



Halos W-EBD – Wildfire Escape Breathing Device

Ultralight, compact open-circuit compressed air system designed for integration into water backpacks.

USOS:

- Escape from wildland fires
- Evacuation in contaminated atmospheres
- Firefighting and rescue operations
- Ground emergencies – short-duration air supply

Reusable autonomy for training. Can be used in training sessions and drills, allowing frontline personnel to become familiar with the equipment under controlled conditions without consuming additional resources.

DESIGN AND MATERIALS

— Storage Cylinder

Built with Type 3 or higher composite materials:

- Internal aluminum liner
- Full carbon fiber overwrap

Design focused on:

- High pressure resistance
- Weight reduction
- Ergonomics during extended use

— Compact design compatible with standard wildland firefighting backpack pockets

— Regulation System

Two-stage configuration:

- First stage: high-pressure regulator connected to the cylinder
- Second stage: demand-type metering valve

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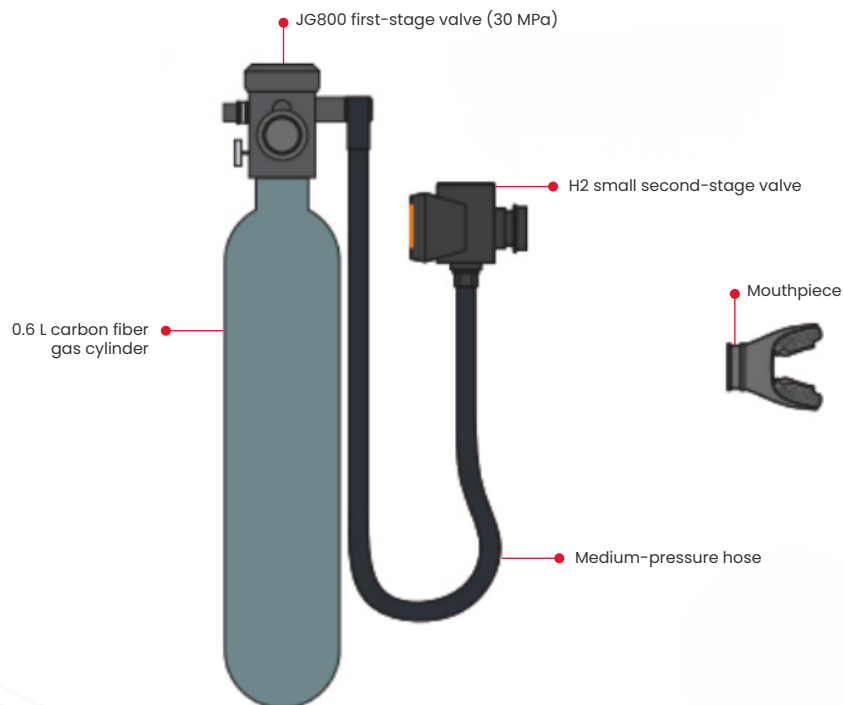
Functional design oriented toward stable air delivery in any position (upright, tilted, or crawling) and optimized air consumption

— The interconnection is made via a medium-pressure flexible hose, allowing full head rotation without restricting movement

— The valve design is optimized to:

- Prevent accidental free flow
- Minimize inhalation resistance under physical exertion

— The user interface consists of a food-grade/medical-grade silicone ergonomic mouthpiece, designed to ensure a firm, stable bite under physical stress



TECHNICAL SPECIFICATIONS

PARAMETER	VALUE / REQUIREMENT
Cylinder capacity	0,55 – 0,65 L
Service pressure	≥ 300 BAR / 4,500 PSI / 30 MPa
Cylinder weight (empty)	Max. 0,84 kg
Outer diameter	Max. 78 mm
Total length (without valve)	Max. 253 mm
Breathing autonomy	Min. 70 breaths / 5–8 minutes
Regulation	Two-stage system (high pressure + demand)
Overpressure safety	Burst disc or anti-explosion valve
Refill compatibility	8 mm male Quick Connect / Firefighter SCBA
Certifications	DOT, EN, ISO or aviation/diving equivalent

COMPONENTES

- JG800 first-stage valve (30 MPa)
- 0.6 L carbon fiber gas cylinder
- Medium-pressure hose
- H2 small second-stage valve
- Mouthpiece