

Modular hydrogen refueling station

From light to heavy-duty vehicles



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 light and medium-duty vehicles can supply gaseous hydrogen at 700 or 350 bar dispensed through a safe protocol for fast refueling. The modularity of the station enables support different layouts and types of projects with a capacity from **300 kg to 1,200 kg per day**.

Key benefits

- ✓ Modularity and upgradable concept for light and heavy-duty vehicles
- ✓ Parallel filling for cars
- ✓ Reliability proven in operation
- ✓ Compliant with SAE J2601, MC Method, Wenger protocol, Air Liquide in-house protocol
- ✓ More than 100 patents

GAS-TO-GAS SERIES



ALL-IN-ONE
For light-duty vehicles



MODULAR
From light-duty to heavy-duty vehicles



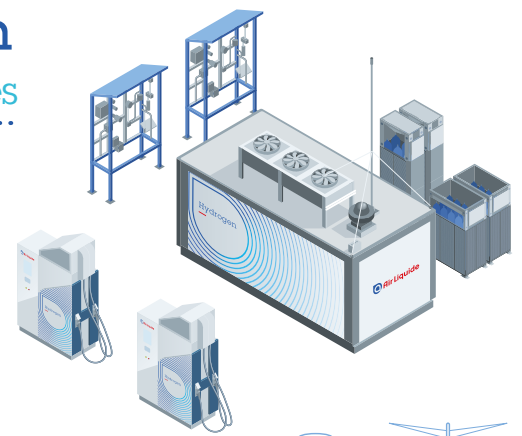
MODULAR
For heavy-duty vehicles 350 bar
For heavy-duty vehicles 700 & 350 bar

Modular hydrogen refueling station

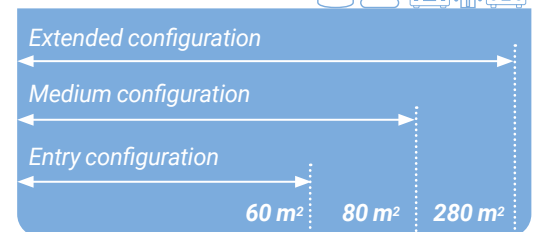
Gas-to-gas series | From light to heavy-duty vehicles

Performances

Source: trailers	Entry configuration	Medium configuration	Extended configuration
Dispenser(s)	1 x H70/H35	2 x H70/H35	3 x H70/H35
Max. vehicles in 1 hour	9 cars (4 kg each) OR 3 buses (20 kg each)	18 cars (4 kg each) OR 6 buses (20 kg each)	27 cars (4 kg each) OR 10 buses (20 kg each) OR 4 trucks (40 kg each)
24h capacity	300 kg/day	600 kg/day	1,200 kg/day



Technical area*

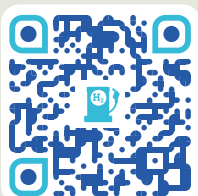


* Source trailers and dispensers excluded.

Technical specifications

Fueling time	<ul style="list-style-type: none"> H70 - light-duty: 4 kg in 3 min H35 - heavy duty: 20 kg in 6.5 min H70 - heavy-duty: 40 kg in 12 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 kVA (entry & medium) / 400 kVA (extended) 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

Dispensers

- Up to 2 dispensers (entry and medium) / 3 dispensers (extended) per station
- Parallel refuellings possible for cars
- 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