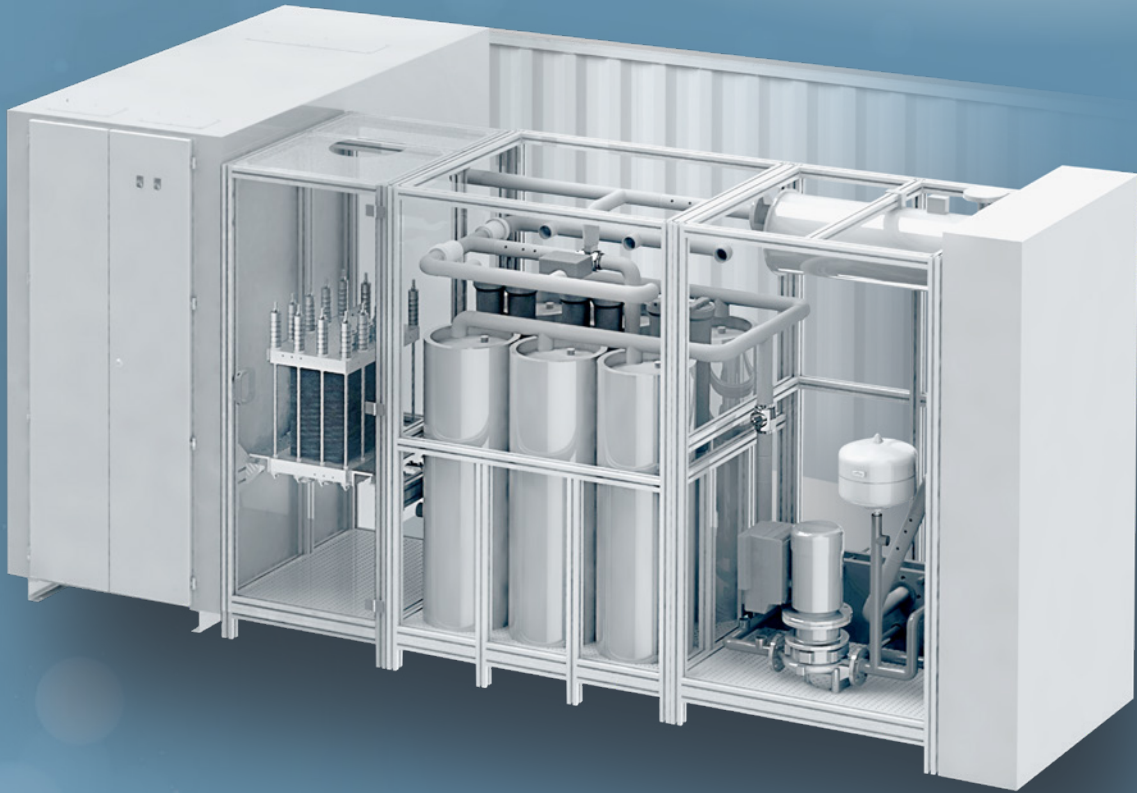


Hydrogen is now.

H-TEC SYSTEMS



H-TEC Series-ME: ME 100/350*

READY. SET. SUPPLY.

PEM Electrolyser – The connecting link for sector coupling and the decentralised production of hydrogen.

*The figure shows the core elements of the electrolyser.

MADE IN GERMANY 

A GP JOULE COMPANY

INNOVATIVE PRODUCTS

for your supply of hydrogen.

→ The ME 100/350 PEM Electrolyser belongs to the ME series from H-TEC and is currently the most powerful electrolyser in the megawatt class product range. For use in industry where hydrogen is required as well as when the quality of an electrical supply has to be refined it is an excellent turnkey solution. New designs of the stack and the system allow the H-TEC Electrolysers

to achieve a very good price-performance ratio, with minimal production costs for hydrogen. Apart from that, the design of the ME series from H-TEC offers many advantages. Its compact construction makes its transport, connection and use possible almost anywhere. Thanks to heat extraction, electrolysers made by H-TEC achieve an overall efficiency of up to 95 %.

Parameter	ME 100/350	
H ₂ nominal production	100 kg d ⁻¹	47 m ³ h ⁻¹ @ STP
H ₂ production range	6 - 140 kg d ⁻¹	3 - 66 m ³ h ⁻¹ @ STP
H ₂ purity	Saturated with moisture; optional dryer 5.0	
Nominal energy consumption	4,9 kWh m ³ @ STP	
Nominal load	225 kW	
Electrolyser power	11-350 kW	
Peripheral load	3-20 kW	
Nominal system efficiency	74 %	
Load change	10-100 % Nominal load = 10 s	100-166 % Nominal load = 10 s
Heat extraction	optional	
Operating pressure H ₂	unpressurised - 30 bar	
Operating pressure O ₂	unpressurised	
MTTF	50 000 h	
Feed water quality	Drinking water, max. 85 kg h ⁻¹	
Grid connection	Voltage: 3 x 400 V/50 Hz + N + PE in accordance with IEC 60038 Connected load: 500 kVA	
Dimensions L x W x H	20' container, 6 m x 2.5 m x 3.3 m	
Weight	approx. 9 t	
Ambient temperature	-15°C to +35°C	

ABOUT US

→ H-TEC SYSTEMS was founded in 1997 and has more than 20 years of experience in the research and development of hydrogen technology. At sites in Schleswig-Holstein and Bavaria in Germany, PEM Stacks and electrolysers are produced in the megawatt class for use in industry where hydrogen is required as well as when the quality of an electrical supply has to be refined. Since 2010,

H-TEC SYSTEMS has been a member of the GP JOULE group, which integrates hydrogen-based energy storage equipment into intelligent operating and usage concepts for renewable energies. Using H-TEC Electrolysers it is already possible today to couple the electrical power, heating & mobility sectors.

Find out more at H-TEC-SYSTEMS.COM