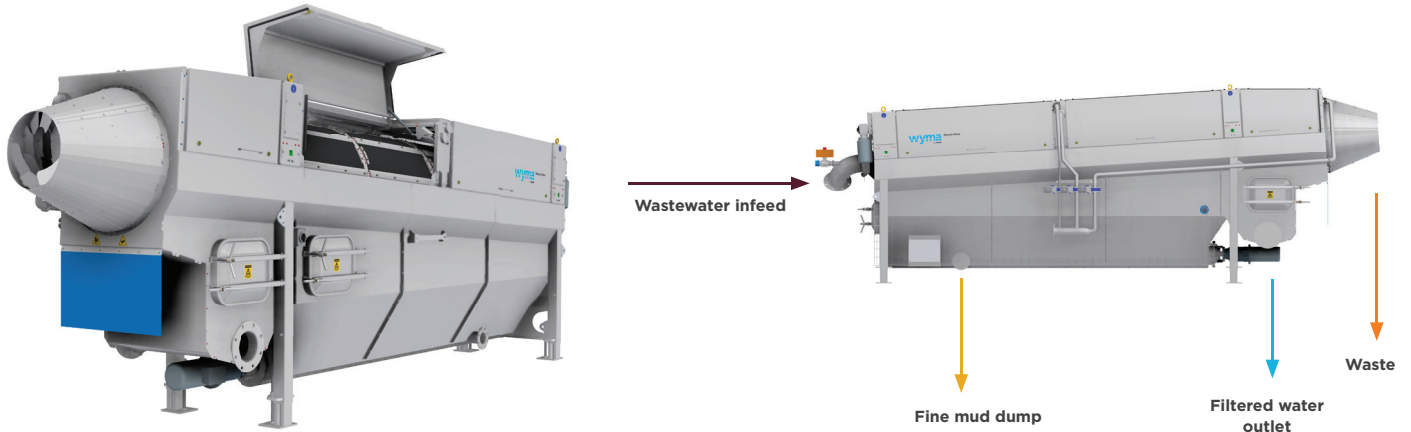


Stage Two Water Treatment

Micron Filter XL

Ultra-fine, self-cleaning, large capacity, single pass, filtration system to remove organic and other debris from a water stream for water reuse.

Potatoes • Carrots • Parsnips • Other Root Vegetables • Citrus • Pip Fruit • Food Processing • Industrial and more



The **Wyma Micron Filter XL** is an ultra-fine, high capacity, self-cleaning, compact and cost-effective second 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 a single pass so that the water can be easily reused.

This unique filtration system has been developed by and is exclusive to Wyma Solutions.

Filtration levels range from 0.075 to 0.25mm. Capacities at 0.15 mm (100 US mesh) filtration range from 5 to 50 litres per second (18 to 180 cubic meters per hour or 4,700 to 47,000 gal per hour). Actual 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.)

