

Future-proof cooling solutions for: **Hydrogen technologies.**

Precise temperatures. For a green hydrogen future.

Hydrogen is considered a key technology for climate-friendly energy supply. Our customisable cooling solutions ensure maximum efficiency, safety and longevity. From electrolysis to refuelling at H₂ filling stations.

Why temperature management is crucial.

Whether in electrolysis or at hydrogen filling stations, precise temperature control prevents thermal overload, increases energy efficiency and reduces maintenance costs. Our cooling solutions help you operate your hydrogen systems economically and sustainably.



What our cooling solutions can do for you:



**Maximum
system
availability.**



**Extended
service life.**
Sensible
components.



**Maximum
efficiency.**
Of your hydrogen
production.



**Maximum
operational
reliability.**



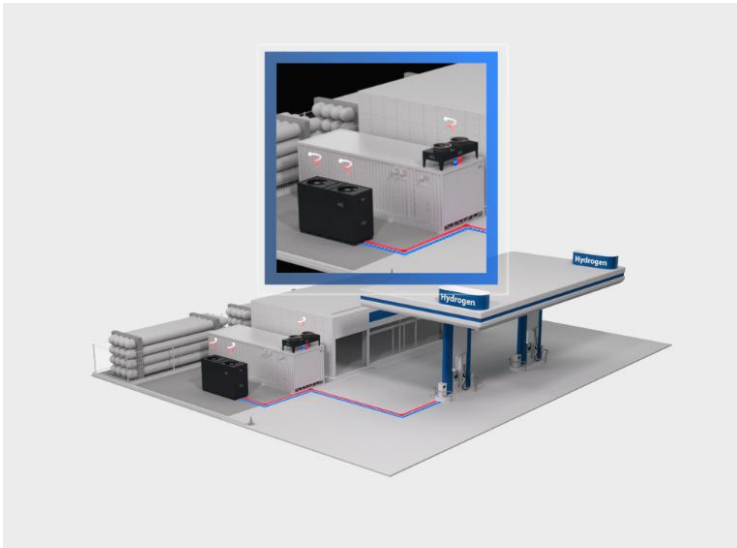
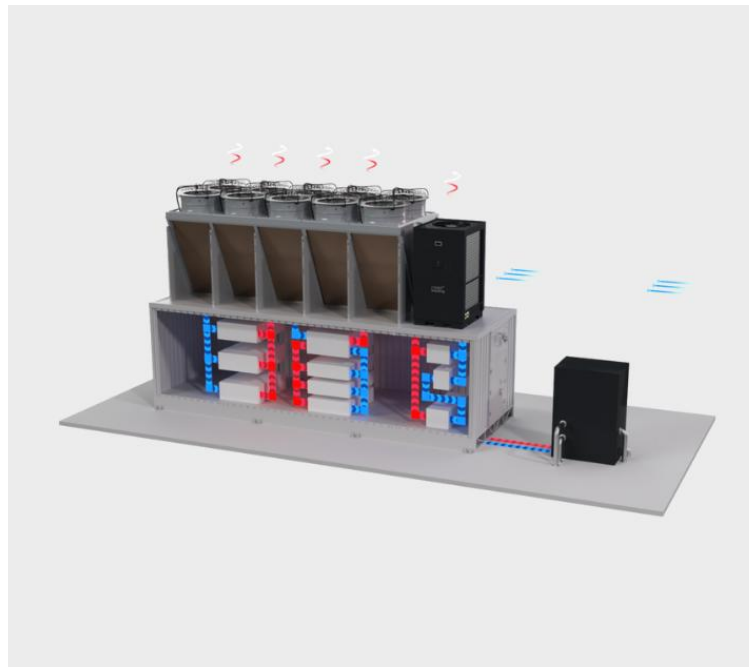
High uptime.
Adaptability to
different site
conditions.

Our areas of expertise in cooling:

Electrolysis in hydrogen production.

The electrochemical decomposition of water places high demands on the temperature management of components. Our Global Chiller Platform | Kool^{PM} ensures reliable cooling in all relevant areas:

- **Electrolysis stack:** Passive cooling for uniform heat dissipation from the cell array.
- **Gas cooler (condensation):** Active cooling for optimum hydrogen purity.
- **Rectifier:** Flexible active or passive cooling – depending on your application.



Our areas of expertise in cooling:

Hydrogen filling stations.

H₂ filling stations are subject to extreme pressure conditions and demanding temperature requirements. Our adaptable cooling systems ensure reliable operation in these conditions:

- **Compressor cooling:** Active cooling for stable performance during pressure generation.
- **Dispenser cooling:** Precise temperature control for smooth refuelling processes.

Your benefits with our global chiller platform:



Individual customisation.

Tailor-made system integration into your plants.



Future-proof technology.

Developed for next-generation hydrogen applications.



Series quality.

Highest manufacturing standards for industrial applications.



Service orientation.

Personal advice – from concept development to series production start.



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