

SEAWATER INJECTION

ProSep offers customized seawater treatment and injection systems utilizing a broad range of technologies to meet our clients' specifications



BENEFITS

- + Compact skidded packages ideal for offshore applications
- + Easy operation and low maintenance requirements
- + Customized designs
- + High removal efficiency of O₂, solids, sulphates, TDS etc.
- + Customized design and ongoing support throughout the life of the equipment

SEAWATER INJECTION

Water injection (or water flood) is mainly used for enhanced oil recovery and is accomplished by injecting water into the oil reservoir, usually to increase or maintain reservoir pressure. Current developments in CEOR (chemically enhanced oil recovery) demand even tighter water restrictions.

HOW IT WORKS

The injected water sweeps the reservoir displacing the oil, pushing it toward the production well, stimulating enhanced oil recovery.

TREATMENT LEVELS

ProSep offers complete, customized skid-packaged solutions for onshore or offshore applications.

Typically seawater injection systems include Coarse Strainers (on-line, automatic backwashable style) which remove up to 98% of 80-100 micron solid particles, multimedia backwashable fine filters or fine cartridge filters which provide high-efficiency (98%) removal of particulates greater than 2 microns, and vacuum deaeration designed to achieve 20 ppb dissolved oxygen content without

scavenging chemicals.

In addition, ProSep provides integrated systems with the latest Ultra Filtration (UF) membrane technology that allows for higher quality water effluent than multimedia filters (< 0.1 micron),

Reverse Osmosis (RO) membranes to meet TDS specifications, and Sulphate Removal Membranes (SRM).

CAN BE APPLIED TO:

- + Seawater
- + River
- + Lake
- + Aquifer Water