

# 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



**ALL-IN-ONE**  
For light-duty vehicles



**MODULAR**  
From light-duty  
to heavy-duty vehicles



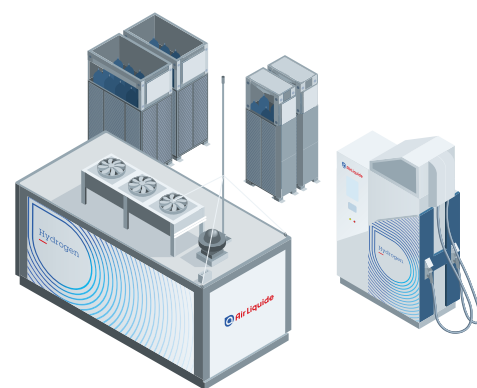
**MODULAR**  
For heavy-duty vehicles 350 bar  
For heavy-duty vehicles 700 & 350 bar

# Modular hydrogen refueling station

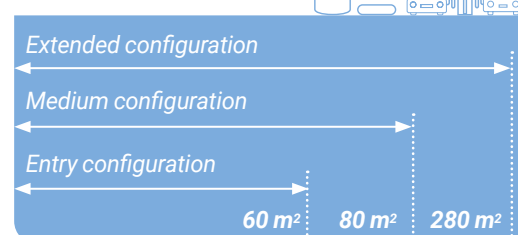
Gas-to-gas series | From light to heavy-duty vehicles

## 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

<b>Fueling time</b>	<ul style="list-style-type: none"> <li>H70 - light-duty: 4 kg in 3 min</li> <li>H35 - heavy duty: 20 kg in 6.5 min</li> <li>H70 - heavy-duty: 40 kg in 12 min</li> </ul>
<b>Minimum inlet pressure</b>	<ul style="list-style-type: none"> <li>Trailers: 50 bar</li> <li>Electrolyzers, pipeline: 30 bar</li> </ul>
<b>Noise</b>	< 85 dBA at 1 m
<b>Utilities</b>	<ul style="list-style-type: none"> <li>400 V, 3 phases, 50 Hz, 200 kVA (entry &amp; medium) / 400 kVA (extended)</li> <li>Compressed air system included</li> <li>Nitrogen for maintenance purposes only</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>Hydrogen / flame detection</li> <li>Emergency stop buttons</li> <li>Flare adapted to urban use</li> </ul>
<b>Environment</b>	Ambient operating temperature: -20°C to +40°C
<b>Codes and standard</b>	<ul style="list-style-type: none"> <li>CE marking - EN17127 - EN17268</li> <li>ISO 19880-1 + SAT tests certified by 3<sup>rd</sup> party (CEP)</li> <li>IR communication: SAE TIR J2799</li> <li>Metrology : OIML R139 - Certification by 3<sup>rd</sup> party</li> </ul>

## 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

## Contacts

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