

Hungerford & Terry

HFS Series **Horizontal Filter System**

"The HIGH CAPACITY Solution"



**Recognized Internationally,
Engineered to Last a Lifetime**

...For the removal of Arsenic, Iron, Manganese, Radium, and Hydrogen Sulfide

Hungerford & Terry HFS Series Horizontal Filter Systems offer a space saving, economical solution for Multi MGD potable water treatment applications involving removal of Arsenic, Iron, Manganese, Radium, and Hydrogen Sulfide

Here's how:

Utilizing the larger surface area of a horizontal vs. a vertical filter vessel, the HFS Series water treatment design allows for fewer vessels to treat higher capacity requirements above 1MGD.

Designed for complete installation and operational flexibility, the HFS Series can be installed outside or it can be installed with only the face piping and head inside the building while the straight shell vessel remains outside to keep construction costs down. It can also be operated with all filter cells at once for high capacity treatment demands or efficiently handle off peak flows with several cells taken offline automatically.

Engineered to last a lifetime, the HFS Series system's corrosion resistant Sch. 80 PVC underdrain piping and H&T's "patented" Stainless Steel Self-Cleaning Sand Valves minimize the need for any unplanned outages or impacted effluent water quality. All HFS Series systems also incorporate H&T's standard "TellTale" sample valves that allow for real-time media bed expansion monitoring to verify backwash flow rates are set correctly and minimize media loss.

A highly flexible design to accommodate a variety of installation and flow rate demands

Please Note: When sizing media filtration systems the maximum flow and allowable loading rate in gpm/sq. ft. determines the total square feet of surface area required. Typically, horizontal filters are selected when the flow rates exceed 1 MGD due to their larger surface area as compared to vertical filters. HFS Series systems can also reduce backwash flow rates over 50% which translates to smaller backwash pumps, lower initial capital and operational costs. On larger vessels (<40ft) requiring more than 3 cells, side shell connections are also possible.

Manufactured with rugged, durable components to provide low maintenance and superior performance

All HFS Horizontal Filter Systems can also be supplied with an optional "Backwash Reclaim System" to reduce the backwash waste by over 85%. Further reductions are also possible with additional equipment.

System features include:



ASME Code pressure vessels with stamp rated for various working pressures



Application-specific electrically or pneumatically operated butterfly valves. Anti-condensation heaters and manual hand wheel operators available



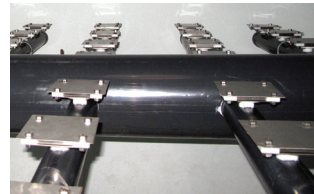
State-of-the-Art Allen Bradley PLC Controller with HMI



Self-Cleaning Stainless Steel Sand Valve for years of reliable and uninterrupted performance



