



DESOTEC

STRONG IN ACTIVATED CARBON

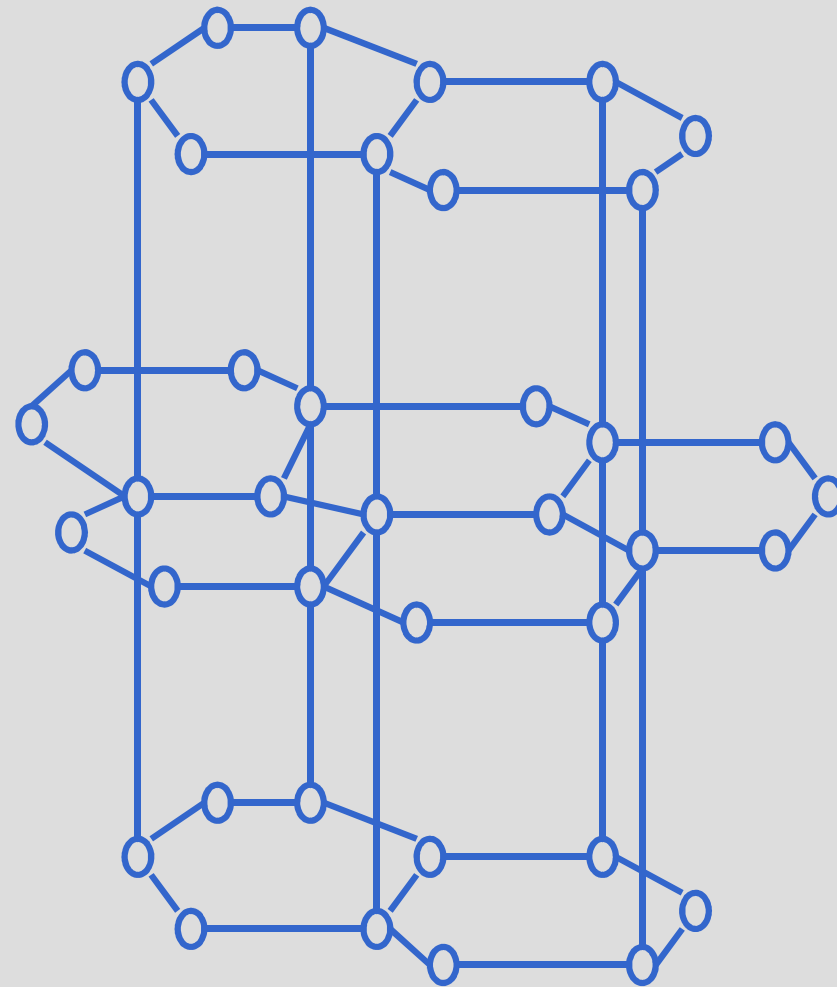
www.desotec.com

DESOTEC. STRONG IN ACTIVATED CARBON.

Activated carbon

Desotec is active in the production and distribution of activated carbon, a high quality product based on coal, wood and coconut shells. With this product the company plays an important role in the purification of liquids (e.g. water) and gases (e.g. air), and the removal of organic impurities from different media.

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The basic structure of activated carbon

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Activated carbon... and more...
Renting out filters

Desotec is much more than just activated carbon. Owning the largest fleet of mobile interchangeable filters of Europe, the company offers highly efficient solutions for all water and air treatment applications.

