



The new H2Station™

Proven technology

Compressor dedicated
to hydrogen – developed by Nel



number one by nature®

Compact, flexible and reliable

The H2Station™ represents the next generation in hydrogen fueling for fuel cell cars, buses and trucks. It offers fast fueling with the world's most compact footprint. The design is based on years of R&D and operational experience, and is renowned for providing high fueling reliability. It features the world's most efficient, contamination free hydrogen compressor.

H2Station™ key features

- Daily capacity of up to 1,800 kg/day
- Maximum capacity: 160 kg/h
- Hydrogen storage dimensioned to fit any preferred capacity and supply source ranging from on-site production to truck delivery
- Modular and flexible placement of H2Station™ modules at site
- Compact dispenser for easy integration at existing station
- Dispenser with new user interface to optimize customer experience
- Lean volume manufacturing capability of up to 300 stations/year
- Safe by design and functionally safety compliant with IEC 61511

H2Station™ services

- One stop shop for all service related to H2Station™
- Handling installation of H2Station™ from shipment to start of operation
- Full operation and maintenance for high reliability
- 24/7 operation monitoring
- Site elements for easy and cost effective installation of modules

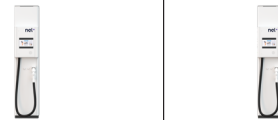
Specifications

Station Modules



Station types	Cascade fill 70 MPa	Direct fill 70 MPa	Direct fill 35 MPa
Module names	SM004, SM005	SM-AAA	SM-ABB
Maximum capacity	50 kg/h	120 kg/h	220 kg/h
Dispenser options	70 MPa 35 MPa	70 MPa 35 MPa	35 MPa
Inlet pressure range	2-50 MPa	10-50 MPa	3-45 MPa
Dimensions	3.3 m W x 2.2 m D x 3.6 m H		
Weight	Approximately 11 tons		
approvals design	CE marked or UL listed (comply to all modules) Available in galvanized steel		

Dispensers



Dispenser types	70 MPa	35 MPa
Fueling protocol	SAE J2601-1	SAE J2601-2 Optifill™
Nozzle design	In accordance with SAE J2600 and SAE J2799 (IR)	
Payment	Compatible with POS using IFSF communication	
Dimensions	0.52m W x 0.52m D x 2.5m H (integration on existing gas-station)	
Placement	Up to 50 m from Station Module	
Design	Available in galvanized steel or customer trade dress by quote	

Storage



Storage types	Storage
Storage pressure	Nominal 20-93 MPa Maximum 24-100 MPa
Storage capacity	100 kg to several tons if required
Valves and safety	Leak detection, jet fire protection, double block and bleed
Dimensions	Vessel lengths up to 12 m for any pressure range
Placement	Depending on site specification requirements, up to 50 m from Station Module
Design	Available in galvanized steel for resistance to corrosion, with white tubes

