



LONGVELD IRON OUT

Longveld Iron Out is the ultimate solution for iron removal from water in New Zealand.

Our sustainable iron filters are based on proven iron filtration technology developed in Western Australia, one of the toughest testing grounds in the world for iron removal. Longveld Iron Out filters are manufactured in New Zealand and are specifically designed to cope with the very high concentrations of iron in our water in problem areas around New Zealand.

Longveld Iron Out is designed for the non-chemical removal of high levels of dissolved iron (up to 50 mg/l or 50 ppm), suspended particles and gases such as hydrogen sulphide. Iron Out will continuously and automatically process water 24 hours/day, 365 days/year. It will backwash automatically, with no need for the frequent maintenance required with other filtration systems such as:

- chemical dosing
- continual replacement and washing of filters
- scalping, cleaning and replenishing of filter media

The two most important advantages of Longveld Iron Out are the filtering capacity of the floating filtering media and the hydro-automatic backwash function. Both improve the overall working characteristics of the system and provide a significant reduction in capital, operational and maintenance costs.

Longveld Iron Out uses a floating polymer filter media which is a superior alternative to heavy media filters like sand:

- chemically stable
- lasts for years with occasional top-up
- clean and dust free

Automatic backwashing is triggered when the level of resistance through the floating filter media is exceeded as the iron and other contaminants are being removed. So the system self-adjusts to changing iron loadings in the feed water to give stable repetitive results.

The combination of a downward gravity flow of water and upward movement of floating media produces a vigorous agitation/scrubbing effect resulting in fast regeneration of the filter media.

We supply five Longveld Iron Out filtration models delivering from 12,000 to 200,000 litres of filtered water per day.



LONGVELD IRON OUT HAS THE FOLLOWING ADVANTAGES:

- Low maintenance
- Combined continuous removal of iron, suspended solids and hydrogen sulphide
- Solves turbidity problems caused by iron
- System self-adapts to changing iron loadings in your water
- No compressed air. All processes are controlled and driven by the filter and booster pump
- No elements to be replaced on a regular basis
- Doesn't require constant filter replacement
- Minimal water is required for backwash
- No backwash pump - backwash function is based on gravity force and water level differences
- The filter backwash is self-regulating
- No chemical reagents are used in the process

Contact us for more information, or for a dealer near you

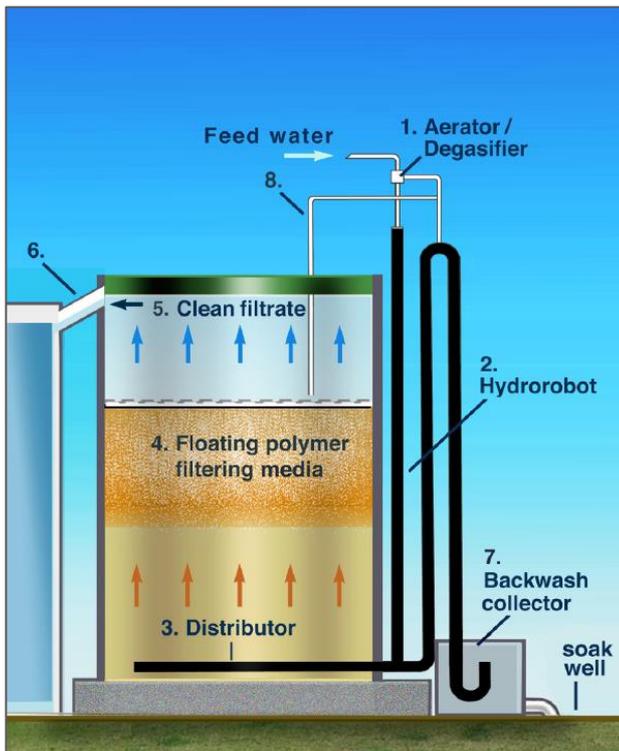
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Or visit www.longveld.com



**LONGVELD
IRON OUT®**

PROCESS DESCRIPTION:



Feed water is pumped from the bore through an aerator (1) where hydrogen sulphide and other gases are removed. Aeration causes iron to precipitate out as an insoluble compound. Feed water flows down the hydro-robot (2), through the distributor (3) and into the hydro-automatic filter with the floating polymer filtering media (4) where the suspended iron is trapped throughout the depth of the filtering bed.

After filtration, treated water gravity-flows via the discharge pipe (6) into storage tanks. As iron collects on the filter medium, the water level in the hydro-robot (2) rises, creating a vacuum, causing the filter to switch to backwash mode.

Purified water (5) from above the filter media drops and agitates the filtering bed (4), washing out the accumulated impurities and discharges them through the backwash collector box (7) to waste.

When the water level of the clean filtrate (5) drops below the siphon control pipe (8), the hydro-robot discontinues the backwash.

SPECIFICATIONS:

For 12,000 - 48,000 litres/day:

- Main tank height: 2.2m
- Main tank diameter: 1.1m
- Height to top of pipework: 3.1m, plus stand

For 48,000 - 200,000 litres/day:

- Main tank height: 2.5m
- Main tank diameter: 1.5m
- Height to top of pipework: 3.5m, plus stand

"This year our milk production has increased by 13% and we believe that our Longveld Iron Out filter has contributed significantly to this. The quality of the water is so much better and must be more palatable for the cows."

Carl Steiner

Dairy Farmer



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