



FENZY BREATHING APPARATUS



Sperian Protection > The trusted worldwide source for SCBA & EBA

Sperian Protection design and manufacture a range of SCBA (Self Contained Breathing Apparatus) & EBA (Escape Breathing Apparatus). With more than a century of safety expertise and innovation Sperian are now one of the breathing apparatus business leaders on the market.

Working in close collaboration with fire brigades and industry professionals for many years has allowed us to manufacture reliable, high performance breathing apparatus using the latest advancements in technology.

Stringent standards compliance



™ All Sperian SCBA, Escape Sets and monitoring devices are approved to Australian/New Zealand Standards AS/NZS 1716 : 2003 Lic Number 21516

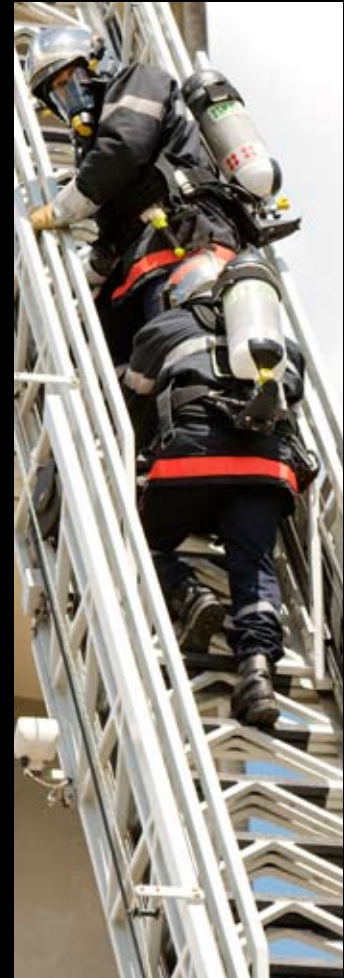
The X-Pro passed the flame engulfment test as per EN 137: 2006 standard.

Product Selection > Your industry covered

Sperian Protection manufacture and design the Fenzy Breathing Apparatus range to protect you from hazardous gases and dangerous atmospheres. From the top of the line Xpro SCBA for fire fighting applications, to the industrial Aeries SCBA or the Bio-S-cape for emergency situations, Sperian have the right BA to suit your needs.

	X-Pro	Aeries	Bio-S-cape
Breweries		●	
Carbon Monoxide		●	
Compliance Set		●	
Confined Space Work		●	●
Emergency Escape			●
Firefighting	●		
Marine Industry		●	●
Military/Police	●	●	
Mining		●	●
Petrochemical Industry	●		●
Pharmaceutical			●
Rescue		●	

*Note – The Bio-S-cape should only be worn in escape situations and should not be used as a replacement for everyday breathing apparatus requirements.



X-Pro > Performance meets comfort and reliability

The unique X-Pro SCBA by Sperian Protection is designed for use under the toughest conditions. Developed by professionals for professionals, the X-Pro is an SCBA tailored specifically to the requirements of firemen.

X-Pro materials are resistant to hostile environments such as extreme temperatures or chemical product ejections, providing unrivalled SCBA endurance and lifespan.



> New "Extreme Comfort" harness concept

Manufactured from anti-static polymeric resin, the Ultra-light X-Pro back plate was designed following research into body movement. It provides even weight distribution and optimum comfort for a wide variety of body shapes.

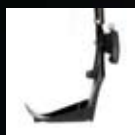


> Two position height adjustment device that adapts to all body sizes



> Back plate swivel follows the movements of the top half of the wearers back

> Articulated waist belt follows the wearer's hip movements for increased comfort



> Movable foot prevents damage from knocks to the cylinder valve and pressure reducer

> Opti-Pro full mask

Unrivalled comfort and full panoramic vision for a view with optimum optical clarity.

> High quality silicone face piece and internal half-mask for optimal comfort and a perfect fit.

> New SX-Pro first breath demand valve

High level breathing comfort and a fast reply time, even with high flow ventilation (positive pressure until 500l/ minute).

