

ONSITE HYDROGEN PRODUCTION

ALKALINE ELECTROLYSER MODEL 24.00D / 32.00D



PRODUCTION CAPACITY

Model 24.00D – 16.0 Nm³ hydrogen per. hour
 Model 32.00D – 23.3 Nm³ hydrogen per. hour
 Units can be connected to increase capacity

MAIN FEATURES & OPTIONS

- Water purification system
- Electrolyser system
- Hydrogen purification system
- Hydrogen compression & buffer storage
- Remote surveillance system
- Integrated in complete turn-key solution
- Full service package

TECHNOLOGY & SYSTEM LAYOUT

Hydrogen is produced through perfectly alkaline electrolytic dissociation of water into hydrogen and oxygen gases by use of electricity.



TECHNICAL SPECIFICATIONS

| | MODEL NO 24.00D | MODEL NO. 32.00D |
|--------------------------------------|---|---|
| Hydrogen Production | 16.0 Nm ³ /hour | 23.3 Nm ³ /hour |
| Electricity consumption / supply | 81 kW /hour @ 3x400VAC 50Hz | 108 kW /hour @ 3x400VAC 50Hz |
| Deionised water consumption | 13.6 litre/hour | 18.0 litre/hour |
| Hydrogen purity | STANDARD: 99.3-99.8 OPTIONAL: up to 99.9995% | STANDARD: 99.3-99.8% OPTIONAL: up to 99.9995% |
| Outlet gas dew point | STANDARD: Saturated at ambient temp. OPTIONAL: down to -80°C | STANDARD: Saturated at ambient temp. OPTIONAL: down to -80°C |
| Outlet gas Pressure | STANDARD: 4 bar OPTIONAL: up to 12 bar | STANDARD: 4 bar OPTIONAL: up to 12 bar |
| Environment temp. | 5-35°C | 5-35°C |
| Dimensions (Length X Depth X Height) | 1700 mm X 2150 mm X 2200 mm | 1700 mm X 2150 mm X 2200 mm |
| Weight | 2450 kg | 2700 Kg |
| Other/options | CE approved with full documentation | |
| | Optional parallel connection of several units to increase production capacity | |
| | Optional remote surveillance control system through Internet | |
| | Optional full service contract | |
| | Optional compression & buffer storage allowing for flexible supply independent from production | |
| | Optional purchase of green electricity to eliminate CO ₂ emissions from the production process | |

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Hydrogen Fuel Cell Motive Power Solutions