

Scrubber



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.

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Odors abatement

Odors abatement occurs when odorigenous polluting elements switch from an air phase to a liquid phase, to stabilize as **odorless** inactive materials.

Washing towers use the idea of an absorption of a watery phase into a liquid phase; and they do it thanks to the introduction of suitable filling elements or exchange packages inside a washing chamber adequately washed with the help of a pressurized watery solution.

All **Labiotech** systems include a series of automation systems and controls, so that they do not consider any action on the part of operators during normal work stages.



Main advantages:

- ✓ High deodorizing capacity for all water soluble substances having a strong chemical reactivity;
- ✓ No substitutions of exhausted materials;
- ✓ Limited space required, as a surface;
- ✓ Minor load losses;
- ✓ Excellent pre-treatment upstream of biofilters and dry filtering systems;
- ✓ Possibility of including additional sections for dust removal (Venturi pipe) or additional stages (double stage in washing tower);
- ✓ Possibility of a vertical or horizontal positioning according to necessities.

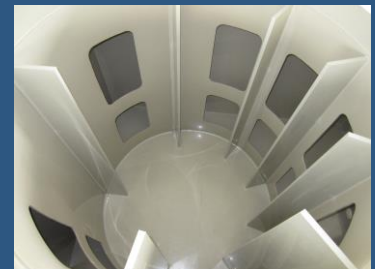


Scrubber

*The **Scrubber** is a wet abatement system used:*

- *to contain odors,*
- *to abate various types of chemical contaminants.*
- *To abate dusts,*

“One solution to many problems”



Inside details



40.000 Nm³ Scrubber

Description and technical characteristics

Weight	from 350 to 8000 kg
Size	From (diam. 400 h 2500 mm) to (diam. 3200 h 9000 mm)
Treatment capacity	From 50 to 90.000 m ³ /h
Work temperature	From -5° to + 99° C
Structural material	inox AISI 304/316, PP, PEHD, PVC
Fan noisiness	From 65 to 102 dB(A)
Feeding voltage	400 V
Frequency	50 Hz
Absorption	According to fan specifications + scrubber users (washing pumps, boards, dosing pumps)
Power	According to fan specifications + scrubber users (washing pumps, boards, dosing pumps)
Load losses	30–120 mm A.C.
Standard automatisms	Water reinstatement, level probes, pressure switches, pH probes, ORP probes, conductivity
Implementations	Wet Venturi section, double washing level, timed discharge

It is possible to set up the wet scrubber within a series of plants used to treat air/odors, in order to ensure more analytical and olfactometric efficiency.

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 wet abatement 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.

