

**ELECTRIC BOILER**

Fossil fuel independent heating

VITOTRON 100



ELECTRIC BOILER

Electric boilers are excellent for heating buildings not on the gas network and they are an ideal solution in energy saving construction.



Electric boilers are a modern, convenient, safe and ecological heat source.

It is aesthetic and easy to assemble

Installing a Vitotron 100 boiler is cost effective and extremely convenient as it doesn't require gas connection, building a chimney, boiler room or having areas for fuel storage; an electric connection is all that is required. The use of weather compensated control (VMN3 type) ensures high heat comfort and maintenance-free operation which, with a boiler efficiency of 99.4% (actual efficiency) ensures energy-efficient operation.

Electric boilers are also frequently used to support heating of the buildings where solid fuel is the primary heat source. With low operating costs, they provide a higher comfort of use and ensure temperature above freezing when users are not home. They are small appliances with neat appearance which can be installed practically everywhere.

Combined appropriately, the boiler can work together with a central heating buffer storage cylinder and in conjunction with new smart energy tariffs, would allow heat storage during periods of low electricity prices, ensuring even lower heating costs. Vitotron 100 can work effectively with any central heating system and separated heat exchanger to provide hot water convenience. It is equipped with a 5 L diaphragm exchange tank and the necessary security fittings. When it works with a separated heat exchanger for hot water, it is possible to regulate water temperature and attach a DHW circulation pump according to the daily and weekly settings.



VITOTRON 100

from 4 to 24 kW

Heating, independent from fossil-fuels

For homes and buildings off the natural gas network, solid fuel or high carbon fuel heating can be cheap options, but variable in cost when new fuel has to be purchased and regularly not convenient, as cleaning and maintenance are often a burden, especially in the case of biomass.

These problems disappear when Vitotron 100 is used to support heating, when either the fuel cannot be added or the solid fuel heater has been extinguished, for example in the morning. Additionally, when no one is home it is on standby to prevent freezing.

Storage heating system

The use of an electric boiler with a buffer cylinder for heat accumulation ensures convenient and inexpensive heating with relatively cheap costs of the system. Using a time of use tariff for reduced overnight charges, or in conjunction with new smart energy tariffs, heating costs can be significantly reduced.

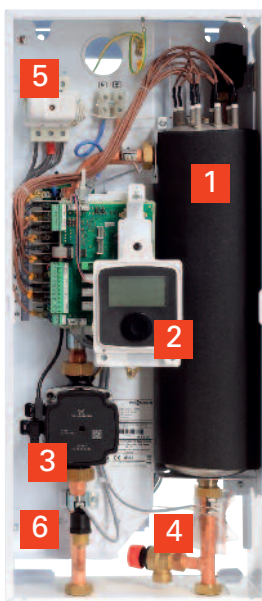
The automatic system can be externally controlled and thus cooperation with, for example, photovoltaics, is possible. This makes the operation of the boiler even cheaper, as free electric energy from the roof is primarily used. Combining the advantages of heat accumulation and free energy production by photovoltaics ensures the lowest heating costs.

The use of electric boiler Vitotron 100 in addition to solid fuel heating, only raises operating costs marginally. However, the benefits from a greater operating comfort of the entire system are enormous.



HOW WILL VITOTRON 100 CONVINCE YOU?

- + Control panel allows regulation of water temperature in the heating circuit from 20 to 85 °C.
- + Automatic heater power modulation depending on the temporary demand for heat.
- + The boiler can work with any central heating system and separated heat exchanger to provide hot water convenience.
- + Weather-compensated control ensures the most energy efficient boiler operation thanks to an automatic response to external temperature changes.
- + The control allows programming of temperatures in heated areas in 24-h and 7-day cycles.
- + Single phase is 4-8 kW and can be set at 4, 6 or 8 kW. Three-phase is 4 to 24 kW.







VITOTRON 100

- 1 Heater power modulator
- 2 Control panel available as either constant temperature (VLN3) or weather compensated (VMN3)
- 3 Highly efficient transfer pump
- 4 Safety valve
- 5 Thermal security
- 6 Minimum pressure sensor

Electric boiler

VITOTRON 100

Vitotron 100	Supply voltage 230 V~			
Nominal power	kW	4	6	8
Nominal electricity consumption	A	17.4	26.1	34.8
Minimum power cable cross-section	mm ²	3 x 2.5	3 x 4.0	3 x 6.0
Maximum power cable cross-section	mm ²	3 x 16	3 x 16	3 x 16
Pressure allowed	MPa	0.3 (3 bar)	0.3 (3 bar)	0.3 (3 bar)
Outlet temperature	°C	20 to 85	20 to 85	20 to 85
Allowed temperature	°C	100	100	100
Dimensions				
height	mm	716	716	716
width	mm	316	316	316
depth	mm	235	235	235
Weight	kg	20.5	20.5	20.5
Energy efficiency class				



Vitotron 100	Supply voltage 400 V~ 3 N (three-phase)							
Nominal power	kW	4	6	8	12	16	20	24
Nominal electricity consumption	A	3 x 5.8	3 x 8.7	3 x 11.6	3 x 17.4	3 x 23.1	3 x 28.8	3 x 34.6
Minimum power cable cross-section	mm ²	5 x 2.5	5 x 2.5	5 x 2.5	5 x 2.5	5 x 4.0	5 x 4.0	5 x 6.0
Maximum power cable cross-section	mm ²	5 x 16	5 x 16	5 x 16	5 x 16	5 x 16	5 x 16	5 x 16
Pressure allowed	MPa	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		(3 bar)	(3 bar)	(3 bar)	(3 bar)	(3 bar)	(3 bar)	(3 bar)
Outlet temperature	°C	20	20	20	20	20	20	20
		up to 85	up to 85	up to 85	up to 85	up to 85	up to 85	up to 85
Allowed temperature	°C	100	100	100	100	100	100	100
Dimensions								
height	mm	716	716	716	716	716	716	716
width	mm	316	316	316	316	316	316	316
depth	mm	235	235	235	235	235	235	235
Weight	kg	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Energy efficiency class	