

H.S.R. 2

Media For The Reduction of Hydrogen Sulfide Odor Originating From The Well

The HSR 2, in combination with Catalox, Greensand Plus or other filter media, is the most effective media for the reduction of hydrogen sulfide, iron and manganese from water supplies*. On-site tests show that the HSR 2 can reliably remove Hydrogen Sulfide up to 25 ppm. Unlike other media, there are very few restrictions to the applications of the HSR 2 media. (For best results with iron & manganese, follow the Conditions of Operation for the base media. i.e. Catalox or Greensand Plus)

- Dissolved oxygen is not essential.
- Requires no regeneration chemicals, only a short backwash.
- Requires very little contact time.
- A small amount of media will treat large amounts of water.

No other media on the market works as quickly as the HSR 2. The media effects the Hydrogen Sulfide instantaneously on contact, so not as much media is needed. For example, an application with 16 gpm water will use only 13 lbs. of HSR 2 on top of an under bed of Catalox and garnet.

HSR 2 is a media that was created specifically for hydrogen sulfide removal. This media works both as an adsorbent and as a catalyst. The hydrogen sulfide is reduced by oxidation to an insoluble sulfur precipitate. These precipitates create particles from 0.1 to 1.0 mm, depending on the amount of hydrogen sulfide present in the water. The precipitates are then trapped by the underlying base media and then easily removed by backwashing. To trap the precipitate of Hydrogen Sulfide a 25 inch minimum under bed of garnet with Catalox or Greensand Plus (Used to remove iron & manganese) are used. Only a short daily backwash is recommended so that the precipitation is flushed away.

Based on the 13 lbs. used in a 1.5 cu. Ft. system, HSR 2 removes 25 ppm from 1000 gallons of water daily (25,000 ppm) and weighs only 42 lbs per cu. Ft dry and requires only regular water to backwash the media bed.

Because of the low amount of HSR 2 media required, we recommend rebedding after the oxidation capacity is exhausted. On a 10

x 54", the capacity is approx. 575,000 ppm.

No chemicals are needed. Chlorine does not harm the HSR 2 media and can be used as a sanitizer or regenerant (Greensand Plus) if required. Apart from hydrogen sulfide, HSR 2 in combination with Catalox or Greensand Plus also treats Iron & Manganese, reduces heavy metals and a wide range of organic substances.

For a regular 8 to 16 gpm residential application, we recommend using a 10 x 54" tank. This residential system is sufficient for 1000 gallons per day. For larger applications a two tank system (One HSR 2 tank and one standard multimedia tank to trap precipitates) may be necessary relative to size of system and application.

Advantages

- Hydrogen Sulfide removal up to 25 ppm†
- Backwash without chemicals or salt
- Long Lifetime
- Highly efficient
- Short Contact Time
- Wide pH range (6 to 9.5)

Physical Properties

- Chemical Designation: Granules with nano structured surface
- Form supplied: Granules
- Size: 0.6 - 2 mm
- Surface: 2800 sq. ft. / gram
- Bulk Density: 42 lbs per cu. ft.
- Color: Red-Brown

Capacity

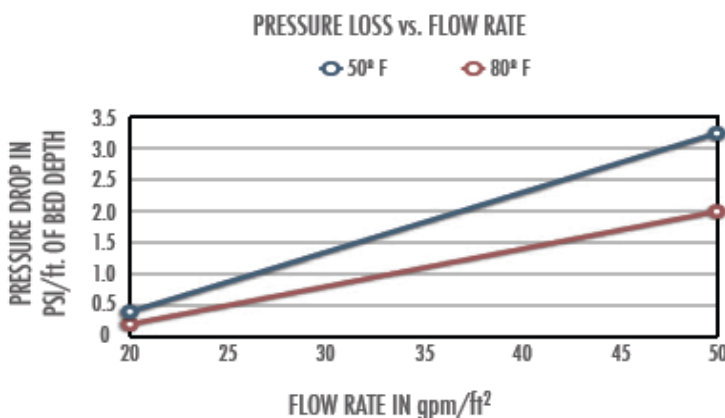
- Filtration Rate: 1.5 to 3 lbs of HSR 2 per gpm water flow
- Odor must originate from the well*

Conditions For Operating

- Water PH Range: 6.0 to 9.0
- Temperature: up to 120 F
- Bed Depth: maximum 27"
- Bed Depth: minimum 10 inches
- Back Flush: 20 gpm gpm/sq. ft.

*Important - Hydrogen Sulfide odor can originate from the well, the hot water heater or from the cold water plumbing. It is important to note that HSR 2 media treats only for the Hydrogen Sulfide odor originating from the well. See: "Sulfur Odor: Cause & Treatment"

†Based on 10 x 54" tank



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