

DISPENSER TECHNICAL SPECIFICATIONS

Models	Pure H2-350 Single line	Pure H2-700 single line	Pure H2-350/700 dual line
Maximum inlet pressure	500 barg	1050 barg	1050 barg
Rated filing pressure	350 barg	700 barg	350/700
Vehicle type	Forklift Light duty vehicle Heavy duty vehicle	Light duty vehicle	Light duty vehicle Heavy duty vehicle
Nozzle	TK16 or TK20 or TK25	TK16 or TK20	TK20 or TK25
Metering type and accuracy	Coriolis Flow meter, $\pm 0.2\%$		
Hydrogen purity	Same as input gas		
Precooling type	T40 (-40°C) and T20 (-40°C)		
Control system	PLC based with HMI screen		
Environment temperature	-10 to 40°C		
Certification	CE/ATEX/SAEJ 2601 approved		
Dimension (mm)	1400x600x1970	1400x600x1970	1700x600x1970
Weight (kg)	450	450	570
Additional Configuration Options			
Single or Double hose configuration for light and heavy duty vehicles.			
Vehicle communication with IR sensor comply to SAEJ 2799			
Outdoor enclosure in Stainless Steel			
Priority and dispensing panel for managing H2 storage			
External H2 precooling system with chiller and heat exchanger for T40 and T20 operation.			
Full Service contract			

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HYDROGEN DISPENSER 35/70 MPa



Pure H2 Dispenser

This Pure H2 Dispenser is designed to refill hydrogen vehicle at 350 or 700 bar.

Equipment is provided with all necessary auxiliary items to perform safe reliable onsite hydrogen refuelling system. The Dispenser complies to ATEX Standard (EX, EEx), SAEJ 2601 refuelling protocol and is CE certified.

Single and Double-line H2 connection for 700 bar or 350bar vehicle, with breakaway coupling to protect against tow-away incidents.

Metering system based on Coriolis flow meter with accurate metering of the amount of hydrogen dispensed.

Dispenser able to manage up to three banks and multilevel storage pressure.

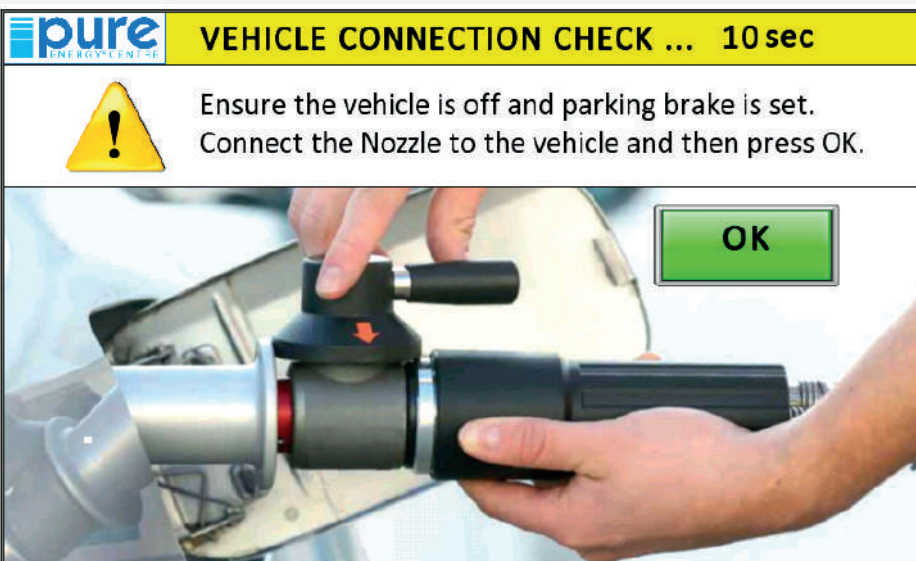
- Refuelling system based on SAE J2601.
- Vehicle communication module with IR sensor comply with SAEJ2799.
- Card reader for payment system.



HYDROGEN DISPENSER

SAFETY FEATURES

- **Hose leak detection system**
During refuelling and during idle condition.
- **Double redundant hydrogen gas leak detector.**
- **Overpressure protection**
Dual redundant protection for each dispensing line.
- **Temperature and pressure sensors**
installed in key locations to ensure highest accuracy.
- **Fail safe design**
Immediate shutdown and automatic venting on alarm event
- **Emergency stop button**
- **Instructions**
Step by Step Refuelling Operating instructions



ON BOARD FEATURES

- **Control system**
PLC based System with HMI display for operator interface and safety monitoring functions.
- **Single and Double-line**
H2 connection for 700/350bar vehicles with hose set and breakaway to protect against tow-away incidents.
- **Metering system**
Based on Coriolis flow meter with accurate metering
- **Banks management**
Multiple banks storage management with priority panel
- **Compliant**
Refuelling system based on SAE J2601, SAE J2799
- **Card reader**
Available for payment system.

