



I.M.S.[®] 200 and I.M.S 1000 Media Retainers

ENGINEERED FOR FILTRATION EFFICIENCY

Leopold[®] I.M.S 200 and I.M.S 1000 media retainers are designed to eliminate the need for gravel media support and ensure effective media cleaning in water and wastewater gravity media filtration systems.

Providing a more effective option than gravel, Leopold's next-generation media retainers pair with Leopold underdrains to provide superior performance and worry-free operation. I.M.S media retainers increase flexibility in filtration media design by replacing up to 14 in (35 cm) of support gravel, allowing additional media depth, increased filter freeboard, or a reduced vertical footprint.

Water and energy savings

I.M.S media retainers are engineered to ensure a highly uniform distribution of backwash air and water, and the elimination of dead zones, for deep cleaning and longer filter runs. Ultimately, the reduction in backwash frequency delivers operational savings with less water and energy use.



Type S underdrains with I.M.S 1000 media retainer (left)
and I.M.S 200 media retainer (right)

I.M.S 200 and I.M.S 1000 Media Retainers

Choose the right media retainer for your application.
Leopold engineering excellence comes standard with both.

Along with exceptional efficiency, I.M.S media retainers can provide lower capital expenditures, reduced operating costs, and long-term performance.

I.M.S 200 features

Suitable for drinking water plants, water reuse applications, biologically active filters, and desalination pretreatment

Engineered, injection-molded slots support media down to 400 microns to prevent sand and media penetration and improve water quality control

I.M.S 1000 features

Suitable for wastewater plants, biologically active filters, and denitrification filtration systems

Engineered, injection-molded slots support media down to 1700 microns

Less prone to fouling than a porous plate since biological growth will not bridge the gap

Features of both I.M.S 200 and I.M.S 1000

Replaces 11 to 14 in (28 to 35 cm) of gravel media support to:

- Increase freeboard for greater media expansion and extended concurrent air/water backwash, or
- Allow additional media depth, or
- Reduce the vertical footprint for construction cost savings

Improves air and water distribution for more effective backwash and cleaner media

Creates a narrow water path to make the system easier to clean during standard backwash operations

Comes factory-installed on Leopold underdrains; reduces installation time

Can be removed, inspected, and reinstalled in the field

Withstands pressures up to 15 psi (1 bar) due to high-strength thermoplastic construction

Eliminates gravel migration or gravel disturbances caused by unforeseen events



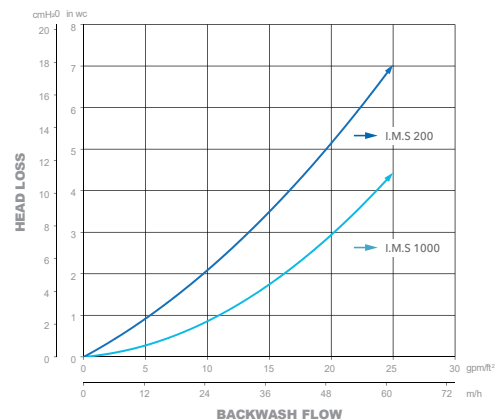
I.M.S 200 detail



I.M.S 1000 detail



Type XA underdrain with I.M.S 200 media retainer



I.M.S media retainer head loss during backwash is similar to head loss with the gravel it replaces