

Oxygen Generation EO2-30™

Chemical oxygen generator providing 3000 litres of breathable oxygen



The EO2-30™ is a single use, self contained oxygen generator that produces 3000 litres of breathable pure oxygen over a 25 to 45 minute period. It is the responsibility of the facilities operators to ensure that the units are suitable for the intended application and that written procedures and proper training is available to the users. A Product Handbook that provides guidance of appropriate use is available to all facility operators.

Safety

- Store in a clean dry environment away from flammable materials and sources of heat.
- Do not allow contamination by organic materials such as oil or grease – contaminated generators **MUST NOT BE USED** as hydrocarbons with oxygen can explode.
- Avoid contact with the generator once started – The generators run with a high surface temperature once initiated and will burn skin on contact or ignite flammable materials.
- The generators should **ONLY** be used by trained personnel under controlled conditions – incorrect use can lead to pressurisation of a sealed space and the production of high oxygen content environments.



Initiation

- 1 Refer to the local operating procedure for operating location(s) and number of units to initiate.
- 2 Confirm the external packaging is in good condition – if contaminated or damaged DO NOT USE.
- 3 Confirm the unit is within its shelf life – do not use out of date units.
- 4 Remove the outer protective wrapper (antipollution wrap) - use the metal handle to lift the unit from its anti pollution wrap.
- 5 Check the generator body for contamination or damage – no dents or contamination with any foreign material is acceptable – if damaged or contaminated DO NOT USE.



Ensure striker is present

6 Confirm the integrity of the top seal – DO NOT USE if the seal is damaged.

7 Remove cap by lifting the outer ring pull tab and pulling 180 degrees across the top. The tab will break the seal by levering up the edge. The cap can then be pulled off.

8 Place oxygen generator in the designated holder or location – see local operating procedure.

9 Remove the brass initiator from its protective packaging taking care to avoid contact or damage to the red initiator end.

10 Carefully insert the threaded initiator one turn into the top of the generator body ensuring the thread is engaged – **remove and repeat if the thread is not properly engaged** – The unit will not start until the initiator is screwed fully into the unit body.

11 Screw the initiator fully into the top of the generator until it will go no further – the generator will start producing oxygen during this operation although this may not be immediately apparent.

12 A slight hiss may be heard and the brass initiator will start to warm up and get hot in the first few minutes of operation indicating that the unit is functioning correctly. **Beware** that the unit will get progressively hotter during the first few minutes of operation and will burn vulnerable materials.

13 After approximately 45 minutes the oxygen flow will stop but the unit will remain very hot for some considerable time – AVOID CONTACT WITH THE HOT UNITS



If a unit fails to start – that is, does not start to heat the top after the first 5 minutes of operation then carefully remove the initiator and quarantine the unit. The initiator **MUST** be unscrewed and removed before the unit is moved or transported to ensure it cannot subsequently initiate. Any unit damaged or contaminated must also be quarantined and **MUST NOT BE REUSED**.

Disposal of used units should be via licensed contractor and carriers. The used and time-expired units are classified as “special waste” under UK legislation.

Transport and supply classification of the Oxygen generator

The EO2-30™ oxygen generator is classified as a UN3356 device.

The proper shipping name is: “Oxygen Generator; Chemical”

Transport classification: Hazard 5.1, Packing group II, subsidiary risk - Harmful,

The generator contains a chemical block consisting of sodium chlorate (>85%), Iron powder (<8%) and barium peroxide (<4%) – after use the block consists of essentially sodium chloride and iron oxide. The contents of the generator do not come into contact with the users in normal use.

Conditions of use and limit of liability

The EO2-30™ self contained oxygen generator is intended as a single-use source of breathable oxygen. The unit is designed to be used by trained personnel following a procedure set out and accessed by the facility operator. It is the responsibility of the facility operator to ensure the generators are used in a safe manner and can provide the required level of oxygen under the intended conditions of use.