









# The SONDEX Freshwater Distiller Plates

SONDEX Freshwater Distillers are constructed with plate heat exchangers as evaporator and condenser.

SONDEX Freshwater Distiller plates are designed to obtain the best working conditions.



SONDEX is the only company having developed special plates for the freshwater distiller.

The Sondex design is based on plates which create vertical tubes on the side where evaporation and condensing takes place, and on the service side the plate is designed with a complete free flow pattern.

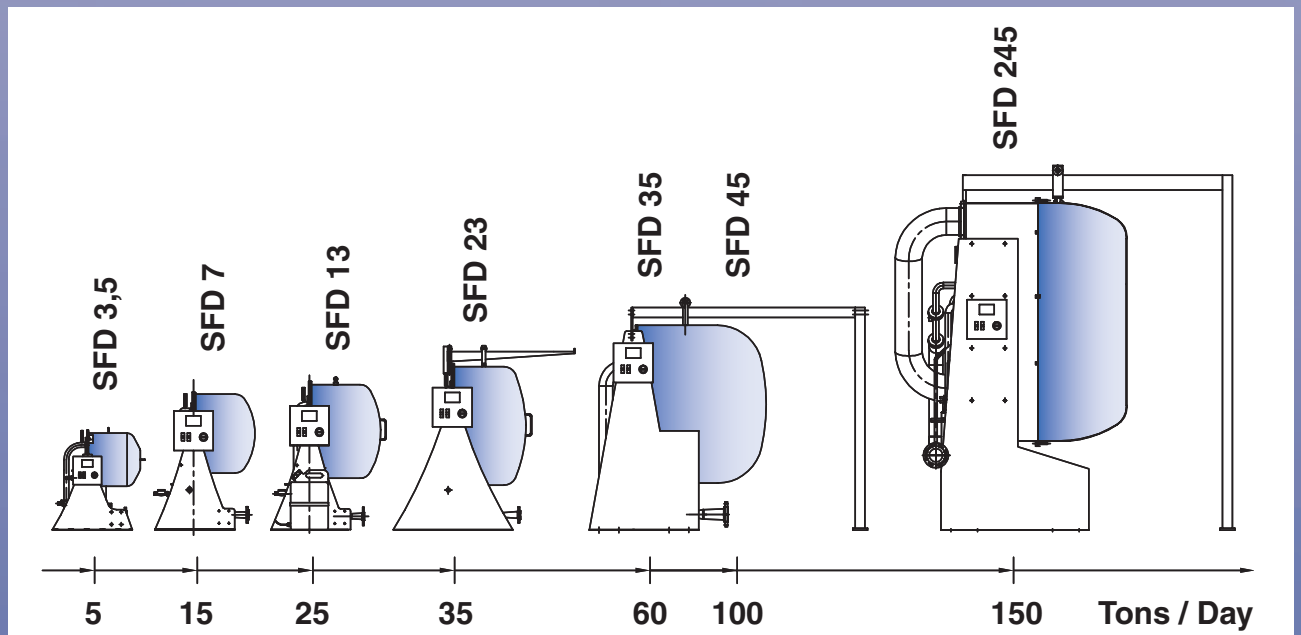
The free flow pattern makes it possible to use any type of water for the service side.

The vertical tube design on the evaporation and condensing side has proven to give excellent distribution of the water with no disturbing contact points in the boiling stage.

This results in less fouling on the plates and longer intervals between cleaning.

## The SONDEX Range of Freshwater Distillers

The range of SONDEX Freshwater Distillers is from 1 – 150 tons of water per day. This means that we are able to cover the biggest part of the inquiries on the market today.



# Additional Equipment

## SONDEX RE-HARDENING FILTERS

- Sondex re-hardening filters are used to obtain drinkable water with a pH value of 7 - 8.5 and mineralize the water condition to suit the human body.
- Sondex re-hardening filters are equipped with necessary valves, pressure gauges and strainers, ready for installation.
- Sondex re-hardening filters remove solid particles and contaminants through a specially designed bottom filter.
- Sondex re-hardening filters are made with by-pass function in case of service and technical water production.
- Sondex re-hardening filters are manufactured in stainless steel to ensure a long lifetime.
- Sondex re-hardening filters are delivered with pH adjusted filter-material.
- Sondex re-hardening filters cover a range from 0,1 to 2,75 m<sup>3</sup>/h.



## SEAWATER PUMP

- Sondex usually supplies the seawater pump for driving the ejector and cooling the condenser.
- Sondex-supplied seawater pumps are designed to the actual duty of the freshwater distiller in accordance with DIN24255 and ISO2858.
- Sondex-supplied seawater pumps are high quality base mounted In-line pumps for 10 bar maximum pressure.
- Sondex-supplied seawater pumps are equipped with standard IEC motors
- Sondex-supplied seawater pumps have NiAl-bronze impeller, cast bronze housing and stainless steel shafts.
- Sondex-supplied pumps have a full sparepart programme with fast delivery all over the world.

## SONDEX STEAM ARRANGEMENT

- Sondex steam arrangement can be used in cases where the waste heat is not sufficient or available.
- Sondex steam arrangement is designed as a self-acting unit ensuring stable production capacity by injecting steam to the self-circulating water circuit.
- Sondex steam arrangement is equipped with condensate release valve to keep a constant low operation pressure as well as a safety blow valve.
- Sondex steam arrangement is equipped with on/off valve for separation of jacket water system as well as filling valves for steam system.
- Sondex steam arrangement is based on high alloy materials and quality control valves for self-acting or pneumatic operation.



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