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# Explosion-proof Boilers

For storage of mains water Sinus Jevi Electric Heating manufactures hot water boilers for wall, vertical and horizontal mounting, provided with a flame proof immersion heater type D8640 or D8660.

The unit is supplied with a maximum temperature thermostat with manual reset and a water temperature thermostat till 80 °C.



**SINUS  
JEVI  $\Omega$**

**Type HWB 35 / 55 / 100****Ex de II C T4 Gb - Ex II 2 G according ATEX 94/9/EC**

For storage of mains water Sinus Jevi Electric Heating manufactures 3 types of hot water boilers for wall mounting, provided with a flame proof immersion heater type D8640 or D8660. The inner parts vessel of the boiler is performed of stainless steel EN1.4521 (AISI 444). The pressure vessel is designed and manufactured in accordance with the current pressure vessel standard (PED 97/23 EC § 3.3), for a maximum working pressure of 9 bar (0.9 MPa), which is the equivalent to a design pressure of 10 bar (1.0 MPa).

The outer part is of a coated steel with a grey synthetic material bottom and lid.

Provided with a maximum temperature thermostat with manual reset and a water temperature thermostat till 80°C.

The heating elements are manufactured of high quality Nickel Chrome resistance wire compacted in Magnesium Oxide insulating powder and encased in Incoloy 825 metal sheath.

Terminal enclosure steel coated with brass cable glands.

Type	HWB 35	HWB 55	HWB 100
Content	35 Litres	55 Litres	100 Litres
Capacity	1 or 3 kW*	1 or 3 kW*	1 or 3 kW*
Voltage	on request	on request	on request
Dimensions (H x W x D)	715 x 467 x 455 mm	900 x 467 x 455 mm	1270 x 467 x 455 mm
Protection	IP66	IP66	IP66
Insulation	CFC free	CFC free	CFC free
Pressure vessel	PED 97/23 EC § 3.3	PED 97/23 EC § 3.3	PED 97/23 EC § 3.3

\*Other capacities on request



**Type SWH ES 160 / 210 / 300 and 500**

**Ex de II C T4 Gb – Ex II 2 G – EN IEC 60079-1 according ATEX 94/9/EC**

**Flame-proof Storage Water Heater for vertical floor standing installation**

For storage of mains water Sinus Jevi Electric Heating manufacture 4 types of storage water heaters. The water tank is made of a steel vessel, with an internal layer of copper to protect against corrosion. The outer casing is made from robust plastic-coated galvanized steel sheet. The pressure vessel is designed and manufactured in accordance with current pressure standards (PED 97/23 EC § 3.3) for a maximum working pressure of 9 bar (0.9 MPa), which is the equivalent to calculated pressure of 10 bar (1.0 MPa). Thermal insulation is provided by seamless Freon – free polyurethane insulation, ensuring excellent thermal performance. The model SWH ES 500 is fitted with a lifting eye. The heater is intended for vertical floor standing installation. The flanged flame proof heater is made of stainless steel with a carbon coated enclosure with brass cable glands. Heating elements made of Incoloy 825. Standard 80 mm diameter flanged immersion heater can be easily fitted or removed, and the size of the hole facilitate internal inspection of the vessel. The unit is supplied with a maximum temperature thermostat with manual reset and a water temperature thermostat till 80 °C.



Type	SWH ES 160	SWH ES 210	SWH ES 300	SWH ES 500
Content	160 Litres	210 Litres	300 Litres	500 Litres
Capacity	3 or 6 kW*	3 or 6 kW*	3 or 6 kW*	3 or 6 kW*
Voltage	on request	on request	on request	on request
Height	980 mm	1210 mm	1380 mm	1695 mm
Diameter	Ø600 mm	Ø600 mm	Ø600 mm	Ø750 mm
Enclosure class	IP66	IP66	IP66	IP66
Net weight	70 kg	90 kg	115 kg	165 kg
Pressure vessel	PED 97/23 EC § 3.3	PED 97/23 EC § 3.3	PED 97/23 EC § 3.3	PED 97/23 EC § 3.3

\*Other capacities on request

**Type SWH EL 150 / 230 / 300**

**Ex de II C T4 Gb - Ex II 2 G - EN IEC 60079-1 according ATEX 94/9/EC**

**Flame-proof storage water heater for horizontal floor standing installation**

This water tank is made of stainless steel vessel and the outer casing is made from robust plastic coated galvanized sheet.

Type	SWH EL 150	SWH EL 230	SWH EL 300
Content	150 Litres	230 Litres	300 Litres
Capacity	3 or 6 kW*	3 or 6 kW*	3 or 6 kW*
Voltage	on request	on request	on request
Height	701 mm	701 mm	701 mm
Length	905 mm	1335 mm	1615 mm
Diameter	Ø600 mm	Ø600 mm	Ø600 mm
Enclosure class	IP66	IP66	IP66
Net weight in kg	70 kg	85 kg	100 kg
Pressure vessel	PED 97/23 EC § 3.3	PED 97/23 EC § 3.3	PED 97/23 EC § 3.3

\*Other capacities on request

Local building requirements might require an arrangement of valves in order to make a complete installation of the unit e.g. safety valve, check valve, cut-off valve and vacuum valve. These are not included in the delivery.



Sinus is one of the pioneers in the field of explosion proof heating equipment, today we are still operating at the forefront. We manufacture according to ATEX as well as IECEx and EAC directives.

For the production of Ex-proof equipment a PQAN (Product Quality Assurance Notification) is issued by TUV-Nord. Our ISO-9001 and ISO-14001 systems are also monitored by this organisation.

**NIBE**