

Modular hydrogen refueling station

For heavy-duty vehicles 350 bar



With more than 200 hydrogen stations delivered all over the world, Air Liquide provides **global hydrogen refueling solutions** from project definition to operation and maintenance support.

Part of the modular refueling station product line, the station dedicated to heavy-duty vehicles can supply gaseous hydrogen at **350 bar** dispensed through a safe protocol for fast refueling.

The modularity of the station enables support different layouts and use cases with a capacity from **1 to 4 ton per day**.

Key benefits

- ✓ Modularity and upgradable concept
- ✓ Up to 4 parallel fillings and more than 100 vehicles within 8 hours
- ✓ Low GWP cooling system
- ✓ Reliability proven by endurance tests
- ✓ Optimized TCO for 350 bar applications
- ✓ More than 100 patents

GAS-TO-GAS SERIES



ALL-IN-ONE
For light-duty vehicles



MODULAR
From light-duty to heavy-duty vehicles



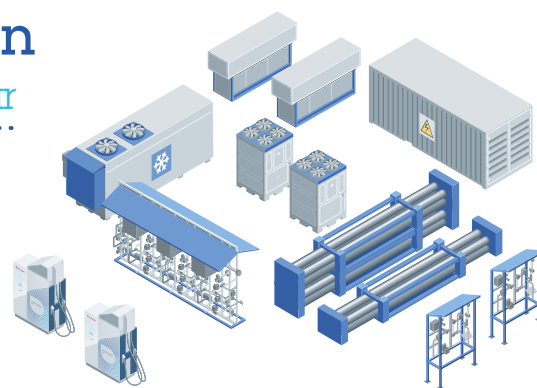
MODULAR
For heavy-duty vehicles 350 bar
For heavy-duty vehicles 700 & 350 bar

Modular hydrogen refueling station

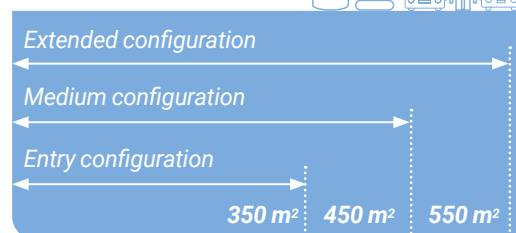
Gas-to-gas series | For heavy-duty vehicles 350 bar

Performances

Source: trailers	Entry configuration	Medium configuration	Extended configuration
Dispenser(s)	1 x H35	2 x H35	4 x H35
Max. vehicles in 1 hour	6 vehicles (20 kg each)	12 vehicles (20 kg each)	24 vehicles (20 kg each)
Back-to-back performance	25 vehicles within 6 hours	50 vehicles within 6 hours	100 vehicles within 8 hours
24h capacity	1,000 kg/day	2,400 kg/day	3,600 kg/day



Technical area*



* Source trailers and dispensers excluded.

Technical specifications

Fueling time	<ul style="list-style-type: none"> H35 - heavy-duty: 20 kg in 5 min 35 kg in 7 min
Minimum inlet pressure	<ul style="list-style-type: none"> Trailers: 50 bar Electrolyzers, pipeline: 30 bar
Noise	< 85 dBA at 1 m
Utilities	<ul style="list-style-type: none"> 400 V, 3 phases, 50 Hz, 200 to 400 kVA Compressed air system included Nitrogen for maintenance purposes only
Safety	<ul style="list-style-type: none"> Hydrogen / flame detection Emergency stop buttons Flare adapted to urban use
Environment	Ambient operating temperature: -20°C to +40°C
Codes and standard	<ul style="list-style-type: none"> CE marking - EN17127 - EN17268 ISO 19880-1 + SAT tests certified by 3rd party (CEP) IR communication: SAE TIR J2799 Metrology : OIML R139 - Certification by 3rd party

Discover our complete range of hydrogen refueling stations:



Contacts

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A world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 72 countries with approximately 67,800 employees and serves more than 4 million customers and patients.

Modularity

Compatible hydrogen sources

- Gas trailer and ground storage - possible source in parallel
- Pipeline or electrolyzers

Compression and storage

- Number of compressors and MP/HP storage capacity upon request
- 98% availability - higher level of redundancy upon request

Dispensers

- Up to 4 dispensers per station
- Parallel refuellings possible
- Adaptable branding and colors

Services & maintenance support

- Preventive and corrective maintenance contract
- Technical assistance and training
- Spare parts supply
- Remote control for operation and assistance

