12” SAND MEDIA FILTERS
**Filtration Mode**

- **Inlet**: (Unfiltered Water)
- **Outlet**: (Filtered Water)
- **Packed Filtration media bed**
- **Underdrain**

**Back Flush Mode**

- **Inlet**: (Unfiltered Water)
- **Outlet**: (Filtered Water from other tank(s))
- **Back Flush Discharge**
- **Back Flush floating media bed for cleaning**
- **Underdrain**
Filter System Features Include

- Light Weight No Rust - Glass Filled Nylon and UVR PVC Construction
- Modular Design - 15-25GPM per Tank - Add as Many Tanks as Needed
- Minimal Back Flush Water - Individual Back Flush Valves
- Two Wire Back Flush Controller - 96 Station Back Flush Controller
- Pressure Differential Switch included on all Automatic Systems
- Similar Foot Print As Existing Sand Media Tanks
- No Pressure Sustaining Valves Needed for Back Flush - Saves Extra $
- No Forklifts Needed - Easy Installation - Quick Installation
- Only 5 Gallons of Sand Media Per Tank - 70 Pounds
- Available with Groove Inlet/Outlet or Union Connections
- Supplied with Air Relief Valves and Pressure Gauges
- Back Flush Water Recovery System Available
- All PVC Components are tan Ultra Violet Resistant “UVR” PVC

FULL VERTICAL UNDERDRAIN
AUTOMATIC SYSTEMS INCLUDE:
BACKFLUSH CONTROLLER AND PD SWITCH

Utilizes “Two Wire” technology for control of all valves

Water Tool Sand Media Filter Back Flush Controller

A Back Flush Controller specifically designed for back flushing multiple Sand Media Filters incorporating the following user friendly features.

1. Can control up to 96 separate Back Flush valves.
2. Adjustable Back Flush duration from 15 to 180 seconds in 15 second increments and from 180 to 300 seconds in 30 second increments.
3. A dwell time between each filter Back Flush can be set from 15 to 180 seconds.
4. Flushing frequency can be set from 1 to 6 hours in 1 hour increments, 6 to 24 hours in 2 hour increments, 24 to 48 hours in 6 hour increments, and 48 to 168 hours in 12 hour increments.
5. May initiate a manual flush cycle anytime with a push of a button.
6. The controller can initiate a Back Flush cycle using the Water Tool pressure differential switch (part# PD-S). A Pressure Differential switch is shipped standard with all “Automatic filter systems”
7. Controller will display the number of actual Back Flush cycles during a re-settable time period.
8. Utilizing “Logic Two Wire Technology” provides for a cost effective and efficient installation or system expansion.

All these easy to use features are in a simple Dial and Button format.
2 TANK HORIZONTAL / 2 TANK VERTICAL

US Patent No. 9,358,480

30-50 GPM
113-190 L/M

US Patent No. 9,358,480

30-50 GPM
113-190 L/M
3 TANK HORIZONTAL

US Patent No. 9,358,480

45-75 GPM
170-284 L/M
4 TANK HORIZONTAL STACKED

60-100 GPM
227-379 L/M

US Patent No. 9,358,480
5 TANK HORIZONTAL STACKED

US Patent No. 9,358,480

75-125 GPM
284-473 L/M
6 TANK HORIZONTAL STACKED

Flush

90-150 GPM
340-567 L/M

US Patent No. 9,358,480
MULTIPLE TANKS IN UNITS OF 6 OR MORE MANIFOLDS AVAILABLE

90-150 GPM
340-567 L/M

US Patent No. 9,358,480
OPTIONAL MANIFOLDS AVAILABLE

INLET MANIFOLD
WTA-183

DISCHARGE MANIFOLD
WTA-182

All parts listed above are included in WTA-183

All parts listed above are included in WTA-182
## TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>EQUIVALENT MESH SIZE</th>
<th>VOLUME OF MEDIA PER TANK</th>
<th>BACK WASH FLOW (GPM/LPM)</th>
<th>MAX FLOW RATE PER TANK*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MINIMUM</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>#12 SILICA SAND</td>
<td>140</td>
<td>16 GPM 61 LPM</td>
<td>30 GPM 114 LPM</td>
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<tr>
<td>#16 SILICA SAND</td>
<td>170</td>
<td>12 GPM 45 LPM</td>
<td>25 GPM 95 LPM</td>
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<tr>
<td>#20 SILICA SAND</td>
<td>230</td>
<td>9 GPM 34 LPM</td>
<td>15 GPM 57 LPM</td>
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<tr>
<td>#30 SILICA SAND</td>
<td>400</td>
<td>6 GPM 23 LPM</td>
<td>12 GPM 45 LPM</td>
</tr>
<tr>
<td>14x40 MESH ZEOLITE</td>
<td>Down to 5 microns</td>
<td>6 GPM 23 LPM</td>
<td>12 GPM 45 LPM</td>
</tr>
</tbody>
</table>