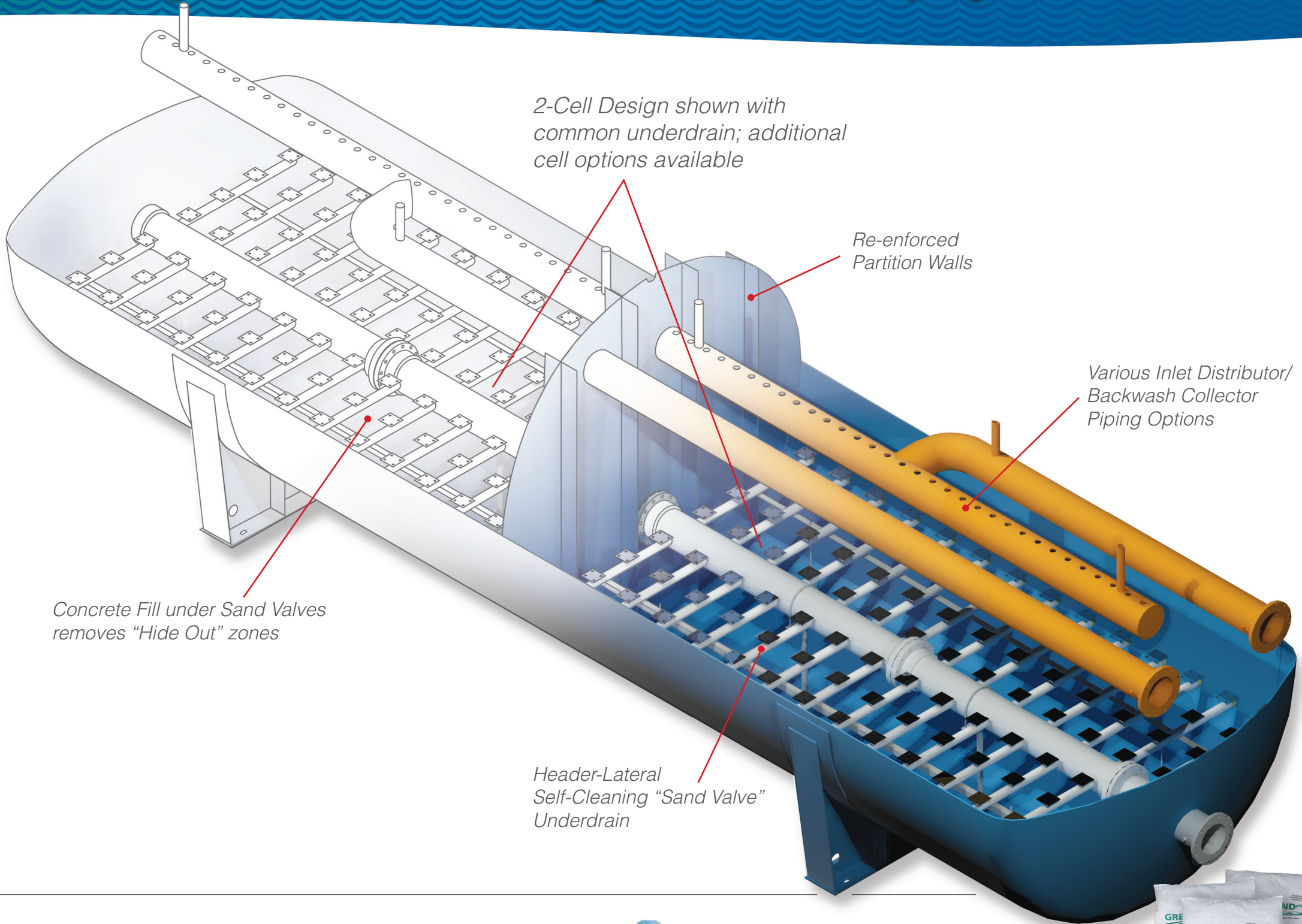
Magnetic bi-directional flowmeter with stainless steel electrodes, 4-20 mA output local display, NEMA4X housing, and no moving parts to wear out



Header/Lateral Underdrain – For uniform collection of filtered water and the even distribution of backwash water



GreensandPlus filtration media recognized in 10 States Standards, AWWA B102-04 / WQA certification to NSF/ANSI/CAN 61 and NSF/ANSI 372



Hungerford & Terry, Inc.

A Leader in Providing Application-Specific Water Treatment Solutions

For more than 100 years, H&T has met the challenge of new regulations with a vast array of water treatment solutions.

H&T advanced water treatment solutions include systems that remove iron, manganese, hydrogen sulfide, arsenic, radium, nitrate, sodium, perchlorate, hardness, color, PFAS/PFOS and other contaminants for municipal, industrial, and government facilities worldwide.

Hungerford & Terry, Inc. also designs and manufactures complete demineralizer systems, forced draft and vacuum degasifiers, condensate polishers, and specialized treatment systems.

In the 21st century, H&T continues to improve water treatment solutions through in-house research and development with a focus on economizing operational costs and waste generation. Through advances in science and technology, H&T is focused on one purpose – to produce pure water, our most precious resource.



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