

DEODORIZATION BY ACTIVATED CARBON TOWER ECODEPUR[®] CLEAN AIR

TECHNICAL INFORMATION

Activated Carbon Towers ECODEPUR[®] CLEAN AIR deodorization towers have been developed to extract and treat air, ensuring the elimination and camouflaging of odors from domestic wastewater treatment and/or lifting systems (for removal of H₂S and Mercaptans) and in industries (for the treatment of VOCs).

Those are vertical towers with a cylindrical shape which can be installed inside or outside buildings.

Working principle

The treatment system is based on the use of activated carbon to filtrate the air through adsorption processes: the surface of the Activated Carbon attracts the pollutant gases, sticking them through *Van Der Waals* bonds. By forcing an air flow to enter in the tower, we ensure the contact of the activated carbon with pollutant gases.

The Activated Carbon towers ECODEPUR[®] CLEAN AIR work in a forced ventilation principle, granted by a ventilator, which is provided together with the filtering tower.

The efficiency of the deodorization towers ECODEPUR[®] CLEAN AIR treatment is very dependent on the type of gases to be treated.

Treatment guarantee

	Inlet Concentrations (mg/m ³)	Outlet Concentrations (mg/m ³)
H₂S	5	0,1
Mercaptans	1	<0,07

Activated Carbon characteristics

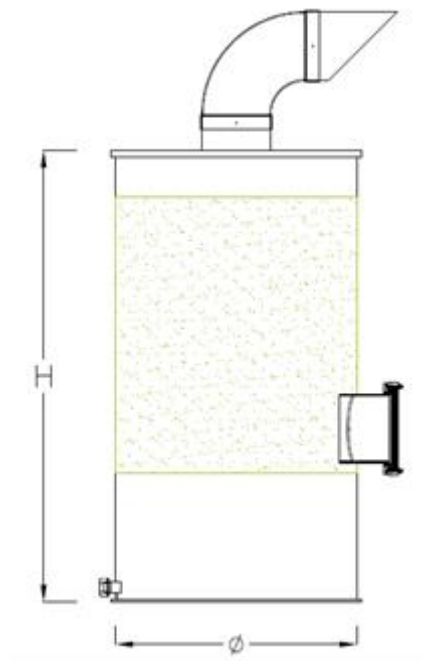
Activated Carbon Towers ECODEPUR[®] CLEAN AIR incorporates a combination of two types of activated carbon, EE-AC 4 et EE-AC 4 KOH MAX, specially developed for air treatment and which present as great advantages their great adsorption capacity and durability.

- H₂S Removal capacity (min): <25% by weight;
- Humidity (max): 17%±2
- Hardness (min.): 95 %
- Apparent density: 400 kg/m³ ±30 a 580 kg/m³ ± 5%
- Pellets diameter: 4 mm

Activated Carbon Towers ECODEPUR® CLEAN AIR characteristics:

Activated Carbon towers ECODEPUR® CLEAN AIR include:

- One vertical tower in polyethylene, with a cylindrical shape, for indoor or outdoor installation;
- The first activated carbon recharge;
- External ventilator and couplings for connection between components;
- One electrical control panel (with time switch);
- One air outlet from the tower with a curve and a beveled outlet pipe;
- One hatch to facilitate the discharge of activated carbon (except for Clean Air 100 and 180 models).



MODEL	AIR FLOW (m ³ /h)	ACTIVATED CARBON (Kg)	DIAMETER (mm)	HEIGHT (mm)	POWER CONSUMPTION (kW)
CLEAN AIR 100	100	60	470	1400	0,37
CLEAN AIR 180	180	60	470	1400	0,37
CLEAN AIR 300	300	160	700	1.340	0,37
CLEAN AIR 450	450	160	700	1.340	1,1
CLEAN AIR 800	800	280	940	1.540	1,1
CLEAN AIR 1000	1000	500	1250	1.560	1,1
CLEAN AIR 1600	1600	640	1400	1.640	1,1

Rev.4_25.11.25 | Les images et dimensions présentées peuvent être modifiées sans préavis.