

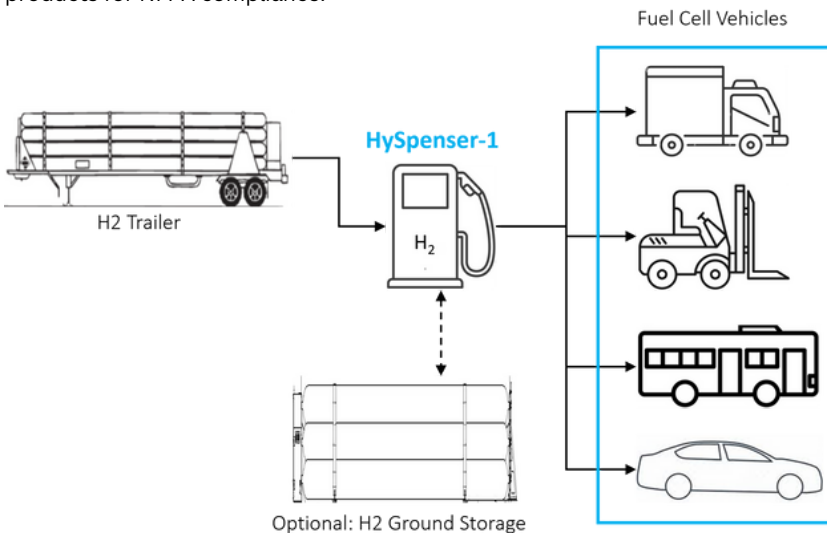
HySpenser 1

“The Hydrogen World Needs Starter Kits”



Fuel Your Fleet, Not Your Overhead

The HySpenser-1 is an innovative filling solution for all fuel cell-based vehicles. Combining a compact, high-capacity compressor with a 350bar dispenser on to a portable skid, makes the Hyspenser-1 the perfect temporary or semi-permanent filling station for most applications. As an easy to install solution, customers can easily deploy the Hyspenser-1 with minimal permitting and infrastructure. The HySpenser-1 can be used as stand-alone solution or integrated with a ground or small bulk hydrogen storage module for a fast fill experience. HySpenser provides inter-stage cooling which may eliminate the need for an external chiller and integrates with H2 Compressor’s line of safety products for NFPA compliance.



Features

Dispenser Features

- WEH TK16-35 dispenser nozzle
- Rheoniks mass flow meter
- J2601 fill protocol available
- Realtime, app-based data access and logging telemetry system

Compressor Features

- Interstage hydrogen cooling ($\Delta T \leq 5^{\circ}\text{C}$)
- Easy to maintain
- Capable of 400bar dispense pressure
- Easy to deploy and maintain
- One year warranty along with maintenance programs

Applications



Get In Touch

Prescott Stone
 Phone: (415-298-3439)
 Email: stone@h2compressors.co

HySpenser 1 Specifications



About Us

H2 Compressors LLC may be a new company, but its team has over 100 years of experience in compressors and hydrogen. Combined, H2 Compressors intends to become a leader in providing hydrogen specific compressors with its innovative designs and features while focusing on what the market needs: low cost, short lead times, and top-notch customer support. As true hydrogen enabler, H2 Compressors also integrates a line of hydrogen safety equipment that wirelessly integrate into the HySpenser-1 for NFPA compliance; we truly want to make it easy on the customer to adopt hydrogen as the fuel of the future.

As part of the H2 Strategics LLC family, H2 Compressors plays a key part in our mission to provide hydrogen enabling products and services. Our sister companies include: GTL Leasing LLC and NorAm Cylinders LLC. Call us to see how we can assist in advancing your hydrogen projects.



Model	Hyspenser-1
Compressor Type:	4-Stage, 5-Cylinder Radial Reciprocating
Area Classification	Optional - NFPA 70 Class 1, Division 2, Groups B
Compressor Performance Specifications	
Flow Rate (Capacity):	30SCFM @ 150 PSIG [10.3 Bar] Inlet Pressure
Maximum Discharge Pressure:	6500 PSI [448.2 Bar]
Suction Pressure Range:	75-150 PSIG [5.1-10.3 Bar]
Electrical Requirements	
Power Supply:	480VAC, Three-phase, 60A, 60Hz
Drive Motor Power:	25HP [18.65kW]
Standby Power Operation	Battery
Weight and Dimensions	
Dimensions (D x W x H):	24.05" x 51" x 47.2" (611mm x 922mm x 915mm)
Weight	Approx. 8,000 lbs. (3,628 kg)
Control and Safety Features	
Control System:	PLC (Logic:IEC 61131-3), HMI (7.0" Resistive Touchscreen)
Telemetry System (std):	Realtime Status, Remote Configuration, Alarms
SCADA Abilities	TCP/IP Modbus, Cellular LTE, Satellite (Optional)
Compressor Monitoring (Real Time and Data Logged)	
Temperature Monitoring: Lower and Upper Oil Temperature Minimum: 60 Deg. F., Maximum: 165 Deg. F. (Field Adjustable) Cylinder 5 Head Temperature	
Pressure Monitoring: Lower and Upper Oil Pressure Inlet Pressure Discharge Pressure	
Environmental Conditions	
Ambient Temperature Range:	40° - 114°F [4.5 - 45.5°C]
Altitude:	10,000' (3,080meters)
Noise Level:	60dB at 3' (1 meter)
Compliance and Certifications	
Certifications:	UL Certification
Dispenser Features	
Mass Flow Meter	Rheoniks Model: RHM10 (±1%)
Discharge Interface:	WEH TK16
Communications	Wireless, Cellular
Dispenser Performance Specifications	
Flow Rate (Capacity):	1-2kgs/min avg, depending upon H2 storage selection and cylinder type
Discharge Standards	J2601
Optional Wireless Accessories	
Emergency Shutdown System (ESD) Modules Infrared Flame Detection System Gas Detection System	
Warranty and Maintenance	
Standard	1 Year
Extended Warranty Available	Yes
Optional Maintenance Program	Yes