

SELF-CONTAINED BREATHING APPARATUS (SCBA)

AERO-FIRE/6100

Positive-pressure SCBA for firefighting and high-heat operations

The **AERO-FIRE/6100** is a positive-pressure self-contained breathing apparatus designed for professional firefighting, where full respiratory protection must be combined with resistance to high temperatures and direct flame.

All textile components are made of high-performance aramid fibers, inherently flame-resistant and built to withstand extreme heat, abrasion and severe operating conditions.

An electronic monitoring unit and a Head-Up Display (HUD) keep the wearer informed at all times, with reliable performance across an operating temperature range of $-30\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$.

APPLICATIONS

Firefighting

Industrial fire brigades

Oil & Gas

Rescue operations



TECHNICAL SPECIFICATIONS

	3 L	6.8 L	9 L
Breathing gas	Compressed breathing air		
Working pressure	30 MPa (300 bar)		
Free air volume	≈ 900 L	≈ 2,040 L	≈ 2,700 L
Rated duration*	30 min	60 min	75 min
Cylinder weight	2.2 kg	3.8 kg	4.9 kg
Total weight (9 L cyl.)	≤ 15 kg		
Operating temperature	$-30\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$		
Standard	EN 137:2006 · CE marked		

* Nominal service time. Actual duration depends on air consumption, workload and user.

EQUIPMENT

Aramid-fiber harness	Standard
Electronic monitoring	Standard
Head-Up Display	Standard
RIC-UAC	Optional
PASS alarm	Optional

EN 137:2006

Certified · CE marked

SYSTEM COMPONENTS

Inside the AERO-FIRE/6100



Full-Face Mask

- Flame-resistant aramid-fiber head harness
- Wide field of vision, dual sealing edge
- 5-point harness, quick-release buckles
- Anti-fog visor, 92% light transmission
- Low dead-space design minimizes CO₂ rebreathing



Head-Up Display (HUD)

- Indicators positioned just below the eyes
- Wireless link to the monitoring unit
- Ultra-low power: battery life up to one year
- Shows cylinder pressure status



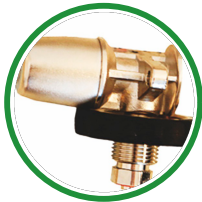
Positive-Pressure Demand Valve

- Plug-in connection with 360° rotation
- Compact and lightweight
- Air supply above 500 L/min
- Maintains constant positive pressure in the mask



Electronic Monitoring Unit

- Real-time cylinder pressure and remaining air time
- Automatic warning at 5–6 MPa
- Continuous 90 dB acoustic and visual signal
- PASS function (optional): automatic distress signal when the wearer is motionless



First-Stage Pressure Reducer

- Simple, compact design
- Output flow ≥ 1,000 L/min
- Relief valve releases excess pressure above 1.1 MPa



Backplate & Harness

- High-quality impact-resistant plastics
- Dual-layer lumbar support
- Inherently flame-resistant aramid-fiber harness



“Y” Connector

- Connects a second full-face mask
- or an emergency air line

EN 137:2006

Certified · CE marked

–30 °C to +60 °C

Operating temperature range

Up to 75 min

Nominal service time with 9 L cylinder