

## KL99 Lightweight SCBA Carbon Fiber Air Cylinder with Full Face Respirator for Fire & Rescue Teams

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 with flame-resistant full face mask and carbon fiber cylinder. Ideal for firefighting, ch
- Payment Terms: T/T, T/T



### Product Specification

- Product Name: Self-contained Breathing Apparatus / SCBA
- Material: Carbon Fiber Composite
- Working Pressure:  $\leq 30\text{MPa}$
- Cylinder Capacity Options: 2L, 3L, 4.7L, 6.8L, 9L, 12L
- Certifications: CE, EN137 Approved For Firefighting Use
- Applications: Firefighting, Chemical, Metallurgy, Marine, Military
- Highlight: **KL99 Lightweight SCBA, Firefighting Essential KL99 Lightweight SCBA**



### More Images



## Product Description

### KL99 Self-contained SCBA with Carbon Fiber Cylinder



The **KL99 SCBA** is a positive pressure self-contained breathing apparatus meticulously engineered for firefighters and industrial workers operating in oxygen-deficient or hazardous gas environments. This advanced respiratory protection system combines reliability, safety, and user comfort to meet the stringent demands of high-risk applications.

At the heart of the system is a full face mask crafted from flame-resistant silicone, designed for a secure and comfortable fit across diverse facial shapes and sizes. The mask features a spherical anti-fog visor that offers an expansive 91% field of view, ensuring clear visibility even in the most challenging conditions such as smoke-filled or low-light environments.

Air supply is managed through a demand valve capable of delivering  $\geq 500$  liters per minute with minimal breathing resistance, enhancing user comfort during strenuous activity. The valve incorporates a 360-degree quick-connect plug system, allowing rapid and secure attachment to the facepiece for efficient donning and doffing.

The ergonomically designed backplate assembly includes flame-retardant shoulder straps and a waist belt made from high-strength materials like KEVLAR or Nomex. These components work together to evenly distribute the apparatus's weight, reducing wearer fatigue during extended use. The integrated pressure reducer ensures stable airflow with a capacity exceeding 1000 liters per minute, catering to the intense breathing demands of emergency operations.

Safety is further reinforced by a luminous pressure gauge and an audible alarm that activates when cylinder pressure falls below the critical threshold of  $5.5 \pm 0.5$  MPa, providing timely alerts to the user. The SCBA is compatible with a range of carbon fiber composite air cylinders, available in multiple capacities from 2 to 12 liters, delivering a balance of lightweight durability and extended breathing duration.

Designed for versatility, the KL99 SCBA is widely deployed across firefighting, petrochemical, maritime, power generation, metallurgical, and military sectors. It offers dependable, long-lasting respiratory protection in extreme conditions, empowering

personnel to perform safely and effectively in the most demanding environments.

#### 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 Kelisaik Safety Equipment Co., Ltd. founded in 2004, Nanjing Kelisaik 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 Kelisaik 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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