

HPS *evo*



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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HPS *evo*

HPS *evo* is a spraying system used:

- to contain odors;
- to abate dusts.

Odors abatement

Osmogenic barriers using dilution water and specific products, **certified as deprived of polluting agents**, can neutralize smells.

The **Labio Test osmogenic barrier** guarantees **abatement efficiencies** of odor concentration **higher than 80%**.

Italian and International Research Institutes test and guarantee all the products used.

The most important property of osmogenic barriers is that they can treat both **diffused emissions** and

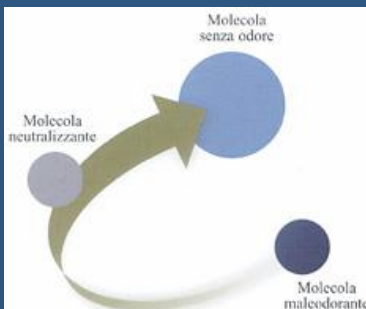
conveyed ones.

For the deodorizing products to spread properly, it is necessary to use adequate spraying systems to guarantee:

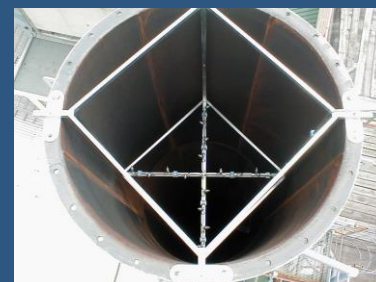
- ✓ **suitable micronization;**
- ✓ **suitable timing;**
- ✓ **suitable activity times;**
- ✓ **a strategic diffusion.**

Main advantages:

- ✓ High deodorizing capacity;
- ✓ No chemical substances introduced in the environment;
- ✓ No use of substances yielding secondary products;
- ✓ Components present do not oxidize and do not affect air;
- ✓ The process is not affected by visible and ultraviolet sun radiation;
- ✓ Presence of terpenic extracts and natural essential oils acting as olfattometric indicators of optimal dilution.



Osmogenic barrier operation.



Example of conveyed emission



Technical characteristics

Feeding voltage	380V-50 HZS (three-phase+T)
Installed power	1,5 kW-2,2 kW (according to model)
Frame	Supporting structure made of galvanized painted steel, with panel dimensions of 730 x 640 x 1080 mm
Control board	<ul style="list-style-type: none"> - Overload cutout - Manual / automatic operation switch - Continuous duty – stoppage/operation switch - Plc Easy for the management of alarms and timings - N. 4 stoppage-operation timers - N. 16 digital weekly programmable clocks - Hour counter
Hydraulic motor pump	Elastic coupling, male shaft electric motor, brass head, ceramic pistons
Flow rate	4 -9.5 -11-13-15 l/min. (according to number of nozzles)
Work pressure	Suggested 35 – max 70 bars
Revolution speed	1450 rpm
Dosing group	<ul style="list-style-type: none"> - high density polyethylene storage tank: capacity of 50 liters, complete with floating probe to show the product is finishing; - filtering unit for tap water with 10 and 3 microns filters unit;
Antifreeze system (optional)	<ul style="list-style-type: none"> - Digital thermostat with outside probe - Vacuum pump - Nr. 3 air solenoid valves - Air reducer with manometer - System timer

Many options for many requirements

HPS evo is the most advanced **Labio Test** spraying system.

The main options it can be equipped with are the following:

- ✓ **pressurization unit;**
- ✓ **antifreeze system;**
- ✓ **UV disinfection system;**
- ✓ **heating cable;**
- ✓ **tap water softener system;**
- ✓ **eolic selector.**

PUMP FLOW RATE	NUMBER OF NOZZLES	
	MAX	MIN
4 l/min - 1450 rpm	32	20
9,5 l/min - 1450 rpm	75	45
11 l/min - 1450 rpm	86	50
13 l/min - 1450 rpm	102	60
15 l/min – 1450 rpm	120	72

*At the suggested pressure the nozzle consumption is 7,5 liters/h.