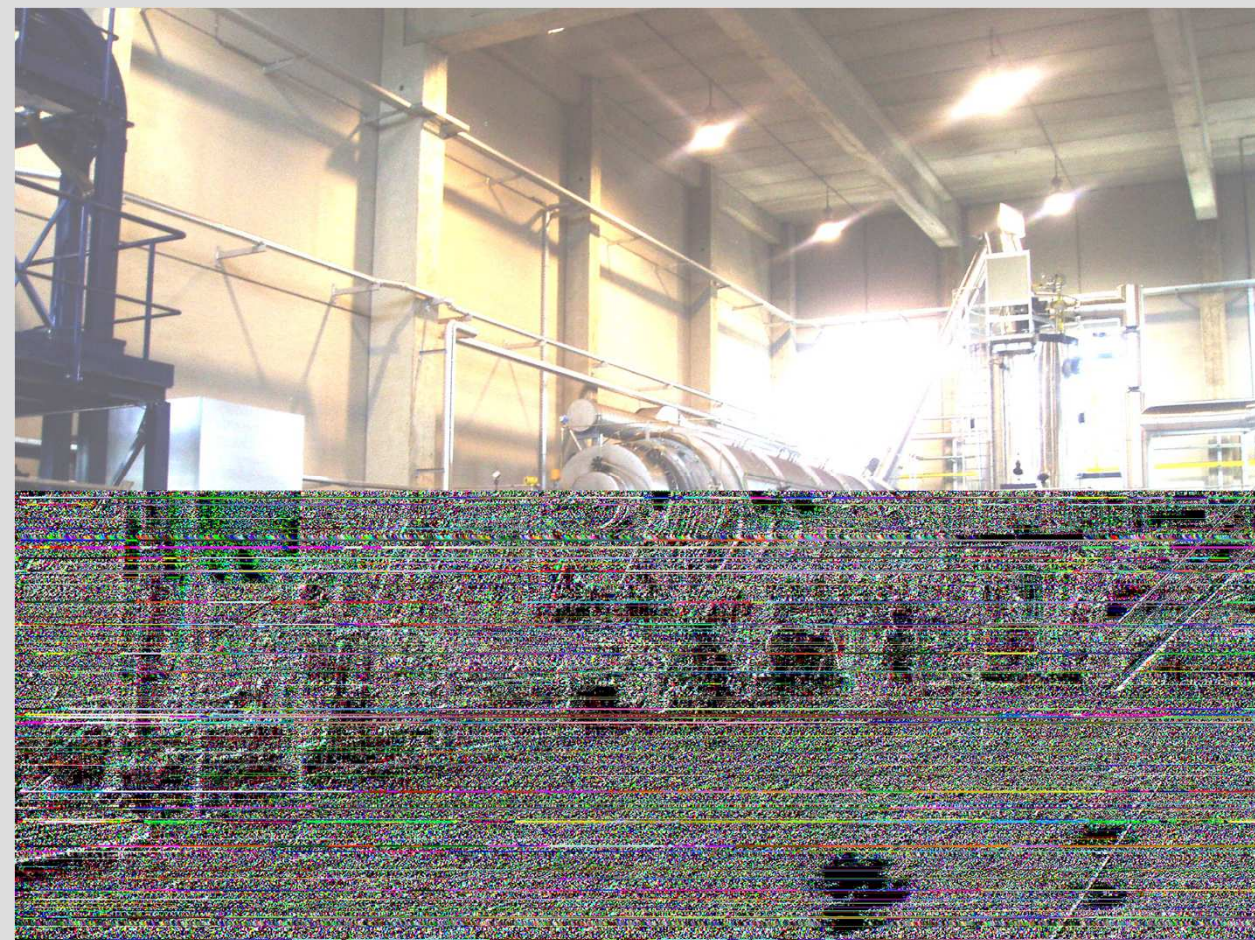


DESOTEC. STRONG IN ACTIVATED CARBON.

← Activated carbon... and more...

← Renting out filters

← Collection and reactivation of spent activated carbon



DESOTEC. STRONG IN ACTIVATED CARBON.

The types of ACTIVATED CARBON



GRANULAR



EXTRUDED
(pellets)



POWDER

DESOTEC. STRONG IN ACTIVATED CARBON.