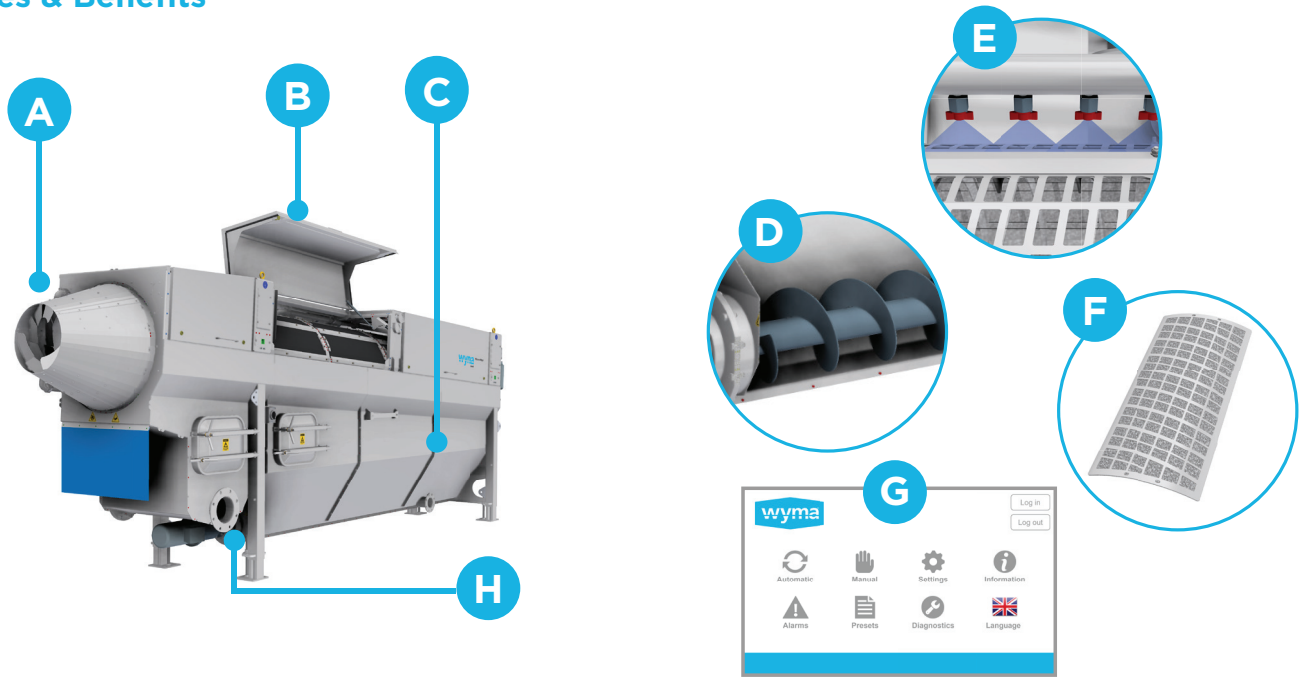
Dirty water or slurries are pumped directly into the filter from the base of washing systems such as a Wet Hopper, Barrel Washer, Destoner, Vege-Polisher™, Peeler, or a collection pit/sump. Water and fine particles pass through the filter mesh into the tank below, whilst larger organics and debris are extracted for disposal. An auger in the tank manages the removal of fine sediments.

External pumps are provided to pump the filtered water back to the process or wash line for reuse.

Other features include auto emptying, automated self-cleaning and a system to prevent solids build up in the tank.

Optional systems include hot water rinsing of fats or precipitating organic compounds that block the screens.

Features & Benefits



- A Waste outlet** Filtered solids extracted in a damp state and can be disposed into a waste bin or removed by a conveyor/auger.
- B Quick access guards** Large hinged doors provide quick access for inspections and maintenance. Guards have keyed latches and gas-strut assistance.
- C Tank** Recycled water catchment tank. Tapered base to accumulate sediment for discharge to a Mud Tower or to waste.
- D Auger base** Auger in bottom of catchment tank moves sediment toward the outlet, increasing solids loading into a Mud Tower or reducing water loss if discharging to waste.
- E Spray bar** Spray pipe and jets to periodically spray the filter panels using filtered water (no fresh water required). This keeps the mesh clean, maintaining filtration performance.
- F Filter panels** Quick to change filter mesh panels provide flexibility in filtering size, and easy maintenance if replacement is required.
- G Control** Standalone control panel or integrated with line panel. Fully automated operation including: fill and start-up, self-cleaning, auto draining, periodic water and sludge discharge, and end of day wash down routines.
- H Filtered water outlet** Filtered water can be either gravity drained or pumped back to where it is needed.
- Remote greasing** Remote grease ports for drive system bearings allow for quick regreasing when required.
- Access hatches** Easy access to interior of tank for maintenance and cleaning.
- Pressure transducer** To detect water level for auto filling and top-up, to protect pumps from low water level, for automation of periodic water discharge and auto emptying.
- Self-cleaning** The Patent-pending design allows for high filtration rates with intrinsic self-cleaning, requiring no additional fresh water or mechanical cleaning system.
- Compact strong construction** Durable and robust construction to withstand the harsh environment in which the filter operates.
- Safety** Enclosed design with keyed access doors. Lockable isolators on all motors.