

Datasheet EmSCAPE



With Safety.

The EmSCAPE emergency escape hood is a safety device that provides respiratory and facial protection in emergency situations. The hood supplies oxygen immediately upon donning, ensuring a breathable air supply even in toxic environments. With features such as a wide, fire-resistant visor, a flame-retardant hood, and an elastic seal that prevents gas ingress, it ensures safety during fires or other hazardous situations. It is easy to use and can be put on in just four steps. The EmSCAPE is suitable for a wide range of applications – from industrial emergencies to the evacuation of bedridden individuals.

The EmSCAPE emergency escape hood protects the respiratory system, head, and eyes from various toxic substances in the ambient air that may arise from fires, accidental releases of hazardous chemicals, industrial gases, and other toxic inhalation hazards.

The escape hood is used in the following areas:

- Fire safety and protection – as respiratory protection during evacuation from burning offices, industrial buildings and facilities, including high-rise structures, all types of transport vehicles, and crowded public spaces.
- Chemical safety – to protect the population in areas affected by fire gases and chemical contamination caused by fires, accidents involving the release of hazardous chemicals, industrial gases, and other toxic inhalants.
- Occupational safety – to protect workers in hazardous industries related to the production (extraction), storage, transport, and use of oil and gas products as well as chemicals.



Article-Number: 203536

Certification: In compliance with PPE Regulation (EU) 2016/425 and EN 13794.

Technical data:

Parameter in accordance with EN 13794:2002	Value
Rated duration, minutes, at least: • at lung ventilation 35 l/min • at lung ventilation 10 l/min	15 45
Working duration (till collapsing of breathing bag), minutes, at least: • at lung ventilation 35 l/min • at lung ventilation 10 l/min	30 ¹ 90
Breathing resistance, Pa, not more than: • average load (inhalation or exhalation) • sum of breathing resistances	1000 1600
Temperature of inhaled gas during rated duration, °C, no more than	50
CO ₂ content in the inhaled gas, %, max	3.0
O ₂ content in the inhaled gas during rated working duration, at least %	21 ²
Weight of the working part of the escape hood, kg	1.9 ± 0.1
Weight of escape hood in box, kg	2.35 ± 0.1
Weight of escape hood in bag, kg	2.15 ± 0.1
Dimensions in box (bag), mm, no more than: • length • width • height	295 160 260
Warranted shelf life, incl. the period of storage of escape hoods (from	8 ³

Revision 10.2025 – Errors and omissions excepted. All data are non-binding guide values.

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Parameter in accordance with EN 13794:2002	Value
the date of manufacturing till withdrawal), years	
Operational temperature, °C	from -5 to +60
Storage temperature, °C	from -5 to +40
Transportation temperature, °C	from -40 to +50
Permissible relative humidity during operation and storage (at +35 °C), %	up to 100

Notes:

¹ Working duration may vary under the escape conditions depending on physical activity and physiological peculiarities of the user.

² Short-time decrease of oxygen volume fraction in the inhaled gas down to 17% is allowed during the first two minutes after the self-rescuer activation.

³ With a possible extension for another 2 years on conditions performing mandatory after-sales service at an authorized DEZEGA service center

Operating principle

The escape hood completely isolates the user's respiratory organs from hazardous environmental factors, regardless of the concentration of toxic substances or the oxygen content in the surrounding atmosphere. It protects the respiratory system and eyes during escape or while waiting for rescue in case of a fire or other emergencies.

The gas mixture circulates within the breathing system. The regenerative substance in the cartridge absorbs carbon dioxide and moisture during exhalation and produces oxygen for inhalation.

The breathing system of the device directs the gas mixture into the half-mask chamber.

The escape hood is suitable for individuals with beards, long and/or thick hair. It is a single-use protective device, ready for immediate use without any prior training.

Manufacturer: DEZEGA SP

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