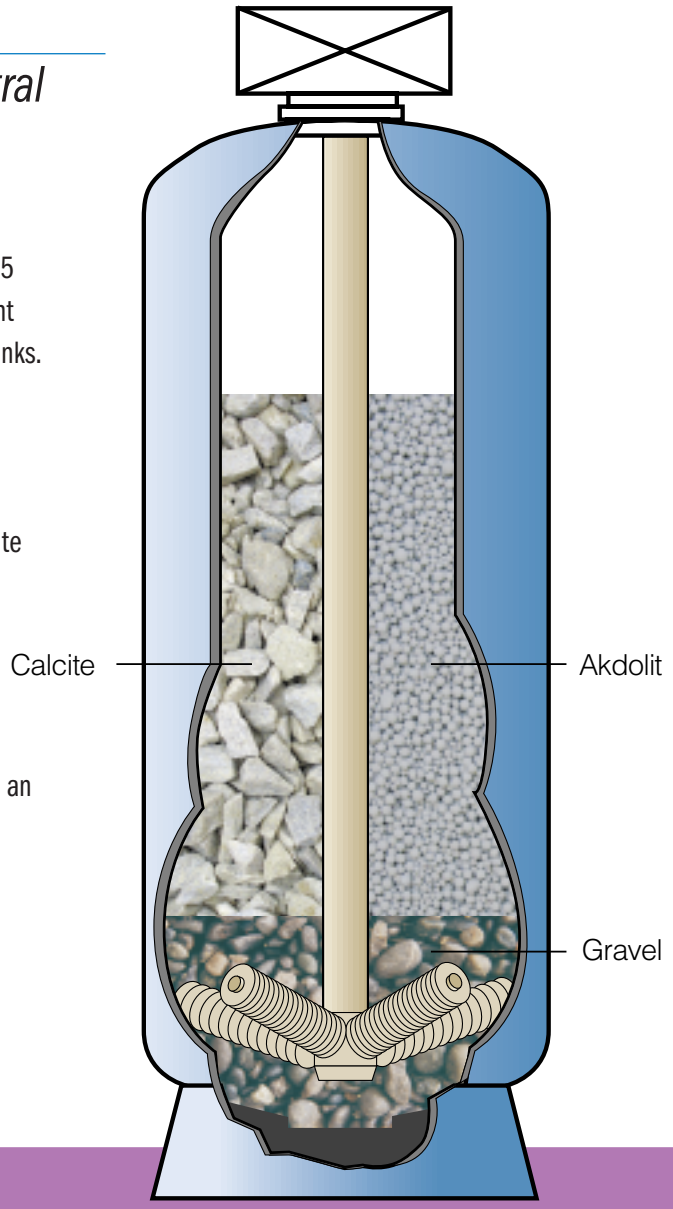
pH Neutralising Filter

...for raising water pH levels from acidic to neutral and above neutral preventing corrosion.



New Zealand bore and roof water supplies are naturally acidic, some as low as 4.5 pH. Most are around 6.0 - 6.8 pH. At these pH levels, the water is a natural solvent and will try to correct itself by absorbing minerals/metals from pipes, taps and tanks.

A lot of the minerals/metals contained in the water are toxic to humans in larger doses (i.e. lead, zinc, copper and others).

AquaFlo pH Neutralisers use natural minerals, such as calcium (lime) and Dolomite (heat treated to produce Akdolit) to raise the pH level of the water into the desired range. The low pH water takes up these minerals until it reaches a stable state. This prevents the water from corroding pipe work, PLUS makes your drinking water safer to drink without high lead, zinc or copper levels.

If iron and manganese concentrations are high, use a Calcite Filter, otherwise use an Akdolit Filter. If hardness is above 80gm/m^3 $CaCo_3$, consult with supplier.

The control of the filter system ranges from Forward Flow or Up Flow, Manual Backwashing to Fully Automatic (a time-clock allows adjustable backwashes from 1 to 6 days.

The system connects to the main waterline to your home and treats all incoming water. Units can be fitted with blending valves to control pH levels.