The types of ACTIVATED CARBON

	type	BET surface area m ² /g	bulk density kg/m ³	form	mesh or diameter (mm)
ORGANOSORB 10	coal	1050	420	granular	8*30 12*40/6*12
REACTOSORB 8	coal	850	480	granular	8*30
ORGANOSORB 10-CO	cocos	1200	470	granular	6*8
AQUAPEL 10	coal	1000	450	extruded (pellets)	1-2-3-4 mm
ORGANOSORB 100-1	coal	900	500	powder	30*100
ORGANOSORB 200-1	coal	900	500	powder	> 200
ORGANOSORB 200C303	wood	1200	500	powder	> 200
AIRPEL 10	coal	950	490	extruded	2-3-4 mm

The above listing is non-restrictive and refers to the most frequently used types of activated carbon only.

DESOTEC. STRONG IN ACTIVATED CARBON.

The packaging

Activated carbon is delivered in standard quantities of :

- 25 kg (bags)
- or 500 kg (bigbags),
packed on pallets of 500 kg net, or
- in bulk.

Other types of packaging are available on request.

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The applications of activated carbon

LIQUIDS & WATER

purification of wastewater and groundwater, drinking and process waters, aerated activated carbon filtration, decolourisation, dechlorination, process streams, production of fine chemicals and pharmaceuticals, etc.

GASES & AIR

air purification, elimination of TOC and VOC from air, solvent recovery, desodourisation, flue gas treatment, gas masks, etc.

DESOTEC. STRONG IN ACTIVATED CARBON.

LIQUIDS

Permanent activated carbon filters for the treatment of liquids

Desotec offers advice and engineering services to develop and build activated carbon based adsorbers and filters. Whenever needed, tailor-made turnkey installations can be designed to meet customer specifications.



DESOTEC. STRONG IN ACTIVATED CARBON.

LIQUIDS

Mobile interchangeable activated carbon filters for the treatment of water - **MOBICON®**



Available on a rental base, without investment cost.
Nothing but advantages: efficient, flexible, fast and simple.

DESOTEC. STRONG IN ACTIVATED CARBON.

LIQUIDS

Different types of mobile filters
MOBICON®



max. 1m³/h



max. 12m³/h



max. 60m³/h

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LIQUIDS - special application

Aerated activated carbon filtration or **OXYCON**[®]

