



SteamAqua®

Steam-Fired Instantaneous Water Heater

MODEL SQ 2/4/6

COMPACT HIGH CAPACITY INSTANTANEOUS WATER HEATER WITH SIMPLE OPERATION

Features

SteamAqua® quickly produces a stable supply of water up to 95 °C for heating and hot water supply for the food industry, chemical and pharmaceutical manufacturing as well as for building technology.

1. Hot water at the desired temperature will be supplied in moments.
2. Thanks to the spiral tube heat exchanger and efficient steam supply, the entire system can be packaged into a space-saving footprint of only 0.8 m² and moved through spaces as narrow as 83 cm.
3. Instantly connectable package simplifies installation with integrated control technology and control panel.
4. A built-in PowerTrap (steam trap/mechanical pump) enables reliable condensate drainage and prevents water hammer.
5. An integrated condensate preheater utilises heat from condensate to optimise energy efficiency.*
6. Simple and reliable operation with touch panel for temperature setting and system control.
7. Automatic shutoff functions prevent overheating.
8. To ensure long service life, stainless steel is used for piping and frame.

* only for SQ4 and SQ6



Specifications

Model	SQ2		SQ4		SQ6	
Thermal Capability Class	200 kW		400 kW		600 kW	
Maximum Operating Temperature	TMO		95 °C			
Maximum Temperature Increase*	40 °C		55 °C		60 °C	
Steam Control Valve Actuator Type	Electropneumatic					
Required Utilities	Power	230 V				
	Steam	PMO	Max. 13 barg			
	Cold Water (inflow)	PMO	Max. 10 barg			
	Air for Control Valve	PMO	4 to 6 barg	Oil-free air filtered to 5 µm		
Connections and Sizes (DN)	Steam Inlet	N1	DN 25 PN 25	DN 40 PN 25	DN 50 PN 25	
	Condensate Outlet	N2	DN 32 PN 40	DN 40 PN 40	DN 40 PN 40	
	Cold Water Inlet	N3	DN 40 PN 40	DN 50 PN 40	DN 65 PN 16	
	Hot Water Outlet	N4	DN 40 PN 40	DN 50 PN 40	DN 65 PN 16	
	Drain Plug	N5	BSP 1/2"			
	Air Supply for Control Valve	N6	L-fitting			
Approx. Weight (kg)	400		450		500	
Heating Method	Spiral Tube Heat Exchanger					
Data Recording	<ul style="list-style-type: none"> • Inlet and outlet temperature • Steam inlet and heat exchanger pressure • Valve opening • Visualisation of operating parameters • External input/output with Modbus-TCP or Ethernet (LAN) possible 					
Safety Functions/ Safety Equipment	<ul style="list-style-type: none"> • Integrated cooling system • Safety shut-off for overheating • Safety equipment in accordance with DIN EN 14597 • Safety Temperature Monitor (STM/TS+) • Safety Temperature Limiter (STL/TZA+) • Safety Pressure Limiter (SPL/PZA±) 					
Alarm Functions	High/Low Temp Warning, High/Low Pressure Warning for Primary and Secondary Sides, Maintenance Notification					
Technical Regulations	PED 2014/68/EU, DIN EN 12828, AGFW FW 519					
Installation Location	Indoors (dry installation; ambient temperature max. 35 °C)					
Applicable Fluids	Heating: Saturated Steam, Superheated Steam			Heated: Water (according to VDI2035)		

* Higher temperature increases on request

1 bar = 0.1 MPa

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS):

Maximum Allowable Pressure (barg) PMA: 10 secondary (water), 13 primary (steam)

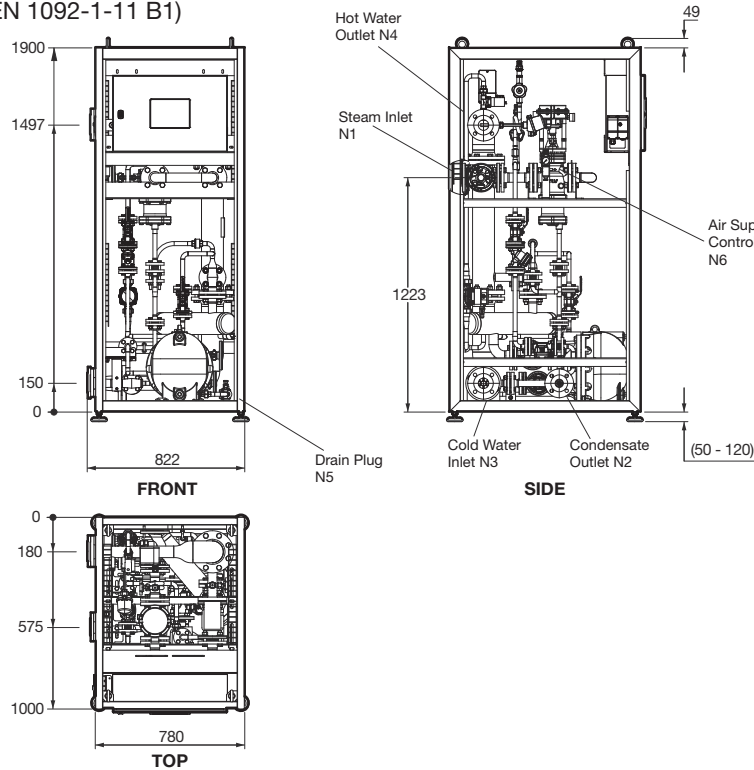
Maximum Allowable Temperature (°C) TMA: 105 secondary (water), 200 primary (steam)



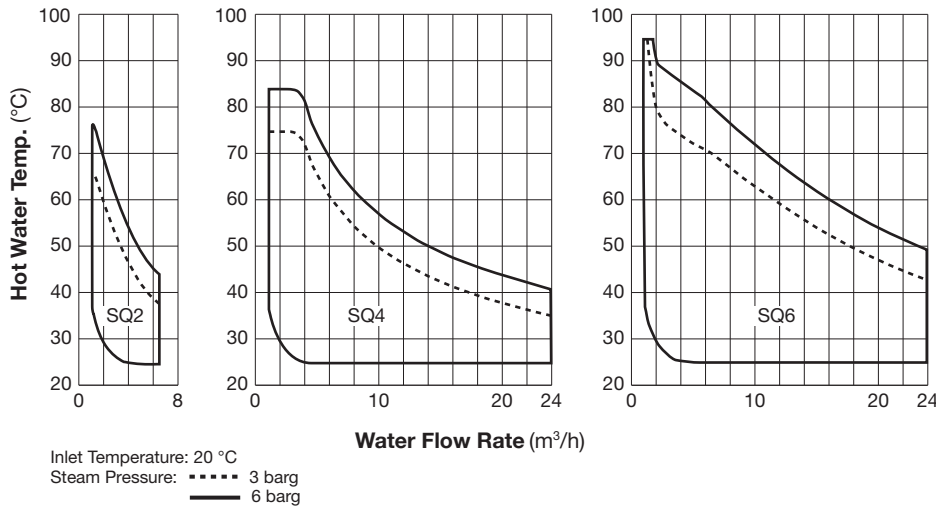
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

Dimensions

- **SQ** Flanged (DIN EN 1092-1-11 B1)



Thermal Capability



NOTE: The thermal capability charts shown here are for reference only. Thermal capability will vary with steam pressure and water inlet temperature. Consult TLV about actual selection as well as thermal capability.

Manufacturer: **TLV EURO ENGINEERING GmbH** (Germany, ISO9001)

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ISO 9001

