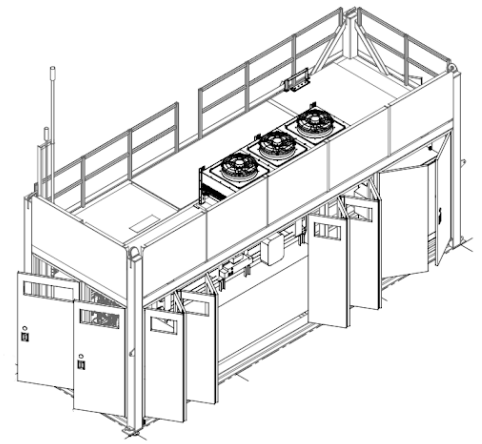


Modular Hydrogen Refueling Station

GAS SERIES FOR CAR - DUAL FILLING



About

Part of the **modular refueling station range**, this is Air Liquide's high capacity gaseous hydrogen station that can provide 700 bar fills at T40 temperatures per SAE J2601 protocol. This equipment is modularized for reduced footprint and ease of installation. The main station skid is fully integrated and includes compression, medium and high pressure hydrogen storage, and cooling. The station is capable of dispensing hydrogen through two fueling positions **simultaneously** into light duty vehicles (2-10 kgs).

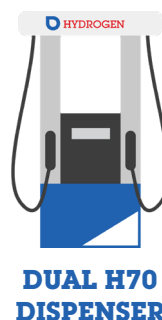
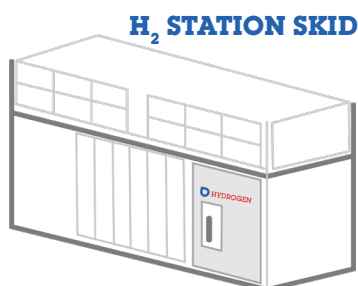
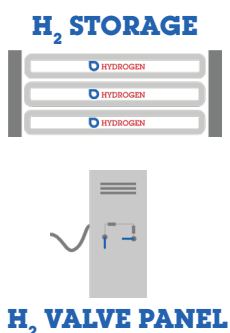
Equipment

Equipment provided by Air Liquide:

- H₂ storage (option for trailer)
- Valve panel for H₂ distribution
- Station skid (compressor, medium and high pressure storage, cooling)
- Dual dispenser (two H70 nozzles) with integrated point-of-sale

Performance

- **Fueling capacity:**
 - 450 bar tube trailer: Each dispenser/nozzle can dispense up to 36 kg per hour (Up to 9 vehicles/hr, 4 kg each) or 72 kg per hour total
 - Up to 21 back-to-back fills per dispenser (4 kg each).
 - 165 bar tube trailer: Each dispenser/nozzle can dispense up to 24 kg per hour (Up to 6 vehicles, 4 kg each) or 48 kg per hour total
 - Up to 4 back-to-back fills per dispenser (4 kg each).



Equipment Specifications

Electricity:

- 480VAC, 3 Phases, 60Hz, 150 KW
- Grounding of station: 25 Ohms (maximum resistance)

Gas Utility:

- Nitrogen (N₂) for purging and instrument gas ~ 5 scfh
- Recommended Nitrogen Source: Small liquid nitrogen tank (VGL) at 24 bar or gaseous bundle at 165 bar (as backup)

Fueling Protocol:

- SAE J2601 H70 T40

Station to Vehicle Interface:

- Data: Interface SAE TIR J2799
- Nozzle: Design follows SAE J2600

Environment:

- Operating Temperature: -30°C to + 40°C
- Humidity: Up to 100%

Equipment Footprint (Station Skid Only):¹

(LxWxH): 28' x 9'6" x 13'4"

Footprint does not include hydrogen source/storage, dispenser(s), or utilities.

Weight (Station Skid only):

61,000 lbs

Safety:

- H₂ & flame detection
- Emergency shut-off buttons
- Process safety limits and parameters

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