Supply

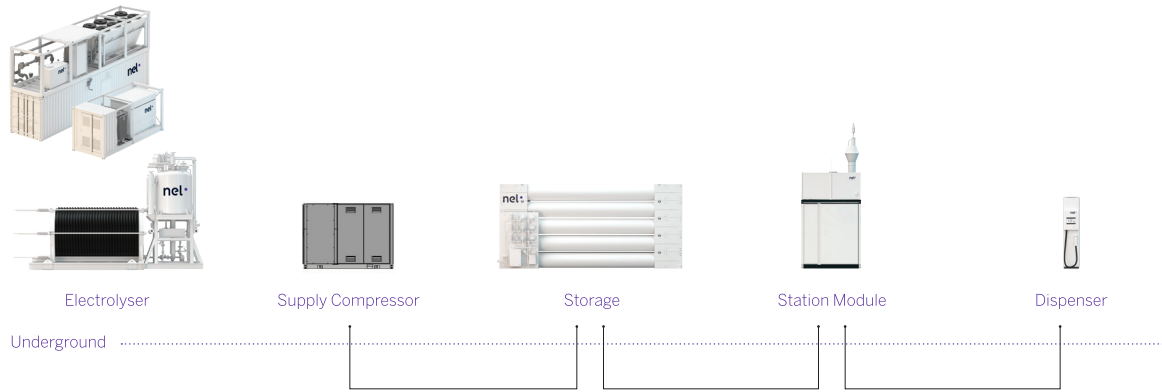


Supply types	Delivery	Tube Trailer Swap
Supply options	Maximum 55 MPa tube trailer supply	Maximum 55 MPa tube Trailer supply
Trailer connection interface	Ready for any suitable adapter	Ready for any suitable adapter
Placement	Up to 100 m from Station Module	Up to 50 m* from Station Module
Design	Stainless steel housing	Galvanized valve panel with stainless steel components

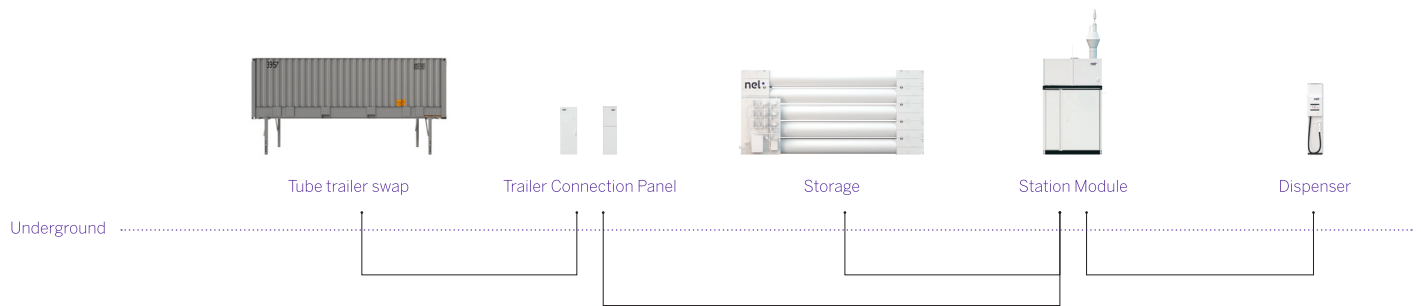
* Depending on site layout.

H2Station™ solutions configurations and examples

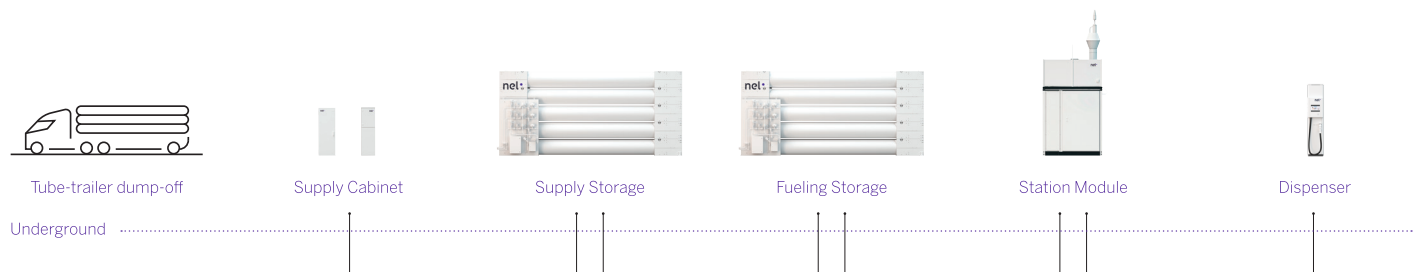
Equipment configuration | On-site production



Equipment configuration | Trailer swap



Equipment configuration | Dump-off



Nel Hydrogen is a publicly listed hydrogen company which builds on more than 90 years of combined experience within hydrogen production and hydrogen fueling technology.

A benchmark within hydrogen production and fueling

With more than 3,500 electrolyzers delivered around the globe, Nel Hydrogen is the world's leading company for alkaline and proton exchange membrane (PEM) water electrolysis. Nel Hydrogen fueling stations have the highest reported availability in the world, and were the first to comply with the latest standards for refueling.

www.nelhydrogen.com