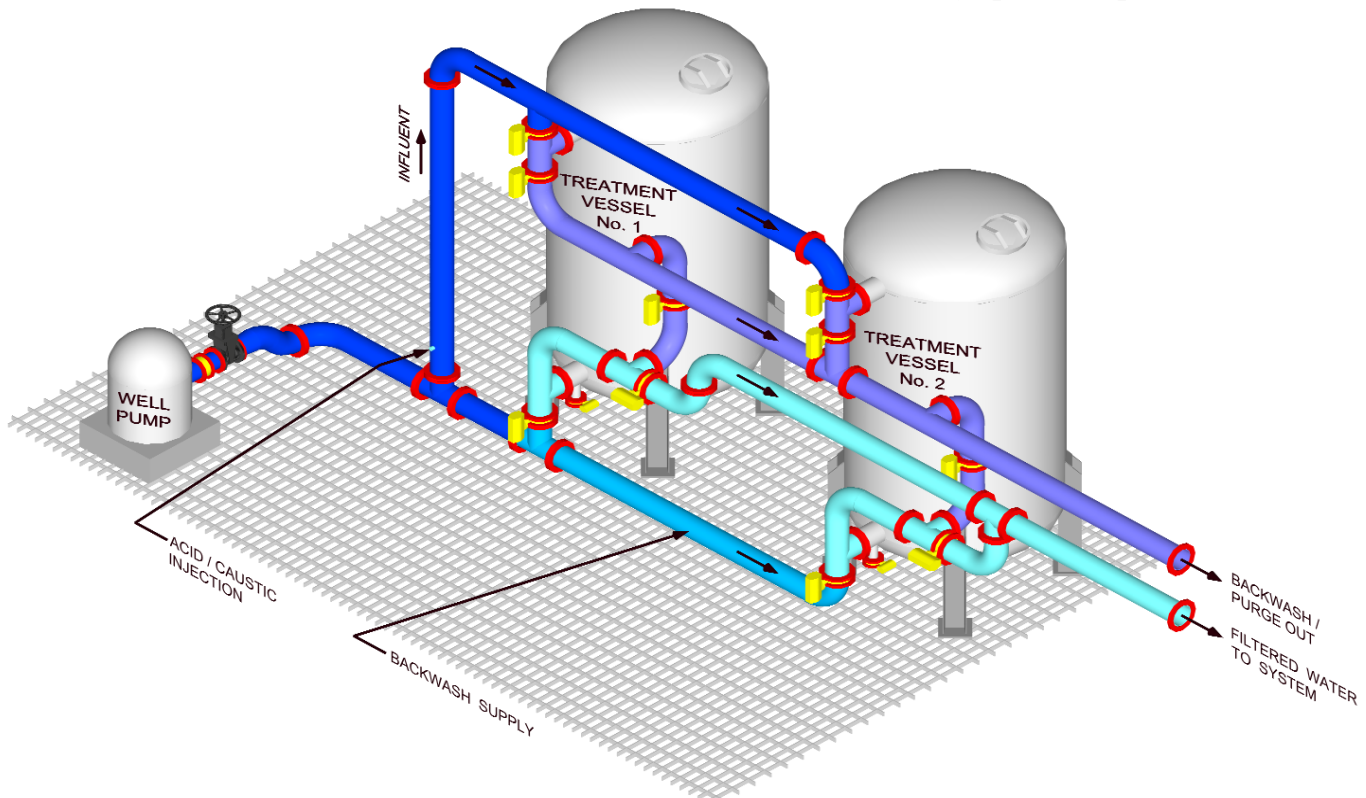




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FLUORIDE REMOVAL SYSTEMS

THE PUREFLOW® SYSTEM FOR THE REMOVAL OF FLUORIDE from potable water is an improved design for the water treatment industry. A highly adsorptive activated alumina media, and chemical treatment system, combine to provide a simple, safe, compact process, with automatic controls, that requires minimum attendance by operations personnel.



- o USER FRIENDLY SYSTEMS
- o AUTOMATED CONTROL
- o MINIMAL MAINTENANCE REQUIREMENTS
- o COMPETITIVE OPERATIONAL COSTS
- o CHEMICAL TREATMENT EQUIPMENT
- o DESIGN / BUILD SYSTEMS
- o TOTAL SYSTEMS RESPONSIBILITY
- o FLOW RANGES FROM 20 GPM TO 10,000 GPM
- o REGENERATION TREATMENT SYSTEMS
- o NO-HASSLE SERVICE

THE PROCESS AND HOW IT WORKS

The Pureflow® Fluoride removal process includes a unique, highly porous activated alumina media that is physically and chemically stable. It has large surface areas and high porosity that makes it an excellent adsorbent. The media is chemically inert to all but the most corrosive gases and liquids, and resists abrasion and disintegration.

Well water containing fluoride is chemically pretreated to adjust the pH. At the optimum fluoride removal pH, some organic molecules and some trace heavy metals, including arsenic, are adsorbed on the media.

Automatic pH control insures optimum chemical pretreatment. Fluoride ions are attracted and held to the vast surface areas throughout the pores of the activated alumina, and fluoride removal is reliably achieved.

When the activated alumina bed has removed the maximum amount of fluoride, it requires regeneration to remove the fluoride from the media. The bed is backwashed to remove suspended solids, next the bed is treated with caustic solution to dissolve fluoride from the media. The bed is then flushed with raw water to remove excess caustic solution and neutralize the bed.

TYPICAL FILTER SIZES

*gpm	MODEL NUMBER	SURFACE AREA SQ. FT.	FILTER DIAMETER IN INCHES	FILTER STRAIGHT SIDE SHELL	FILTER SHIPPING WEIGHT LBS.	PIPE OUTLETS IN INCHES
10	F-16	2	20	60"	360	1 1/2
15	F-24	3	24	60"	450	1 1/2
25	F-40	5	30	60"	750	2
35	F-56	7	36	60"	1300	2
48	F-77	9.6	42	60"	1600	2
62	F-100	12.5	48	60"	1800	3
100	F-160	20	60	60"	2200	3
115	F-184	23	66	78"	3500	3
140	F-225	28	72	78"	4000	4
165	F-265	33	78	78"	4500	4
190	F-305	38	84	78"	5000	4
315	F-505	63	108	78"	6000	6
390	F-625	78	120	78"	7000	6

*Flows and side shell depth may vary with design conditions.

STANDARD FEATURES AND EQUIPMENT:

- o 75 psi ASME code pressure vessel
- o Chemical pretreatment equipment
- o Process analyzers, recorder
- o Filter face piping
- o Pneumatically operated butterfly valves
- o Filter flow control valves
- o Backwash flow control valves
- o Filter and backwash flow meters
- o NSF approved interior coating
- o Regeneration chemical treatment equipment
- o Air compressor
- o Automatic control panel
- o Manways, and hatchway when required
- o Drain valves (up to 4")
- o Air relief valves
- o Custom written O & M manuals
- o Start-up instruction

OPTIONS AND SPECIAL DESIGNS:

- o Backwash / regeneration water treatment systems
- o High pressure ASME code vessels
- o Design / Build Systems
- o Service contracts
- o Pilot filters for field testing
- o Special designs available upon request.

LOCAL REPRESENTATIVE: