

THE NEW HIGHER CAPACITY MODULAR MEDIA FILTER FROM HIT PRODUCTS CORPORATION, WATER TOOL FILTER DIVISION

Sand media filtration is one of the oldest filter processes in the world. Water Tool Modular Filters have made extensive improvements to the expansion of the media bed than what is presently available in today's market.



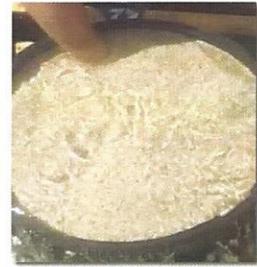
**LARGER MODULAR
MEDIA TANK**



**UNDER DRAIN
(patent pending)**



ACTUAL BACK FLUSH OPERATION



The Water Tool back flush under drain is the only exclusively designed unit for the most efficient back flush on the market today.

1. **The Under Drain is one piece, heavy duty construction and the only one in the market that covers the entire bottom area of the filter. Thus allowing maximum media expansion for the most complete back flushing.**
2. **Only vertical back flush flow, no wasted horizontal or downward flow which allows all back flush flow to expand the filter bed.**
 - A. Reduces back flush time, thus saving water.
 - B. Reduces the depth of the media bed, lowers pressure loss through media bed, saving initial media cost and manufacturing costs.
 - C. Gives as close to 100% efficiency back flush media cleaning as possible.
3. **Constructed of non rust materials**
 - A. Glass filled nylon tank, a proven long lasting material. 100 PSI rating.
 - B. UVR PVC manifold system (Ultra Violet Resistant) This material has been used since its' development in the late 1970's.
4. **Easy installation**
 - A. Light weight construction, saves on freight costs, installation, no equipment and minimal manpower needed.
 - B. Minimum tools required, most connections are union type fittings requiring only hand tight, or groove type fittings.
 - C. One man can install the entire system, no matter how many tanks.
5. **Modular design**
 - A. Each modular filter is capable of flows from 68 to 100 GPM, depending on media used, an increase from the 17-25 GPM of the original smaller unit.
 - B. Higher flow systems can now use the modular media filtration system with fewer tanks than the smaller system introduced two years ago.
 - C. As many modular filters can be added to meet the flow requirement of the system.
 - D. Modular filters can be added to or subtracted from the system to meet future flow requirements.
6. **Back flushing**
 - A. Large tanks require higher flows and longer valve actuation time to back flush the media bed.
 - B. Water Tool Modular filters require less than 100 GPM to back flush the media bed. On most systems this will be only a small percentage of the total flow, thus keeping higher back flush pressure sufficient to provide a quick and thorough cleaning of the media bed, thus saving valuable water and eliminating expensive downstream pressure sustaining valves.
 - C. Water Tool provides an economical self cleaning screen filter to recycle the sand media back flush water and return the semi cleaned water back to the sand media filter system, thus saving more than 99% of the back flush water.
7. **Automatic controls**
 - A. The Back flush controller will control from 1 to 96 stations. (The largest station controller available).
 - B. Only two control wires go from the controller to the Modular tank system, using two wire/decoder technologies. Eliminating installation labor, saving wire costs and unsightly wire bundles.
 - C. The PD switch will operate if the controller is in the "Off" position, saving potential dangerous high differential problems.
 - D. The controller keeps track of the number of flush cycles in a resettable timing function that can be viewed at the controller.
 - E. The controller power supply is not a transformer, but a power regulator that can take input power from 90 to 250 volts, 50 or 60 Hz power 12VDC output and converts to 12VDC Solar panel and battery power easily without additional wiring transformers.
8. **Maintenance**
 - A. The back Flush valves can be removed from the system in less than one minute and reassembled in the same time.
 - B. The disassembly and reassembly of the back flush valve can be accomplished in less than 5 minutes if necessary.
 - C. No cast iron or metal valves to accumulate rust causing leaking conditions on the seals.
9. **Costs are less or comparable to existing markets depending on the number of tanks needed.**
 - A. Considerable initial freight cost savings.
 - B. Major installation cost savings.
 - C. Low maintenance costs.
10. **Overall the most efficient media filter available in today's demanding market of water savings and efficiencies. All components necessary to install and operate this filter system are included in the package, pressure gauges, air release valves, control valve filter, fittings.....all included for easy and fast installation and operation.**