

PEM - Electrolysers

PROTON EXCHANGE MEMBRANE

Gas Production

| | Hydrogen | Oxygen |
|--|----------|---------|
| Max. output pressure | 30 barg | 14 barg |
| Purity without additional purification | >99.9 % | >97 % |

Hydrogen Purification System

Industrial purification system with automatic regeneration.
The hydrogen purity according to ISO 14687-2 for the use in fuel cell vehicles is met.

| | |
|----------------------|----------|
| Max. hydrogen purity | 99.999 % |
|----------------------|----------|

Feeding Water (Tap Water)

| | | |
|--------------------|--|--------------|
| Water quality acc. | 98/83/EG Pressure | 2 to 6 bar |
| PH | 4 to 10 Temperature | +5 to +35 °C |
| Water treatment | Integrated Reverse Osmosis System (ROS) + electro de-ionisation system | |

Power Input

| | |
|-----------|--|
| Voltage | From 400 V AC to high voltage, alternatively a transformer can be included |
| Frequency | 50 Hz |

Safety Norms and Regulations

| | |
|------------|--|
| Compliance | Machine directive 2006/42/CE Pressurised equipment directive 2014/68/UE Low voltage directive 2014/35/UE Electromagnetic compatibility directive 2014/30/UE ATEX directive 2014/34/UE CE Mark |
|------------|--|



ELYTE 50

Specification

| Hydrogen Production | |
|--|-------|
| H ₂ flow rate [Nm ³ /h] | 50 |
| Oxygen Production | |
| O ₂ flow rate [Nm ³ /h] | 25 |
| Operating range | |
| Hydrogen production [%] | 5-100 |
| Power input [%] | 5-100 |
| Feeding Water | |
| Consumption [l/Nm ³ H ₂] | < 2 |
| Installed Power | |
| Electrolysis [kW] | 250 |
| Power [kVA] | 350 |
| Specific Energy consumption | |
| Stack consumption [kWh/Nm ³ H ₂] | 4.3 |
| System consumption [kWh/Nm ³ H ₂] | 4.9 |
| Footprint | |
| Dimensions (containerized version) | 20' |

