Oxygen Self Rescuer

**SSR 30/100**

**INTRODUCTION**

The oxygen self-rescuers **SSR 30/100** and **SSR 30/100 B** are small, robust respiratory protective devices for self-rescue, which can be used at every place where the ambient atmosphere may be oxygen deficient or contain toxic contaminants. These devices employ the well-known and worldwide proven principle of generating oxygen chemically.

Due to its compact design and low weight, the oxygen self-rescuer can be worn continuously on the belt (SSR 30/100) or on the chest (SSR 30/100 B), so that it is available immediately in an emergency situation. It is donned in seconds and supplies oxygen to the wearer on his escape or while waiting for rescue.

The **SSR 30/100 B** is made for areas with the potential of abrupt eruptions of toxic gases or oxygen deficiency, requiring immediate breathing protection and fastest possible starting of the self-rescuer.

Both **SSR 30/100** versions are housed in a stainless steel case which protects the selfrescuer very well under the rough conditions which such devices usually undergo that are carried along continuously. The case is air tight and under seal. In case of an emergency it can be opened simply and quickly.

The canister contains the chemical KO2 which reacts with the exhalation air.

The humidity and carbon dioxide of the exhalation air cause a chemical reaction of the KO2, whereby carbon dioxide is retained and oxygen is released into the breathing bag. The service time of the apparatus depends on the user’s work rate, respectively, breathing rate. Under heavy load and resultant high breathing rate more oxygen is generated than under slow and shallow breathing as, for instance, while waiting for rescue.

**TECHNICAL FEATURES**

**Apparatus in case**

- **Dimensions:** height 18 cm/width 18 cm/depth 10 cm
- **Weight:** 2 kg (2.1 kg SSR 30/100 B)
- **Carrying mode:** on belt (SSR 30/100) or on chest with harness (SSR 30/100 B)
- **Storage life:** for Normal climate, temperature: 0°C to 50°C
  - 3 years: devices always carried
  - 5 years: devices stored (possible extension until 10 years)

**Apparatus without case**

- **Weight:** 1.3 kg (1.6 kg SSR 30/100 B)
- **Carrying mode:** in front of chest with neckstrap and waist belt (SSR 30/100) or in front of chest in lower part of container (SSR 30/100 B)
- **Principle of operation:** regeneration of breathable air through KO2
- **Flow principle:** pendulum breathing (see schematic)
- **Duration:**
  - 20 min at 35 l/min (Class K20S according EN 13794)
  - 30 min at 30 l/min (escape)
  - 100 min at 10 l/min (at rest)
- **Temperature class:** T3