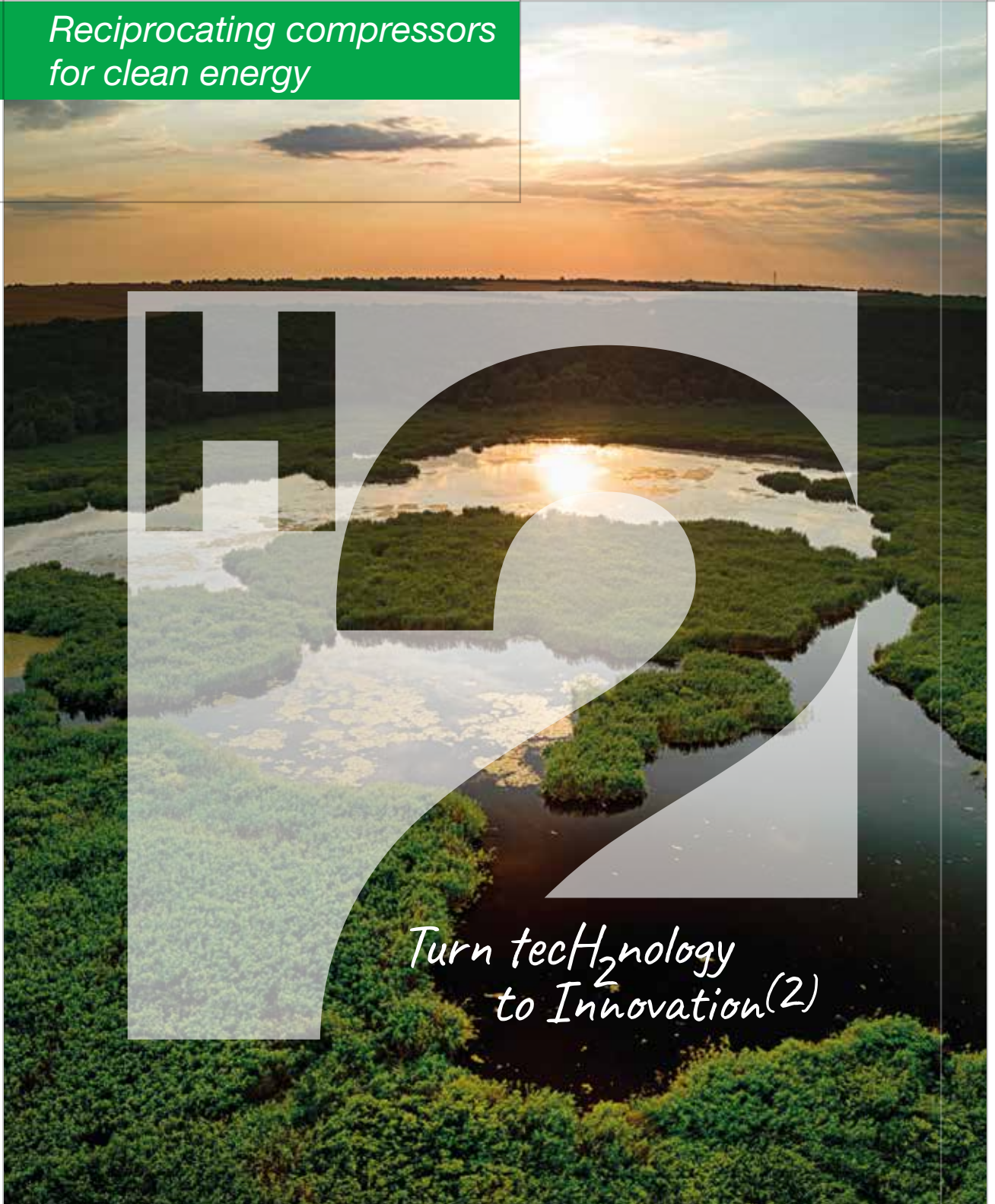


*Reciprocating compressors
for clean energy*

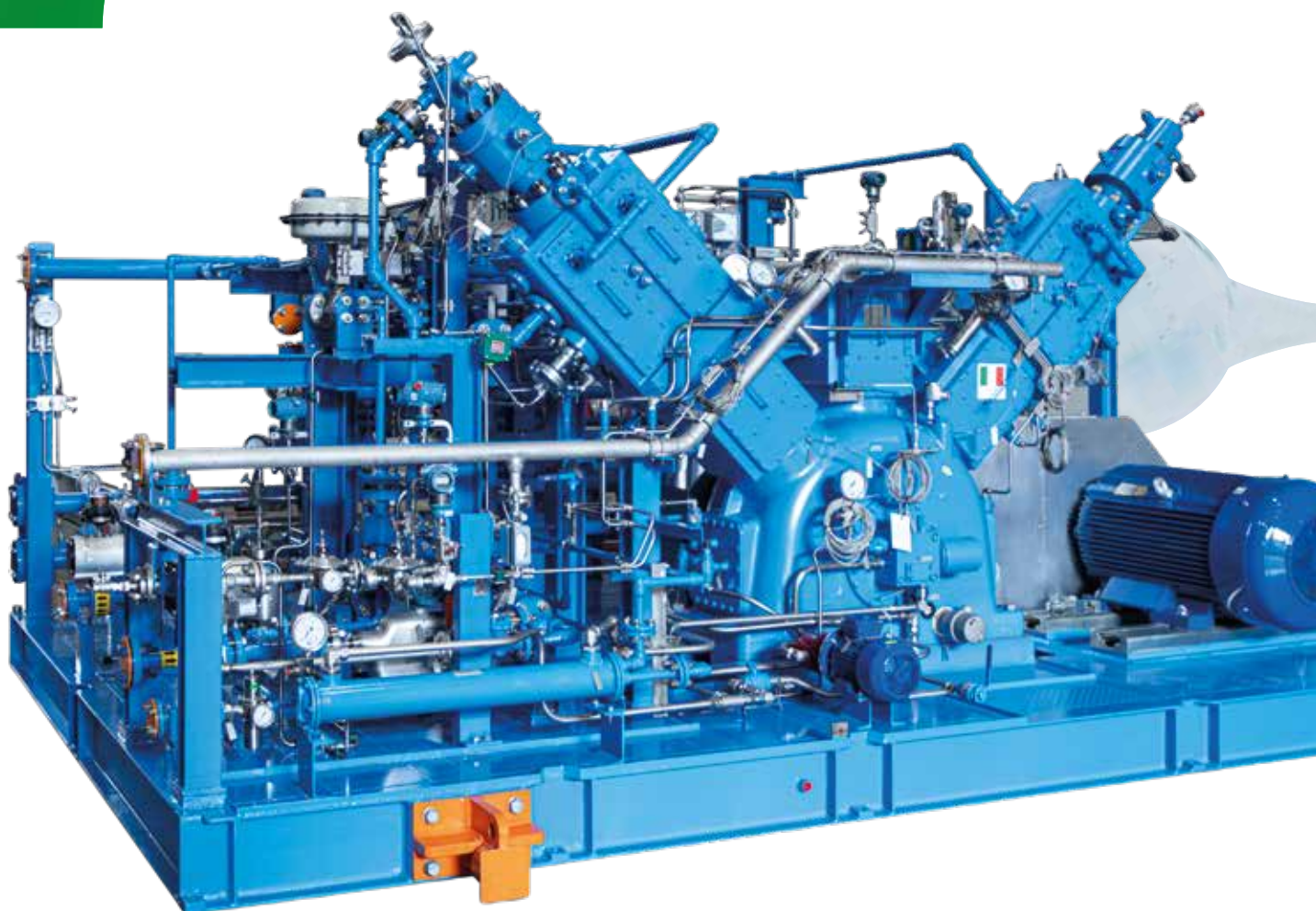


*Turn tech_{H2}nology
to Innovation⁽²⁾*

Energy transition rises to the power of H₂

Hydrogen is set to be a major contributor to the energy transition towards a zero-carbon-emissions economy. Against this rapidly evolving backdrop, SIAD Macchine Impianti is playing a key role in developing innovative solutions to maximize the potential of hydrogen.

Advanced technologies, meticulous design and unrivaled expertise have enabled us to set new standards of excellence in the hydrogen compressors sector, by taking innovation to the next level. Our new high-pressure compressor, of up to 550 bar, with oil-free technology, testifies to our market leadership.



For information
siadmi_compr@siad.eu

Experience across the H₂ value chain

An evolutionary process is always based on solid foundations. SIAD Machine Impianti is part of the SIAD Group, a leader in the hydrogen production chain with a century of history behind it. Thanks to our significant experience, we can look forward to a sustainable future.

