

# SWEP DISTRICT HEATING STATION

## ISAC II



### **CUSTOMIZED SOLUTIONS WITH GUARANTEED PERFORMANCE**

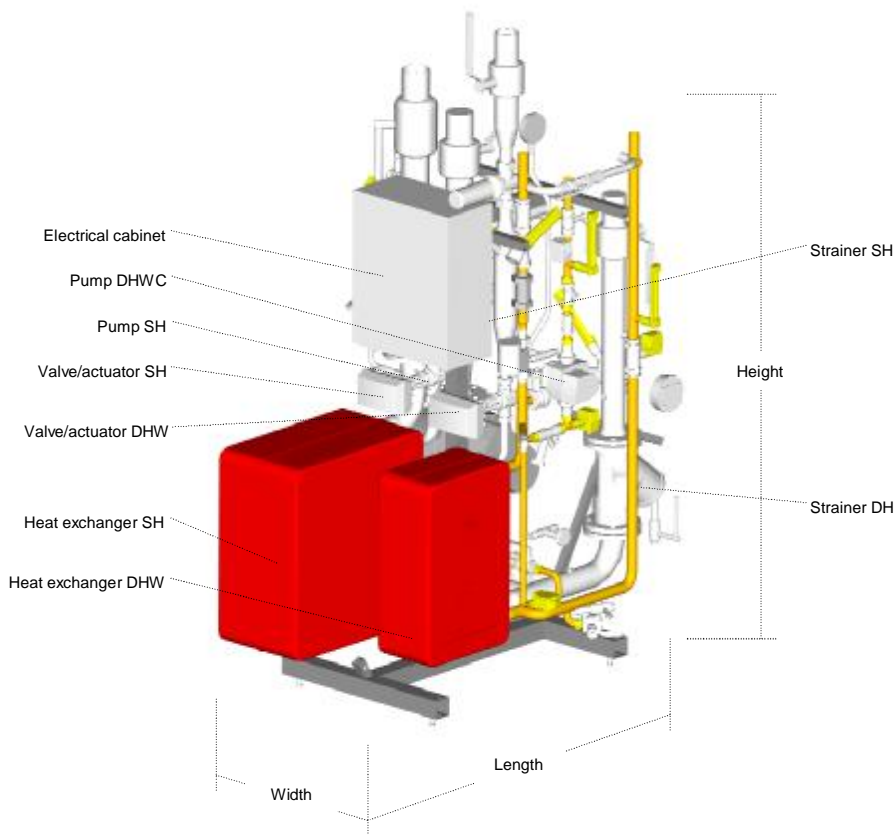
District Heating Stations from SWEP are customized solutions constructed to your specification using certified components. A standardized platform is used, which gives you the optimal performance of total customization plus the cost savings of mass production.

All systems are designed with our unique ISAC® (Interactive Simulation of Actual Conditions) software. ISAC takes real operating conditions into consideration and designs an optimal solution with the lowest life cycle cost. The software calculates the main components, incorporates the optional equipment required and makes a full price calculation. ISAC also generates all the necessary documentation, from technical specifications to detailed instructions for installation, operation and maintenance.

Our wide experience and knowledge of many different district heating markets means we will always be able to offer you attractive solutions. SWEP systems are safe, reliable choices for installation in residential, commercial and industrial buildings.

# DATA SHEET

## SWEP DISTRICT HEATING STATION, ISAC II



### Optimized solutions

District heating stations from SWEP are highly efficient and compact systems suitable for residential, office or industrial buildings connected to a district heating network.

Our unique design, analysis and simulation software, ISAC, optimizes all system components for the actual conditions in both the network and the building. The result are customized solutions with high energy utilization, improved indoor climate and the lowest life cycle cost (LCC).

### System components

The system includes separate circuits for heating, domestic hot water and, if required, ventilation. The circuits are based on SWEP's highly efficient, temperature- and pressure-resistant compact brazed heat exchangers, in acid-resistant stainless steel.

A wide range of optional equipment is available on the same flexible platform. It is all calculated in ISAC, ensuring an outstanding price-performance ratio.

All components are assembled as a system, electrically connected and factory-tested before delivery. The electrical cabinet includes the system controller, power switches and transformers.

### Quality

All our operations are certified in accordance with the ISO 9001-2000 quality system. Together with our unique software and our experience and knowledge of district heating systems, this ensures excellent performance and reliability.

Systems delivered within the EU comply with the pressure equipment directive (PED) 97/23/EC.



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TECHNICAL DATA		DH	SH	DHW
Pipe dimensions	DN	DN20-100	DN20-100	DN20-50
Max flow rate	m <sup>3</sup> /h	65 m <sup>3</sup> /h	65 m <sup>3</sup> /h	15 m <sup>3</sup> /h
Max operating/test pressure	bar(g)	16/24 bar	6/9 bar	10/15 bar
Max operating temperature	°C	120°C	100°C	70°C
Pipe material		Carbon steel	Carbon steel	Copper
Length	mm	1100-1600 mm		
Height	mm	1600-1800 mm		
Width	mm	650-780 mm		
Heat exchangers		SWEP Compact Brazed Exchangers		
Control equipment		TAC, Siemens, Danfoss		
Circulator pumps		Grundfos, Wilo		
Approvals		Europe, Pressure Equipment Directive (PED 97/23/EC)		

DH – District heating circuit, SH – Space heating circuit, DHW – Domestic hot water circuit

Above technical data relates to SWEP standard design. Other designs, pipe dimensions, operating pressure etc can be made available upon request.

For additional information please contact your local SWEP representative.  
SWEP reserves the right to make changes without prior notice