

Modular hydrogen refueling station

Liquid-to-gas series | 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 liquid-to-gas series, the modular station for 350 bar **is focused on heavy-duty 350 bar hydrogen vehicles**. It can supply **gaseous hydrogen at 350 using 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 large fleets at 350 bar
- ✓ Highly efficient liquid hydrogen pump
- ✓ No-fog vaporizer technology or ambient vaporizer
- ✓ CAPEX and OPEX optimized design for 350 bar dispensing
- ✓ Redundancy options available upon request

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

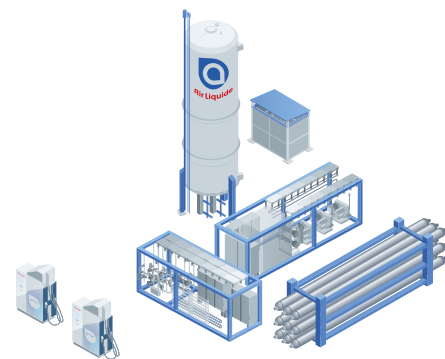


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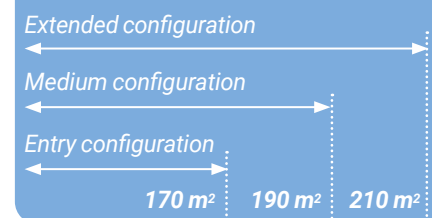
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Performances

	Entry configuration	Medium configuration	Extended configuration
 Dispenser(s)	1 x H35 (HD)	1 x H35 (HD)	2 x H35 (HD)
 Max. vehicles in 1 hour	3 buses (35 kg each)	3 buses (35 kg each)	6 buses (35 kg each)
 Capacity over 8 hours	525 kg (15 buses)	875 kg (25 buses)	1,750 kg (50 buses)



Technical area*

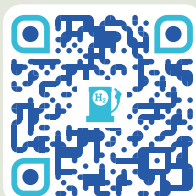


* Source trailers and dispensers excluded.

Technical specifications

Fueling time	H35 - Heavy duty: 35 kg in 12 min
Noise	< 85 dBA at 1 m
Utilities	<ul style="list-style-type: none"> • 480 V, 3 phases, 60 Hz, 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 <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 • CE upon request
Codes and standard	

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

- Liquid trailer and ground storage - possible source in parallel
- Liquid ground storage: horizontal or vertical

Compression and storage

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

Dispensers

- Up to 2 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

