

KL99 Carbon-Fiber Lightweight SCBA Kit (Full-Face)

Our Product Introduction

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Basic Information

- Minimum Order Quantity: 1 set
- Price: USD 450/set
- Stock: 10 set in stock
- Shipping Method: Express
- Description: Compact, positive-pressure SCBA featuring a flame-retardant full-face mask and carbon-fiber cylinder—ideal for firefighting
- Payment Terms: T/T, T/T



Product Specification

- Product Name: Self-contained Breathing Apparatus / SCBA
- Cylinder Capacity: 2 L To 12 L, Carbon-fiber Composite
- Max Airflow: ≥ 1000 L/min (system Capacity)
- Visor Field Of View: 91% Spherical Anti-fog
- Certifications: CE, EN137 Approved For Firefighting Use
- Applications: Firefighting, Chemical, Metallurgy, Marine, Military
- Highlight: carbon-fiber SCBA kit, lightweight full-face SCBA, SCBA air breathing apparatus



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Product Description

KL99 Self-contained SCBA with Carbon Fiber Cylinder



The **KL99 SCBA** is a compact, positive-pressure self-contained breathing apparatus engineered for firefighters and industrial operators working in oxygen-depleted or toxic environments. This advanced system seamlessly melds robust safety, dependable performance, and ergonomic comfort to meet the rigorous demands of high-risk operations.

Its full-face mask is crafted from flame-resistant silicone, featuring an anti-fog spherical visor that delivers a wide 91% field of view—ensuring visibility in smoke-filled, low-light, or other adverse conditions.

Airflow is regulated via a demand valve capable of delivering ≥ 500 L/min with minimal breathing resistance. A 360° quick-connect plug enables rapid and secure attachment to the mask.

The backplate harness combines ergonomic design with flame-retardant KEVLAR or Nomex straps and belt, distributing weight evenly to enhance wearer comfort. The backplate itself is made from durable, lightweight materials (such as flame-resistant engineering plastics and carbon fiber), weighing approximately 0.68 kg.

The pressure reducer delivers a stable, high-capacity airflow exceeding 1,000 L/min—designed for high-intensity exertion during emergency response.

Safety is enhanced with a luminous, shock- and water-resistant pressure gauge and a loud (≥ 90 dB) audible alarm that activates when cylinder pressure falls below ~ 5.5 MPa.

The apparatus supports carbon fiber composite cylinders in multiple capacities (2L to 12L), balancing lightweight construction with extended service time.

Field-proven across sectors including firefighting, petrochemical, maritime, power generation, metallurgy, and military operations, the KL99 SCBA is a trusted choice for enduring respiratory protection under extreme conditions.

Technical Specifications Data

Item	Description						
KL99 SCBA SET (self-contained breathing apparatus)	Cylinder material		Carbon fiber composites				
	Service Life of Cylinder		15 years				
	Hydrostatic pressure(Mpa)		50				
	Working pressure(Mpa)		30				
	Filled Content		Compressed air30				
	Cylinder volume(L)		2L,3L,4.7L,6.8L,9L				
	Max flow(L/min)		≥1000				
	Inhalation resistance(Pa)		≤500				
	Exhalation resistance(Pa)		≤1000				
	Alarm pressure(Mpa)		5.5±0.5				
	Alarm(dB)		≥90				
	Screw Thread		M18*1.5				
Vol.	W.P of air cylinder	Max. air supply flow	Respiratory resistance		Alarm pressure	Net Weight	Service time for ref.
			Exhalation	Inhalation			
2.0L	≤30MPa	≥1000L/min	≤1000Pa	≤500Pa	5.5±0.5M Pa	1.5KG	15min
3.0L	≤30MPa	≥1000L/min	≤1000Pa	≤500Pa	5.5±0.5M Pa	2.1KG	25min
4.7L	≤30MPa	≥1000L/min	≤1000Pa	≤500Pa	5.5±0.5M Pa	3.0KG	45min
6.8L	≤30MPa	≥1000L/min	≤1000Pa	≤500Pa	5.5±0.5M Pa	3.8KG	60min
9.0L	≤30MPa	≥1000L/min	≤1000Pa	≤500Pa	5.5±0.5M Pa	4.9KG	90min
12L	≤30MPa	≥1000L/min	≤1000Pa	≤500Pa	5.5±0.5M Pa	7.4KG	125min

Note: Service time is calculated based on moderate working intensity (30L/min respiratory rate).

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COMPANY APPEARANCE

THE OFFICE MEETING



WORKSHOP INSTRUMENT



- Nanjing Kelisaike Safety Equipment Co., Ltd. founded in 2004, Nanjing Kelisaike has three subsidiaries in Beijing, Xi'an and Xinjiang province, and over 30 domestic sales service centers.
- Standard products include the K60 series portable single gas detectors, K60-IV series multi gas detectors, K800 series fixed gas transmitters, K500 series wall-mounted gas detectors, K1000 series gas detector control panel units, KL99 series air breathing apparatuses, etc.
- Nanjing Kelisaike is also a factory with rich experience in OEM service, providing professional design and manufacturing of customized products.



OEM&ODM
Founded in 2004



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