

Modular hydrogen refueling station

Liquid-to-gas series | For light and heavy-duty vehicles 700 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 liquid-to-gas series, the modular station ranges for **light and heavy-duty vehicles** can supply **gaseous hydrogen at 350 and 700 bar using a liquid hydrogen** as a source. The modularity of the station enables support for different layouts and types of projects with a capacity up to 3,000 kg per day.

Key benefits

- ✓ Refueling of large fleets at 700 bar
- ✓ Highly efficient liquid hydrogen pump
- ✓ No-fog vaporizer technology
- ✓ Optimization of CAPEX

LIQUID-TO-GAS SERIES



ALL-IN-ONE
From light-duty 700 bar to heavy-duty 350 bar



MODULAR
For light and heavy-duty vehicles 700 bar






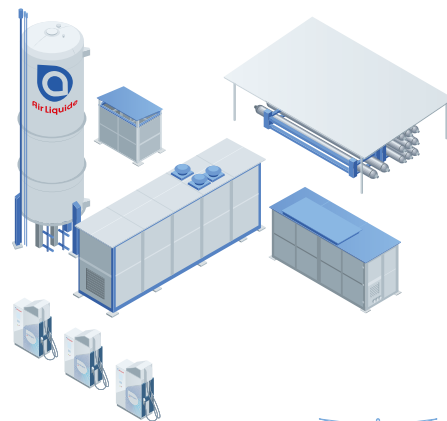
MODULAR
For heavy-duty vehicles 350 bar

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Performances

	Standard configuration	Extended configuration
 Dispenser(s)	2 x H70 single (HD)	2 x H70 single (HD) 1 x H70 double (LD)
 Max. vehicles in 1 hour	6 trucks (40 kg each)	10 cars (4 kg each) AND 5 trucks (40 kg each)
 24h capacity based on standardized profile	2,160 kg/day	2,160 kg/day

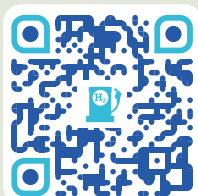


* Source trailers and dispensers excluded.

Technical specifications

Fueling time	<ul style="list-style-type: none">• H70 - light-duty: 4 kg in 3 min• H35 - heavy-duty: 40 kg in 15 min
Noise	< 85 dBA at 1 m
Utilities	<ul style="list-style-type: none">• 480 V, 3 phases, 60 Hz, 250 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">• ASME sect VIII, div 1/ (div 3)• ASME B-31.3 / ASME B-31.12• ISO 19880-1• EIGA IGC 15/06 Guidelines for gaseous hydrogen station• SAE J2601 2016 version (including MC method) / SAE J2600 / SAE J2799• NFPA-2 / NFPA-55 / NFPA 70 / NFPA 496 and for South Korean market: KGS compliancy (Korean Gas Safety cooperation)• CE upon request

Discover our complete range of hydrogen refueling stations:



Contacts

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Modularity

Compatible hydrogen sources

- Liquid hydrogen trailer
- LH₂ tank: 3,500 kg
- Liquid ground storage: horizontal or vertical

Compression and storage

- MP storage capacity upon request
- 98% availability - higher level of redundancy upon request

Dispensers

- Up to 3 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

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