

# ***WATERPURE - PF***

## ***Complete Pressure Filter Systems***

The Aquatec-Maxcon range of pressure filter systems offer an efficient and economical solution for media filtration of raw or clarified water.

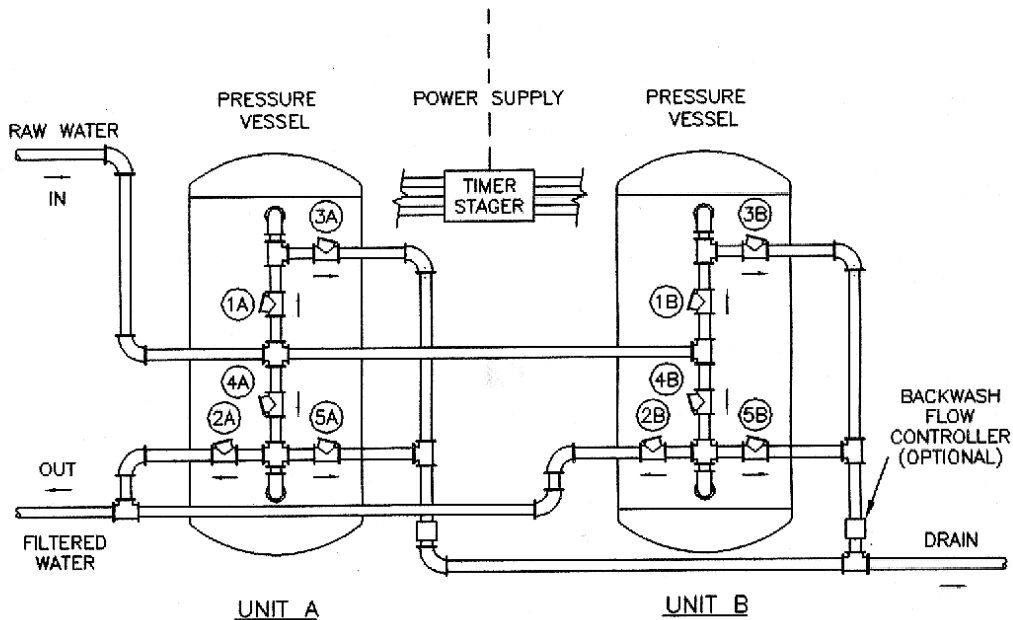
Our pressure filters are tailor made to suit your special requirements. Choose from a wide selection of process options such as media type, pressure vessel arrangement, chemical dosing system, backwash control and additional air scouring.

### **Design Advantages**

- Pre-assembled, pre-wired and factory tested prior to dispatch
- Optional skid mounting for compact arrangement and transport

- Automatic backwash can be initiated by either high headloss, high filtrate turbidity, time-of-day, or volume of water
- Control valves operate from inlet pipeline hydraulic pressure, eliminating the need for an additional compressed air or hydraulic oil supply
- Vessels manufactured to AS1210 (unfired pressure vessel code). Vessel registration is available on request.

***WaterPure - PF provides compact high rate pressure filtration***



STAGER POSITIONS		
POSITION	FUNCTION	VALVES OPEN
1	BACKWASH	3 & 4
2	RINSE	5 & 1
0	SERVICE	1 & 2

**WATERPURE - PF  
 DUPLEX VESSEL ARRANGEMENT**

## Design Features

- Flow capacities for a particular vessel size varies with the type of media selection and raw water quality.

Vessel Diameter (mm)	600 minimum → 3300 maximum	
Capacity per Vessel, (L/s)	1	35
Vessel Length, (mm)	1800	3100
Construction	AS 1210	AS 1210

- Pressure vessels can be arranged in simplex, duplex (as shown above), or multiple vessel design
- Filter media selection may be:
  - Standard mono or dual media sand/anthracite (general - turbidity & pathogen removal)
  - Manganese Greensand (additional iron & manganese removal)
  - Birm (additional iron removal)
  - Granular activated carbon, GAC (organics, taste and colour)
- Plant turndown and standby capacity requirements can be easily met with our simplex or multiple vessel design
- Chemical dosing systems are available to provide injection of coagulant, oxidant, alkali or disinfectant

## Operation

- Raw water is chemically dosed (if applicable) and reticulated to the filter(s) inlet connection
- Water flows downward under pressure through the filter media bed and collected at the base of the vessel by strainer/collector pumps
- The strainers provide uniform collection of filtered water while preventing ingress of filter media into the discharge pipework

- When initiated by one of several control options, the automated backwashing procedure first alters control valve settings to reverse the direction of flow. The resulting upflow fluidisation scours contaminants from the media

- Upflow fluidisation (with optional air scour) continues for programmed duration

- Backwashing is followed by a short rinse period under normal flow to remove residual contaminants

- Waste backwash water is reticulated to waste or recovery facilities

- Filtered water for potable use is disinfected and reticulated to storage for distribution

***WaterPure - PF is ideal for direct filtration, filtration of clarified water, or tertiary filtration of sewage effluents***

## Optional Accessories

- Skid mounting
- Air scour
- Chemical dosing
- Source water dumping station
- Backwash water recovery plant

## Applications

- Small potable water treatment
- Bore water treatment
- Direct filtration applications
- Tertiary filtration of sewage effluent
- Small industrial water treatment
- Swimming pool filtration

The manufacturer reserves the right to alter performance, specification or design without notice.

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