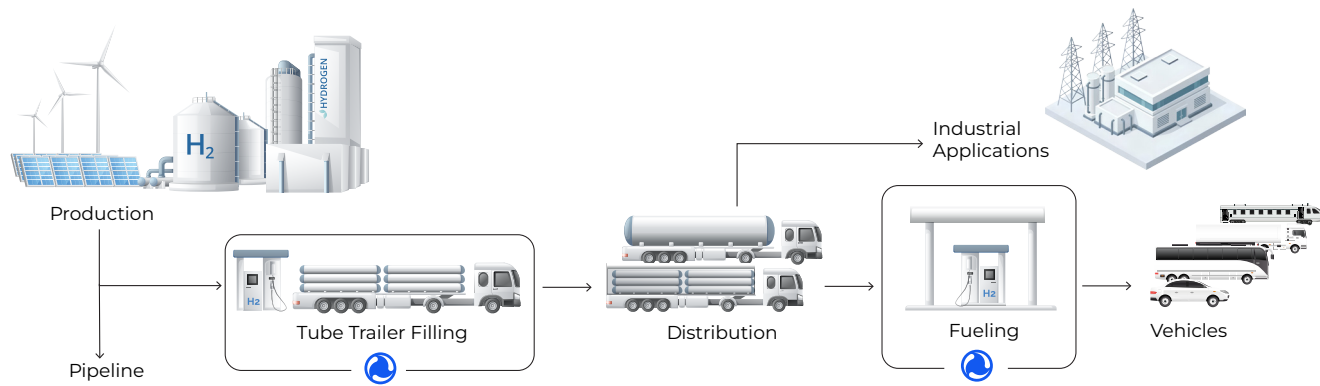


Hydrogen Dispensing System



Serving the H2 value chain

Expertly engineered from over 40 years' experience in refueling systems for compressed gas, the ANGI Energy Hydrogen Dispenser is built for industry-leading uptime over a long service life, withstanding the demands of even the most challenging fleet and public refueling environments.

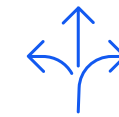


The ANGI Hydrogen Dispenser is ready to serve a diverse range of refueling and refilling applications:
Trucks | Buses | Rail | Maritime | Logistics | Tube Trailers

Hydrogen Dispensing System

35MPa or 70MPa filling pressure

A Hydrogen Dispensing System is a specially designed system for refilling hydrogen powered vehicles with pressurized hydrogen gas. For drivers, the hydrogen refueling experience is similar to that of conventional petrol or diesel vehicles, with refueling times around 3-5 minutes for cars and 10-15 minutes for heavy duty vehicles.



Flexible design
Choice of 35 or 70 MPa, single/dual sided, one/two hose(s) per side, and lane or island-oriented.



Economical
Durable components for long service life and minimal service interventions.



Optimal performance
MC formula for fast, dynamic fuelling. J2501 fill rate customization available.



Plug and play
Integrates into point-of-sale, site management and automation systems.



Compliant
Meets ATEX, PED, OIML and CE regulations.



High serviceability
Easy access panels for routine maintenance and regulatory checks.

1 Integrated payment
Optional payment terminal with colour display.

2 Modern display
Large multimedia screen displaying prices, masses and instructional video content.

3 Customizable branding
Imaged panels available to increase brand awareness.

4 Integrated heat exchanger
For optimal, uninterrupted operation



Serving the H2 value chain

Configuration options

# Of sides	Single sided or dual sided
Hose orientation	Lane oriented or island oriented design
# Of inlet lines	One or two inlets. (One inlet per side/fuelling position for simultaneous fuelling)
# Of hoses per side	One hose per side, or two hoses on single side
Filling pressure	H35: 350 bar (5,000 psi), H70: 700 bar (10,000 psi) Multi-pressure configurations available
Flow capacity	Standard flow H70: up to 3.6 Kg/min*, Standard flow H35: up to 7.2kg/min* High flow H70: up to 10kg/min*
Meter technology	Coriolis mass flow metering
Cooling technology	Diffusion bonded internal heat exchanger - two single channel heat exchangers for dual fuelling position applications.
Flow control	Emerson flow control valve
Fuelling protocols	SAE J2601, SAE J2601-2, SAE J2601-5 (fuelling protocol is in development and not released for industry approval)
Nozzle options	Multiple nozzle and breakaway configurations available
Dispenser-to-vehicle communications	Communicative and non-communicative fuelling (compliant to requirements of applicable fuelling requirements)
Filtration	One hydrogen filter included per fuelling position

Communications and user interface options

User interface	Dispenser multimedia display with 15" colour display with integrated money-mass-PPU information. Optional payment terminal with color display**. Other options available via 3rd party integrated payment solutions.	EMV ready card reader, high speed USB printer, optional alphanumeric keypad, optional EMV ready contactless card reader, Optional barcode reader
POS connection protocols	Standard 2-wire protocol, IFSF	Gilbarco point-of-sale/payment terminal protocols
Communications	Modbus via ethernet	
Branding options	Customized branding and graphics	

General specifications

Power	Europe: 220 VAC, 50 Hz, 0.95A North America: 110 VAC, 60 Hz, 1.92A
Operating temperature range	-40 °C (-40 °F) to 50°C (122°F)
Humidity	20-95% RH (non-condensing)
Dimensions	Height: 2273mm / 89.5in, Width: 1740mm / 68.5in, Depth: 610mm / 24in, Weight: 725kg / 1600lbs (without heat exchanger) 840kg / 1850lbs (with heat exchanger)

REGULATORY & SAFETY

Certifications	Our hydrogen dispensers are designed to meet all applicable regulatory and industry certifications, namely: CE, ATEX, PED, HGV 4.1, HGV 4.3, SAE J2601, SAE J2601-2, SAE J2799, ISO/NFPA2, NFPA 70, US NCWM, Measurement Canada, OIML, ISO 19880, UL, FCC, ADA, and any local government regulations based on region.
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* Subject to review when the fuelling protocol and hanging hardware are released.

** Proprietary payment terminal subject to local availability. Please contact us for country specific information.