SELF-CONTAINED BREATHING APPARATUS (SCBA)

AERO-LUX/5100

Positive-pressure SCBA for industrial respiratory protection

The AERO-LUX/5100 is a positive-pressure self-contained breathing apparatus designed for environments that require full respiratory protection against hazardous airborne contaminants and oxygen-deficient atmospheres.

It is suited to the chemical industry, oil & gas, mining, metallurgy, pharmaceuticals and any workplace where the highest level of respiratory protection is required.

Built around a lightweight carbon-fiber cylinder and a field-proven pneumatic system, the AERO-LUX/5100 delivers reliability, durability and low cost of ownership for demanding industrial operations.

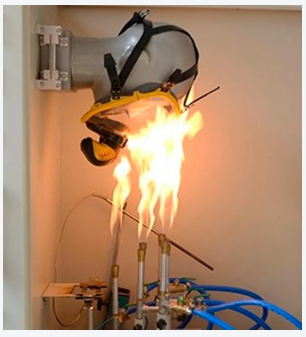


APPLICATIONS

Chemical · Oil & Gas · Mining · Metallurgy · Pharmaceutical · Confined spaces

TECHNICAL SPECIFICATIONS

	3 L cylinder	6.8 L cylinder
Breathing gas	Compressed breathing air	
Cylinder type	Carbon-fiber composite	
Working pressure	30 MPa (300 bar)	
Free air volume	≈ 900 L	≈ 2,040 L
Rated duration*	30 min	60 min
Cylinder weight	2.2 kg	3.8 kg
SCBA weight (complete)	7.8 kg	9.4 kg
Standard	EN 137:2006 · CE marked	



EN 137:2006
Certified · CE marked

* At an average air consumption of 30 L/min. Actual service time depends on workload and user.

SYSTEM COMPONENTS

Inside the AERO-LUX/5100



Full-Face Mask

- Wide panoramic field of vision
- Dual sealing edge for a complete seal
- 5-point head harness, quick-release buckles
- Anti-fog visor, 92% light transmission
- Flame-retardant materials
- Low dead-space design minimizes CO_2 rebreathing



Lung Demand Valve

- Plug-in connection to the mask
- 360° swivel for freedom of movement
- Compact, lightweight construction
- Air supply above 500 L/min
- Maintains positive pressure inside the mask



First-Stage Pressure Reducer

- Simple, compact construction
- Output flow ≥ 1,000 L/min
- Relief valve opens automatically when intermediate pressure exceeds 1.1 MPa



Cylinder Valve

- Integrated pressure gauge
- Thread: G 5/8



Pressure Gauge & Warning Whistle

- Whistle sounds at 5–6 MPa cylinder pressure
- Continuous 90 dB warning signal
- Whistle air consumption ≤ 5 L/min



Electronic Pressure Alarm (optional)

- Audible and visual warning at 5–6 MPa
- Continuous 90 dB signal
- External temperature alarm at 60 °C
- Manual “call for help” distress alarm



Backplate & Harness

- High-impact-resistant plastic backplate
- Ergonomic dual-layer lumbar support
- Tear-resistant fiber harness for long service life



“Y” Connector

- Connects a second full-face mask
- Air sharing in an emergency