

BiomiTech

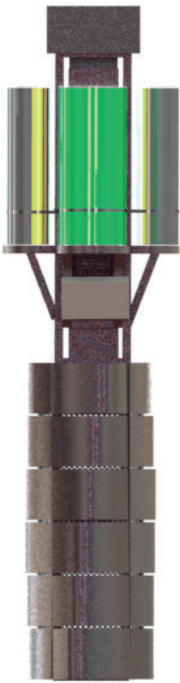


 **BioUrban**
Industries

Smart Tech for a Green Future

BioUrban for industrial chimneys and contaminated work spaces

The BioUrban air purification system is a green technology, its application is designed for small and medium sized chimneys of different types of boilers with the purpose of transforming various pollutant compounds such as Carbon Monoxide, Nitrogen Oxides and Particulate Material in Oxygen and Biomass through the natural process of photosynthesis. The system can be adapted according to the specifications and size of the industrial chimney in specialized projects.



Air purification capacity
5,000 m³ per hour



Equivalent to that of 368 young eucalyptus trees.

BioUrban Accessories



Horn



Solar panels



Access Point



Sensor and monitoring
of air quality

Why buy it?

- ✔ The acquisition of green technologies is 100% deductible from ISR (Mexico).
- ✔ The occupational risk rate decreases due to good air quality.
- ✔ Monitoring of pollutants with environmental sensors.
- ✔ Report of environmental monitoring report.
- ✔ Self-sustaining system by means of solar panels.
- ✔ Pure lease.



Applications

- ✔ Metallurgical
- ✔ Steelworks
- ✔ Cement
- ✔ Petrochemicals
- ✔ Warehouses and Wineries
- ✔ Manufacturers
- ✔ Chemistry - Pharmaceutical
- ✔ Industrial ships
- ✔ Factories
- ✔ Commercial premises



Technical specifications

Specifications:	Steel housing with biological system for air purification (CO ₂ , CO and NO _x), Hepa filter for dust and allergens (PM ₁ , PM _{2.5} , PM ₁₀) and silencer.
Diameter top:	2.75 m
Height:	4 m
Energy consumption:	2,800 W
Power supply:	127 V
Weight:	875 Kg
Flow of air flow:	5,000 m ³ /h
Flow of air flow:	43, 800,000 m ³ /annual
Purification volume:	975.2 Kg/annual
Capacity to capture CO ₂ , CO and NO _x	43, 800,000 m ³ /annual
PM _{2.5} and PM _{10.0} particle capture	Filters up to 99.7% of particles.

Studies and Standards

NMX-AA-00-1993-SCFI. Determination of gas flow in a conduit through the Pitot tube.

NMX-AA-010-2001-SCFI. Atmospheric Pollution - Fixed Sources - Determination of the emission of particles contained in the gases of uyen by a conduit - Isokinetic Method.

NMX-AA-023-1986. Terminology used in the topic of air pollution.

NMX-AA.035-1976. Determination of Carbon Dioxide, Carbon Monoxide and Oxygen in the combustion gases.

NMX-AA-054-1978. Determination of the moisture content in gases that escape through a conduit (gravimetric method).

Method EPA 25A. Determination of total gaseous organic concentration using a ionization.

Method EPA 3A: 2008. Determination of Oxygen and Carbon Dioxide concentrations in emissions from stationary sources.

Method EPA 10: 2008. Dertetermination of Carbon Monoxide emissions from stationary sources (Instrumental analyzer procedure).

Method EPA 7E: 2006. Determination of Nitrogen oxides emissions from stationary sources (Instrumental analyzer procedure).

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