

Reverse Osmosis Systems

AK Series



The AK 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:	NW20/3/4"
Outlet:	NW20/PVC
25mm	
Drain:	NW50/PVC
63mm	

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

AK01.25 to AK03.25:	230V-50Hz
AK01.40 to AK04.40:	400V-50Hz

Skid details

Material:	Stainless Steel
Width:	700mm
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

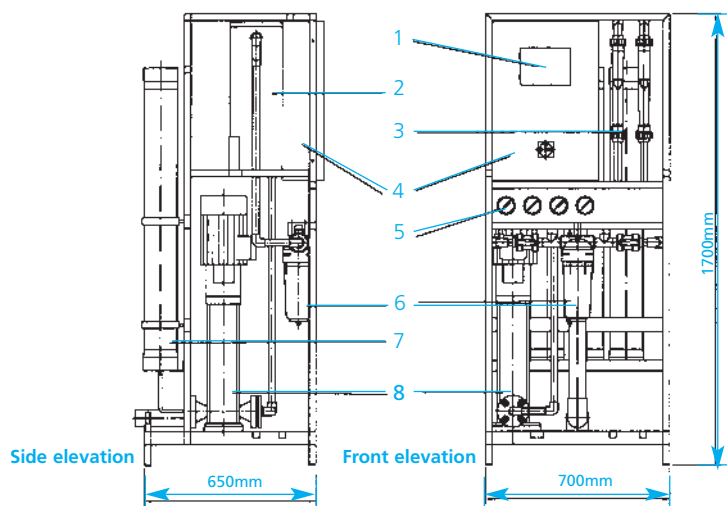
- water softeners
- permeate storage systems
- UV-disinfection
- polishing for special requirements

PRODUCT RANGE

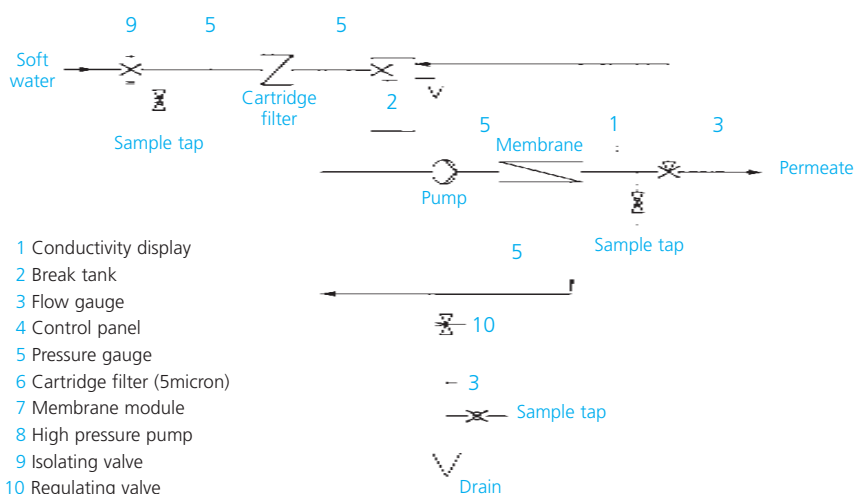
Model	Capacity at 15°C		Required Inlet Flow* l/h at m ³ /day	Membrane Pressure in bar	Electrical Power in kW		Recommended Water Softener**
	l/hr	m ³ /day			Installed	Consumed	
AK01.25	65	1.5	87	14.0	0.55	0.55	B100
AK02.25	130	3.1	174	14.0	0.55	0.55	B100
AK03.25	200	4.8	267	14.0	0.55	0.55	B100
AK01.40	250	6.0	334	16.5	2.20	2.00	B100
AK02.40	500	12.0	667	16.5	2.20	2.00	B150
AK03.40	730	17.5	974	16.5	2.20	2.00	B150
AK04.40	970	23.0	1294	16.0	2.20	2.00	B200

* At given capacity and recovery of 75%. ** Optional

GENERAL ARRANGEMENT



SCHEMATIC



- 1 Conductivity display
- 2 Break tank
- 3 Flow gauge
- 4 Control panel
- 5 Pressure gauge
- 6 Cartridge filter (5micron)
- 7 Membrane module
- 8 High pressure pump
- 9 Isolating valve
- 10 Regulating valve

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