



Thanks to twenty years of experience in the field of air treatment, **Labiotech** is in a position to offer a large number of solutions, mostly for the abatement of odors, chemical pollutants and dusts.

Labiotech designs, manufactures and tests all the offered equipment, on which the company ensures assistance and after-sale maintenance.

Labiotech supplies plants designed and tested to guarantee “**top**” results.

Labiotech srl Tel. 0432/634449 – fax 0432/664482 Labio.test@labiotech.it – www.labiotech.it

DKFil®

DKFil® is a dry chemical-physical filtering system used for:

- **odors containment,**
- **various types of chemical pollutants abatement.**

Odors abatement

Odors abatement is ensured through a **physical-chemical absorption** process taking place on a filtering bed made of multiple layers containing various reagents, adequately sized for the type of effluent to be treated.

A proper **DKFil®** sizing makes it possible to enhance abatement capacity and lengthen filtering media duration.

Selecting absorbing materials and pre-impregnations, specifically designed for the various types of compounds, also permits a **selective abatement** of odorigenous substances, yielding **olfactometric efficiencies of 99%**.

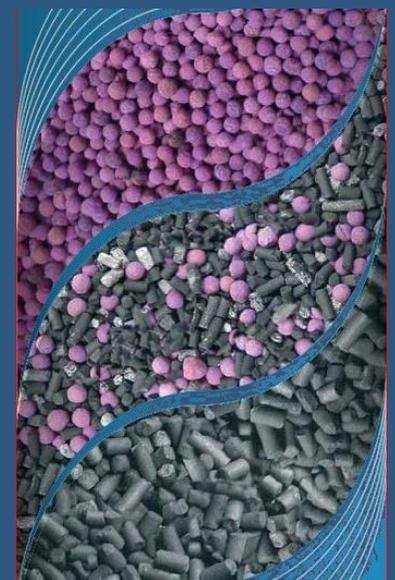


Main advantages:

- ✓ High efficiencies as regards olfactometric abatement;
- ✓ No maintenance, except for the substitution of the filtering bed;
- ✓ No components subject to wear or breakdown;
- ✓ No need for water feeding or unloading;
- ✓ Electric consumption limited to the ventilation section only;
- ✓ Applicable to the almost all odorigenous types of industrial emissions



“One solution to many problems”



Filtering materials

Description and technical characteristics



DKFil® 5000Nm³ system

Weight	From 150 to 6000 kg
Size	From (diam. 600 h 1500 mm) to (diam. 3000 h 3700 mm)
Treatment capacity	From 50 to 25.000 m ³ /h
Work temperature	From -20° to + 80° C
Structural material	Inox AISI 304/316, PP, PEHD, PVC
Fan noisiness	From 65 to 82 dB(A)
Feeding voltage	400 V
Frequency	50 Hz
Absorption	Depending on fan specifications
Power	Depending on fan specifications
Load losses	70–250 mm A.C.
Filtering material quantity	From 35 to 5.000 kg.
Accessories	Differential pressure probe, condensate trap, sampling openings, discharge outlets, TNT, coalescence filter

The **DKFil®** system can be set up within a line made of other air / odor treatment equipment, in order to ensure a higher efficiency, both analytical and olfactometric.

Interaction with osmogenic systems

The whole range of **Labiotest** equipment is constantly upgraded from a technological point of view. In this specific case, it was possible to ascertain that completing dry filtering systems traditionally offered with an **osmogenic barrier treatment stage** allowed for an abatement efficiency reaching levels it is hard to obtain with one single system. By adopting this type of solution, it is possible to maintain an olfactometric abatement that remains efficient even when the **filtering bed is coming near to being exhausted**.

