



AS Series Reverse Osmosis Systems

5,000 – 35,000 litres per day

Features

- Fully automatic operation
- Mitsubishi Alpha PLC 2410
- IP65 Control Panel
- Clean In Place system
- Antiscalant dosing system and control
- 3 stage cartridge filtration
- Recycle for maximising recovery

Operating Parameters

Recovery	65 – 75%
Design Temperature	16°C
Nominal Rejection	97 – 99%
Typical Feed (TDS)	<7,000ppm



AS50000 pictured

Options

- Media filtration pretreatment
- Iron removal
- Activated carbon
- Softening pretreatment
- Chemical feed systems
- Transfer pumps
- Fresh water storage
- Bore pump and control system
- Integration with existing equipment

Instrumentation

Flow Meters	Permeate, Concentrate, Recycle
Conductivity	Permeate
Pressure	Pre filter, post filter, HP feed, concentrate

Specifications

Membranes	BW30-4040 (TFC)
Manufacturer	Dow
Average Rejection	99.5%
Average Flux	16 – 30 LMH (10 – 18 GFD)

Aqueous Solutions AS Series Reverse Osmosis Machines

Machine	AS5000	AS10000	AS15000	AS20000	AS25000	AS35000	AS50000
Permeate Rate (LPD)	5000	10,000	15,000	20,000	25,000	35,000	50,000
Recovery	60 – 65%	60 – 65%	65 – 70%	65 – 70%	65 – 70%	65 – 75%	65 – 75%
Pumps/Motor							
High Pressure Pump	Grundfos CRN 1	Grundfos CRN 1	Grundfos CRN 1	Grundfos CRN 3	Grundfos CRN 3	Grundfos CRN 3	Grundfos CRN 5
Motor (kW)	<2.2kW	<2.2kW	<2.2kW	<3.0kW	<3.0kW	<3.0kW	<5.0kW
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Power	1Φ or 3Φ	1Φ or 3Φ	1Φ or 3Φ	3Φ	3Φ	3Φ	3Φ
Membrane Elements, Cartridge Filters and Housings							
Membranes	2 x 4"	3 x 4"	4 x 4"	6 x 4"	8 x 4"	10 x 4"	12 x 4"
Cartridge Filters	3	3	3	3	6	6	6
	25-1µm	25-1µm	25-1µm	25-1µm	25-1µm	25-1µm	25-1µm
	1µm	1µm	1µm	1µm	1µm	1µm	1µm
	0.5µm	0.5µm	0.5µm	0.5µm	0.5µm	0.5µm	0.5µm
Membrane Housings	<300psi FRP	<300psi FRP	<300psi FRP	<300psi FRP	<300psi FRP	<300psi FRP	<300psi FRP
Frame and Dimensions							
Frame Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Length	800	800	1200	1200	1200	1200	1200
Width	750	750	700	700	1075	1075	1075
Height	1500	1500	1500	1500	1500	1700	1700

Custom designs for larger systems up to (or exceeding) 1,000,000 LPD available upon request

Complete Solutions

Site Survey
Specific Design
 – including documentation
Manufacture
Installation
Commissioning
Service, maintenance and spares

Documentation

Operation and Maintenance Manual
General Dimensional Drawing
Layout Drawing
Electrical Drawing
PID Available