

ECOSAN - WALLBOX 80

Data Sheet



Ecosan Wallbox 80 was born as a device to combat indoor pollution. **It fights bacterial and viral proliferation** through the **Photocatalysis system** designed and developed by Retiax srl. It offers a useful solution to **prevent diseases** due to microbiotic loads.

INSTALLATION

Ecosan Wallbox 80 was created with particular attention to **functionality** and layout within the rooms. In fact, the device is designed to be installed on a vertical wall using a special bracket with quick coupling and release. Thanks to the **high efficiency** of the components it **purifies 100 m³ / h of air**, allowing the **presence of people inside the environments** in which it operates. The device was developed according to current regulations also for installations in the Public Administration such as schools.



DATA SHEET

Ecosan Wallbox 80



Power supply	230 V
Consumption	13 W
Frequency	50 Hz
Capacity	100 m ³ /h
Weight	5,7 kg
Dimensions	h. 7 cm x l. 50 cm x l. 30 cm
Certifications	Lab test certified ACCREDIA Certification CE
Effectiveness	Bactericidal Virucidal Anti Pollution Anti Odor
Sanitation system	Photocatalysis

Prevention devices (ACCREDIA certified)

*Active biocide identified by ECHA, included in the list of approved active substances

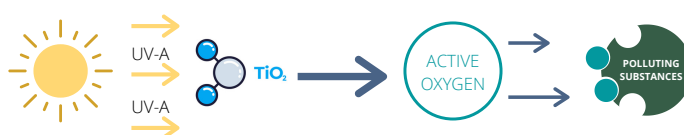
Product Warranty: **24 months**

For more information, contact your trusted dealer or consult the General Sales and Warranty Conditions available on the website www.retiar.com

HOW DOES PHOTOCATALYSIS WORK?

Photocatalysis is a **NATURAL** process in which a photocatalyst, through the action of light, modifies the speed of a chemical reaction, through an **oxidation and mineralization process**.

Consequently, organic substances such as viruses, bacteria, molds and inorganic ones such as fine dust, nitrogen oxides, NOx, VOC, air pollutants are transformed into **harmless compounds**.



Photocatalysis is a system that has been studied for decades in various public and private universities, as well as by the Italian Ministry of the Environment and Territory itself. In fact, its effectiveness as an anti-pollution, anti-viral and anti-bacterial system has been clear for many years.

The **effectiveness** of the photocatalytic system is **immediate**, all organic and non-organic compounds that come into contact with the photocatalytic surface are immediately oxidized and eliminated. This function applied by the device allows you to make the environment healthy in a **few minutes** thanks to the high air recirculation capacity.

Finally, a last interesting aspect is that **photocatalysts never lose their functional properties** with the passage of time, since they only act as activating agents of the oxidizing process; not binding with pollutants, they are always available for new photocatalysis cycles.

Today, photocatalysis allows us to improve the environment in which we live and at the same time be compatible with the needs and style of the modern world.

“Photocatalysis can provide an important contribution to solving the problem of indoor pollution”

- ITALIAN MINISTRY OF THE ENVIRONMENT -
AND THE PROTECTION OF THE TERRITORY AND THE SEA

Ecosan Wallbox 80 device certifications

1. In the photocatalytic system used within the Ecosan Wallbox 80 device, there is an active biocidal ingredient recognized by the European agency ECHA (**European Chemical Agency**) in compliance with Article 17, paragraph 5, of Regulation (EU) no. 1062/2014.

2. There is a study carried out by the **Italian Ministry of the Environment** regarding the effectiveness of photocatalysis: Ministerial Decree 13959 of 1 April 2004 Guidelines for the use of innovative systems in environmental impact assessments (Official Gazette no. 84 of 9 April 2004). **Photocatalysis works to reduce nitrogen oxides, NOx, VOC, bacteria and other air pollutants.**

3. **The University of Florence** was able to determine in the tests conducted in its laboratories with a photocatalytic system similar to that present in the Ecosan Wallbox 80 device, the reduction of the virological load in the following viruses:

- Influenza A virus (H1N1) 2009
- Single-stranded RNA genome virus
- Herpes simplex virus type 1 (HSV 1) virus with double-stranded DNA genome
- Adenovirus type 2 (AD2) virus with double-stranded DNA genome.

4. **The University of Turin** in accordance with UNI 11484 determined a significant reduction of 86% for NO and 60% of NOx, after 180 minutes from the activation of photocatalysis with a system similar to that used in the Wallbox 80 device.

5. The device produced by Retiax srl is designed with a photocatalytic system tested by an **ACCREDIA** certified laboratory. It can be used effectively to treat the air in closed environments in the presence of people in terms of eliminating microorganisms, reducing pollutants and inactivating viruses and bacteria. The effectiveness has been recognized by the laboratory which has issued compliant documentation regarding the tests carried out and the results obtained.

6. **CE** certification regularly issued by a body recognized throughout Europe.