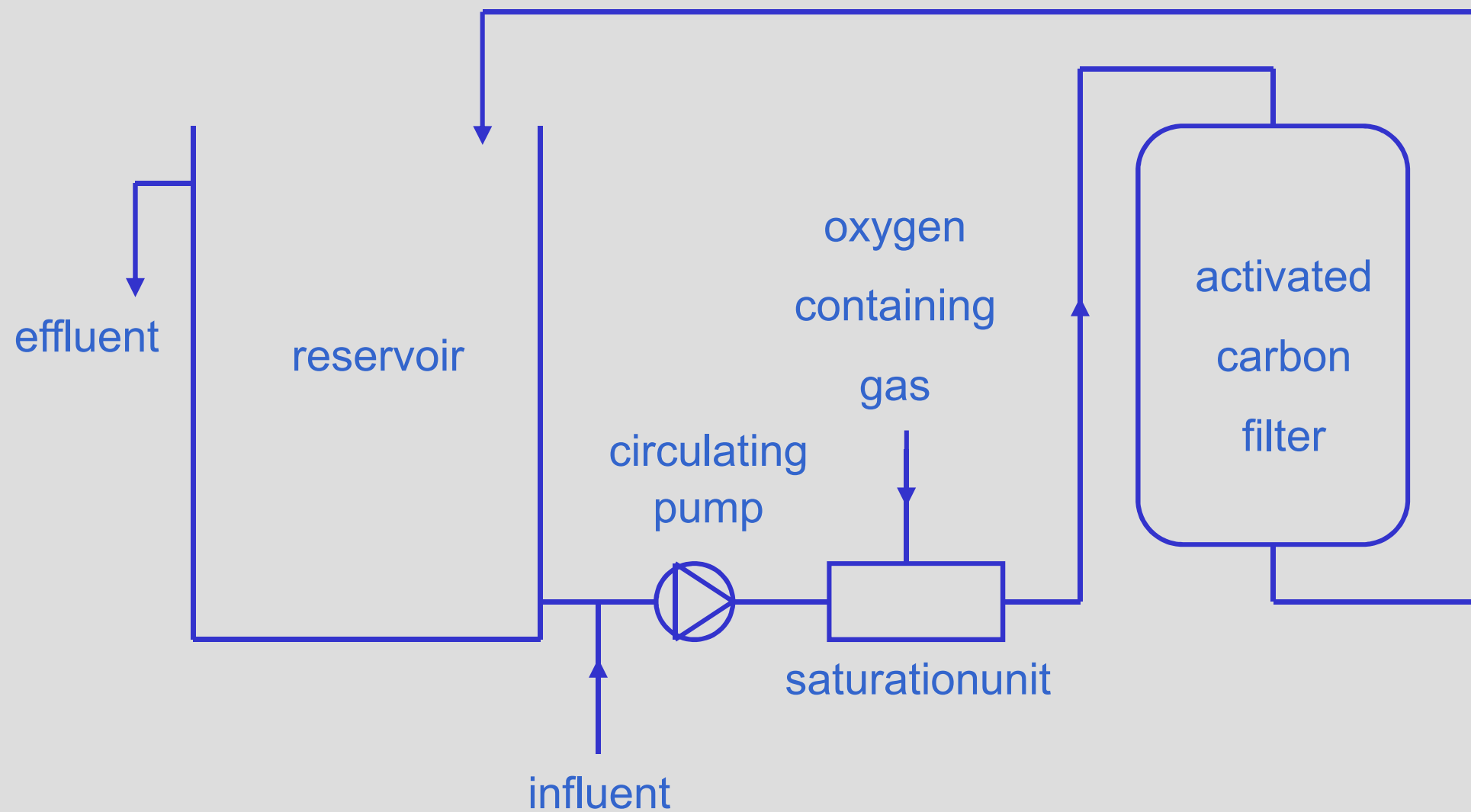
↳ The OXYCON[®] -system is based on the efficient aeration for activated carbon filters, used in wastewater treatment. In addition to adsorption processes, the chemical and biological oxidation of contaminants is stimulated.

↳ This results in the following advantages:

- ↳ a longer, even permanent lifetime of the a.c.
- ↳ a lower concentration of recalcitrant molecules.

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LIQUIDS - special application : OXYCON[®]



DESOTEC. STRONG IN ACTIVATED CARBON.

GAS and AIR

Permanent activated carbon filters for the treatment of gases.

As for liquid applications, Desotec offers advice and engineering services in the development and construction of activated carbon based air filters. Here also, tailor-made turnkey installations can be designed according to the customers specifications.



DESOTEC. STRONG IN ACTIVATED CARBON.

GASES and AIR

Mobile interchangeable activated carbon filters
for the treatment of air - **AIRCON**®



Available on a rental base, without investment cost.
Nothing but advantages : efficient, flexible, fast and simple.

DESOTEC. STRONG IN ACTIVATED CARBON.

GASES and AIR

Different types of mobile filters
AIRCON®



200m³/h



500m³/h



2 to 3.000m³/h



40.000m³/h - vertical version

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GASES and AIR

Impregnated activated carbon.

To enhance its capacity in air purification applications, activated carbon can be chemically impregnated to stimulate chemisorption.

Some typical examples :

	Activated carbon impregnated with:			
Removal of:	KI	KOH	S	H ₂ SO ₄
H ₂ S, organic sulphides		x	x	
Mercaptanes, acid gases, CS ₂		x		
Ammoniac, amines				x
Mercury	x		x	x

DESOTEC. STRONG IN ACTIVATED CARBON.

OUR COORDINATES

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