

H2 FINAL FILTER®

Your Sulfur Pollution Solution®



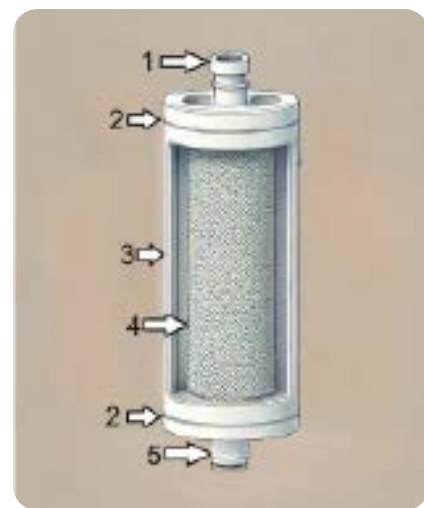
The H2 FINAL FILTER® can make catalyst-killing sulfur compounds undetectable. It was created to clean hydrogen, natural gas, air, helium, nitrogen, fluids such as potable or waste water, water for electrolysis, point of use gas cleansing for laboratory instrumentation such as GC, computer chip cleaning and production, plus many other applications where exceptionally high purity is desired. In this specially designed filter, the intake fluid enters through the bottom (5) and exits through the top (1). The impurity-absorbing SULFUR MAGNET® media (4) is held in place between media support filters (2), all encased in a housing (3).

Proton Exchange Member (PEM) Fuel Cell Application

Sulfur contamination in the hydrogen poisons the catalyst, leading to decreased performance and premature fuel cell failure. The H2 FINAL FILTER® uses our patented SULFUR MAGNET® media to remove sulfur from hydrogen before it enters the fuel cell, ensuring optimal vehicle performance and long life.

Third-party testing has proven that sulfur contaminations are reduced to below 0.2 ppb. This is important because sulfur is the primary cause of fuel cell failure, with the lowest maximum permitted concentration of 4 ppb of volatile sulfur compounds going into the fuel tank. This is the most stringent of the International Standards. Sulfur reduction is critical as it keeps the catalyst pure, thus prolonging the fuel cell's life, and providing greater efficiency, reducing the overall cost of use/maintenance, and increasing the ROI.

- The H2 FINAL FILTER® Mini-HT filters contain the SULFUR MAGNET® inside a 316L stainless steel filter housing and protects:
 - Catalysts, instruments, and equipment to guarantee exceptional purity and performance
- No. 1 in **capacity** worldwide, removing up to 55.4% of its weight in sulfur and no. 1 in **tenacity** worldwide, reducing H₂S to below the limit of detection of 200 ppt
- Traps and eliminates particles larger than 2 micron
- Reduces NO_x to below 200 ppt
- Available with 6 mm, 1/4", or 1/8" compression ends for easy mounting (other sizes available upon request)
- Available for high pressure applications and easy mounting with housings to contain the SULFUR MAGNET®
- The SULFUR MAGNET® is:
 - Not water soluble
 - Not flammable
 - 100% VOC free
 - Transported without DOT restrictions
 - Regenerable, recyclable, or landfill disposal-permitted



Contact Us

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