Self Contained Breathing Apparatus (SCBA)

APLUS

Aplus A6000 Technical Data

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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.

IUS

1. Carbon composite cylinder

Kevlar shoulder

straps

2 Nomex & Lightweight and flame retardent

4 Flame retardant straps

A6000 Full-face Mask The APLUS A6000 full-face mask features a silicon inner mask

The EPDM face seal is easy to wear and provides a good seal etween users' face and mask. The polycarbonate spherical

which is designed to be soft and comfortable for the user.

window provides a wide and clear view for the user.

5 Reflective 6. Flame shoulder retardant indicators harness

7 Stainless B. Digital steel gauge with adjustment Man-down pull rina alarm

9. 30 deg swivel backplate

10 Ouick 11 Aramid connect for fast & Kevlar replacement of head cvlinders harness

12 HUD

device

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

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.

eads Up Display (H.U.D) Heads-up display (HUD) to give firefighters a visual display of their SCBA air status.

Aplus A6000 Self Contained Breathing Apparatus (SCBA)					
Dimensions	580(h) ×310(w) ×170(d)mm				
Input pressure	0-300 bar				
Nominal 1st stage output p	pressure 6-9 bar				
1st stage output flow	>500L/min				
LDV output flow	400L/min				
Exhalation resistance	≤10m bar				

Aplus A6000 Carbon Composite 6.8L Cylinder Weight (nett) 4kg 157mm Outer diameter Outer length 530mm Air Filling Medium Breathable Air (EN12021) Working pressure 300 bar/4500 Psi

Aplus A6000 Full-face Mask Skirt and inner mask material EPDM with silicon inner mask PC class 3 with anti-fog treatment Visor 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

Optional Add-On Items



Voice Communication System nable users to communicate via walkie-talkie with the full ace mask.

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 100 A people share one air source, alternately breathing from it.

risk of accidents.

Aplus Safety Pte Ltd 81 Ubi Avenue 4, #03-16, Singapore 408830 T: (65) 6890 0898 E: info@aplussafety.com.sg

Aplus A6000 System Components

buckles





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.



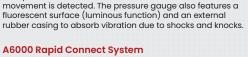
High Pressure Reducer

High pressure reducer keeps the medium pressure stable egardless of the residual pressure in the cylinder or nders and the respiratory rate.

3

1000





Inhalation resistance	≤5m bar
Backpack type	Flame retardant
Shoulder straps	Nomex & Kevlar, flame retardant
Anti-Static	Yes
Approved temperature	-30°C~60°C
Breathing Apparatus (approvals)	EN 137 :2006 Type 2; EC-MED (EU) 2017/306

Test pressure	450 bar/6750 Psi
Thread size	M18x1.5
Maximum Service Life	15 years
Next hydrotest period	5 years
Working Temperature	-30°C~60°C

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





Aplus Safety specialized in manufacturing and servicing personal protective equipment. Our products meet stringent international safety

Self Contained Breathing Apparatus (SCBA)

Aplus A3000 Technical Data

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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.



device (DRD) for

easy rescue of

any man down

30

Aplus A





Draa rescue











light weight

space frame



to prevent tearing

and abrasion

5. Hard Reflective shoulder wearing flame indicators retardant webbing

padding



pull ring

10. Liahtweiaht

and flame

buckles

retardant

Aplus A3000 System Components



A20 Full-face Mask

The APIUS 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 aood seal between users' face and mask. The polycarbonate nerical 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 Reduce

High pressure reducer keeps the medium pressure stable regardless of the residual pressure in the cylinder or nders and the respiratory rate.

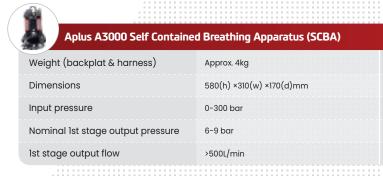
Dual Reading High Pressure Gauge

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 emaining air for the user.



Aplus A3000 Carbon Composite 6.8L Cylinder				
Weight (nett)	3.9kg			
Outer diameter	157mm			
Outer length	530mm			
Air Filling Medium	Breathable Air (EN12021)			
Working pressure	300 bar/4500 Psi			

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

Optional Add-On Items



Voice Communication System Enable users to communicate via walkie-talkie with the full face mask

duration of SCBA from 6.8 litre to 9 litre.

9-Litre Carbon **Composite Cylinder** Increase capacity and

Y-Joint Socket the second

risk of accidents.

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Aplus Gas Detector

LDV output flow	400L/min
Exhalation resistance	≤10m bar
Inhalation resistance	≤5m bar
Approved temperature	-30°C~60°C
Breathing Apparatus (approvals)	EN 137 :2006 Type 2; EC-MED (EU) 2017/306

Test pressure	450 bar/6750 Psi
Thread size	M18x1.5
Maximum Service Life	15 years
Next hydrotest period	5 years
Working Temperature	-30°C~60°C

Aplus A3000 High Pressure Gauge

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





Response time

Alarm method

Working temperature

Working humidity

Operating life

Dimension & weight

805 O T

Display

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.



value







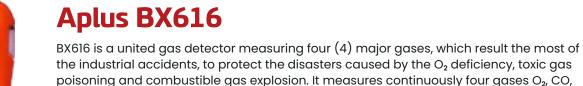
High Low alarm value concentration voltage and span protection for alert calibration combustible gas sensor

Real time Audible clock visual and vibrative display

alarmina

STEL and TWA alarm for toxic gases

LEL, CO, H₂S: T90 <30s ; O₂ (Oxygen): T90 <20s ; NH₃, HCL: T90 <120s ; Other Toxic: T90 <60s	Target gas	LEL, O2, toxic gases, etc.
LCD display	Accuracy	≤±5% F.S.
Audible, visual, and vibration alarm	Indication	LCD indicates the time and state
Toxic, O2 and Combustible gas: -20°C-50°C,	Power supply	DC3.7V, 1300mAh Li-ion battery
<95%RH (no condensation)	Charging time	4~6 hours
104.0(h) × 60.8(w) × 30.5(d)mm ; About 125g	Ingress protection	IP65
Combustible gas: ⊀8h 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.





Adjustable Battery low alarm levels and span alert

value

Self protection Self-test voltage for combustible after aas sensor power on against high

concentratio

Confidence beep for toxic gases

STEL and Self diagnostic TWA alarm and correction

Measuring gas	O ₂	CO	H₂S	Combustible	۵
Measuring range	0-25%VOL	0-500ppm	0-100ppm	0-100%LEL	C
Sensor type	Electrochemical Catalyt			Catalytic	F
Measuring type	Diffuse naturally			5	
Response time	T90<30s			E	
Display	LCD screen				F
Audible	≥85dB at Im				C
Alarm method	Visual, audible and vibrative signals			l	
Working temperature	Toxic and Combustible gas: -20°C~50°C,			PC,	A
Working humidity	<95%RH (no condensation)				

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Dimension & weight	120(h) ×68(w) ×30(d)mm ; About 220g
Operating life	≥8h per charge
Housing	Rubber enclosure
Standard accessories	Operation manual, calibration cap, charger
Ex grade	II 2G Ex ia IIC T4 Ga or II 2G Ex db ia IIC T4 Gb
Power supply	DC3.7V, 1800mAh Lithium battery
Charging time	4~6 hours
Ingress protection	IP66
Application	Steelworks, petrochemical plant, oil industry, shipbuilding yard, sewage treatment plant, mine, power supply works, confined spaces etc.



Small and Single button lightweight operation

calibratio