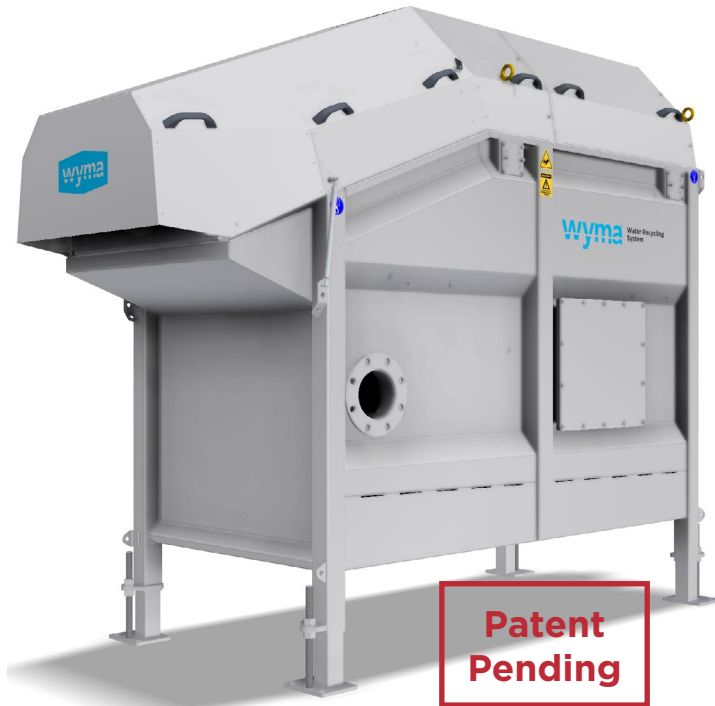


Micron Filter

Ultra-Fine First Stage Water Treatment Solution For Dirty Water And Slurries From A Variety Of Sources

Slurries found in site pits and sumps, or from waste water from washing systems



Patent Pending



General information

The Wyma Micron Filter is an ultra-fine, high capacity, self-cleaning, compact and cost-effective first stage water treatment solution. It filters to levels much finer than traditional first stage filters removing a significant amount of organic matter and debris from water in the first pass such that the water can be easily reused.

This unique filtration system, invented by Wyma, and currently in patent assessment phase, is exclusive to Wyma.

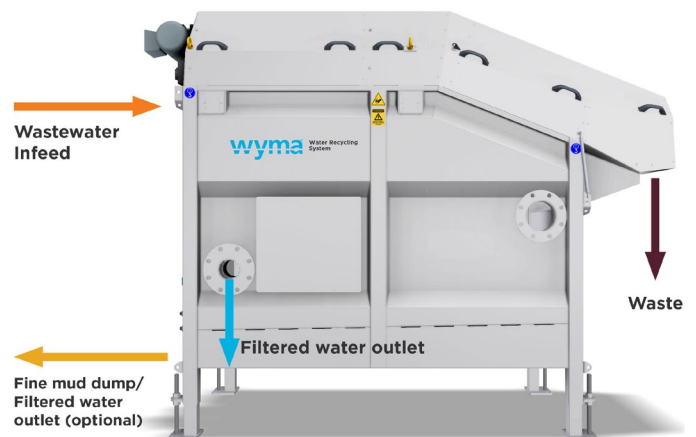
Filtration levels range from 0.075 to 2mm. Capacities at 150-micron (0.15 mm) filtration level range from 4,700 to 28,530 gal per hour (5 to 30 litres per second, 18 to 108 cubic meters per hour). *Capacity dependent on solids loading.

Total Suspended Solids (TSS) reductions of greater than 60%* have been recorded on wash line and processing line wastewater, as well as reductions of BOD and COD greater than 50%*. *Situation dependent.

