

SONDEX® freshwater distillers designed to **produce domestic, process or drinkable water**

When supplies of freshwater are scarce or unavailable, for instance on board vessels, platforms and rigs the need for production becomes evident. Being able to produce freshwater on demand is paramount in the marine and offshore industry.

SONDEX® freshwater distillers are based on two (or more) titanium plate packs that act as evaporator and condenser, respectively. The specific plate design differs from regular heat exchanger plates and ensures high efficiency at long maintenance intervals.

Single and multi-stage distillers

We can deliver both types of freshwater distillers: single and multi-stage. The right choice mainly depends on the type of application, heat source and operating conditions.

Single-stage freshwater distillers require a relatively large amount of energy to operate, but are less expensive than their multi-stage counterparts. They are a common choice for vessels, as the engines on board produce large amounts of excess heat that can optimally be utilized by the single-stage freshwater distiller. As a result, the ecological footprint as well as the overall engine efficiency is significantly improved. The excess heat energy is thus put to good use and benefits the entire vessel, making single-stage freshwater distillers an obvious choice.

Multi-stage freshwater distillers, on the other hand, are more expensive but produce more freshwater at the same energy input, compared to the single-stage design. The energy from the evaporation process is reused multiple times, making multi-stage solutions ideal for rigs and other offshore platforms that do not generate large amounts of excess heat and must instead actively produce energy. This way, the larger investment pays off in the long run with reduced energy costs for operation and increased freshwater production.

Sondex and Danfoss join forces

In July 2016, Danfoss acquired full ownership of Sondex. This step marked the merger of two strong players creating an even more powerful and agile heat exchanger partner.

Transition into a product brand

During 2018, Sondex will become SONDEX® - a quality heat exchanger brand of Danfoss. Customers will benefit from one-stop shopping and the powerful infrastructure of Danfoss, as well as the heat transfer expertise of SONDEX®.

Global presence

We are globally present with numerous sales and production companies worldwide. We are very excited to welcome you to a world of high-efficiency heat transfer solutions.



Sondex A/S • Member of the Danfoss Group
Heating Segment • sondex.net • +45 7630 6100 • E-Mail: info@sondex.dk

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and all Danfoss logotypes are trademarks of Danfoss A/S. All rights reserved.

© Copyright Danfoss

Freshwater Distillers

SONDEX® freshwater distillers

Designed to produce domestic, process or drinkable water by evaporating seawater



www.heatexchangers.danfoss.com

SONDEX®

Single and multi-stage freshwater distillers

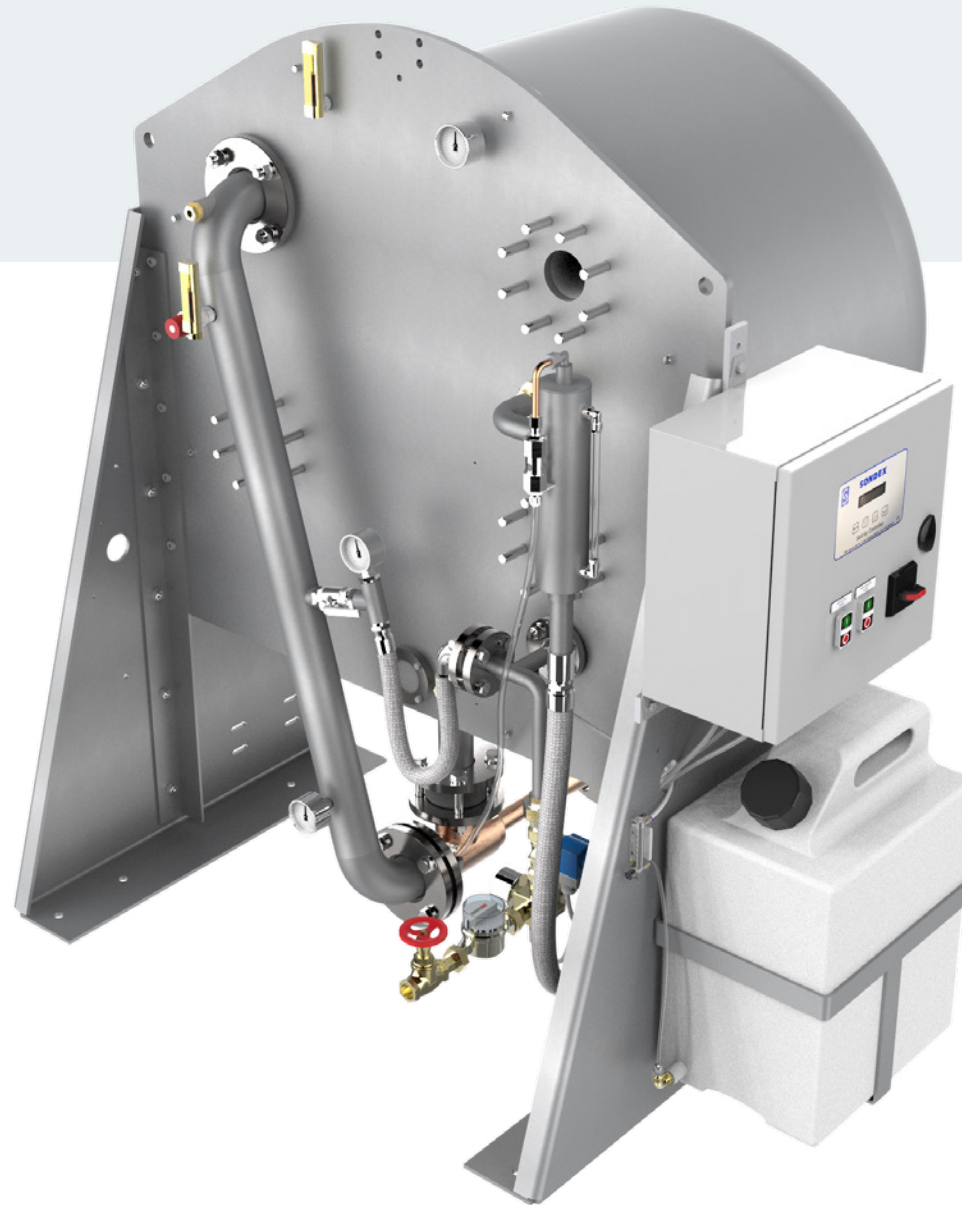
Features and benefits

SONDEX® freshwater distillers operate under high vacuum in order to evaporate the seawater at low temperatures. This ensures high performance and at the same time lowers the risk of scaling. This makes it possible to utilize excess heat from the engines jacket cooling water and puts otherwise wasted energy to good use.

Our freshwater distillers require minimal supervision after start up, as they are fully automated and operate according to the given water flow and pressure. Furthermore, they are designed to require very little maintenance.

The units feature a salinometer, hour meter and a chemical dosing unit as standard and therefore have all the equipment needed to ensure the correct salinity level for the desired freshwater output.

Our multi-stage freshwater distillers are based on regenerative energy utilization and are very well-suited for producing large quantities of freshwater, especially when the available energy is limited and costly to produce.



Proven technology that offers you several advantages:

- 5-250 m³ / 24 h
- pure water with 2-10 ppm
- compact design
- 0,5 mm titanium heat exchanger plates
- mounted fresh water pump
- integrated distillate return system

