

# Self Contained Breathing Apparatus (SCBA)

## Aplus A6000

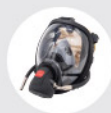
### Aplus A6000

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.



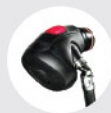
-   
**1. Carbon composite cylinder**
-   
**2. Nomex & Kevlar shoulder straps**
-   
**3. Lightweight and flame retardant buckles**
-   
**4. Flame retardant straps**
-   
**5. Reflective shoulder indicators**
-   
**6. Flame retardant harness**
-   
**7. Stainless steel adjustment pull ring**
-   
**8. Digital gauge with Man-down alarm**
-   
**9. Glow-in-the-dark cylinder for low-light visibility**
-   
**10. Quick connect for fast replacement of cylinders**
-   
**11. Aramid & Kevlar head harness**
-   
**12. HUD device**

## 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.



### 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.

# 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.



### Cylinder Protective Cover

Protect cylinder against wear and tear. Enable cylinder to be in standing position when on standby.

