

Self Contained Breathing Apparatus (SCBA)

Aplus A6000



Aplus A6000

The APLUS A6000 is an upgraded breathing apparatus bringing technology as a tool to better aid the fire fighters, rescuers and workers. It comes with higher performing equipment without sacrificing safety and comfort. Fighters are better protected, and they will be able to focus on what they do best without sweating the small stuff. Best of all, it doesn't break your wallet to be able to upgrade your fighters to the next generation.

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Aplus A6000 System Components

- A6000 Full-face Mask**
The APLUS A6000 full-face mask features a silicon inner mask which is designed to be soft and comfortable for the user. The EPDM face seal is easy to wear and provides a good seal between users' face and mask. The polycarbonate spherical window provides a wide and clear view for the user.
- A6000 Lung Demand Valve (LDV)**
Suitable for the most extreme applications whenever Breathing Apparatus has to be worn: with its compact and robust design, and excellent pneumatic performance, the APLUS A6000 Lung Demand Valve (LDV) will always deliver the air that you need.
- Compressed Air Breathing Cylinders**
Designed with the latest technology, APLUS's range of Composite Cylinders can be used in any application where breathing becomes difficult or impossible.
- High Pressure Reducer**
High pressure reducer keeps the medium pressure stable regardless of the residual pressure in the cylinder or cylinders and the respiratory rate.
- A6000 Digital & Analog Pressure Gauge**
Showing both analog and digital reading of the air cylinder pressure at any given time. Equipped with audio and visual alarm that attracts double the attention. We further incorporated a Man-Down alarm that activates if no movement is detected. The pressure gauge also features a fluorescent surface (luminous function) and an external rubber casing to absorb vibration due to shocks and knocks.
- A6000 Rapid Connect System**
Just 1 click! That is all it takes to connect your cylinder to A6000. A simple twist removes the cylinder. This makes rapid mounting and dismounting of cylinder a reality. Crucial for time sensitive operations. This system will revolutionize the way operations are carried out and reduce downtime significantly.
- Heads Up Display (H.U.D.)**
Heads-up display (HUD) to give firefighters a visual display of their SCBA air status.

Aplus A6000 Technical Data

Aplus A6000 Self Contained Breathing Apparatus (SCBA)			
Weight (backplat & harness)	Approx. 4kg	Inhalation resistance	<5m bar
Dimensions	580(h) ×310(w) ×170(d)mm	Backpack type	Flame retardant
Input pressure	0-300 bar	Shoulder straps	Nomex & Kevlar, flame retardant
Nominal 1st stage output pressure	6-9 bar	Anti-Static	Yes
1st stage output flow	>500L/min	Approved temperature	-30°C-60°C
LDV output flow	400L/min	Breathing Apparatus (approvals)	EN 137 :2006 Type 2; EC-MED (EU) 2017/306
Exhalation resistance	≤10m bar		

Aplus A6000 Carbon Composite 6.8L Cylinder			
Weight (nett)	4kg	Test pressure	450 bar/6750 Psi
Outer diameter	157mm	Thread size	M18x1.5
Outer length	530mm	Maximum Service Life	15 years
Air Filling Medium	Breathable Air (EN12021)	Next hydrotest period	5 years
Working pressure	300 bar/4500 Psi	Working Temperature	-30°C-60°C

Aplus A6000 Full-face Mask	
Skirt and inner mask material	EPDM with silicon inner mask
Visor	PC class 3 with anti-fog treatment
Speech diaphragm	Yes
Type of head harness	5 points rubber, Aramid, Kevlar
Neck strap provided	Yes
Weight	Approx. 600g (depending on variations)
Available size	Universal
Facemask (approvals)	EN 136 :1998; EC-MED (EU) 2017/306

Aplus A6000 Digital & Analog Pressure Gauge	
Type of gauge	Digital & pneumatic
Precision	Class 1.6
Measurement unit	Bar, Psi
Protection	Rubber encased
Visibility in darkness	Yes
Activation pressure	50-60 bar
Sound level	>90dB at ear
Visual & man-down alarm	Yes

Optional Add-On Items

- Voice Communication System**
Enable users to communicate via walkie-talkie with the full face mask.
- Excess Flow Valves (EFVs)**
Safety devices installed on the cylinder to reduce the risk of accidents.
- 9-Litre Carbon Composite Cylinder**
Increase capacity and duration of SCBA from 6.8 litre to 9 litre.
- Y-Joint Socket**
Enables SCBA to be a buddy breather. A rescue technique for when two people share one air source, alternately breathing from it.



