TECHNICAL INFORMATION SHEET

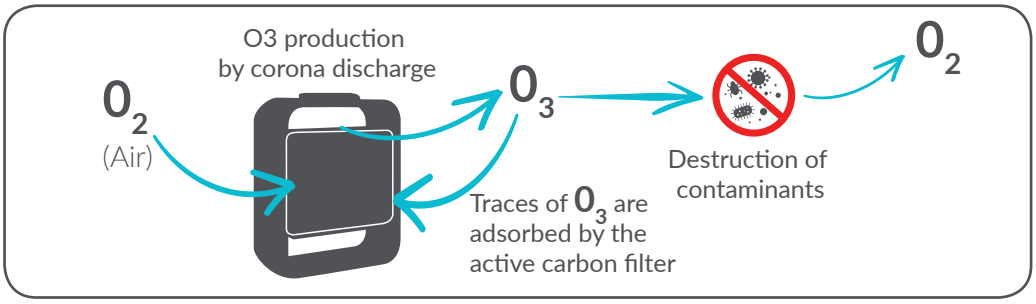
ACTIVE OXYGEN

• HOW DOES IT WORK ? •

Indoor air purification through EOLIS Air Manager Active Oxygen mode is based on the production of ozone (O_3) in **controlled amounts**. Ozone disinfection is a common process used in water treatment. Ozone is **naturally present in the atmosphere** and is a powerful oxidant that **reacts with organic or inorganic compounds and kills airborne microorganisms.**

• HOW IS IT PRODUCED ? •

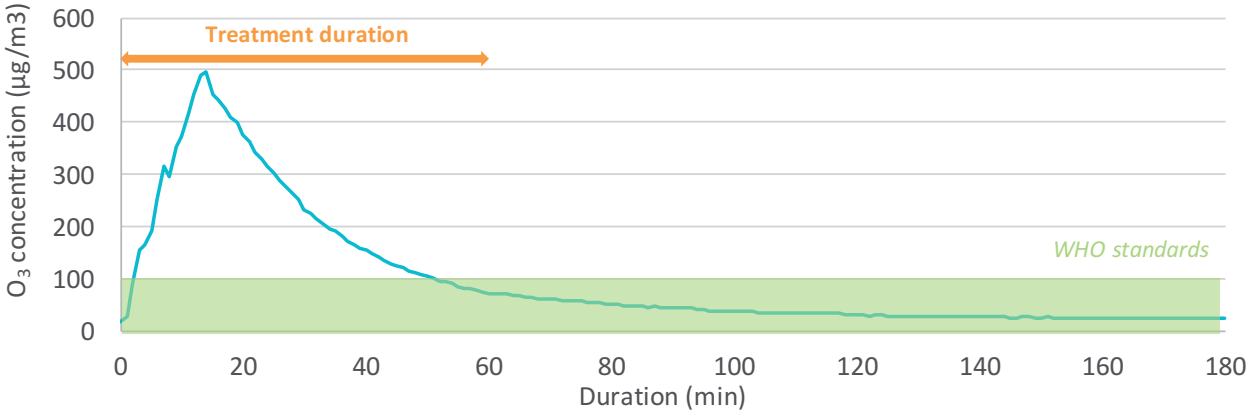
EOLIS Air Manager uses a **Corona discharge tube** to generate Ozone. It is produced from the oxygen (O_2) present in the ambient air, passing through an electrical field. This process is similar to the generation of ozone in the air during thunderstorms.



• WHAT MODE SHOULD BE USED ? •

Two distinct modes of Active Oxygen treatment have been developed to meet all needs:

- **MODE 1 :** is mainly effective on the **removal of odours** (cigarettes, body odours...). Ozone is generated in **small quantities** and its concentration, adapted to the volume of the room, remains under 40 µg/m³ (WHO recommended value : 100 µg/m³ in average over 8 hours).
- **MODE 2 :** cleans the room air thoroughly **by eliminating microorganisms and tenacious smells**. Ozone is generated in large quantities for 15 minutes, this treatment requires the room to be unoccupied for 1 hour.



Tests made with an EOLIS Air Manager 1200S in a 75m³ room, at speed level 1 and with Perform + filters unit

• A SAFE TECHNOLOGY, BY NATÉOSANTÉ •

Active Oxygen production by corona discharge is **reliable and repeatable**. Ozone is generated by the oxygen present in the air only when necessary and is therefore not accumulated. Ozone chemically reacts with the different contaminants present in the air and breaks down to O_2. If small traces of ozone remain, it is **adsorbed by the active carbon filter** present in the air purifier.

MORE INFORMATIONS ?

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