

H₂ Refueling Solutions

Hydrogen Dispensing System

For safe, effective, and fast refueling of 35 and 70 MPa hydrogen powered vehicles.



Hydrogen Dispensing System

35 MPa or 70 MPa filling pressure

Part of our modular hydrogen refuelling station (HRS) solution, our industry leading dispenser technology offers the reliability, scalability, and performance for a seamless and safe transition to H2.

YOUR DISPENSER, YOUR WAY

Choice of dispenser configurations

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

Web-enabled

For predictive and preventative monitoring & maintenance.

Plug and play

Easily integrates into point-of-sale, site management and automation systems.

Maintenance access panels

Ensure ultimate serviceability for regulatory checks and routine maintenance.



North American Design (H-Frame)

European Design (C-Frame)

1 Integrated payment terminal
Optional payment terminal with color 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 Configurable solution
To support your fleet or retail applications.

TECHNICAL SPECIFICATIONS

CONFIGURATION OPTIONS	
DESIGN	Modular design, based on Gilbarco Veeder-Root Encore 700S (H-frame)
# 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/fueling 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	High flow (up to 10 kg/min)*
METER TECHNOLOGY	Coriolis mass flow metering
COOLING TECHNOLOGY	Diffusion bonded internal heat exchanger - Two single channel heat exchangers for dual fueling position applications.
FLOW CONTROL	Emerson flow control valve
FUELLING PROTOCOLS	SAE J2601 SAE J2601-2 SAE J2601-5
NOZZLE OPTIONS	Multiple nozzle and breakaway configurations available
DISPENSER-TO-VEHICLE COMMUNICATIONS	Communicative and non-communicative fueling (compliant to requirements of applicable fueling requirements)
FILTRATION	One hydrogen filter included per hose

COMMUNICATIONS AND USER INTERFACE OPTIONS	
USER INTERFACE	<p>Dispenser multimedia display with 15" color display with integrated Money-Mass-PPU information.</p> <p>Optional payment terminal with colour display**. Other options available via 3rd party integrated payment solutions.</p> <p>EMV ready card reader High speed USB printer Optional alphanumeric keypad Optional EMV ready contactless card reader Optional barcode reader</p>
POS CONNECTION PROTOCOLS	<p>Standard 2-wire protocol IFSF</p> <p>Gilbarco point-of-sale/payment terminal protocols</p>
COMMUNICATIONS	Modbus via Ethernet
BRANDING OPTIONS	Brandview canopy (available with full wrap graphics) Customized branding and graphics

GENERAL SPECIFICATIONS			
POWER	Europe: 220 VAC, 50 Hz, 15A North America: 110 VAC, 60 Hz, 15A		
OPERATING TEMPERATURE RANGE	-40 °C (-40 °F) to 50 °C (122 °F)		
HUMIDITY	20-95% Rh (non-condensing)		
DIMENSIONS	<table border="0"> <tr> <td style="vertical-align: top;"> <p>C-Frame Height: 2388 mm / 94.02 in. Width: 1438 mm / 56.6 in. (1500 mm / 59 in including canopy) Depth: 583 mm / 22.95 in. (643 mm / 25.32 in. including canopy)</p> </td> <td style="vertical-align: top;"> <p>H-Frame Height: 2434 mm / 95.81 in. Width: 1491 mm / 58.7 in. (1679 mm / 66.1 in. including canopy) Depth: 611 mm / 24.06 in. (884 mm / 34.82 in. including canopy)</p> </td> </tr> </table>	<p>C-Frame Height: 2388 mm / 94.02 in. Width: 1438 mm / 56.6 in. (1500 mm / 59 in including canopy) Depth: 583 mm / 22.95 in. (643 mm / 25.32 in. including canopy)</p>	<p>H-Frame Height: 2434 mm / 95.81 in. Width: 1491 mm / 58.7 in. (1679 mm / 66.1 in. including canopy) Depth: 611 mm / 24.06 in. (884 mm / 34.82 in. including canopy)</p>
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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.

* 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.

ANGI IN PARTNERSHIP WITH GILBARCO VEEDER-ROOT

Our mission is to build cleaner, more sustainable mobility of the future. Our commitment is to supply the world with the infrastructure needed to accelerate the transition to a zero-carbon future is brought to you by two industry leaders in global mobility.

VONTIER
ENABLING THE WAY THE WORLD MOVES™



40 years' experience in the design and manufacture of full-site solutions for compressed gases, including CNG, RNG, and hydrogen.



150+ years' experience in refuelling station technologies and services throughout the world.

Part of the Vontier group of businesses united by a powerful purpose: mobilizing the future to create a better world.

Our hydrogen dispensing systems are part of our turnkey hydrogen refuelling station (HRS) solution, and are built on our legacy of industry leading dispensing solutions for commercial and retail applications. A product of the quality engineering that is our signature and trusted by thousands of clients worldwide, our hydrogen dispensing systems are designed to provide a 'comfortably new' hydrogen refuelling experience, by combining familiar design, with the latest modern technology for the best end-user experience.

Ready to join the H2 revolution?

Speak to our dedicated hydrogen solution specialists

 angienergy.com

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