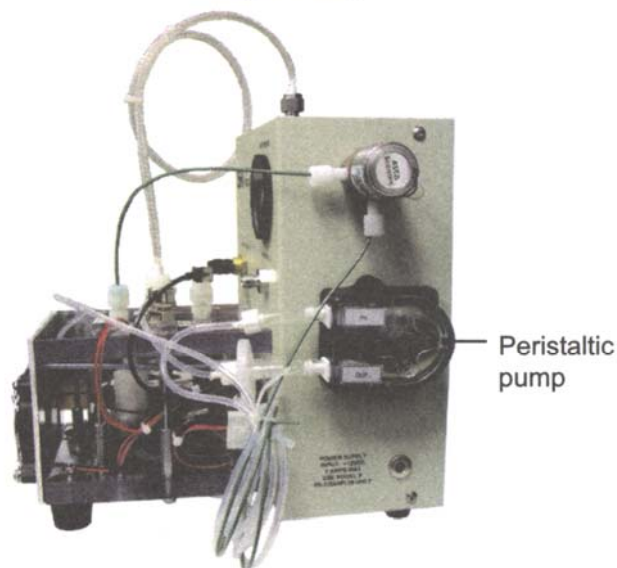
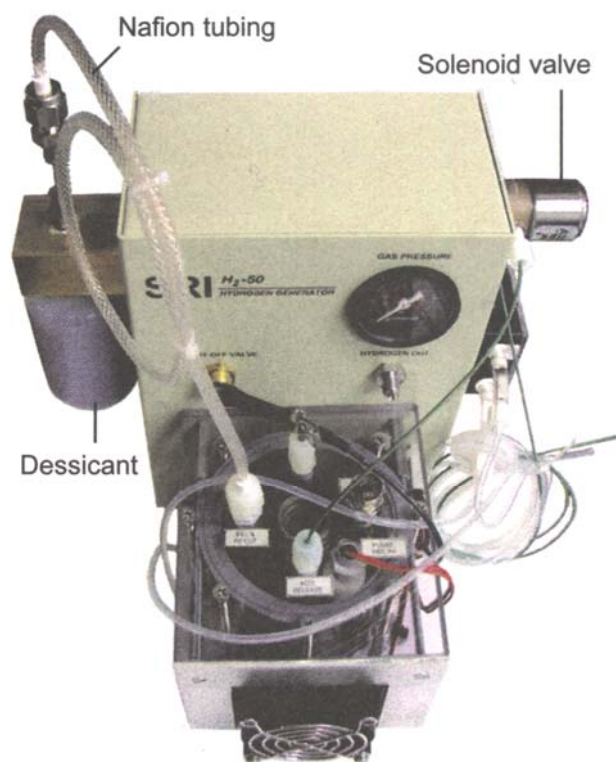


# H<sub>2</sub>-50XR Hydrogen Generator

- **Use Distilled Water from the Grocery Store!**
- **One Month+ Continuous Operation**
- **Produces 50mLs/min at 30psi**
- **Lightweight and Portable**

The SRI H<sub>2</sub>-50XR hydrogen generator gives you the ability to produce hydrogen gas economically and consistently, right in the laboratory, or wherever your GC field work takes you. The H<sub>2</sub>-50XR produces 50 milliliters per minute of hydrogen gas at 30psi using readily available distilled water from grocery and convenience stores. In addition to providing the GC carrier gas, the H<sub>2</sub>-50XR can supply enough hydrogen gas for one SRI FID detector. During operation, it also stores enough hydrogen gas to operate a split injector for short periods.

The H<sub>2</sub>-50XR can operate for a month or more before the Molecular Sieve dessiccant beads need regeneration. Nafion tubing removes most of the water vapor from the hydrogen gas, and the rest is removed by the dessiccant before reaching the GC column. Water is supplied to the generator cell by peristaltic pump from the provided reservoir bottle. If the water level in the cell gets too high, a float switch opens a solenoid to drain the excess water back into the reservoir bottle. As a safety measure, a pressure release valve protects the generator cell from pressure overload.



Since the H<sub>2</sub>-50XR stores just 160-250mLs of H<sub>2</sub> gas at a time, explosion hazards are avoided. With the H<sub>2</sub>-50XR's go-anywhere power supply and the ability to use grocery store quality distilled water, you can perform analyses around the globe without the hassle of compressed cylinders. Its small size makes it lightweight and portable. Its external power supply, equipped with its own transformer, allows operation on various voltages around the world, or it may be plugged into a car cigarette lighter for operation (adaptor not included).

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