



Number one by nature



The New Generation H2Station[®]

Proven technology.
Innovative solutions.



The world's most compact, flexible and reliable H2Station®

The H2Station® is a new generation hydrogen fueling for fuel cell car, bus, truck and forklift, offering fast fueling with long range according to international standards. H2Station® offers the world's most compact footprint and is based on years of R&D and operational experience in the field, where it is renowned for providing high fueling reliability.

H2Station® key features

- Daily capacity of up to 500 kg per day
- Maximum capacity: 120 kg/h @ 35MPa | 35 kg/h @ 70MPa
- Hydrogen storage dimensioned to fit any preferred capacity and supply source ranging from onsite production to truck delivery
- Modular and flexible placement of H2Station® modules at site
- Compact dispenser for easy integration at existing station
- Standard module developed through years of R&D
- Lean volume manufacturing capability of up to 300 stations / year

H2Station® services

- One stop shop for all service related to H2Station®
- Turnkey H2Station® from product development to start of operation
- Full Operation & Maintenance for high reliability
- Spare parts for standard modules in stock
- 24/7 Operation monitoring & technical hotline
- KPI monitoring with online client access
- Site Risk Assessment | Site Layout

Specifications

STATION MODULE	
Maximum capacity	35 kg/h @ 70MPa 120 kg/h @ 35MPa
Fueling protocol	70MPa SAE J2601-1 v2016 Optifill™
Dispenser	Multiple Dispenser options
Inlet pressure range	2-70MPa - Multiple Hydrogen source
Dimensions	L:3.3m W: 2.2m H: 3.6m 17,5 ton
Approvals	PED (97/03/EC) - CE marked (Comply to all modules)

DISPENSERS	
Dispenser types	70MPa CAR 35MPa HDV 35MPa MH (indoor)
Nozzle design	In accordance with SAEJ 2600 & SAEJ 2799 (IR)
Metering	Coriolis mass flow meter
Payment	Connects to APP / POS / Credit Card via IFSF
Dimensions	L: 0.52m W: 0.52m H: 2.5m (integration on existing gas-station)
Placement	Up to 50m from Station Module

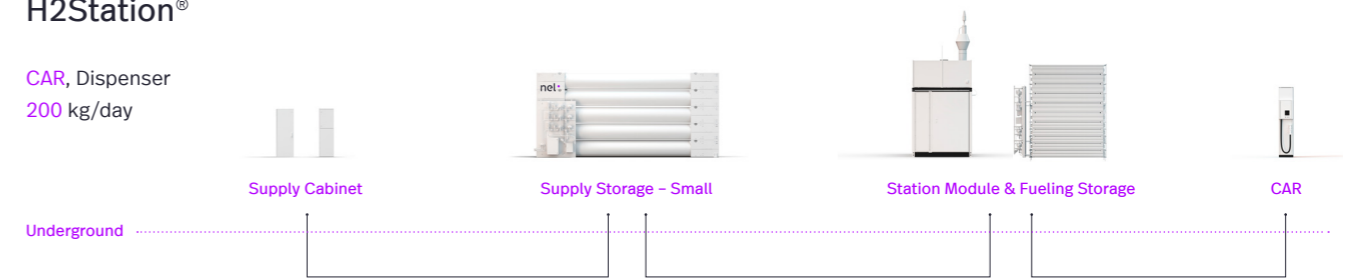
FUELING STORAGE	
Storage pressure	Nominal 43-95MPa Maximum 50-100MPa
Storage capacity	Up to 106 kg of hydrogen in each rack. Optional multiple racks - Upgradable after installation
Valves & safety	Double block and bleed - jet flame protection
Dimensions	L:3.4m W: 1.2m H: Flexible up to 2.8m
Placement	Up to 30m from Station Module

SUPPLY STORAGE	
Storage pressure	Nominal 20MPa Maximum 24MPa
Storage capacity	50-500kg hydrogen in each rack. Optional multiple racks - Upgradable after installation
Valves & safety	Leak detection (IEC61511) Jet fire protection, double block and bleed
Dimensions	L: 6.5-12.3m W: 2.4m H: Flexible up to 3.0m
Placement	Up to 100m from Station Module
Option	Supply Cabinet for fast Hydrogen unloading to Supply Storage

H2Station® Solutions Configurations & Examples

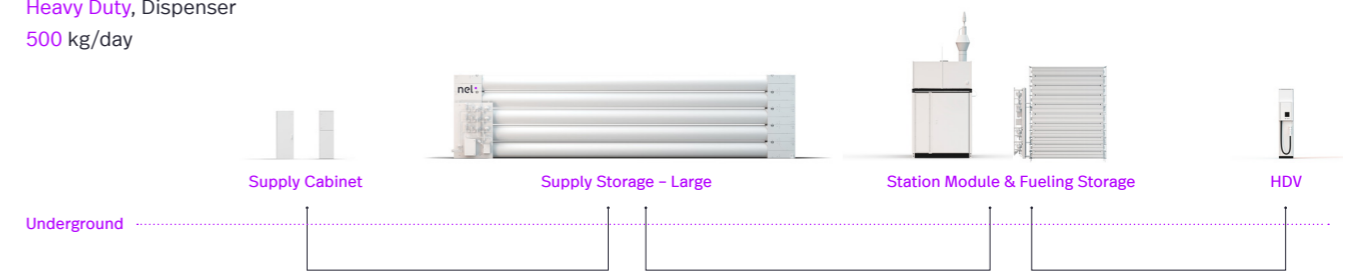
H2Station®

CAR, Dispenser
200 kg/day



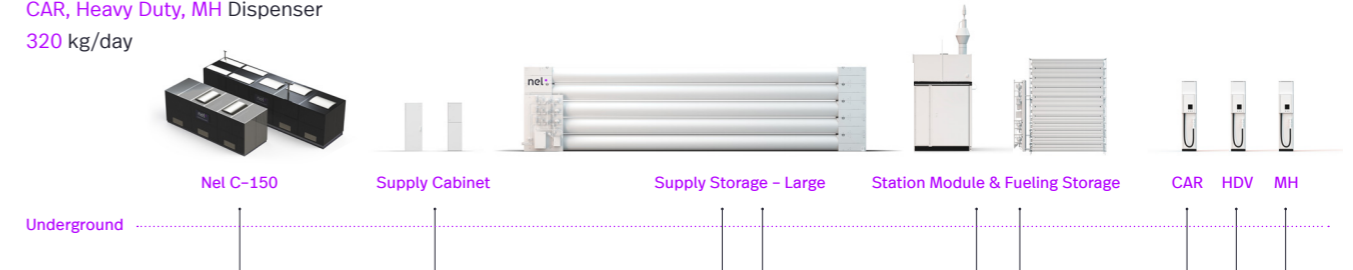
H2Station®

Heavy Duty, Dispenser
500 kg/day



H2Station®

CAR, Heavy Duty, MH Dispenser
320 kg/day



H2Station® Enclosure

Multiple Designs - Multiple branding options

Enclosure incl.:
H2Station CAR, FS, SS, SS-Cabinet
200 kg / day

Example showing special Enclosure



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 850 electrolyzers delivered around the globe, Nel Hydrogen is the world's leading company for alkaline 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. Our solutions for hydrogen production and fueling set a benchmark for others to follow.

nelhydrogen.com