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Aplus Safety

Aplus Safety specialized in manufacturing and servicing personal protective equipment. Our products meet stringent international safety standards and quality control. We can provide solutions for any safety hazards that you may face.

Self Contained Breathing Apparatus (SCBA)

Aplus A3000

Aplus A3000

The APLUS A3000 is a breathing apparatus for firefighters, rescuers and works requiring complete respiratory protection. Combining comfort without sacrificing performance, it is suitable for applications where simplicity and ease of use are key essentials. Lightweight yet robust, and easy to don, this advanced breathing apparatus provides the ultimate in breathing protection.



- 1. Drag rescue device (DRD) for easy rescue of any man down
- 2. Anti-static impact resistant light weight space frame
- 3. HP/MP hoses tucked away neatly to prevent tearing and abrasion
- 4. Reflective shoulder indicators
- 5. Hard wearing flame retardant webbing
- 6. Rapid quick coupling – able to customize for dual users
- 7. Comfortable weight bearing padding
- 8. Rubber gauge cover impact protection
- 9. Stainless steel adjustment pull ring
- 10. Lightweight and flame retardant buckles

Aplus A3000 System Components

- A20 Full-face Mask**
The APLUS A20 full-face mask features a silicon inner mask which is designed to be soft and comfortable for the user. The silicon/ EPDM face seal is easy to wear and provides a good seal between users' face and mask. The polycarbonate spherical window provides a wide and clear view for the user.
- A3000 Lung Demand Valve (LDV)**
Suitable for the most extreme applications whenever Breathing Apparatus has to be worn: with its compact and robust design, and excellent pneumatic performance, the APLUS A3000 Lung Demand Valve (LDV) will always deliver the air that you need.
- Compressed Air Breathing Cylinders**
Designed with the latest technology, APLUS's range of Composite Cylinders can be used in any application where breathing becomes difficult or impossible.
- High Pressure Reducer**
High pressure reducer keeps the medium pressure stable regardless of the residual pressure in the cylinder or cylinders and the respiratory rate.
- Dual Reading High Pressure Gauge**
Dual readings ensures majority of users know what the reading represents. The pressure gauge also features a fluorescent surface (luminous function) and an external rubber casing to absorb vibration due to shocks and knocks.
- Alarm Whistle**
A powerful 90dB whistle activates to warn the user and those around once the air supply drops to 50 – 60 bar. Whistle is designed to consume less air when activated thus saving remaining air for the user.

Aplus A3000 Technical Data

Aplus A3000 Self Contained Breathing Apparatus (SCBA)			
Weight (backplat & harness)	Approx. 4kg	LDV output flow	400L/min
Dimensions	580(h) ×310(w) ×170(d)mm	Exhalation resistance	≤10m bar
Input pressure	0-300 bar	Inhalation resistance	≤5m bar
Nominal 1st stage output pressure	6-9 bar	Approved temperature	-30°C~60°C
1st stage output flow	>500L/min	Breathing Apparatus (approvals)	EN 137 :2006 Type 2; EC-MED (EU) 2017/306

Aplus A3000 Carbon Composite 6.8L Cylinder			
Weight (nett)	3.9kg	Test pressure	450 bar/6750 Psi
Outer diameter	157mm	Thread size	M18x1.5
Outer length	530mm	Maximum Service Life	15 years
Air Filling Medium	Breathable Air (EN12021)	Next hydrotest period	5 years
Working pressure	300 bar/4500 Psi	Working Temperature	-30°C~60°C

Aplus A20 Full-face Mask	
Skirt and inner mask material	EPDM with silicon inner mask
Visor	PC class 3 with anti-fog treatment
Speech diaphragm	Yes
Type of head harness	5 points rubber
Neck strap provided	Yes
Weight	Approx. 600g (depending on variations)
Available size	Universal
Facemask (approvals)	EN 136 :1998; EC-MED (EU) 2017/306

