

Metso

Advanced recovery, compact design

AC filter



Application

Designed to remove organics in battery metal solvent extraction, electrowinning or crystallization processes.

Metso Activated Carbon (AC) filter is designed to remove organics in battery metals. With its cost effective and modular design, the AC filter increases recovery and recycling of valuable process chemicals.

Proved by design

The AC filter is an ideal choice when solution is already free from suspended solids and when a very clean solution filtrate is needed. It is also used for raffinates, when a very clean solution is needed to follow SX steps in order to ensure that the remaining solvents and reagents from previous extraction step do not pass to the following step.

AC filter is designed for smaller side streams of copper and other metal loaded aqueous streams. It also optimizes back washing with filtered process liquid and circulates back to the process, ensuring that the water usage is kept to the minimum. The pumping pressure of the filter is low, meaning that the energy consumption is also lower.

Led by experience

Metso has the most comprehensive filtration portfolio in the market with nearly a century of filtration experience and 15 different filter types available for hundreds of applications.

Together with the Dual Media (DM) filter, Metso has a complete filtration portfolio for SX, electrowinning and crystallization processes.

Strong know-how and experience from the hydrometallurgical industry allows the company to remain the leader in the filtration field. Metso has more than 50 successful references from solvent extraction (SX) and crystallization processes globally.

[Read more at
metso.com/ac-filter](https://www.metso.com/ac-filter)

Benefits

- Utilizes the already proven cost-effective, modular design and operation philosophy as in the Metso DM filter product family
- Increases the quality and intake of the plant's end product
- Suitable for both greenfield and brownfield operations
- Increases recovery and recycling of valuable process chemicals
- Low energy consumption due to low pumping pressure
- Safe to use and operate due to sealed pressure vessel and piping

AC filter

Technical data and flowsheets

AC filter technical specifications

	AC500	AC1000	AC2000	AC3000
Units (pcs.)	1-4	1-4	2-5	2-5
Max. service flow (m ³ /h)	2.4-37	9.4-37	75-188	340-420
Vessel diameter (mm)	500	1000	2000	3000
Height (mm)	3130	3440	3130	5600

Sustainable by value

Sustainability is a strategic priority for Metso. That is why we have introduced the Planet Positive offering – products that are demonstrably more energy or water efficient than the market standard, and services that help our customers improve their productivity.



The AC filter is a part of Planet Positive offering.

AC filter installation for product solution or raffinate

