

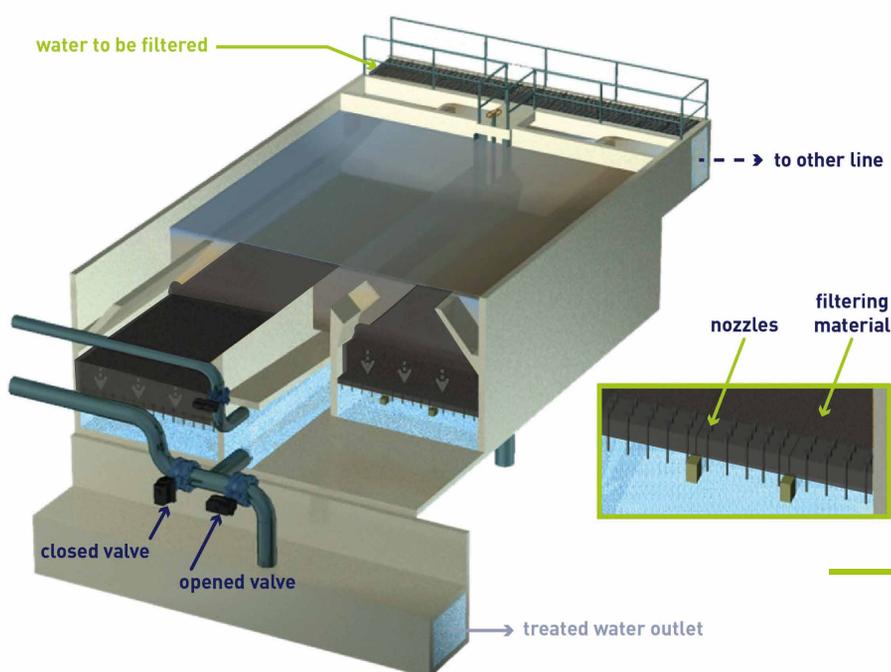


# Carbazur<sup>®</sup> GH

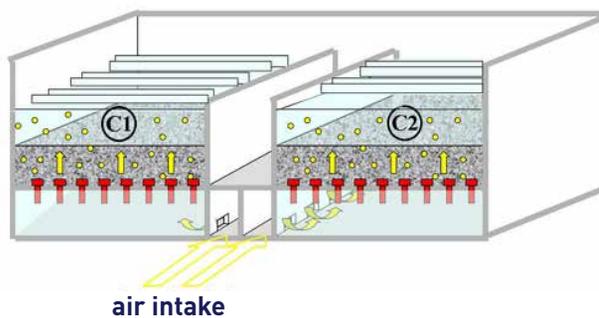
granular activated carbon filtration

○ drinking water

an open GAC filter with a high water head, efficient and secure



Designed for drinking water plants and for wastewater micropollutants treatment after clarification, Carbazur<sup>®</sup> GH is a descending current open granular activated carbon filter. As a filter, it is also a solid and liquid separator. It retains organic matter (organic matter + micropollutants), but also suspended solids in raw water thanks to a thick layer of GAC. The homogeneity of the GAC increases the filter run time, while maintaining a time of contact long enough to retain the most difficult molecules, and the high water head (1.20 m) prevents degasification. Generally, the water to be filtered is the effluent coming from a clarification process, that is to say a settler or a flotation system.



# Carbazur® GH technology . . .

## filtration

The water to be filtered, distributed to the filter by the inlet weirs, enters over the GAC. It crosses through the GAC, where micropollutants and organic matter are retained. Filtered water is evenly collected by the floor nozzles. The chamber below this floor is connected to the filter outlet, usually by a filter controller. From the outlet, the water is conveyed to subsequent treatment steps. When a preset degree of clogging is reached, filter washing must take place.

## washing in 3 steps

- 1 Lowering of the water level to the outlet weir.
- 2 Air scour at 50-60 m/hr and crosswash of the filtered water at 7 m/hr. A perfectly even distribution of water and air scour is achieved by the special design of the nozzles.
- 3 Rinsing by filtered water backwash, with a crosswash at 7 m/hr.

Overall duration of washing steps: from 10 to 12 minutes.

Washwater consumption: 4 to 5 m<sup>3</sup>/m<sup>2</sup> of filter area, of which only 2 m<sup>3</sup>/m<sup>2</sup> is filtered water.

## . . . what it can do for you



a high-rate open filter

original, efficient and economical  
backwashing limiting material loss



tailor-made operating control



washing water discharge channel  
avoid any material loss

## range / performance

- Filtration speed between 5 and 20 m/h
- CAG height to 2 m

## among our references

- La Thelle (France) - 240 m<sup>3</sup>/h
- Fabrègues (France) - 1,200 m<sup>3</sup>/h
- Les Moises (France) - 325 m<sup>3</sup>/h
- Mont-Valérien (France) - 4,000 m<sup>3</sup>/h
- Rabastens (France) - 840 m<sup>3</sup>/h
- Barentin (France) - 400 m<sup>3</sup>/h
- Rhône Sud (France) - 1,000 m<sup>3</sup>/h
- Morsang-sur-Seine (France) - 9,375 m<sup>3</sup>/h