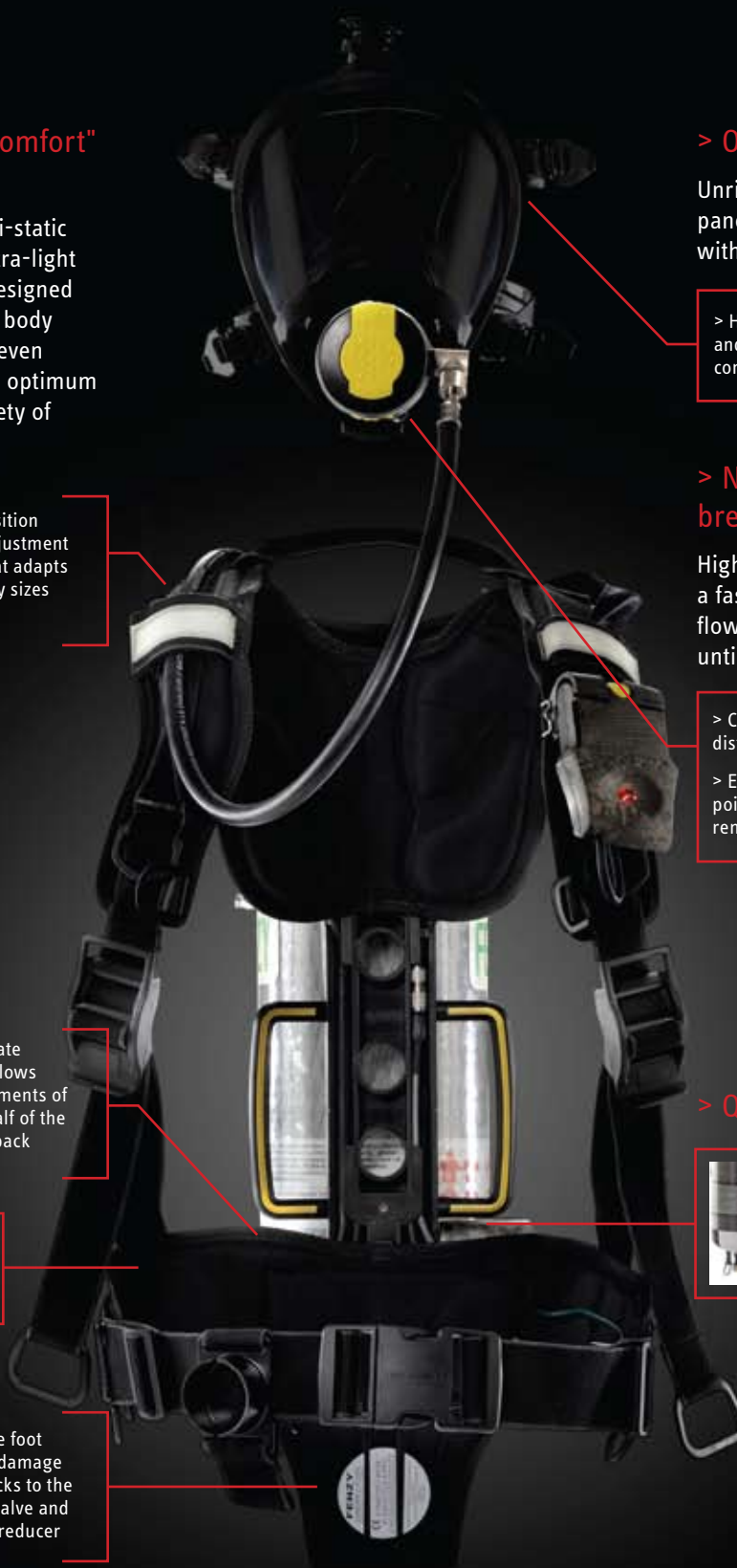
> Compact, ergonomic and does not disturb the field of vision

