

Container heating system for public utility



DK-Dampfsysteme GmbH & Co. KG specializes in the planning, manufacture and installation of steam and condensation systems. SWEP's B649 brazed plate heat exchanger is used in their mobile system for a public utility in Bruneck, Italy.

Family company

The main office and production site of DK-Dampfsysteme is based in Freilassing, in the Berchtesgaden region in Germany. The company was founded in 1997. Having worked in the industry for decades, the founder and owner Hans Dankl brought his vast knowledge and extensive experience into the business. His son Sascha Dankl has been managing director since 2004, as the second generation of the family to occupy this position. He sees his primary focus as being to expand international sales and open up new markets.

Container systems

Mobile heating can be provided if space is limited or for flexibility if the site is expected to change. The compact container system from DK-Dampfsysteme incorporates a complete, highly flexible and fully functioning steam boiler for the most restricted spaces. One example is this system, supplying heat for the district heating system in the village of Gais. The mobile system was chosen for the flexibility of being able to use it in other locations. The system produces heat with a gas-fired steam boiler, and the heat is exchanged with SWEP's largest brazed plate heat exchanger – a B649 with a total of 386 plates. The maximum heat load in this case is 5,000 kW. The B649 was chosen for its compact design and high capacity, allowing a single unit to handle the high heat load in this very limited space.

SWEP BPHE B649M×386/1P-SC-S / 4" DN150C
 Carbon footprint 5770.9 kg CO₂e

Technical data	Side 1	Side 2
Media	Water	Water
Inlet / outlet temperature	55 °C / 90 °C	95 °C / 60 °C
Flow rate	34.07 kg/s	34.04 kg/s
Performance	5000 kW	
Heat exchanger surface area	251 m ²	
Pressure loss	20.8 kPa	20.9 kPa
Number of plates (NoP)	193	192
Number of plates in total	386	
Spare area	8%	



In the container:
Insulated SWEP B649