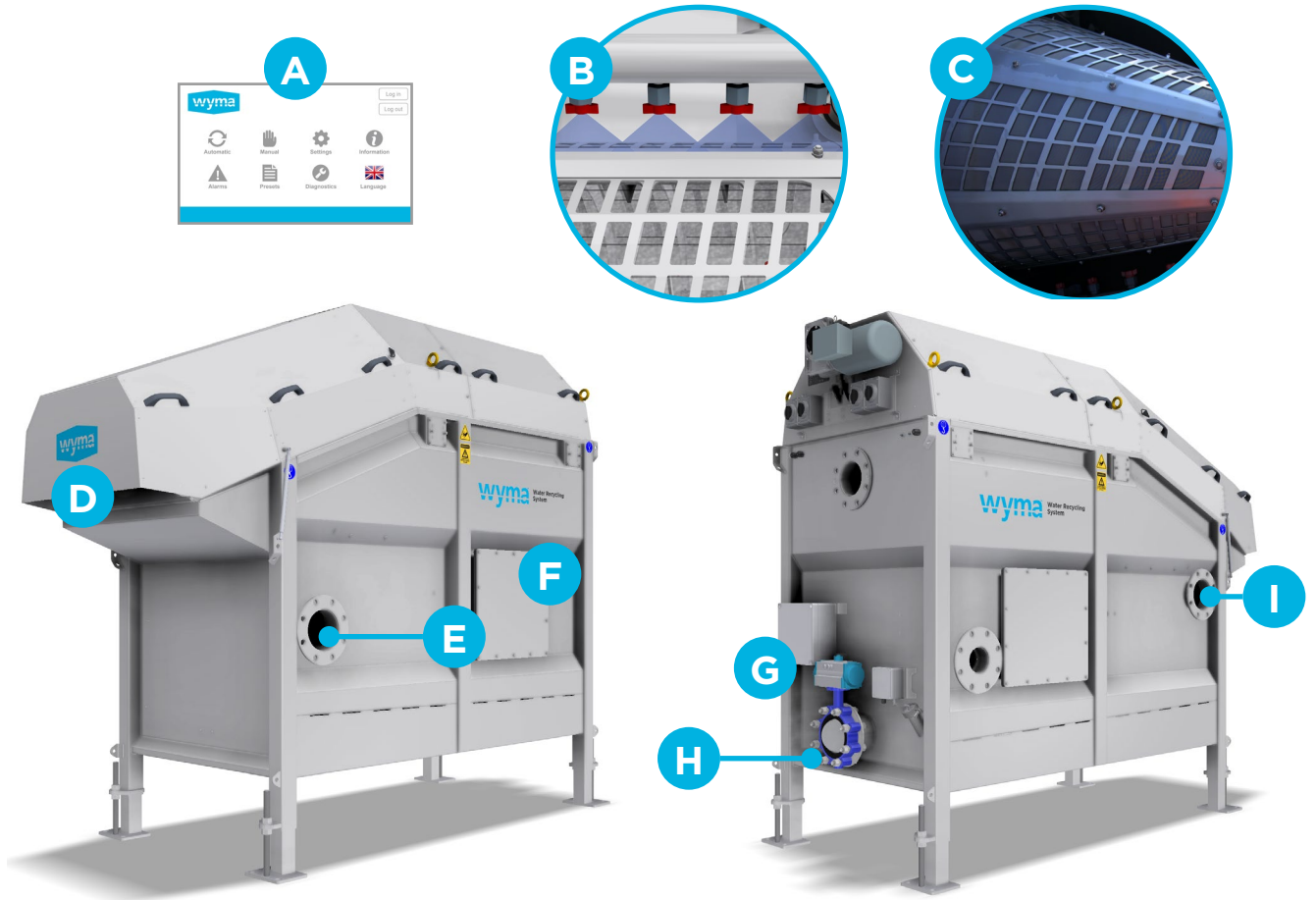
Dirty water or slurries are pumped directly into the filter from site pits and sumps, or the base of washing systems such as a [Wet Hopper](#), [Barrel Washer](#), [Destoner](#), [Vege-Polisher™](#), or [Peeler](#). The water passes through the filter and is collected in a purpose-built catchment tank. Filtered organics and debris are then extracted for disposal.

Submersible or external pumps are provided to pump the filtered water back to the process line for recycling.

Other features include, auto emptying, auto water and dirt removal, automated self-cleaning and a system to prevent solids build up in the tank. Optional systems include separate hot water rinsing of fats or precipitating organic compounds that can blind the screens.



Features & benefits



A Control

Standalone or integrated with line panel. Easy to operate via supplied control panel. Fully automated operation with pneumatic drain valves, and built-in automation including self-cleaning, auto draining, periodic water and sludge discharge, and end of day wash-down routines.

B Automated cleaning spray bar

Spray pipe and jets to periodically spray exterior of the filter, using the filtered water, to keep filter clean.

C Filter panels

Interchangeable filter panels for easy maintenance or changing of filtration levels.

D Waste outlet

Filtered solids extracted in a damp state and can be disposed into a waste bin or removed by a conveyor.

E Pump and outlets(s)

Multiple pump options available for recycling, cleaning filter, cascading water to earlier stages in line.

F Tank

Recycled water catchment tank. Integral part of the filter.

G Pressure transducer

To detect water level for auto filling and top-up, to protect pumps from low water, for automation of periodic water discharge and auto emptying.

H Pneumatic drain valve

Opens valve to flush sediment from the tank during running and to empty tank when required.

I Overflow

Allows excess water to exit the tank. Can be connected to the site waste pipe or into the floor drain.

Self-cleaning

The Patent-pending design allows for high filtration rates with intrinsic self-cleaning, requiring no additional fresh water or mechanical cleaning mechanism.

Compact strong construction

Durable and robust construction to withstand forces and vibration from heavy rotating machinery.

Access hatches

Easy access to pumps for maintenance.

Safety

All mechanical pinch points covered and not accessible. No additional safety guarding or fencing required.