> Equipped with 2 over sized fixation points for simple connection or removal, even with gloves

> Quick-Fix system



> Quickly transform a single cylinder SCBA into a twin-cylinder SCBA



X-Pro > Technical Data



Total weight of the complete set without cylinder (Kg)	3.9Kg
Pressure (bars)	200 or 300
Outlet pressure of the HP reducer (bars)	7
Maximum flow (litres / min)	>1000 lpm
Activation of the whistle (bars)	55
Power of the pressure gauge whistle (Db)	>95
Frequency of the pressure gauge whistle (Hz)	>3000
Certification temperature range (°C)	-10°C - +60°C
Standards	AS/NZS 1716:2003 Lic 21516

ANGEL 2 > Protection for essential functions

The Angel II is a multifunction monitoring device suitable for use with the X-Pro SCBA.

- > Designed to supply maximum information to allow monitoring of the SCBA and its environment to ensure the safety of the SCBA wearer.
- > Compact and ultra light display device firmly fixed on the shoulder strap, with protected screen and automatic back light
- > Automatic start at the opening of the cylinder
- > Simultaneous digital display of all information including duration, pressure and temperature
- > Warning Alarms: Duration, pressure, motionless ("Man Down Alarm"), low battery and ambient temperature (alerts that temp is above 70°C)
- > Black box: Data recording duration of more than 10 hours

In case the display unit fixed on the straps becomes ineffective, the parameters and alarms are kept in the main unit, meaning all alarms including low air, distress signal, black box etc will continue to work.



Aeris > User-friendly for safety and comfort

The Aeris is a simple, user-friendly apparatus allowing the wearer to breathe safely and comfortably.

Designed for use in all industrial environments, Aeris keeps you safe in toxic or oxygen-deficient (under 19.5%) atmospheres.



> Zenith automatic positive pressure demand valve

Fully automatic positive pressure at the time of connection of the demand valve to the mask.

> No first breath required to operate the demand valve.

> Automatic shut off of air supply at disconnection.

> Full face silicone Biomask

> Polycarbonate lens with anti-scratch and anti-chlorine coatings.

> Equipped with a high performance speech diaphragm.



> Tough flame-resistant backpack design

Molded non-metallic back plate, two large side arms, three carry handles, plus three life line attachment points.

> Flame resistant reflective shoulder straps and fast-adjusting belt buckle. Quick adjustable camlock device secures any type of cylinder.

> High pressure gauge and whistle

Low air warning whistle alert triggered at 55 bar +/- 5 bar.

> Powerful (90dB) whistle, features a fully integrated design with the pressure gauge.

> High pressure gauge with a photo-luminescent screen.

> HP/MP Reducer

> High pressure/medium pressure reducer accepts 200 or 300 bar. Includes a second medium pressure outlet for accessories, rescue or second wearer.

> Swivel mounted to ease cylinder connection of all types of cylinders.

Aeris > Technical Data

Total weight of the complete apparatus without cylinder	4.10 kg
Service-life and pressure	20 to 90 minutes, in 200 or 300 bars
Medium Pressure and maximum flow of the reducer	7,5 bars; >1200 l/min
Maximum LDV pressure in the mask	> 500 l/min
High pressure gauge	0-400 bars, photo-luminescent screen, rubber protection
Consumption and activation of the audible alarm	Air consumption <5 litres; 55 bars
Certification temperature	-10°C/ + 60°C
Standards	AS/NZS 1716 : 2003 Lic 21516, CE0194/0060, Bureau Veritas for Marine use, shipping wheel image, referenced by NATO forces

Bio-S-cape > Ultimate reliability in emergencies

The Bio-S-cape makes emergency escape possible in the event of an accident that results in a toxic or oxygen deficient (less than 19.5%) atmosphere.

Comprises a carry bag, pressure reducer valve with automatic activated air flow, hood with automatic half mask adjustment, warning whistle and option of a 10 or 15 minute cylinder.