| PRESSURE DROP COMPARISON CHART - 5 GALLONS OF MEDIA APPROX. 6” BELOW TOP |
|-------------------------------|------------------------------|----------------------------|----------------------------|
| FLOW RATE GALLONS PER MIN     | ZEOLITE  | #30 SAND | #20 SAND | #16 SAND | #12 SAND |
| 15                            | 1.5      | 2        | 1.5       | 1.0       | 1.0       |
| 20                            | 2.5*     | 4*       | 3.0       | 2.0       | 1.5       |
| 25                            | 3.5*     | 5*       | 4.0*      | 3.0       | 2.5       |

*NOT RECOMMENDED
SYSTEM DIMENSIONS

Minimum necessary to remove valve for maintenance

12-1/8”
30-3/4”
30-1/8”
12”
12”
15-3/8”
67”
60-3/4”
33-3/4”
.27-1/2”

54-3/4”

30-3/4”
12”

25-5/8”
11-1/8”
14-1/2”
9-1/8”
9”

74-1/2”
41-1/4”
All of the above Modular units of the Water Tool filters include:

- Tanks
- Back flush valves
- Manifold fittings and Manifold pipes between tanks
- Pressure gauges
- Air release valves
- Back flush valve filter
- Bases and legs
- Site tube for back flush line
- Back flush control valve 1"

**Automatic Units:**
In addition to above, the automatic units include:

- Automatic 96 tank Back Flush Controller and Pressure Differential Switch with normally open contacts

**Customer is responsible for:**

- Media
- Piping for Inlet and Outlet Connections to Filter System
- Piping for Back Flush Discharge to desired location

**Freight Terms:**
Freight is FOB Lindsay, California on all units.

**Filter Warranty:**
Hit Products Corporation warrants to its trade customers that its Water Tool Filter products will be free from defects in material and workmanship, from the original date of purchase, for a period of ONE YEAR. Within the warranty period, Hit Products Corporation, will have at its sole discretion, the option to repair or replace all or part of defective product, or refund part or the entire purchase price. Defective products must be returned, freight prepaid, at the buyers expense after such product return authorization has been given by Hit Products Corporation to the Buyer. Hit Products Corporation does not warranty any labor claims, including but not limited to labor installation removal and reinstallation of said product. Hit Products Corporation shall not be responsible or liable for any loss of profit, lost savings or loss of sales.

### PRICE LIST

**PART #REFERENCE**

- **H** = Horizontal tank layout
- **V** = Vertical stacking of tanks
- **G** = Grooved inlet and outlet connections
- **U** = Union inlet and outlet connections
- **A** = Automatic back flush with controller and decoder included
- **M** = Manual (no automatic back flush controller)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Inlet/Outlet</th>
<th>Back Flush</th>
<th>Flow GPM</th>
<th>Flow L/M</th>
<th>List Price</th>
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<tbody>
<tr>
<td>WT-2HGA</td>
<td>2 Tank Horizontal</td>
<td>Groove</td>
<td>Automatic</td>
<td>30-50</td>
<td>113-190</td>
<td>$2,444</td>
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<td>2 Tank Horizontal</td>
<td>Groove</td>
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<td>WTA-150D</td>
<td>Automatic Decoder for Manual Back Flush Conversion to Automatic</td>
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<td>WTA-150PD</td>
<td>Back Flush Controller 2 - 99 Tanks : Includes Ad, Pressure Differential Switch</td>
<td></td>
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<td>$950</td>
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</tbody>
</table>
FOR HIGHER FLOWS... CHECK OUT THE WATER TOOL

24” SAND MEDIA FILTERS

Flow: 40 - 100 GPM per tank

Tank Pressure Rating: 80 PSI

Tank Media: 20 gallons per tank

Complete Systems, Manual or Automatic Operation