

Introducing the WFE Hydrogen Generator...

HydroGen™

Technical Data

Water Fuel Engineering specialises in research and development of Alkaline Electrolysers and pulse electrolysis control systems along with their applications in a number of industries.

There are two types of Alkaline Electrolysers; a 12 V and a 24V, with the following technical characteristics:-

12V Alkaline Electrolyser

- Operating voltage range – 12V to 14,2V
- Current consumption – up to 21 Amps
- Gas production – up to 5 liters per minute
- Dimensions – W - 250mm; H – 200mm; D – 200mm
- Operating controlled pressure – up to 4atm /The current version is set to work up to 0.5atm due to standards restrictions/

24V Alkaline Electrolyser

- Operating voltage range – 24V to 28.5V
- Current consumption - up to 21 Amps
- Gas production – up to 10 liters per minute
- Dimensions – W – 420mm; H – 200mm; D – 200mm
- Operating controlled pressure – up to 4atm / The current version is set to work up to 0.5atm due to standards restrictions/

Data subject to change without notice

Pulse Electrolysis Control System.

The Pulse Electrolysis Control System is designed to manage the gas production process. Essentially the system works with feedback information from the pressure sensor located at the gas exit. This information guides the control unit in order to deliver the required pressure. The Pulse Electrolysis Control System monitors all crucial parameters of the process – voltage, current consumption, temperature, pressure etc. The system also has two pressure protections as well as temperature protection, voltage protection and current consumption protection to ensure the safe operation of the Electrolyser at all times.

Performance figures.

CO₂ (ppm) – up to 64% reduction

CO (%) – up to 85% reduction

HC (ppm) – up to 53% reduction

Opacity – up to 52% reduction

Fuel reduction – up to 35%

Picture of HidroGen unit instalation on a Trailer-Truck. Example only



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