

Item no. 1950

Immersion heater – for automatic and self-regulated preheating of the engine cooling water to a temperature of approx. 40°C. The temperature is set directly on the immersion heater.

Independent from engine operation the cooling water pump and the immersion heater are switched on or off ("Operation - Heating - ON/OFF").

The cooling water is preheated to improve the starting quality of the engine and to reduce wear and tear during the starting process.

2.1.5 Technical data

Basic biogas characteristics, i.e. characteristics of the biogas delivered to the gas inlet of the plant implemented by **HAASE Energietechnik**.

Temperature:	20 to 30 °C
Pressure:	80 to 100 mbar
Moisture:	approx. 60 %
Density:	approx. 1.192 kg/m ³ (4*)
Minimum calorific value:	6.0 kWh/m ³ (4*)
Limit set point H ₂ S:	1500 ppm/m ³ CH ₄ (4*)

Gas engine for 65 Vol.-% CH₄

Engine output (2*):	740 kW
Exhaust temperature:	approx. 542 °C
Exhaust gas / mass flow rate (wet):	approx. 3,912 kg/h
Combustion air / mass flow rate (2*):	3,425 kg/h
Ventilation / flux (3*):	approx. 21,000 m ³ /h

Gas engine for 65 Vol.-% CH₄

Power output (1*):	716 kW
Fuel consumption:	approx. 1,999 kW
Electric efficiency:	35.8 %
NO _x emissions (4*) O ₂ -value 4%:	500 mg/m ³ n

Generator

Efficiency:	96.8 %
Frequency:	50 Hz
Voltage:	400 V

Exhaust silencer

Acoustic sound level at a distance of 10 m:	65 db(A)
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