This activates when the pressure reducer valve is triggered, which occurs automatically when the carry bag is opened. The air contained in the cylinder is immediately released and a constant flow inflates the hood.

> Triple layer flame-retardant hood

- > Made of a triple layer of brightly coloured, waterproof, and flame retardant material.
- > Synthetic rubber inner half-mask is fully adaptable to all faces. The Integrated inflatable air cushion in the neck performs donning automatically.

> PVC carry bag

- > Strong PVC, orange color, with a quick Velcro® opening
- > Large adjustable neck strap
- > Integrity seal (which is broken when the EBA is started)
- > Large clear window allows users to check the cylinder pressure and the starting needle



Bio-S-cape > Technical Data

Materials	High-pressure brass, nickel-plated and flame retardant hood material
Reducing System	Piston/spring type, built-in safety valve
Starting	Fully automatic triggering device at the opening of bag cover
Working Pressure	200 / 300 bar (HP reducer valve is delivered as standard with a 200 bar connector)
Air Flow	Pre adjusted Air Flow
Pressure Gauge	Constant reading, fixed on the reducer valve, visible at all times
Exhalation Valve	Spring loaded to ensure a slight positive pressure in the hood
Neck Seal	Soft synthetic rubber (non-allergic) to reach perfect tightness and full comfort
Standards	AS/NZS 1716 : 2003 Lic 21516

> Shipping Industry Guidelines

As defined under amendments to the International Convention for the Safety of Life at Sea (SOLAS), the legislation states that EBA should offer supplied air or oxygen for at least 10 minutes and comprise a hood or full face piece which can be carried hands-free. When stored, it should be protected from the environment and provide brief, easy to follow instructions which are clearly visible. Flame resistant and incorporating a clear window for viewing, it should also be able to be carried hands free when inactivated. (Intended purely for escape from a hazardous area, EBA's are not to be used for fighting fires or for entering oxygen deficient voids or tanks.)

The IMO requirements are that all cargo ships carry two EBA's in accommodation spaces and that passenger ships carry at least two EBA's in main vertical zones. For ships carrying more than 36 passengers, two additional emergency escape sets will be required in each main vertical zone.

> Part Numbers

X-Pro

Part Number	Description
1823382	X-Pro SCBA with OptiPro Mask size M
1823365	X-Pro SCBA with OptiPro Mask size M, and Angel II Monitoring Device
1715029	Replacement OptiPro Mask Size M. Suits Xpro SCBA.

Aeris

Part Number	Description
1823364	Aeris SCBA with BIOMASK
1814630	Replacement Biomask. Suits Aeris Marine SCBA.

Bio-S-cape

Part Number	Description
1815741	Bio-S-cape 200 Bar 2 Litre - (empty cylinder) - 10 minutes
1815740	Bio-S-cape 200 Bar 3 Litre - (empty cylinder) - 15 Minutes
1815738	Bio-S-cape 200 bar 2 Litre - (empty cylinder with LAB approvals) - 10 minutes (For use in New Zealand Only)
1815736	Bio-S-cape 200 bar 3 litre - (empty cylinder with LAB approvals) - 15 minutes (For use in New Zealand Only)

Cylinders

- > Proprietary 6061 alloy, a balanced aluminum-magnesium-silicon blend
- > Available in carbon-wrapped and fiberglass-wrapped models
- > Manufactured to Australian/New Zealand standards
- > Corrosion-resistant interior and exterior—unlike corrosion-prone steel cylinders.
- > Lightweight—up to 40 percent lighter than most comparable steel cylinders.
- > Thick, damage-resistant wall

Fibreglass Wrap

L62W	9 Litres	200 Bar	7.7 Kg	157 mm	530 mm
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Carbon Fibre Wrap

L65C	6.8 Litres	300 Bar	3.9 Kg	157 mm	525 mm
L65X	6.9 Litres	300 Bar	3.9 Kg	157 mm	525 mm

*L65X Cylinder has NZ LAB Approvals – For use in New Zealand Only



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