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HUBER Filtro a Carbone Attivo CONTIFLOW® GAK



Quarto stadio di depurazione - rimozione dei microinquinanti

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.

Vantaggi

- Costruzione semplice e con ridotta necessità di manutenzione
- A scelta processo di lavaggio sabbie continuo o discontinuo e contemporanea filtrazione continua
- Un solo particolare soggetto ad usura
- Nessuna interruzione di funzionamento per il retrolavaggio
- Omogenea qualità del filtrato
- Trattamento dell'acqua di lavaggio semplice
- Bassa differenza di pressione

Applicazioni

- [Due progetti di punta HUBER del quarto livello di depurazione: La costruzione degli impianti di rimozione dei microinquinanti a Bickenbach e Uhldingen procede rapidamente.](#)
- [Seefelden sewage treatment plant at Lake Constance to receive 24 HUBER Active Carbon Filters CONTIFLOW® GAK as part of the fourth treatment stage](#)
- [Impianto di depurazione di Bickenbach: HUBER fornisce tecnologie per il primo impianto di rimozione degli oligoelementi dell'Assia](#)
- [HUBER offre componenti essenziali convincenti per un quarto livello di trattamento specifico](#)
- [Progetto di ricerca per la rimozione dei microinquinanti con l'uso di ozono e carbone attivo granulare](#)
- [Rimozione di microelementi: Quarto stadio di depurazione con il filtro a sabbia CONTIFLOW® HUBER](#)

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