**Design Specifications**

- **Service Flow Rate (15 psid):** 7 gpm
- **Pressure Range:** 20 – 120 psig
- **Temperature Range:** 35 – 110°F

**System Components**

- **Media Vessel (qty) Size:** (1) 10” x 40”
- **Media Vessel Construction:** Wrapped Polyethylene
- **Empty Bed Volume:** 1.54 ft³
- **Media Type:** Calcite
- **Media Volume (per tank):** 1.10 ft³
- **Under Bedding Volume:** 0.14 ft³
- **Total Bed Depth:** 25”
- **Free Board:** 15”
- **Riser Tube:** 1.05” ABS
- **Lower Distributor:** 0.012” Slots, ABS
- **Backwash Control:** Timer
- **By-pass During Backwash:** Yes
- **Water Used for Backwash:** Raw Water
  *Freeboard may vary due to settling.*

**Connections**

- **Inlet / Outlet Connections:** ¾” – 1” In/Out Adapters
- **Drain Connection:** ½” FNPT
- **Power, Valve:** 120 VAC

**Backwash Specifications**

- **Sequence:** Flow, Time
- **Flow:** 6.00 gpm
- **Time:** 20 minutes
- **Volume:** 120 gallons
- **Settle:** n/a
- **Rapid Rinse:** 6.00 gpm
- **Time:** 10 minutes
- **Volume:** 60 gallons
- **Total:** 40 minutes
- **Volume:** 180 gallons

**Dimensions and Weight**

**System**

- **Overall Height:** 49”
- **Overall Width:** 14”
- **Overall Depth:** 12”
- **Tank Width:** 10”
- **Shipping Weight:** 85 pounds
- **Operating Weight:** 115 pounds

**Valve**

- **Height:** 9”
- **Width:** 12.5”
- **Depth:** 12”
- **Tank Thread:** 2.5” UN
- **Riser Tube (OD):** 1.05”
- **Valve Weight:** 10 pounds

**System Part Numbers**

- **PF3500TN:** 15624

**In / Out Adapters**

- ½” Male NPT, Plastic: 13120
- ½” Female NPT, SS: 13121
- ½” Sweat: 13122
- 1” Male NPT, Plastic: 13123
- 1” Female NPT, SS: 13124
- 1” Sweat: 13125

**System Accessories**

- PL By-pass Valve (included with system PN): 13119

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Operating Profile
The filter will provide neutralization to a range of 6 – 7.5 pH when operated in accordance with the owners manual and design specifications. Consumable media will be used for the neutralization process. The system provides filtered water using a simplex (single tank) configuration. System backwashes are initiated based on the time of day. The programmable timer allows backwashes to be programmed over a 12-day period.

Backwash Control Valve
The backwash control valve is top mounted (top of media tank), and manufactured from non-corrosive materials. The control valve does not weigh more than 10 lbs. and operates using a minimum pressure of 20 psi. The control valve incorporates three backwash cycles including: backwash, settle and rapid rinse. The service cycle operates in a downflow direction and the backwash cycle flows up through the media bed. The control valve contains a fixed backwash flow control. The control valve will allow the by-pass of hard water to service during the backwash cycle.

Media Tanks
The tanks are designed for a maximum working pressure of 120 psi. Tanks are made of polyethylene and reinforced with a fiberglass wrapping. Tanks have a 2.5" threaded top opening. The distribution system is a slotted design. The distribution system provides even distribution of backwash water and the collection of processed water.

Filter Media
Each filter uses 1.0 cubic feet of calcite media. The media is solid, of a proper particle size and doesn’t contain plates, shells, agglomerates or other shapes that might interfere with the normal function of the water filter.