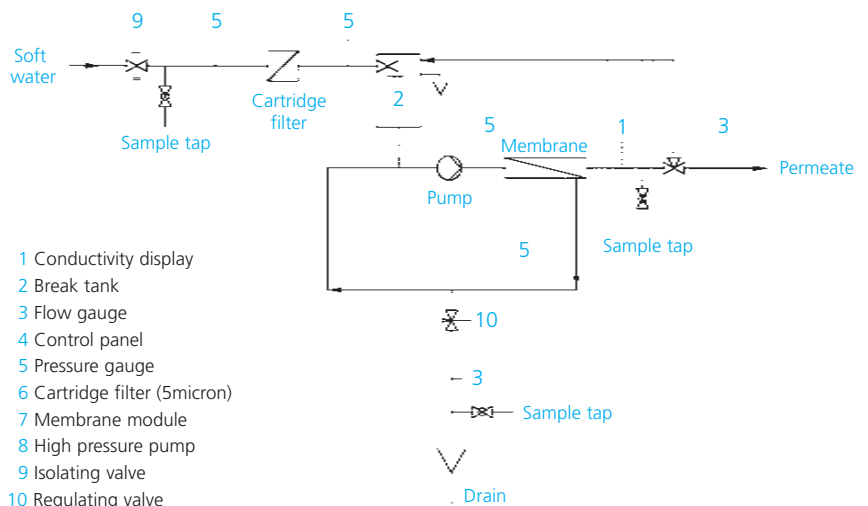
| Model | Capacity at 15°C | | Required Inlet Flow* l/h at 2.4 bar | Membrane Pressure in bar | Electrical Power in kW | |
|---------|------------------|---------------------|--|--------------------------|------------------------|----------|
| | l/h | m ³ /day | | | Installed | Consumed |
| BK05.40 | 1160 | 27.8 | 1547 | 16.0 | 2.2 | 1.72 |
| BK06.40 | 1500 | 36.0 | 2000 | 17.0 | 3.0 | 2.14 |
| BK07.40 | 1700 | 40.8 | 2267 | 17.0 | 3.0 | 2.20 |
| BK08.40 | 1850 | 44.4 | 2467 | 16.5 | 3.0 | 2.23 |
| BK10.40 | 2400 | 57.6 | 3200 | 17.0 | 4.0 | 3.85 |
| BK12.40 | 2800 | 67.2 | 3734 | 17.0 | 4.0 | 3.88 |
| BK14.40 | 3200 | 76.8 | 4267 | 16.5 | 4.0 | 3.45 |
| BK16.40 | 3600 | 86.4 | 4800 | 16.5 | 4.0 | 3.49 |

* At given capacity and recovery of 75%.

GENERAL ARRANGEMENT



SCHEMATIC



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