Control Valve Options

Magnum / 942F

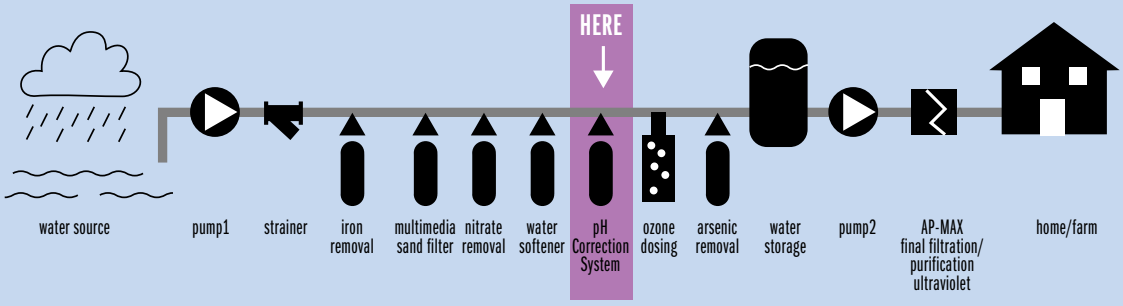
180 / 440i

Performa / 740

Performa / 440i

Manual Multifunction

Where you are in the AquaFlo water supply sequence...



AquaFlo

GENERAL SPECIFICATIONS

Pressure Vessels
Wound resin bonded fibreglass filament for strength and polyethylene inner shell for chemical inertness.

Working Pressure 200 - 1040 kPa. (30 - 150 psi)
Operating Temperature 5 - 40°C maximum

Valves*
- Multifunction manual
- Autotrol Series Performa 263 & 273 Noryl Control valve for small to medium size plant
- Autotrol 180 Brass valve for medium to large

Controllers
Electrically operated 6 or 7 day time clock driving control valve as standard. Optional volume based control available.

Instructions
Installation and Operating Instructions are included with all Multimedia Filters.

Media
High quality greensand, gravels and optional other media as appropriate for the application.

Pipe Work
Standing pipe work, where fitted, connecting filter vessel to valving is rigid PVC. Galvanised pipe is available as an option.

Installation
Any regulatory requirements pertaining to plumbing and drainage connections are the responsibility of the client. Plant should be installed under cover protected from direct sunlight, rain and frost.

Client to Provide
- Single phase 230 volt power (only if autocontroller used).
- Drain for backwash.
- All connecting pipe work and valving from control unit.
- Minimum 200 kPa (30 psi) operating pressure if backwashing
- Water flow or pump operation at 2.00 am to allow for Auto-backwashing

** Filtec reserves the right to offer an alternative valve(s) depending on customer requirements.*

Cautions:
- *A Pressure Reduction Valve should be installed in areas of high water pressure over 800 kPa (120 psi)*
- *If abrasive grit or large particles are present in the water supply, an inlet strainer is recommended to prevent damage to the backwash valve*

SYSTEM SPECIFICATIONS

Model	Flow Rate (L/min)		Inlet/ Outlet (mm)	Valve	Tank Diameter (mm)	Tank Height (mm)	Media (kg)	Tank Volume (Litre)
	Max	Backwash						
AK180	28	28	20	M=Manual Multi A=Performa timeclock	180	935	20	20
AK200	45	45	20	M=Manual in/out A=Performa timeclock	200	935	20	25
AK225	50	50	20	M=Manual in/out A=Performa timeclock	225	935	20	31
AK250	60	60	20	M=Manual in/out A=Performa 740/440i	250	1420	20	62
AK300	75	75	25	M=Manual in/out A=180/440i	300	1360	20	84
CL250	20	25	20/25	M=Manual Multi A=Performa timeclock	250	1420	40	62
CL300	35	35	25/25	M=Manual in/out A=Performa timeclock	300	1360	60	84
CL330	48	48	25/25	M=Manual in/out A=Performa timeclock	330	1800	75	154
CL400	55	50	25/25	M=Manual in/out A=Performa 740/440i	400	1830	100	185
CL500	100	80	32/32	M=Manual in/out A=180/440i	500	1830	170	322

A minimum 200 kPa (30 psi) operating pressure is required for automatic units. Larger units are available. Backwash thread 15mm

For more information contact...

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