

Flomar HF (High-performance flotation for highly contaminated wastewater) Physico-chemical treatment

The Flomar HF process is particularly suitable for treating very highly contaminated industrial wastewaters and as an advanced treatment stage based on biological methods, while offering high availability and maximum ease of operation.



- Compact and space-saving structure that maintains highly effective cleaning efficiency
- Large, free surface area enables high concentrations of solids to be processed in flow
- Highly effective, non-blocking dissolved air system
- Maximum cleaning efficiency due to variably adjustable precipitation and flocculation process
- Energy-optimised saturation system for maximum cost-effectiveness
- Low chemical consumption due to optimised Flomar precipitation process
- Maximum treatment reliability due to tailor-made Envifloc® treatment chemicals
- Easy to use due to EnviroChemie Asic® touch panel visualisation and PLC
- Remote maintenance and teleservice available
- "Made in Germany / Swiss Made" components

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Flomar HF - mature technology

EnviroChemie has been using its tailor-made systems to produce high-quality solutions for the physico-chemical treatment of wastewater from different industrial sectors for more than 30 years.

Flomar HF high-performance flotation plants remove inorganic and organic components and thereby reduce wastewater polluting loads in a highly effective, economical way.

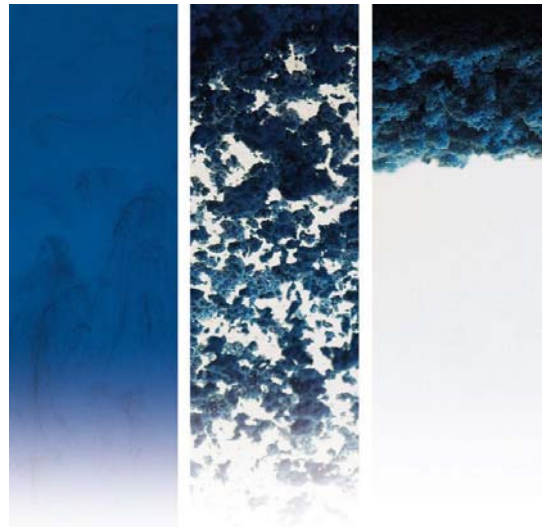
The largely standardised plant technology ensures that the customer benefits both from consistently outstanding quality and rapid project implementation.

The Flomar HF process

Flomar HF is a continuously operating wastewater treatment process for flotation treatment of industrial wastewaters with a connected precipitation / flocculation process.

Envifloc® treatment chemicals are metered in the tube flocculator specially designed by EnviroChemie for optimum set-up of the wastewater treatment process, which minimises the consumption of chemicals.

The cluster of contaminants produced by precipitation / flocculation is directly separated from the liquid phase by means of the Flomar HF dissolved air flotation system. Further dewatering to minimise disposal volumes may occur in a subsequent sludge treatment plant. Wastewaters treated in this way can then be discharged indirectly or transferred to a further treatment stage.



Mature and specially designed Flomar software controls the plant via an ASIC® controller based on a freely programmable system (PLC). The control and plant concept includes various options which allow the basic design to be adapted to the specific conditions of the customer.

A user-friendly ASIC® touch panel makes it easy to operate, control and monitor the entire plant. The plant can be monitored from an off-site location via a telephone connection (teleservice) as an option.

Standardised throughputs

Flomar - Type HF	Throughput
Flomar – Type HF 20	10 - 20 m ³ /h
Flomar – Type HF 30	21 - 30 m ³ /h
Flomar – Type HF 40	31 - 40 m ³ /h
Flomar – Type HF 60	41 - 60 m ³ /h
Flomar – Type HF 80	61 - 80 m ³ /h

Special plants capable of throughputs up to 300 m³/h are available on request.

Hall construction and general building services to be provided by the customer

Subject to technical changes without notice