

# BIRM

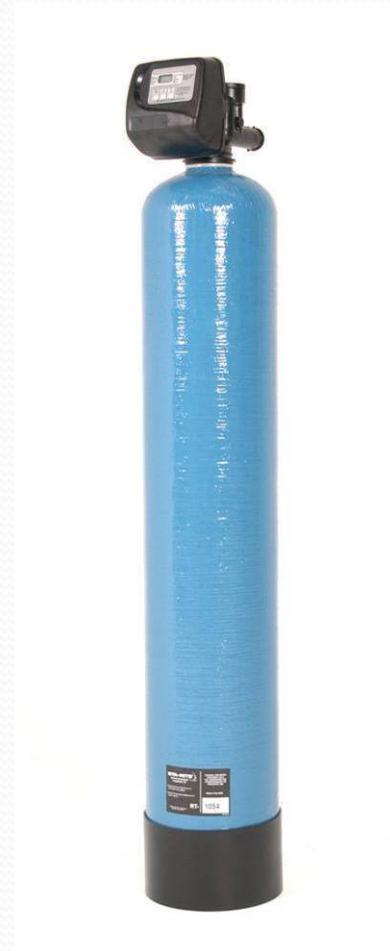
For the reduction of rusty/brown/black staining and metallic taste resulting from Iron and/or Manganese in water

# Birm Water Treatment

- “BIRM” media is usually used where the levels of Iron and Manganese exceed the guideline values and there is no Hydrogen Sulphide or Arsenic present.
- The “Microniser” installed in the feed water line before the media tank acts like a venturi to suck air into the passing water to speed the oxidation of Iron and Manganese, which is attracted to and caught in the rough surfaces of the media.
- The media tank with the control valve is placed after the pressure pump usually after any water lines for major irrigation or animal troughs are taken off, so only the water to the home or for water use off the house – (car washing and irrigation close to the house), is treated.
- This layout prevents staining of the cladding of the home and surrounding paths from sprinklers.
- The media is automatically backwashed and rinsed to remove the accumulated Iron and Manganese particulate – typically at 2am or any time most suitable for the household.
- The 5 micron pleated washable sediment filter cartridge in the “Big Blue” housing installed before the point of entry to the house, ensures very clean, clear water for use.
- (Smallest visible size is 40 micron)

# Advantages of Birm

- Under the proper conditions, no chemicals to purchase for maintenance.
- Chemical Regeneration not required.
- Iron Removal efficiency is extremely high.
- Negligible labor cost: only periodic backwashing required.
- Durable material with a long life and wide temperature range.



# Air Injectors

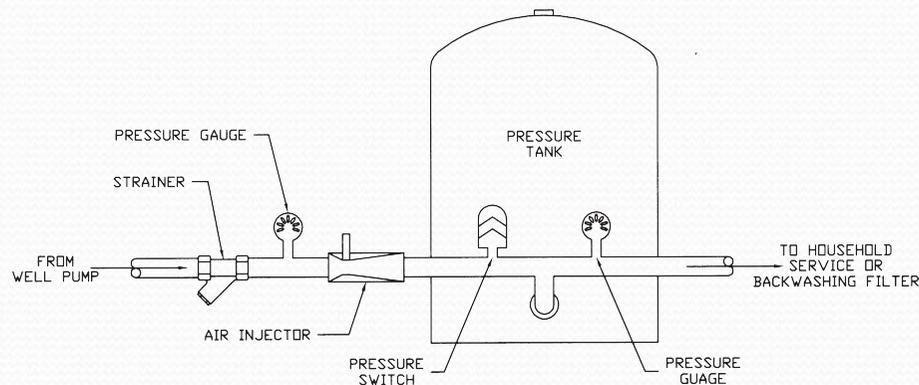
## APPLICATIONS

**Injectors are easily installed in-line before filter systems when the percentage of dissolved oxygen content may be too low for effective oxidation. They draw air by a venturi effect and inject it into the water system.**

**Install a strainer ahead of the unit to prevent particles from lodging in the nozzle.**

### NOTES ON INSTALLATION:

- 1. Install a strainer ahead of the unit to prevent particles from lodging in the nozzle.**
- 2. The microniser (air injector) operates best with approximately 2 metres distance between it and the control valve on top of the Birm unit. A loop in the alkathene pipe easily achieves this.**



# Large Surface Type Filtration

## “ Big Blue” Housings and Filters



- Complete with powder coated mounting bracket, bolts, plus opening spanner.
- Available in 10” or 20” with 1” ports
- Pressure release button to ease opening of the housing during maintenance. Also to bleed air out on start-up.
- Pleated Polyester Filter  
Reusable/Washable  
(for coarse dirt loadings).
- 20 micron, 5 micron & 1 micron.
- Highly efficient pleated filter cartridges for low pressure drop, high flow capability, increased dirt removal, long filter runs – which all adds up to the lowest cost per Litre filtered
- 20” Pleated filter = 32 sq ft of surface area.  
10” Pleated filter = 16 sq ft of surface area.

# Clients Comments

- 'Hi Sue, Just to say Thank You! Our water is now crystal clear and tastes of absolutely nothing, which is how water should taste! We have told a number of people about your excellent service, and will continue to do so. If you wish to use us for a reference you are more than welcome indeed. Regards'  
**K&Z Kaiapoi**
- 'Hello Sue, All the equipment arrived and I managed to install it myself with no problems. The water is 'perfect'. My 'white' singlet (that was partially/mostly brown) has returned to white, the shower is white again (after a lot of scrubbing to get the rust colour off) and has not browned at all since, and the metallic taste/smell has gone completely. Even the bath is back in use. The water even 'feels' nicer to the touch. I'm now definitely convinced that a bore with a good filter system is a much better option. Thanks for your help and service. Regards'  
**TW Ohakune**
- 'Our water is so much better, no brown stains in the bottom of the jug any more and its nice to see the washing nice and white with no orange colour in it.'  
**J&J Christchurch**
- Your service was excellent, prompt, helpful and efficient. Thank you.  
**R&J D Rangiora**
- 'I would like to sincerely thank you personally, and your Company, for the thorough and efficient service I experienced in getting our water quality problems solved. We had been persevering with another company and were absolutely appalled with the lack of communication and their seemingly inability to solve our water problems when we decided to try 'Sue Kelly Water Systems'. It is great to realise that there are at least still some businesses that supply the good service that we expect as customers. Thank You'.  
**BY Christchurch**



# Sue Kelly

Water Systems Ltd

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