

Home ■ Productos ■ Microtamizado / Filtración ■ Filtro de Carbón Activado ■
 HUBER Filtro de Carbón Activado CONTIFLOW® GAK

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Cuarto nivel de limpieza - recogida de trazas de sustancias

The HUBER Active Carbon Filter CONTIFLOW® GAK removes micropollutants from the wastewater flow. The system uses granulated active carbon and is installed downstream of the secondary clarifier. An important advantage of the HUBER Active Carbon Filter CONTIFLOW® GAK is that it has no influence on existing process-engineering systems on the sewage treatment plant and can be optimised further by adding a sandfilter or an upstream ozonisation plant.

The HUBER Active Carbon Filter CONTIFLOW® GAK is a deep-bed type upflow filter. The system is highly efficient as no shutdowns for backwash cycles are necessary for the active carbon washing process.

As the influent flows from the bottom upward through the active carbon bed, the solid particles contained within the influent are retained in the filter layer and micropollutants are adsorbed on the large inner surface of the active carbon. The decisive factor for the second process is the residence time of the inflow in the active carbon bed.

The clear filtrate exits over a weir at the top of the filter. The active carbon bed, along with the accumulated solids, is drawn downward to the trough bottom into the airlift pipe, which is located in the centre of the filter. The airlift transports the mix upwards to the active carbon washer. Inside the washer, the solids are separated from the active carbon with a small portion of the filtrate flow. The active carbon is free of solids but still contaminated with micropollutants when it falls through to the filter bed so that an internal active carbon cycle is created. As the filter operation continues more and more micropollutants are adsorbed on the inner surface of the carbon.

[Ventajas](#)

- Amplia experiencia con más de 5000 instalaciones por todo el mundo.
- Sistema simple y de fácil mantenimiento.
- Proceso de filtración con limpieza continua de la arena. Opcionalmente discontinua.
- Una única pieza de desgaste
- Paradas innecesarias para realizar contralavados.
- Calidad constante del agua filtrada.
- Tratamiento sencillo del agua de lavado.
- Mínima pérdida de carga.
- Reduce los costes de funcionamiento y de inversión debido a la operación en continuo
- No se necesita sistema de lavado a contracorriente

Casos prácticos

- Dos proyectos insignia HUBER de la cuarta fase de limpieza: La construcción de las plantas para la eliminación de trazas de sustancias en Bickenbach y Uhldingen avanza rápidamente
- Seefelden sewage treatment plant at Lake Constance to receive 24 HUBER Active Carbon Filters CONTIFLOW® GAK as part of the fourth treatment stage
- Planta de tratamiento de aguas residuales de Bickenbach: HUBER suministra tecnologías para la primera planta de Hessen para la eliminación de trazas de sustancias
- HUBER ofrece componentes esenciales convincentes para una cuarta fase de limpieza
- Proyectos de investigación para la recogida de trazas de sustancias con ozono y carbón activo granulado
- Toma de trazas de sustancias: Cuarto nivel de limpieza con ayuda del filtro de arena CONTIFLOW® de HUBER