

AccuGAF® for

Potable Water Applications



Patented Sentinel® Sealing Ring

Giardia Lamblia Filtration

AccuGAF® for Giardia Removal

* A Major Advance in Bag Filter Technology

Hayward Industrial Products has developed the AGF-51 Filter Bag with a unique layering technology that provides unparalleled performance in areas that have previously not been possible with bag filters. Employing several novel techniques, the AGF-51 filter bag offers increased efficiency and extended performance. One area of particular interest is domestic and surface water filtration which has traditionally been dominated by cartridge filtration. The new technology provides:

- ➔ High-efficiency media combined with a high capacity pre-filter for effective removal of **Giardia Lamblia** at a 99.999% efficiency rate.
- ➔ Graded density structure for long life even in heavy dirt loading situations.
- ➔ All virgin polypropylene construction for chemical purity
- ➔ Uni-Weld™ construction with Sentinel® ring for bypass-free performance.

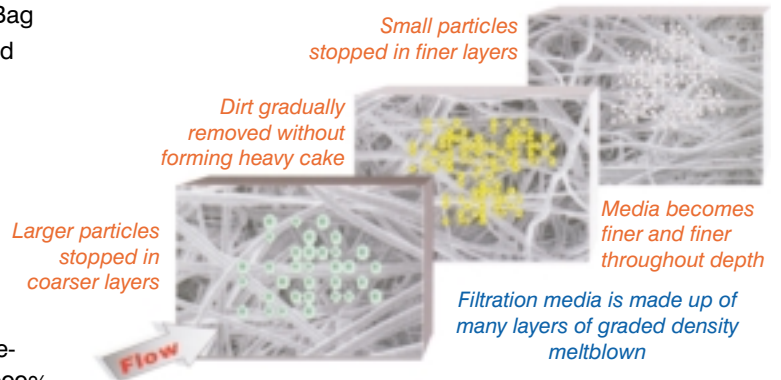
Giardia & Cryptosporidium Filtration

Contamination of drinking water from the parasites **Giardia Lamblia** and **Cryptosporidium** poses a significant health hazard to some domestic water supplies. Regulatory authorities have responded to the situation and have introduced more stringent water purity requirements.

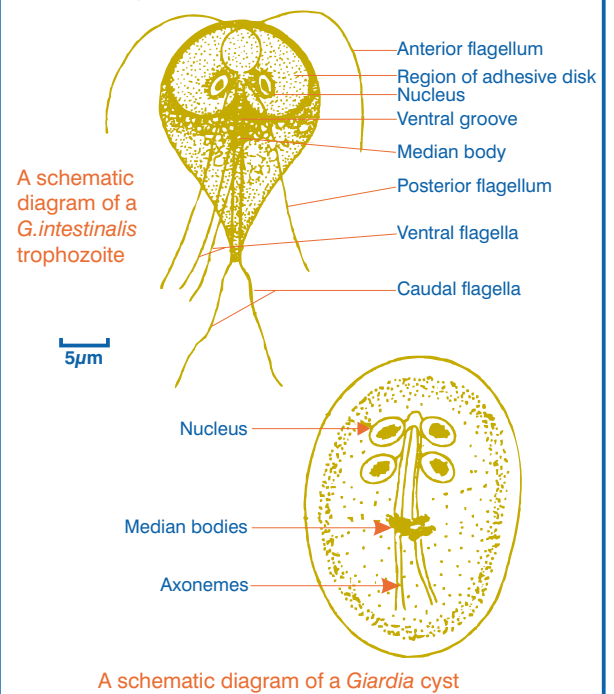
In response to these regulations, Hayward Industrial Products has developed the AGF-51 Filter Bag which provides a log 5.3 reduction efficiency. Independent laboratory tests have shown that the AGF-51 Filter Bag is 99.999% efficient for the removal of **Giardia**.

Independent laboratory tests determine the ability of a filter to remove a selected particle size challenge. The challenge study was performed using a standard filter bag and vessel in a re-circulating, closed system using chlorine-neutralised, 1µm filtered municipal water as the carrier medium. The challenge reservoir was prepared by adding 10⁶ of both **Giardia Lamblia** and **Cryptosporidium** into approximately five gallons of 1x phosphate buffered saline (PBS). The challenge reservoir was agitated prior to the initiation of the challenge injection, as well as several times during the filtration cycle to ensure adequate mixing of the organism dose.

The results of the study were analysed via microscopic examination and enumeration of immunofluorescent antibody (IFA) stained slides. Additional information regarding the study is available upon request.



The organism



Efficiency Results

| | Giardia Lamblia | Cryptosporidium |
|-----------------------------|-----------------------|-----------------------|
| Influent | 2.1 x 10 ⁵ | 2.1 x 10 ⁵ |
| Effluent | 1 | 641 |
| Log ₁₀ Reduction | 5.3 | 2.5 |
| Efficiency (%) | 99.999% | 99.68 |

New Zealand Distributor . . .



4a Bentinck Street, PO Box 15583, New Lynn, Auckland, NZ. Ph: 64 9 826 3486 • 0800 423 477 • Fax 64 9 826 3485

Email: sales@particlesolutionz.co.nz Website: www.particlesolutionz.co.nz