

Carbon filters

EnvoCarb



In recent years purification using carbon filter absorption has grown increasingly important as an industrial separation process. Active carbon is used to an increasing extent to purify drinking water, but also to clean municipal and industrial water from contaminants that do not readily degrade. The most common process in Vilokan's carbon filter is that the adsorbent carbon binds the adsorbate oil to its pores.

Vilokan's carbon filter is a compromise of all the important function factors that influence the properties of a carbon filter. The filter is specially adapted for optimal contact time, while it is also simple and very easy to service, manage and change carbon.

During development, great emphasis has been placed on the manageability and simplicity of the filter. EnvoCarb has a built-in 3-chamber function to maximize adsorption and efficiency.

General information about the function.

All adsorbents in technical use have a large internal area. The internal area comprises the walls in the pores throughout the adsorbent. In simple terms, adsorption means that the substance to be adsorbed is bound in the pores of the adsorbent. The internal area is therefore crucial to the adsorption capacity. Since a substance is bound in the pores of an adsorbent, initially this takes place at very low force. The substance must then be given time to attach properly to the adsorbent.

Coalescence occurs in the upper part of the filter, which in simple terms means the oil soaks through the upper carbon. The carbon then separates from the oil coming into the filter. This means the oil is unable to pass through the filter and is left on the filter's surface. From here, the oil can then be tapped off.

The EnvoCarb program is available in four standard mo-

Mini	Capacity	10–150 l/hr
Midi	Capacity	100–300 l/hr
Maxi	Capacity	250–800 l/hr
Max Maxi	Capacity	700–2000 l/hr

Examples of applications



Examples of application fields::

- Final polishing in water purification
- Vehicle washes
- Boat washes
- Industrial washes
- Oil index polishing etc.