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www.captureH2O.com (760) 683-5099

next™ Sand HZ Filter Systems

A cost-effective alternative where
submicron is not required

- 5.0 Micron nominal
- Lower cost solution for HVAC applications where pressure and/or temperatures are not a concern
- The ultrahigh surface area, high porosity, surface microstructure and abrasion resistance are perfect for filtration applications
- Optional 4G connection for remote alarming
- Flexible configurations for challenging footprints or locations
- Units can ship unassembled for installation in small rooms, basements, etc.

1/2 the WATER
USAGE

2x the FLOW

ADVANTAGES of next™ Sand

- Higher filtration efficiency
- Lower pressure drop
- Longer filtration runs
- Higher performance
- Higher flows
- Smaller foot print
- Higher dirt loading due to media porosity
- A true nominal 5.0 micron technology
- Reduced backwash frequency
- Ideal for high TSS & Turbidity water sources



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next™ Sand
5.0 Micron Turbidity



Unique Design Features

This media offers more filtration advantages over conventional sand, sand & anthracite, multimedia and other filter media products for pressure vessel applications.

Bed flux rates are variable and operate at much higher flow rates when compared to other filter designs. Flow rate range of operation is between 12 – 20 gpm/sq.ft. of media surface area as compared to 3 – 7 gpm/sq.ft. of media surface area of conventional sand & multimedia filters.

Higher flow rates translate into a smaller foot print filter design.

The media characteristics also allow for longer filtration cycles between backwashes.

The backwash rate is equal to the filtrate rate under normal conditions due to the filtered suspended solids loading within the entire media depth. The water volume used during backwash will be offset by longer filtration runs.

Backwash time can be variable between 6 – 10 minutes and is field adjustable.

Conventional sand & multi-media filters use more water as they are designed for longer backwash times of 10 – 20 minutes and require 1½ times more backwash flow compared to the filtrate flow rate.

Smart Controls

Capture H2O PLC based with HMI Color Touch Screen interface monitor

Field adjustable features for variable loop conditions

BAS dry contacts

Real time visual filter illustration of operation

Alarm warning for pump and valve faults

Three backwash modes of operation: auto, manual, time

Backwash countdown timer

Production screen for backwash gallons used and number of cycles

Setup screen is password protected

Construction Materials

FRP Poly lined vessels

Special internal slotted vessel upper and lower distributor and collector

Pressure transducer

Vertical or horizontal mounted filter pump with a VFD for soft starts

Filter pump/motor TEFC high efficiency

Electric actuated valves with NEMA 4 X enclosure

Control panel with NEMA 12 enclosure

Influent or effluent flow meters optional

Manual vent / sample valve and tubing on top of vessel

Lower manifold drain

Garnet under drain support media

HZ media 14 - 40 mesh size

Fully assembled skid mounted

Need submicron filtration? Contact us about our premier Vortisand systems for higher temperature, higher pressure, or submicron filtration applications.