SIAD Machine Impianti is a beacon of excellence with over 70 years of proven experience in the hydrogen sector, and with over 500 compressors installed worldwide. Our expertise not only guarantees reliability, it also delivers world class performance.



550
bar

Oil
Free

Key features

- ✓ High pressure wet/dry hydrogen compression up-to 550 bar
- ✓ Oil-free compression to guarantee the highest hydrogen purity (compliance with SAE Standards)
- ✓ High energy efficiency
- ✓ Small foot-print, modular, compact design, yet flexible to fit all requirements
- ✓ Zero-leakage system
- ✓ Process and remote monitoring with highest safety standards
- ✓ Higher uptime vs other technologies
- ✓ Longest MTBO (up to 12.000 hours), low maintenance requirements and long service life (up to 20 years)
- ✓ Lowest TCO / Total Cost of Ownership



Watch the video

Oil-free high-pressure compressors for mobility and tube-trailer filling

H₂

Mobility

The utilization of hydrogen as a fuel in transportation is increasing rapidly, thanks to its impressive energy performance and eco-friendly characteristics. To facilitate the supply of hydrogen to refuelling stations and meet the needs of refueling vehicles, higher pressures are essential to enhance the storage capacity of this environmentally sustainable fuel.

«Compliance with fuelling standard SAE J2601 and SAE J2719»



Safety. A paramount priority

With more than **500 hydrogen compressors** currently in operation and over **25 million hours of running time**, the company has gained extensive experience in ensuring safety. To endorse this point, the company has been a long-term, active member of the most important international associations, including the European Industrial Gas Association (EIGA), the Compressed Gas Association (CGA) and All Indian Industrial Gas Manufacturers Association (AIIGMA). Thus, SIAD MI complies with all of the most stringent industry standards.

H₂

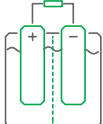
Storage & Distribution

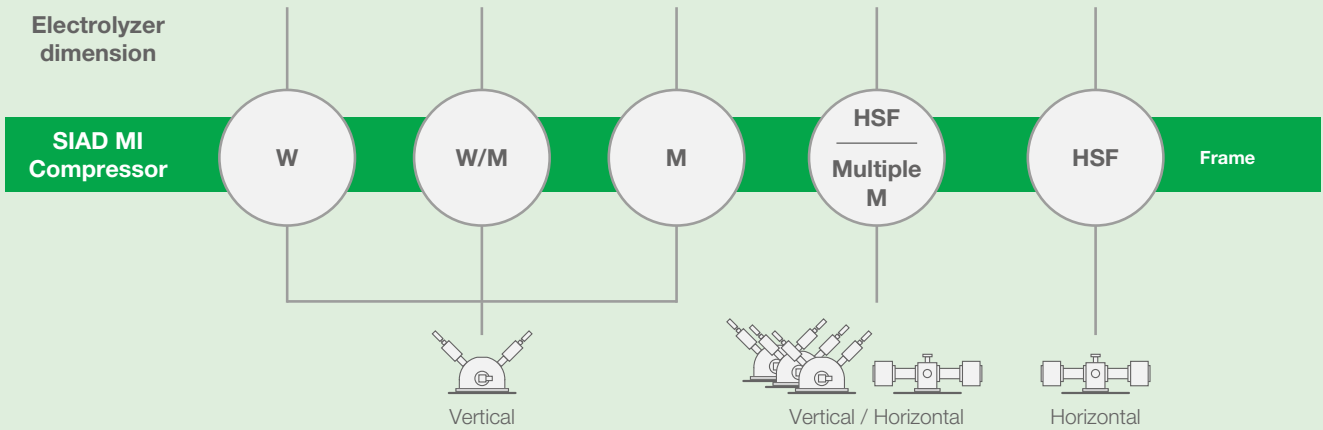
Hydrogen fuel stations that serve heavy-duty vehicles need a substantial supply of hydrogen. Transported via tube-trailer, the sizeable volume of hydrogen requires compressor systems with a high-flow capacity. In this context, piston compressors provide the preferred solution for their suitability in handling such demanding applications.



Reciprocating Compressors for H₂

How to choose your SIAD MI Compressor

	1	2.5	5	10	≥ 20	Size [MW]
	17	43	85	170	340 - 970	Flow [kg/h]



Configuration based on following data: suction pressure 30 bar; discharge pressure 550 bar

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LPG and Natural Gas

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