

# Vega

## Hystar's containerized solution



- ✓ World's most efficient electrolyser across the full operating range
- ✓ Reliable and inherently safe design - the world's safest H<sub>2</sub>-O<sub>2</sub> gas management
- ✓ Scalable solution that fits a vast range of project sizes

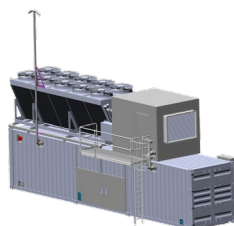
Get in touch:



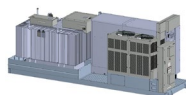
# Vega - Hystar's 5 MW containerized solution

## Technical Specification

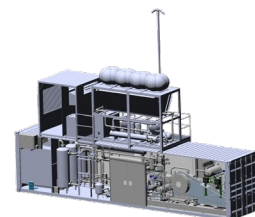
### Process Unit (Vega 1000)



### Power Unit



### Conditioning Unit



Scope	Water Purification, PEM Core Process, Cooling	Transformer, Rectifier	Deoxodryer	Compressor, Deoxodryer, Cooling
Efficiency <sup>1</sup> (kWh/kg)	48.8	1.9	0.4	1.4
Overall Efficiency <sup>1</sup> (kWh/kg)	48.8	50.7	51.1	52.7
H <sub>2</sub> Output (kg/h)	92	-	92	91
Overall Nominal Power (MW)	4.5	-	4.7	4.8
H <sub>2</sub> Outlet Pressure bar(g)	4	-	4	30
H <sub>2</sub> Outlet Temperature (°C)	60	-	30	
H <sub>2</sub> purity <sup>2</sup> (%)	-	-	99.97 (optional 99.999)	
Operating range (%)	0-100	0-100	15-100	

Partial load system energy consumption <sup>1</sup>	25%	50%	75%	100%	-
4 bar(g) solution	49.6	48.8	49.8	51.1	kWh/kg
30 bar(g) solution	54.1	50.9	51.6	52.7	kWh/kg

## Key Parameters

Ambient temperature (°C)	-20 to 40 (optional -40 to 55)
Cold start-up time (minutes)	< 5
Warm start-up time (seconds)	< 30
Dynamic response (%/s)	10
Communication protocol	SCADA (HMI & Remote Control)

<sup>1</sup>At rated (100%) production capacity at the Beginning of Life (BOL) and standard ISO conditions (15 °C, 101.325 kPa)

<sup>2</sup>ISO 14687:2025 (Grade D) Hydrogen impurities are oxygen, water, nitrogen. Additional purification can be applied upon request