

Salt Separation Services was founded in 1990, initially to provide spares and service to "water-making" equipment for the North Sea oil and gas industry. The company quickly grew into the manufacturing of plants and equipment for many varied industries.

In 1994, we were awarded our first order for cruise ship RO desalination plants (one was for the Pacific Princess, the star of the television show "The Love Boat").

Our first order from the UK MoD was awarded in 1996 for a plant to replace obsolete equipment on HMS Roebuck, a Royal Navy survey vessel.

The following year, we attained ISO 9000 Quality Assurance accreditation.

As well as being heavily involved in seawater desalination, we also manufacture plants to treat other water types. In 2003, we were awarded a contract to manufacture water treatment equipment for the

energy centre at Heathrow Airport's new Terminal 5. The equipment treats borehole water for use in the cooling towers.

The first plants that we manufactured for new-build ships were ordered in 2008; six 175 m³/d plants for the two new Royal Navy aircraft carriers and four 450 m³/d plants for two brand-new cruise ships being manufactured in Germany.

In February 2008, we were awarded a 9 year through life support contract with the UK MoD for supporting the entire Royal Navy surface fleet's water treatment equipment. The last 12 months of this contract has delivered significant savings to the MoD.



Salt Separation Services

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Salt Separation Services is a UK based engineering company that designs, manufactures, installs, commissions and services water treatment equipment, primarily Reverse Osmosis (RO) desalination plants for the production of potable water from seawater.

Our equipment is used on cruise ships, naval vessels and offshore platforms as well as in other industries where high quality water is required for process use (i.e. beverage production, semi-conductor manufacture, pharmaceutical, etc...).

Our specialism is the installation of plants into existing ships, making use of space envelopes that may not have previously been considered as suitable for mounting the equipment. Many of these plants are installed whilst ships are at sea with passengers on-board.

More recently, we have been involved with projects that use RO for waste water treatment, reducing the volume of waste water produced by a site or process with the potential of re-use, thereby saving precious water resources.

We also provide technical support, spares and servicing of our own equipment and also for equipment manufactured by others. Although all of our engineers are based in Rochdale, they operate world-wide.



Skid-Mounted RO Plants

Our skid-mounted RO plants are custom engineered with packages being as compact as possible whilst affording adequate access to all components for maintenance and servicing. Each plant is fully factory tested prior to delivery, thereby reducing commissioning time on-site. We can manufacture skid-mounted plants from 1 to 1,000 m³/d capacity.



In the maritime industry, we design and manufacture high quality, reliable, low maintenance seawater RO desalination plants in either modular or skid-mounted variations.

The RO desalination equipment we fit to cruise ships can actually help to reduce fuel usage and reduce demand on water resources in certain cruise ship destinations where there are water resource issues.

All the equipment we manufacture is bespoke, designed to suit a clients specific requirements. As such, we are able to offer unlimited options, including energy recovery, permeate re-hardening (with CO₂ injection), additional pre and post treatment as required, third party inspections, etc...

Modular RO Plants

Our modular RO plants are custom engineered. Footprint size and equipment layout is designed to suit the space available whilst allowing access for maintenance and servicing activities. Each plant is fully factory tested prior to delivery, thereby reducing installation and commissioning time on-site. Our plants can be installed whilst the ship is cruising, with all equipment designed to fit through hatches/watertight doors.



Aftermarket Spares & Service

We can supply spares and consumables along with service and technical support for all manufacturers' equipment:

- ◆ Spares
- ◆ Consumables
- ◆ Ad-hoc servicing
- ◆ Annual/long-term service agreements
- ◆ Offshore qualified engineers
- ◆ Upgrades/improvements
- ◆ Retrofits