

Catch the heat above and beneath
NHP - Nordic Heat Pumps



Times and markets change

The demand for heat pumps today is driven by the needs of the future. It is more than a reflection of the trend to lower CO₂ emissions in accordance with the Kyoto protocol. The economic interest of countries in lowering their dependency on oil and gas as prices rise is also pushing developments that are rational from production to end-use.



By using the electricity grid and supplying it with environmental friendly energy such as hydronic, wind and solar energy, heat pumps will be able to offer green heat everywhere.

The heat beneath

Heat pumps use the energy stored in the surrounding air, ground or water to provide comfort. Their higher efficiency (COP) means higher utilization for the customer and further environmental gains. Energy from the environment is free, so pump it up!

A new perspective

The awakening market means growth, but also increasing diversification. Meeting the challenges of the market is an enormous challenge, not only for heat pump builders but also for all component suppliers. Optimizing machines for reliability and efficiency while adding multifunctionality such as free or reversed cycle cooling and integration with auxiliary heat sources requires passion and focused technology. With SWEP NHP you will experience heat pumps in a new perspective.

More than a supplier

With the largest brazed plate heat exchanger (BPHE) range, SWEP offers world-class solutions for all heat pump functions, including hot water desuperheaters, COP-boosting sub-coolers and intermediate heat exchangers for integrated functions. The development of optimized heat pump evaporators and highly efficient condensers further increases the advantages of using SWEP NHP in your heat pump. Our application knowledge and comprehensive range make us more than a supplier.

The increasing need for environmentally friendly heating solutions is focusing on the free energy from the sun. The heat pump uses this free energy and gives several times more useful energy than is supplied to the system.



Defining heat and passion – NHP

What we share is our passion for heat pumps. SWEP focuses on solutions specially adapted for heat pump applications under the brand name Nordic Heat Pumps (NHP). The SWEP NHP mark is your guarantee of an effective and optimized product for dedicated heat pumps.



Extensive R&D, hands-on experience of heat pumps and collaborations with Universities and compressor manufactures form the backbone of SWEP's NHP venture.

Focus on the solution

SWEP's task is to supply optimized heat exchanger solutions to all customer segments and applications in the heat pump world. Focusing on real-life tests, cooperation with universities and market-leading compressor manufacturers, SWEP has the application knowledge and the optimized heat exchangers to make the difference.

Knowing by doing

To be excellent you must establish what is important, and focus on it. SWEP used its extensive experience from refrigeration and air conditioning applications and applied it to meeting the requirements of the heat pump. Being able to do real-life heat pump tests in our laboratory gave us the knowledge to optimize the evaporator and the condenser, both for seasonal performance and in accordance with European test standard EN14511. We wanted to know, and we followed through.

Predicting the future

Models for NHP in SWEP's SSP calculation software allow the performance of BPHEs to be pinpointed with precision. SSP-NHP is loaded with dedicated heat pump correlations that take into consideration small temperature approaches and the most common brines used for heat pump applications. This finely tuned tool makes it possible to tailor the heat pump's performance to your requirements.



The SWEPP development process includes extensive simulation and testing to find the best functionality. After verification, the results are implemented in the SSP calculation program for accurate prediction.

Heat pump applications

- Air / Water / Ground heat pumps
- Refrigerants
- Heat exchange functions
- Performance requirements

Applied R&D and product development

- BPHE optimization
- Performance tests
- Heat pump verifications

NHP solutions

- Predictable results
- Dedicated products
- Easy to implement
- Cost-effective

Together with you and your market

SWEP NHP operates with state-of-the-art prediction, ordering and logistics solutions, giving you the best service from selection to delivery. Focusing on providing exactly what is valuable, NHP can offer extremely cost-effective solutions. It is easy to be a SWEP NHP customer.



Diversifying growing markets requires not only the right product - but also the right product when you need it in right time. A fast and reliable access is therefore crucial - and a partner that shares the ambition - Nordic Heat Pumps.

