

Plate Heat Exchangers & Pumps

The optimal solution for fluid handling



About SonFlow A/S

DanPumps A/S changed its company name to SonFlow A/S in 2019 and started manufacturing plate heat exchangers - it signals new investments and new missions as we want to focus on process technology, energy and the environment. SonFlow A/S works hard to ensure the philosophy of innovation and advancement by delivering best in quality products and good service. We strive our best to safeguard the environmental processes and adapt modern friendly approaches in product design and production processes. DanPumps centrifugal pumps are still being marketed under the brand name DanPumps.



Plate heat exchangers as a complementary product

SonFlow A/S offers plate heat exchangers as a complementary product to DanPumps centrifugal pumps, which opens new markets. The engineering team of SonFlow is developing new designs and customized process equipment's based on many years of experience.

We are ISO 9001 certified and provide plate heat exchangers and pumps to all industries - we are continually expanding and diversify the business responding with innovative high-quality products and services.

Manufacture of plate heat exchangers and pumps

SonFlow A/S is specialized in manufacturing centrifugal pumps within all industries and plate heat exchangers to use in thermal processes.

SonFlow offers a broad range of products for different applications - you can rely on SonFlow specialists to take a professional approach to your specific challenge and solve difficult pumping and plate heat exchanger applications.



Aage Søndergaard Nielsen
Founder & CEO



DanPumps Inline Pumps

Designed for Industrial and Marine Applications

The DanPumps Pump programme for industrial, marine and chemical applications, covers inline pumps in sizes from DN40 to DN250.

The pumps are delivered with housing in either cast iron for industrial applications or bronze for harsh medias and the marine industry.



DanPumps Sanitary Pump

Gentle Product Treatment and High Energy Efficiency

The DanPumps sanitary pumps offer exceptional levels of hygiene as the pumps are some of the most trouble-free and hygienic pumps on the market today. DanPumps centrifugal pumps are designed with low surface roughness and are specially designed for CIP (Cleaning in Place). The extremely low noise level and good NPSH is securing an excellent suction capacity and a gentle product treatment through the unique internal geometry. All sanitary pumps from DanPumps have been approved according to the EHEDG guidelines.

Easy maintenance and Pipe Connections

The supporting legs are designed for easy service as they are moved under the motor during service. This in combination with the easy removal of the front-loaded seals without any use of special tools means, that the DanPumps sanitary pumps are among the most service-friendly on the market today.

