



H₂ Refueling Solutions

Hydrogen Dispensing System

For safe, effective, and fast refueling of 35 and 70 MPa fuel cell electric vehicles.



Hydrogen Dispensing System

35 MPa or 70 MPa filling pressure

Part of our modular hydrogen refueling 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

For easy serviceability.



1 Integrated payment terminal

Supports a wide range of payment types. 3rd party payment terminals also supported.

2 Modern display

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

3 Customizable branding

Optional branded cabinet doors, hose column and canopy.

4 Configurable solution

To support your fleet or retail applications.

TECHNICAL SPECIFICATIONS

CONFIGURATION OPTIONS	
CABINET	Modular Gilbarco design, available as Encore 700S (H-frame) and SK700-II (C-frame)
# OF SIDES	Single sided or dual sided
HOSE ORIENTATION	Lane oriented or island oriented design
# OF INLET LINES	Single line inlet configuration (available in buffer or one inlet per hose configuration) Three line inlet configuration
# OF HOSES PER SIDE	One hose per side or two hoses per side
FILLING PRESSURE	H35 – 350 BAR (5,000 PSI) H70 – 700 BAR (10,000 PSI) Multi-pressure configurations available
FLOW CAPACITY	Standard flow (3.6 kg/min) High flow (7.2 kg/min) - H35 filling pressure only Split flow configurations available
METER TECHNOLOGY	Coriolis mass flow metering
COOLING TECHNOLOGY	Diffusion bonded internal heat exchanger - single or dual channel
FLOW CONTROL	Emerson flow control valve
FUELING PROTOCOLS	SAE J2601 SAE J2601-2
NOZZLE OPTIONS	Multiple nozzle and breakaway configurations available
DISPENSER-TO-VEHICLE COMMUNICATIONS	Communicative and non-communicative fueling (compliant to requirements of applicable fueling protocol)
FILTRATION	One hydrogen filter included per hose

COMMUNICATIONS AND USER INTERFACE OPTIONS		
USER INTERFACE	Proprietary payment terminal with 5.7" or 10.4" (NA Design)/12" (EU Design) color display. Other options available via 3rd party integrated payment solutions. Dispenser multimedia display with 15" color display with integrated Money-Mass-PPU information.	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	RS-485 for SCADA and remote monitoring connections	
BRANDING OPTIONS	Brandview canopy (available with full wrap graphics) Customizable branding and graphics	

GENERAL SPECIFICATIONS			
POWER	Europe: 220 VAC, 50 Hz, 10A North America: 110 VAC, 60 Hz, 10A		
OPERATING TEMPERATURE RANGE	-40 °C (-40 °F) to 50 °C (122 °F)		
HUMIDITY	20-95% Rh (non-condensing)		
DIMENSIONS	<table border="0"> <tr> <td>C-Frame Height: 2388 mm / 94.02 in. Width: 1202 mm / 47.32 in. (1360 mm / 53.51 in. including canopy) Depth: 583 mm / 22.95 in. (643 mm / 25.32 in. including canopy)</td> <td>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)</td> </tr> </table>	C-Frame Height: 2388 mm / 94.02 in. Width: 1202 mm / 47.32 in. (1360 mm / 53.51 in. including canopy) Depth: 583 mm / 22.95 in. (643 mm / 25.32 in. including canopy)	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)
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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

WHY CHOOSE 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.

Founded over 150 years ago, we have considerable expertise in designing, manufacturing, installing, and servicing refueling infrastructure around the world. Our dedicated compressed gases division, ANGI Energy Systems, brings 30 years' experience in the design and manufacture of full-site solutions for compressed gases, including CNG, RNG, and hydrogen.

Our hydrogen dispensing systems are part of our turnkey hydrogen refueling 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 refueling 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

 gilbarco.com
 hydrogen.sales@gilbarco.com

