



APLUS A3000

Self Contained Breathing Apparatus

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.



Benefits

Light, robust and simple to use

APLUS A3000 is our pioneering self-contained breathing apparatus carrying system. With close to a decade of sales, service and overhauling of various makes and models of SCBAs, we have designed A3000 to meet the different specifications required while remains easy to use. The extremely durable impact-resistant and anti-corrosive carrying system feature our one-piece injection molded nylon material.

Suitable for use in all conditions. Easy and quick to don, the lightweight harness has been specially designed to retain its form over a wide range of environmental temperatures and conditions. Utilizing materials which have good chemical and abrasion resistance and meet the heat and flame requirements of EN137:2006 (Type 2) & EN 136:1998 including AC:2003 (Class 3).

Powerful yet simple air supply technology

With our in-depth knowledge of SCBAs, we have applied it into our design when we created our high pressure reducer. Versatile, compact, simple and yet powerful enough to perform when it needs to. The breathing apparatus A3000 enables the wearer to benefit from our years of experience and have a peace of mind knowing your life is in safe hands.

Easy to maintain and service

Quick and uncomplicated to service, A3000 incorporates a number of cleverly designed features to ensure that downtime, and therefore costs, are kept to a minimum during maintenance. All the major components are simple and quick to remove and re-assemble. The harness is attached to the carrying frame by an innovative single-piece retention method. In addition the first stage pressure reducer, integrated into the carrying frame for added protection, can be readily removed.

Options for every eventuality:

- Electronic voice communications (Communications Mask)
- Steel or carbon composite cylinders
- High pressure rapid refill connector
- Cylinder quick connection to reducer
- Secondary supply hose connections for rescue and decontamination (Y-joint)
- External air source connection with dedicated alarm
- Available with electronic LCD gauge and Heads-up display (HUD)

High performing, easy to use and with years of experience, the APLUS A3000 guarantees a lifetime of dependable service whilst at the same time minimizing the costs of ownership.

Benefits

User centric carrying system

Our carrying system follows the natural contours of the body and therefore provides improved stability and reduce back strain, stress and fatigue. The contoured carrying harness provides maximum comfort at both the shoulders and the waist but optimizes load distribution comfortably and securely, in line with the body's centre of gravity. Despite this emphasis on wearing comfort, you can be rest assured that we have not compromised on the choice of materials available, in order to minimize the impact of the most hostile of environments.

Integrated hoses

Both the medium pressure air supply and gauge hoses are integrated into the carrying-frame to reduce the risk of snagging and entanglement, which results in improved security and safety whilst entering and working in confined spaces with the ability to facilitate easy replacement of each hose.

Technical support

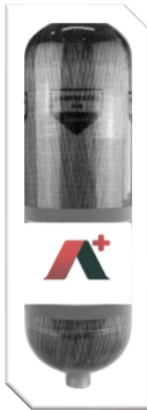
Our SCBA are supported by local service centres capable of fast turnaround and calibration services. Technical specialists are able to provide professional advice and training of the SCBA for different applications. All our specialists are trained and certified by our Corporate office in Singapore.

System components



APLUS A20 Facemask

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.



APLUS 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.



APLUS 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.



APLUS A3000 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.

System components



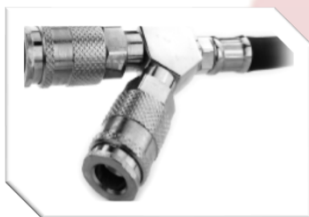
APLUS A3000 Dual reading High Pressure gauge

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.



APLUS A3000 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 Air sharing source

Designed for rapid operation, the Y-joint can additionally connect a mask assembly/escape hood and be used on the same apparatus to supply breathable air for two users.

*2 user Y-joint sold separately

Technical Data

APLUS A3000 SCBA

Weight Kg (backplate & harness)	4.50
Dimensions mm (H xW xD)	580 x310 x170
Input pressure (bar)	0 – 300
Nominal 1st stage output pressure	6 – 9 bar
1st stage output flow (l/min)	> 500
LDV output flow / Exhalation resistance	400L/min / ≤ 10 mBar
Inhalation resistance	≤ 5 mBar
Approved temperature	-30°C to +60°C
Approvals	
Breathing Apparatus	EN 137:2006 Type 2; EC-MED (EU) 2017/306

APLUS A20 Facemask

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	Yes
Available size	Universal
Approvals	
Facemask	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	>90 dB at ear

APLUS Carbon composite 6.8L cylinder

Weight Kg (nett)	3.90
Outer Diameter mm	157
Outside Length mm	530
Air Filling Medium	Breathable Air (EN12021)
Working pressure	300 bar / 4500 Psi
Test pressure	450 bar / 6750 Psi
Thread size	M18x1.5
Maximum Service Life	15 years
Next hydrotest period	3 years
Working Temperature	-30–60 °C

Please note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

Notes



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