HELAGO-CZ, s.r.o.
Commercial Register maintained by the Regional Court in Hradec Králové
Section C, File 17879
Kladská 1082
500 03 Hradec Králové 3
Company ID: 25 96 39 61, VAT: CZ 25963961
Phone: 495 220 229, 495 220 394
Fax: 495 220 154
GSM gate: 602 123 096
E-mail: info@helago-cz.cz
Web: http://www.helago-cz.cz

ET 292 Fuel cell system

Order code: **5201.06129200**

Information about product price on demand

Parameters

Quantitative unit	ks

GUNT ET 292

System allows for the investigation of a polymer-membrane fuel cell, integrated into a water-cooled combined heat and power system.

The hydrogen supply is provided via a standard pressure vessel, and a high-pressure reducing valve is included for safe operation.

Oxygen is sourced directly from the ambient air, eliminating the need for an external supply.

The system enables precise adjustment of all operating points via an electronic load, allowing users to explore various performance parameters.

It operates without external humidification and is equipped with sensors for flow rate, pressure, temperature, voltage, and current strength.

The complete system operation and data evaluation are carried out via a PC running GUNT software, with control functions and data acquisition via USB under Windows 10.

Technical Data & Specifications

- **Nominal Output**: 250W
- **Thermal Power**: ~400–500W (depending on ambient conditions)
- **Required Ambient Temperature**: 5–35°C
- **Required Inlet Pressure**: 2–200bar

Measuring Ranges

- **Flow Rate**:
  - Cooling Water: 0–0.5L/min
  - Hydrogen: 0–20sL/min
  - Air: 0–100sL/min
- **Pressure**: 0–500mbar (hydrogen)
- **Temperature**:
  - Ambient: 0–50°C
  - Stack: 0–70°C
- **Humidity**: 0–100% (ambient)
- **Voltage**: 0–40V (stack)
- **Current**: 0.1–20A (stack)

Power Supply

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase
- 120V, 60Hz, 1 phase
- UL/CSA optional

Dimensions & Weight

- **LxWxH**: 1750x780x1770mm
- **Weight**: ~180kg

Required for Operation

- Hydrogen (purity 3.0) in a pressure vessel
- PC with Windows