

AQUACHEM Smart Filter Press (SFP/AF series)

The smart generation of filter presses

Small in size, big in performance

The AQUACHEM Smart Filter Press (SFP) delivers up to ten times the performance of conventional filter presses in its size class – a reliable filter press in a compact design.

The Smart Filter Press sets new standards in filtration technology. With numerous innovative features, **fully autonomous operation**, and an intelligent self-monitoring system, it is not only exceptionally safe but also the most advanced filter press in its class.



The AQUACHEM Smart Filter Press (AF series)

Your advantages at a glance

- Fully automated and safe operation – around the clock
- High filtration performance with minimal space requirements
- Optimised operating costs through efficient process control

Automation at the highest level

- Fully automated cycle across all process phases – for continuous autonomous operation
- Machine availability of up to 98%
- Integrated error detection ensures maximum process safety
- Optional: Remote monitoring and comprehensive performance analysis

Clean. Safe. Worry-free.

- Closed filtration with sealed plates and a lockable safety hood
 - No leakage
 - No contact with filter cake or hazardous vapors
 - Maximum safety: No intervention near moving components
- Self-test at the beginning of each cycle – for consistent performance
- Leakage test before each filtration cycle

Low maintenance and environmentally friendly

- Optimised filtration cycle minimises use of additives and wear/replacement parts
- Extended filter cloth lifespan through effective cleaning system
- Automated error analysis supports preventive maintenance
- Modern diagnostic tools and remote support simplify troubleshooting and reduce downtime



AQUACHEM Smart Filter Press (SFP)

Filtration solutions by AQUACHEM

Experience you can rely on

AQUACHEM combines decades of experience with cutting-edge technology. The result: tailored filtration solutions and a service approach that is reliable, personal, and fast.

- Precise process analysis and practical filtration tests
- Customised design based on test results and practical experience
- Optimisation of the filtration cycle for maximum efficiency
- Maximisation of production output
- Precise selection and dimensioning of auxiliary units
- Service and support throughout the entire lifecycle of your system
- ATEX applications possible

Typical applications of the Smart Filter Press

Industrial applications

- Chemicals
- Metal recovery
- Anodising
- Electrochemical machining
- Oxide/hydroxide sludge

Water and wastewater treatment

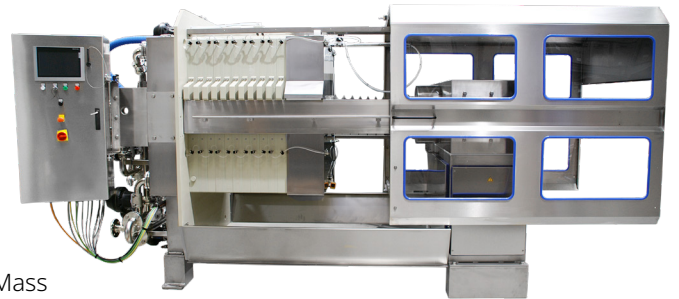
- Biogas digestate dewatering
- Concrete wash water
- Industrial wastewater
- Acid treatment
- Wash water treatment

Food and beverage

- Food manufacturing
- Beverage industry
- Vegetable oil filtration
- Wine production

Environment and safety

- Waste disposal
- Groundwater remediation
- Fly ash washing
- Battery raw materials/Black Mass



Suitable for corrosive environments or food processing

Standard sizes of the AQUACHEM Smart Filter Press

Filter size	Filtration area (m ²)	Plate size (mm)	Number of chambers	Filter volume (l)
AF470 mini	1.28	470 x 470	4	16
AF470	3.00	470 x 470	10	40
AF630	5.90	630 x 630	10	86
AF800	9.90	800 x 800	10	154
AF1000	14.90	1000 x 1000	10	238
AF1200	22.30 - 44,60	1200 x 1200	10 - 20	365 - 730

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