



GFS[®] ZLD+ Cross Flow Membrane Systems

AQUA-PORE[®] MICROFILTRATION MEMBRANES

Water soluble coolants, precipitated metal hydroxides, tubing and vibratory solutions and general oily waste water can all be treated using cross flow membranes, typically using both ultra and micro filtration. And many aqueous based solvents used for degreasing manufactured parts can be continuously recycled as well.

AQUASGROUP[®] GFS AQUA-PORE Membrane Systems represent the future as an effective and reliable solution for treating water in many manufacturing applications including metal finishing, machine tool coolant, aqueous solvents, mass finishing and general oily waste water.

CHALLENGES:

Regarding regulatory compliance, ever more stringent discharge limits of both metals and Oil and Grease have surpassed the capability of standard chemical/physical precipitation systems. The cost of disposal of surfactant-based cleaners and spent coolants is rising.

Violations

Regulatory discharge limit exceedances threaten manufacturers' ability to produce.

Conventional Methods are no longer technically viable

Chemical/Physical Precipitation Systems used since the '60's frequently fail to meet ever tightening regulatory discharge limits. Furthermore, requirements for coagulants and flocculants prevent recycling when implementing membrane technology.

The finiteness of a reliable water supply

Increasing water scarcity amid mounting demand makes a clear case that the future of manufacturing, regarding water, is recycling.

Escalating Waste Hauling Costs

Haul-away business models often leave you in limbo. The industry is fractured without end-to-end solutions. You're often going it alone while regulations evolve at all levels of government.

SOLUTION:

Green Factory Series[®] – Cross Flow AQUA-PORE Membrane Systems

AQUASGROUP's GFS[®] AQUA-PORE Microfiltration Membranes replace conventional clarifiers and provide a durable and reliable barrier for the separation of suspended solids, typically used for metal finishing waste water treatment from electroplating and acid-based metal treatment processes.

AQUA-PORE is for both cellular manufacturing and oily waste water applications. These include vibratory deburring, investment, tubing, water machine tool coolant treatment, and the recycling of aqueous degreasing fluids. We also integrate specialized vortex flow filters (Waste Wizard) and hollow fiber and spiral wound membranes (Koch).

All systems are designed by AQUASGROUP's chemical engineering professionals and are supported 24/7 by our experienced field service technicians.



BENEFITS:

A compliant solution to minimize waste, a smart solution for process control and a socially responsible solution for recycling waste water.

Support Recycling

By eliminating the use of polymeric coagulants and flocculants, AQUA-PORE Membrane Systems provide the opportunity for recycling metal finishing waste water.

Enhanced Process Control

AQUA-PORE maintains candidate process fluid quality through continuous membrane filtration, achieving process equilibrium and enhanced process control.

Provides Waste Minimization

AQUA-PORE supports corporate sustainability goals providing opportunities for significant waste minimization.

Supports Current and Future Regulatory Discharge Compliance

AQUA-PORE ensures the removal of all suspended solids in waste water treatment applications. Unlike conventional gravity settling systems, our Membrane Systems provide durable, reliable and effective barrier filtration. This will help you to remain compliant with your current and future regulatory discharge limits.

How can we be of assistance?

Please contact us at sales@aquas-group.com

AQUAS-GROUP.COM
(401) 487-3245