

# Ovonic® Hydrogen Dispensing System Model OHDS-2008-04 Prototype Specifications



A user-friendly, automatic dispensing system designed to refuel vehicles equipped with Ovonic Solid Hydrogen Storage vessels.

The system consists of 2 units:

- hydrogen dispenser (left), and
- chiller cabinet with control system (right)

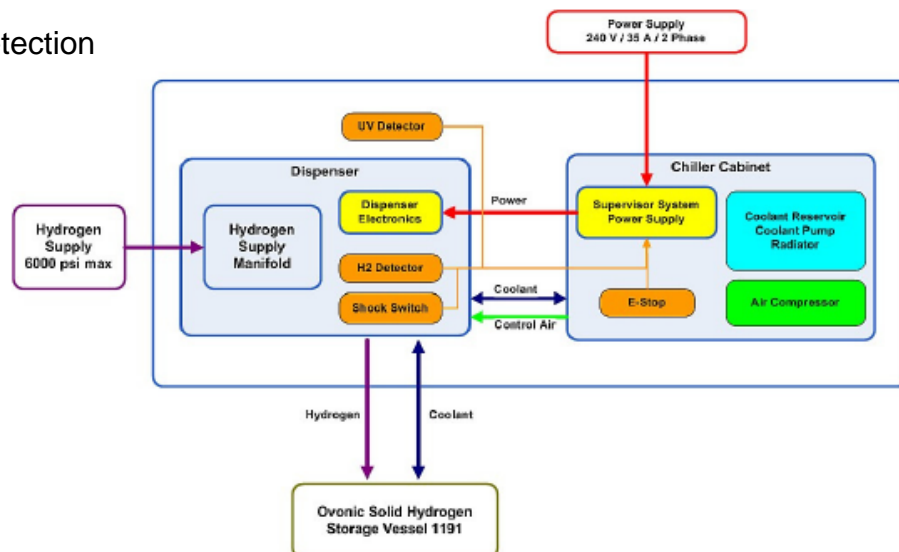
System requirements:

- 240V/30A/2 phase power
- 500-6000psi hydrogen supply

The chiller cabinet includes a 200 gallon reservoir of liquid which is circulated through the storage vessel and a bank of radiators and fans inside the chiller cabinet to remove heat generated during refueling. Typical refill time for a 3Kg storage vessel is 30 minutes or less.

Basic components are illustrated in the following block diagram. Safety components include:

- hydrogen leak detection
- UV/IR detector
- shock switch
- E-stop



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