

Water treatment

✓ Feed water polishing

✓ Process water polishing

✓ Waste water polishing & reuse

Clean Water Unit

Fish processing industries, due to their high amount of water usage, are facing problems to reach production quotas and expand operation. This problem can be solved by the usage of sea water which represents endless resource. Sunstone Water Group's water purification system helps to eliminate the problem, as it can produce clean (even drinkable) water from any natural source, including sea water.

The Clean Water Unit fits into a mobilized container and is customized for every customer according to the needs in terms of specific capacity and water quality.

Pathogen-free water

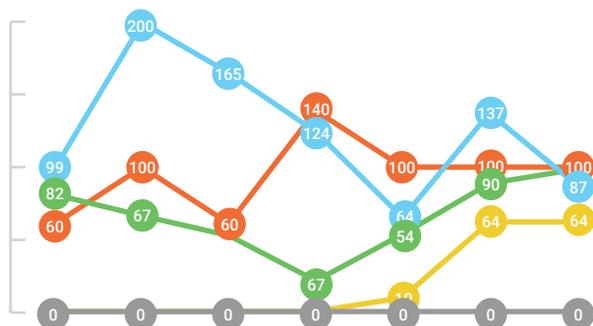
The heavily polluted sea water becomes purified after our water treatment system. The below mentioned microorganisms are found in the heavily polluted sea water. They are eliminated during the water treatment:

- ✓ Coliforms
- ✓ E. coli
- ✓ Enterococci
- ✓ Presumptive clostridium



Details

Industry	Fish processing industry
Water source	Sea water
Treated water	Process water- free of bacteria, viruses, pathogens
Components	Ceramic UF filter, UV-light, Back-flush, CIP, Advanced anti-fouling system



Figures are based on analyses conducted during a four-week period

Ultra filtration

Silicon Carbide (Sic) Ceramic membranes

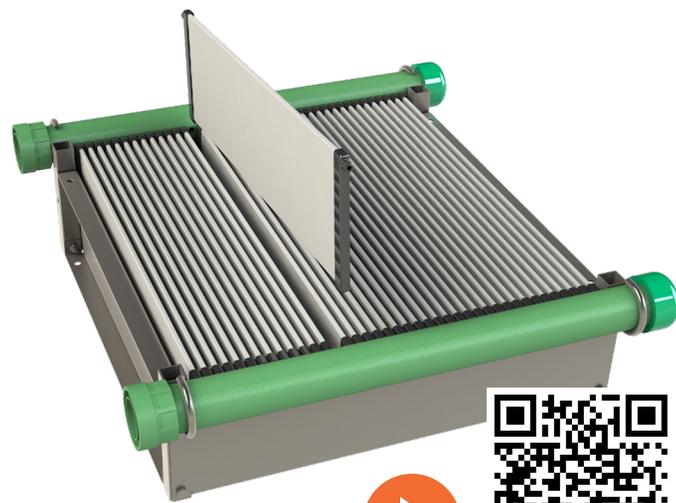
✓ **Reliable**

✓ **Compact**

✓ **Sustainable**

Ultra-filtration membranes

The Ultra-filtration membranes are the core technology, based on "outside-in" filtration. These membranes are made from Silicon Carbide, a hydrophilic material, with a 10-year life expectancy. The membranes are not affected by any chemicals or solvent, thus there is no degradation. Possibility for clogging and bio-fouling is limited.



Details

Pore size	0,1 µm
High flux	5000 LMH/bar
pH range	1-14
Cleaning methods	Backwash/Ozone/High pressure jet/Chemical cleaning
Maximum backwash pressure	2 bars
Operating temperature	5-800° C
Stackable	✓
Certifications	NSF61 drinking water approval



Reliable

Pre-fabricated modules, automated system with remote monitoring and service options



Compact

Integrated CIP and backwash ensure constant operations



Sustainable

Reduced chemicals due to sprinkler system for membrane wash and "outside in" filtration