Design Specifications
Service Flow Rate (15 psid) .................................................. 7 gpm
Pressure Range ............................................................... 20 – 120 psig
Temperature Range .......................................................... 35 – 110° F

System Components
Media Vessel (q2) Size ...................................................... (1) 10" x 40"
Media Vessel Construction ______________________________ Covered Polyethylene
Empty Bed Volume ........................................................... 1.54 ft³
Media Type .................. Carbon
Media Volume (per tank) ................................................... 1.0 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" InOut Adapters
Drain Connection ........................................................ 1/2" FNPT
Power, Valve .............................................................. 120 VAC

Backwash Specifications
Sequence .... Flow .... Time ** Volume
Settle .............. n/a .... 10 minutes ....... n/a
Backwash ........ 6.00 gpm .... 20 minutes ....... 120 gallons
Rapid Rinse ...... 6.00 gpm .... 10 minutes ....... 60 gallons
Total ............... 6.00 gpm .... 40 minutes ....... 180 gallons
** Times are adjustable.

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
PF3500TC ...................... 15622

In / Out Adapters
¾" Male NPT, Plastic ................. 13120
¾" Female NPT, SS ................. 13121
¾" 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 remove chlorine to a level below 0.05 mg/L when operated in accordance with the owner's manual and design specifications. 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 carbon 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.