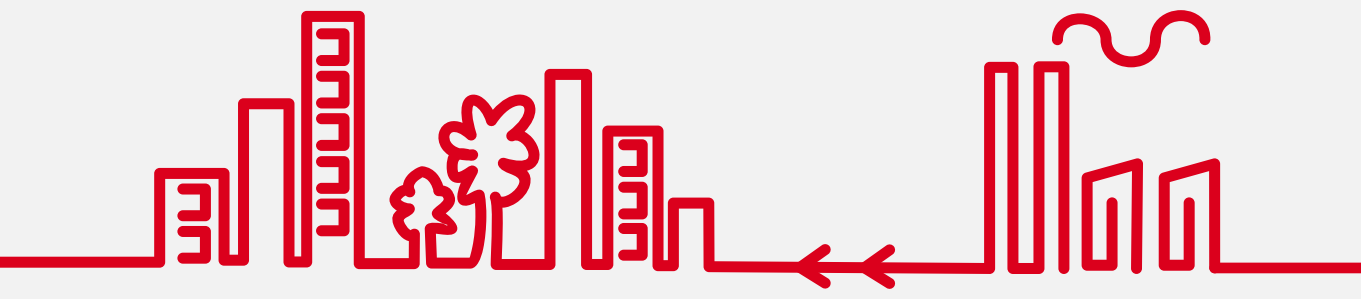


The next generation of district energy heat and cooling networks

District energy describes the process through which to efficiently heat or cool buildings through an underground network of pipes and substations. In much of northern Europe, district heating and cooling networks have been a mainstream option since the oil crisis of the early 1970s.

The effectiveness and efficiency of heating and cooling networks is entirely dependent on heat exchangers which hydraulically separate the circuits. This enables them to withstand high design pressure and allows the components to manage the heavy load.



In many cases, traditional solutions like Shell and Tube heat exchangers (S&T) or gasketed plate heat exchangers (PHE) have been used but these take up a lot of space and require regular maintenance.

SWEP has pioneered the development of the gasket-free brazed plate heat exchanger (BPHE) which has several clear advantages. The BPHE maximizes the most efficient transfer of energy and the lifecycle cost over a period of 15-20 years can often be halved compared with gasket-plate solutions.

The latest generation of heating and cooling networks benefit from cloud-based technology. Digital heating uses state-of-the-art energy management software. The technology manages and forecasts the output of heating and cooling networks, where the heat exchanger plays an important role in managing the passage of hot and cold water through the pipes. Digital energy systems enable organizations to analyze and reduce energy costs and consumption, simply and effectively.

Here are 4 key benefits you get when you specify SWEP BPHEs.

Less maintenance

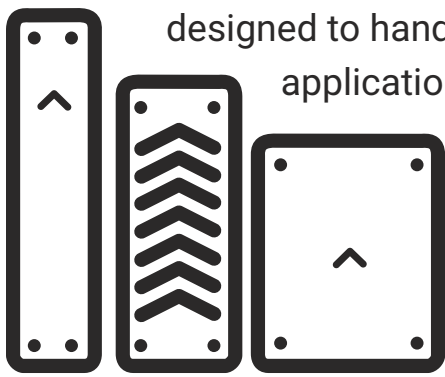
mean lower lifecycle costs

SWEP BPHEs deliver efficiency and reliability throughout their lifecycle. Gasket-free BPHEs mean minimal maintenance, less cost on spare parts and reduced downtime for cleaning.



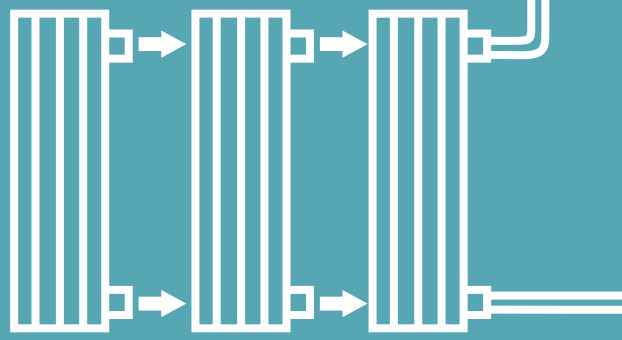
More for less

SWEP BPHEs are lightweight and compact, expertly designed to handle demanding district energy applications with close temperature approaches and high operating pressures. A BPHE-based system will exchange heat more efficiently in relation to the size of its footprint.



Flexible and modular

Designed as smaller units, BPHEs allow you to expand your system if required. If you previously needed extra capacity for redundancy purposes only, you can now have a heat exchanger solution that perfectly matches your needs.



Compact for easy installation

The compactness of a brazed plate heat exchanger allows for quick installations, whether a retrofit or a new system. Delivered in compact units, a BPHE can normally be moved using a regular hand truck and fits into most elevators.