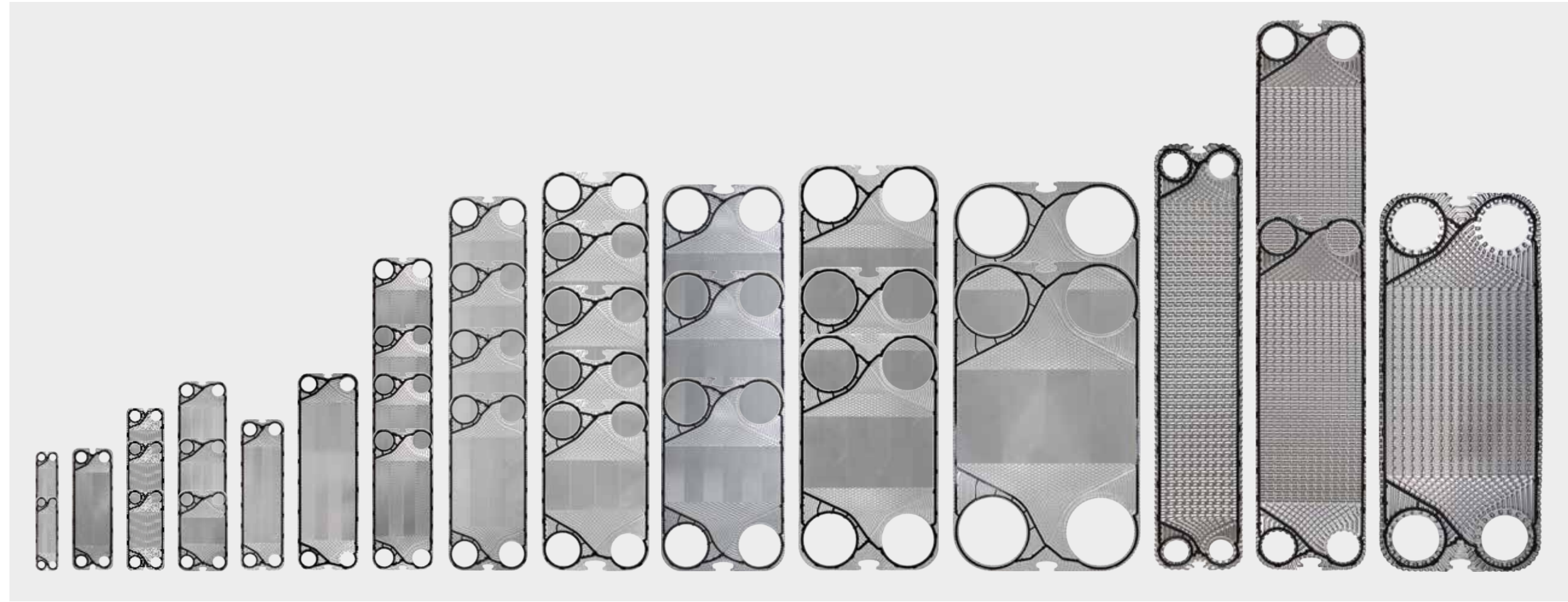
DanPumps End Suction Pumps

Industrial and Marine Pumps

SonFlow has expanded its range with a number of new DanPumps pumps ideal for industry. The energy-efficient pumps are designed for clean or slightly contaminated low viscosity liquids without solid and fibrous particles.

The industrial pumps are available in 5 different variants with connections from DN32 to DN600 mm and fit perfectly, together with our plate heat exchangers.





SonFlow Plate Heat Exchangers & Pumps Program

Gasketed Plate Heat Exchangers

Based on more than 40 years of experience with plate heat exchangers, SonFlow has developed a new modern and extremely efficient plate design, which gives a very high heat transfer per pressure drop. The strong plate design means that a thinner plate can be used, which also improves the overall heat transmission.

SonFlow offers a wide range of gasket plate heat exchangers suitable for all types of industries and multiple applications from heating, cooling and heat recovery to condensation and evaporation.

Danish design, technology & quality

Our corrugated plates are optimised to meet specific temperature demands and capacities in HVAC, industrial, marine or hygienic applications. Depending on the quality of the fluids used, SonFlow gasket plate heat exchangers are available in a range of high-quality plate materials to ensure corrosion resistance: AISI 304/316, SMO, titanium and nickel.

The design of the corrugated plates optimizes heat transfer by providing a large but compact total surface area whereby the heat can be drawn from one liquid or gas to another.

An optimized flow distribution

An optimized flow distribution reduces fouling and uneven temperature zones keeping the performance levels high over

time without unnecessary energy losses, maintenance costs or unplanned stops.

Product range

Plates are available with various pressing depths, corrugations and thermal lengths. All are carefully designed and selected to achieve optimal performance - depending on the application, each product range has its specific plate features.

Designed to meet your needs

We offer the best solution at the best price; with our extensive range of traditional, wide gap, freeflow and brazed plate heat exchangers as well as pumps. If required, we combine several different varieties of heat exchangers to ensure that you get the best possible solution.

Energy-efficient total solutions

SonFlow offers a complete range of highly powerful pumps, which combined with our plate heat exchangers can be delivered as a complete total solution.

When calculating a total solution, we consider all aspects for both the pump and plate heat exchanger, to ensure ideal pressure drop and flow rate - the solution becomes energy-efficient and environmentally friendly.

Technical specifications:

- Connections from DN25 to DN400
- Frames designed according to PED 2014/68/EU (EN13445) and ASME sec VIII, Div. 1 construction standards
- Plate materials: AISI304/316, titanium, SMO, nickel
Other materials available upon request
- Gasket materials: EPDM, NBR and Viton
- Plate heights up to 3.5 m
- Working pressure up to 25 bar (363 psi)

Applications:

- HVAC industry
- Marine/offshore industry
- Dairy/food/beverage industry
- Sugar industry
- Biogas industry
- Pulp and paper industry
- Heavy industry
- Mining industry
- Petrochemical industry
- Chemical industry
- Electronics

SonFlow Benefits:

- A short pay-back period on investment
- High thermal efficiency due to knowledge, experience and the design
- Simple installation
- Each heat exchanger is individually designed and configured the specific application
- Expandable - saves time and money
- High efficiency – due to the corrugation, very high turbulence is achieved at a relatively low fluid velocity
- Compact size
- Multiple duties in a single unit – can be built in sections, separated with intermediate plates or more complicated intermediate frames
- Easy cleaning

Freeflow Plate Heat Exchangers

SonFlow's series of freeflow plate heat exchangers are ideally suited for difficult medias containing solids, particles, fibres, and high viscosity. With wide channels and no plate contact points in the flow direction, gentle treatment of the product and low risk of fouling are ensured.



Gasket Plate Heat Exchangers

SonFlow offers a wide range of gasket plate heat exchangers for many different applications suitable for all industries.

Our units are optimized to meet specific temperature requirements and capacities.



Brazed Plate Heat Exchangers

SonFlow now also offers a wide range of copper brazed plate heat exchangers (BPHE) for a wide variety of applications suitable for HVAC, refrigeration and industry.

The permanently sealed BPHE secures an optimal heat transfer and energy efficiency in a temperature range from -180 to 185°C and pressure up to 30 bar.