SAER ELETTROPOMPE

SAER SOLUTIONS FOR DESALINATION

We process brackish water into fresh water for industrial or civil use.

DESALINATION REQUIRES THE COMBINATION OF AN EFFICIENT AND HEAVY-DUTY PUMP.

We select the right material
to avoid maintenance or replacements and to have lower life cycle costs.
We follow the customers
in the product selection process, to offer the best efficient solution, for their specific needs.

SAER MATERIALS PALETTE

STAINLESS STEEL AISI 316
DUPLEX
SUPERDUPLEX 5A
BRONZE G-CuSn10
Ni-Al BRONZE
DUCTILE CAST IRON
GREY CAST IRON

SAER MAY OFFER ON REQUEST
- PAINTING WITH RESISTANCE CORRESPONDING TO CYCLE C5
- OTHER SPECIAL COATINGS

SEAWATER INTAKE

The vital characteristic of a seawater intake system is to grant a sufficient quantity and quality of water. Seawater reaches the system level through the action of centrifugal and submersible pumps.

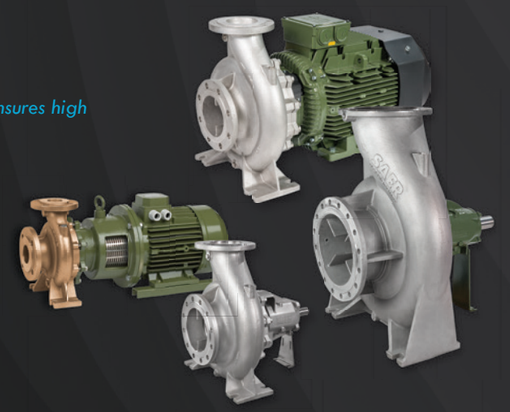
SAER has a wide range of submersible pumps (till 14") as well as high flow split casing pumps both for vertical or horizontal installation:

- S semiaxial submersible pumps
- NR radial submersible pumps
- MS submersible motors till 300 kW
- SKD split casing pumps

CLEAN IN PLACE

This step entails a cleaning of the pipes and equipment, which ensures high performance, preventing ex-post maintenance.

- MG end suction EN733 stub shaft pumps
- IR end suction EN733 close coupled pumps
- NCB end suction EN733 bare shaft pumps
- NCBK end suction bare shaft pumps exceeding EN733



PRE-TREATMENT

Prior to the desalination process, seawater is treated by removing rough elements such as solids, sand etc.

SAER has two new ranges of pumps for waste water (result of over 70 years of experience in water treatment), with different types of impellers: anti-clogging, multi-channel, with closed impeller:

- SD submersible waste water pumps
- NCA end suction waste water pumps

STORAGE & DISTRIBUTION

Having been stored, the SWRO process envisages treated water to be distributed via a pump station.

SAER can offer this service, almost with its entire range, according to clients' needs.

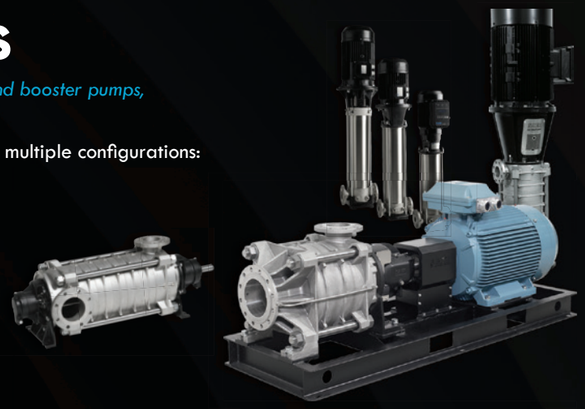
DELIVERY TIME
SAER is able to supply duplex and super duplex pumps as well bronze or AISI 316 with exceptional delivery time.
SAER's design & production is based in Italy.

FILTRATION PROCESS

The filtration stage is enabled by high pressure pumps and booster pumps, channeling the water through the filters.

SAER has an extensive range of multistage pumps with multiple configurations:

- TM horizontal multistage pump axial suction
- TMB horizontal multistage pump radial sucton
- TMV vertical multistage pump radial suction
- MK vertical multistage pump inline suction/outlet



TIPS

Motors driven by an VFD will be saving energy and relieve the stress on the pumps. An energy efficient pump, properly sized for its application, optimizes the process of water generation. Select the pump on BEP leads to maximize efficiency.

SAER has enlarged its motor production till 110kW.
Motors available in IE4 to have a further energy saving.

Desalination is a process through which salt and contaminants are removed from seawater, which can be then destined to domestic or industrial use, having been turned into "freshwater".

This requires strong and efficient pumps, as a huge amount of energy is involved, and highly corrosive liquids are dealt with.

SAER RANGE FOR DESALINATION

In the desalination area, there is an extensive use of centrifugal pumps, both for the extraction phase and for water transfer.

The right pump must be selected on the basis of performances and materials.

1 SEAWATER INTAKE
SKD S NR MS

5 STORAGE AND DISTRIBUTION
S MK SKD IR NCB TM TMV TMB MG

2 PRE-TREATMENT
SD NCA

4 CLEAN IN PLACE
NCB NCBK IR MG

3 FILTRATION PROCESS
MK TMB TMV TM

*Models referred to in the description are indicative.

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