Aplus A3000 High Pressure Gauge	
Type of gauge	Pneumatic
Precision	Class 1.6
Measurement unit	Bar, MPa
Protection	Rubber encased
Visibility in darkness	Yes
Activation pressure	50-60 bar
Sound level	>90dB at ear

Optional Add-On Items

- Voice Communication System**
Enable users to communicate via walkie-talkie with the full face mask.
- Excess Flow Valves (EFVs)**
Safety devices installed on the cylinder to reduce the risk of accidents.
- 9-Litre Carbon Composite Cylinder**
Increase capacity and duration of SCBA from 6.8 litre to 9 litre.
- Y-Joint Socket**
Enables SCBA to be a buddy breather. A rescue technique for when two people share one air source, alternately breathing from it.

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Aplus Gas Detector

Aplus BX176

BX176 portable single gas detector is an intrinsically safe equipment which can continuously detect combustible gases and toxic gases in underground pipes or mines. By adopting excellent-quality sensor, it has good sensitivity and repeatability.



- LCD display
- Adjustable alarm value and span calibration value
- High concentration protection for combustible gas sensor
- Low voltage alert
- Real time clock display
- Audible, visual and vibrative alarming
- STEL and TWA alarm for toxic gases

Response time	LEL, CO, H ₂ S: T90 <30s ; O ₂ (Oxygen): T90 <20s ; NH ₃ , HCL: T90 <120s ; Other Toxic: T90 <60s	Target gas	LEL, O ₂ , toxic gases, etc.
Display	LCD display	Accuracy	±5% F.S.
Alarm method	Audible, visual, and vibration alarm	Indication	LCD indicates the time and state
Working temperature	Toxic, O₂ and Combustible gas: -20°C~50°C,	Power supply	DC3.7V, 1300mAh Li-ion battery
Working humidity	<95%RH (no condensation)	Charging time	4-6 hours
Dimension & weight	104.0(h) × 60.8(w) × 30.5(d)mm ; About 125g	Ingress protection	IP65
Operating life	Combustible gas: 48h continuously, Toxic gas: ≥300h continuously (20°C)	Application	Oil and gas industries, Power plants, Petrochemical plant, Steelworks, Refinery, Marine, Mine, Sewage treatment plant, Confined spaces, Labs etc.

Aplus BX616

BX616 is a united gas detector measuring four (4) major gases, which result the most of the industrial accidents, to protect the disasters caused by the O₂ deficiency, toxic gas poisoning and combustible gas explosion. It measures continuously four gases O₂, CO, H₂S and combustible gas (LEL), and displays their concentrations. Once the risk occurs, it also raises the alarm (visual, audible and vibrative).



- Small and lightweight
- Single button operation
- Adjustable alarm levels and span calibration value
- Battery low voltage alert
- Self protection for combustible gas sensor against high concentration
- Self-test after power on
- Confidence beep
- STEL and TWA alarm for toxic gases
- Self diagnostic and correction

Measuring gas	O ₂ , CO, H ₂ S, Combustible	Dimension & weight	120(h) ×68(w) ×30(d)mm ; About 220g
Measuring range	0-25%VOL, 0-500ppm, 0-100ppm, 0-100%LEL	Operating life	≥8h per charge
Sensor type	Electrochemical, Catalytic	Housing	Rubber enclosure
Measuring type	Diffuse naturally	Standard accessories	Operation manual, calibration cap, charger
Response time	T90<30s	Ex grade	II 2G Ex ia IIC T4 G4 or II 2G Ex db ia IIC T4 Gb
Display	LCD screen	Power supply	DC3.7V, 1800mAh Lithium battery
Audible	≥85dB at 1m	Charging time	4-6 hours
Alarm method	Visual, audible and vibrative signals	Ingress protection	IP66
Working temperature	Toxic and Combustible gas: -20°C~50°C,	Application	Steelworks, petrochemical plant, oil industry, shipbuilding yard, sewage treatment plant, mine, power supply works, confined spaces etc.
Working humidity	<95%RH (no condensation)		

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