

# The world's most efficient brine concentration system

**>50%**  
reduction  
in energy

compared to standard reverse osmosis systems

**1/2**  
the footprint  
of similar capacity desalination systems

**10**  
years in  
development

Development included 4 field trials on 3 continents, and a trans-national collaboration between scientists from the UK, Israel, Jordan and Palestine

Salinity Solution's SAM50 next generation reverse osmosis system provides industry leading concentration rates with unparalleled energy efficiency, all with a highly compact footprint.

[salinitysolutions.co.uk](http://salinitysolutions.co.uk)



The SAM50 system is specifically designed to meet the demanding requirements of brine concentration in industrial applications:

- Small footprint
- Highly energy efficient
- > 5x brine concentration
- > 80% water recovery
- 10 years of research & development
- 'Plug & play' installation
- Patent protected
- Engineered in Britain

**Applications include:**

- Water reuse
- Effluent treatment
- Mineral extraction
- Brine minimisation

<b>Technical information</b>
Throughput: <b>26 m<sup>3</sup>/day</b>
Energy consumption: <b>&lt; 1 kWh/m<sup>3</sup></b>
Feed TDS: <b>6,000 mg/l</b>
Rejection rate: <b>&gt;99% salts retained in brine</b>
Maximum working pressure: <b>50 bar</b>
Power requirements: <b>Single phase 230V, 32amps</b>
Peak power consumption: <b>2kW</b>
Average power consumption: <b>1kW</b>
Container dimensions: <b>5m x 2.2m x 2.2m (L x W x H)</b>
Dry weight: <b>approx. 1000kg</b>



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