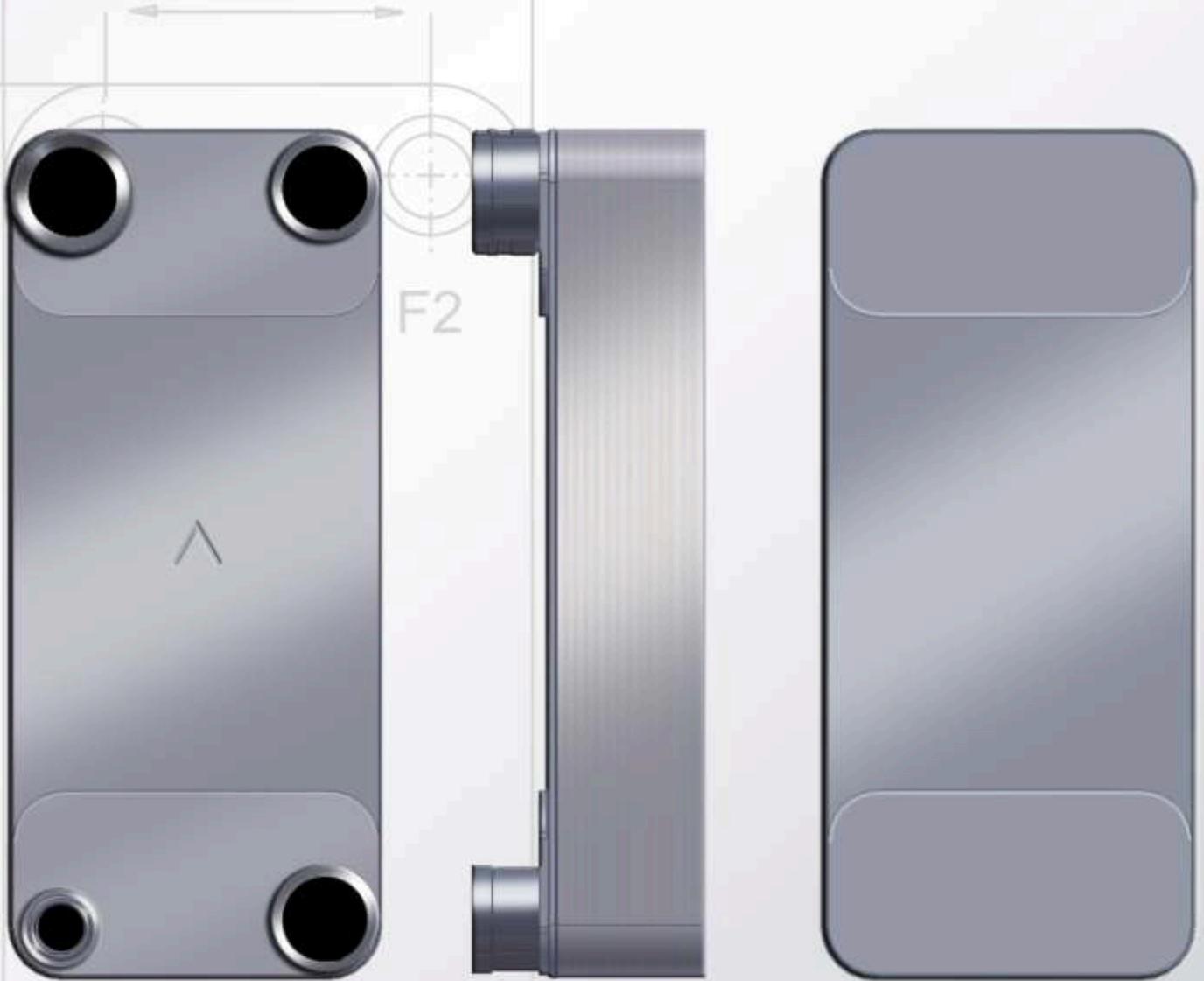
Working with the market

SWEP has offices all over Europe, making it sensitive to national and international trends in heat pump development. Experts monitor local markets with an understanding of national market differences.

Simplicity of SWEP NHP

It is easy to become a SWEP customer using the NHP toolbox:

- Easy to select
Performance-verified heat exchangers, predicted in SSP-NHP or via Selection Tables, make selection easy and reliable.
- Easy to integrate
NHP heat exchangers are optimized for OEM integration, with connections compatible with other components in the refrigerant circuit.
- Easy to buy
You can order via the internet, with online details of stock availability and price, for delivery within days.
- Easy to acquire
Minimize your financial exposure by acquiring the number of units you need – no more, no less – from SWEP's centralized warehouse with Just In Time (J.I.T.) logistics.



F3

F4

Your requirements

- Understanding your application
- Identifying key parameters

Our solutions

- NHP knowledge
- Precise selections
- Transparent eBiz solution
- Stock availability

Recommended actions

- NHP proposal
- Prototypes
- Ramp-up

Making state-of-the-art technology easily available and affordable, SWEP NHP focuses on what is important to make your business grow.

SWEP is the world's leading supplier of compact brazed heat exchangers (BPHEs). These products are used where heat needs to be transferred efficiently in air conditioning, refrigeration, heating and industrial applications. SWEP has annual sales of USD 250 million and is close to its customers, with representation in more than 50 countries and its own dedicated sales force in more than 20 countries. Highly efficient production units in Sweden, Switzerland, the USA, Malaysia, Slovakia and China enable SWEP to serve customers all over the world. SWEP is part of the global Dover Corporation, which is a multi-billion-dollar, NYSE-traded, diversified manufacturer of a wide range of proprietary products and components for industrial and commercial use.