

Centurion Fresh Air Breathing Apparatus

POWERED & UNPOWERED

January 2017



CENTURION®
WHEN CLARITY COUNTS

Centurion Fresh Air Breathing Apparatus

**ALL SYSTEMS ARE APPROVED AND CE CERTIFIED
TO BS EN 138:1994.**

**(BS EN 138 Fresh air hose breathing apparatus for use with full
face mask, half mask or mouthpiece assembly).**

**MANUFACTURED UNDER BS EN ISO 9001 :1994
QUALITY SYSTEM.**

MANUFACTURED IN THETFORD,NORFOLK.UK.

Centurion Fresh Air Breathing Apparatus

The Fresh air system offers :- **Nominal protection factor 2000.**
Assigned Protection factor 40.

(Ref EN 529:2005 Respiratory protective devices- recommendations for selection, use, care and maintenance- guidance document) .

The system is Suitable for use in Oxygen deficient atmospheres.

Why – Because the full face mask makes a leak tight seal around the face.
The whole respiratory system is a sealed system (leak tight).
Only air from an uncontaminated area is breathed.

CENTURION FRESH AIR BREATHING APPARTUS

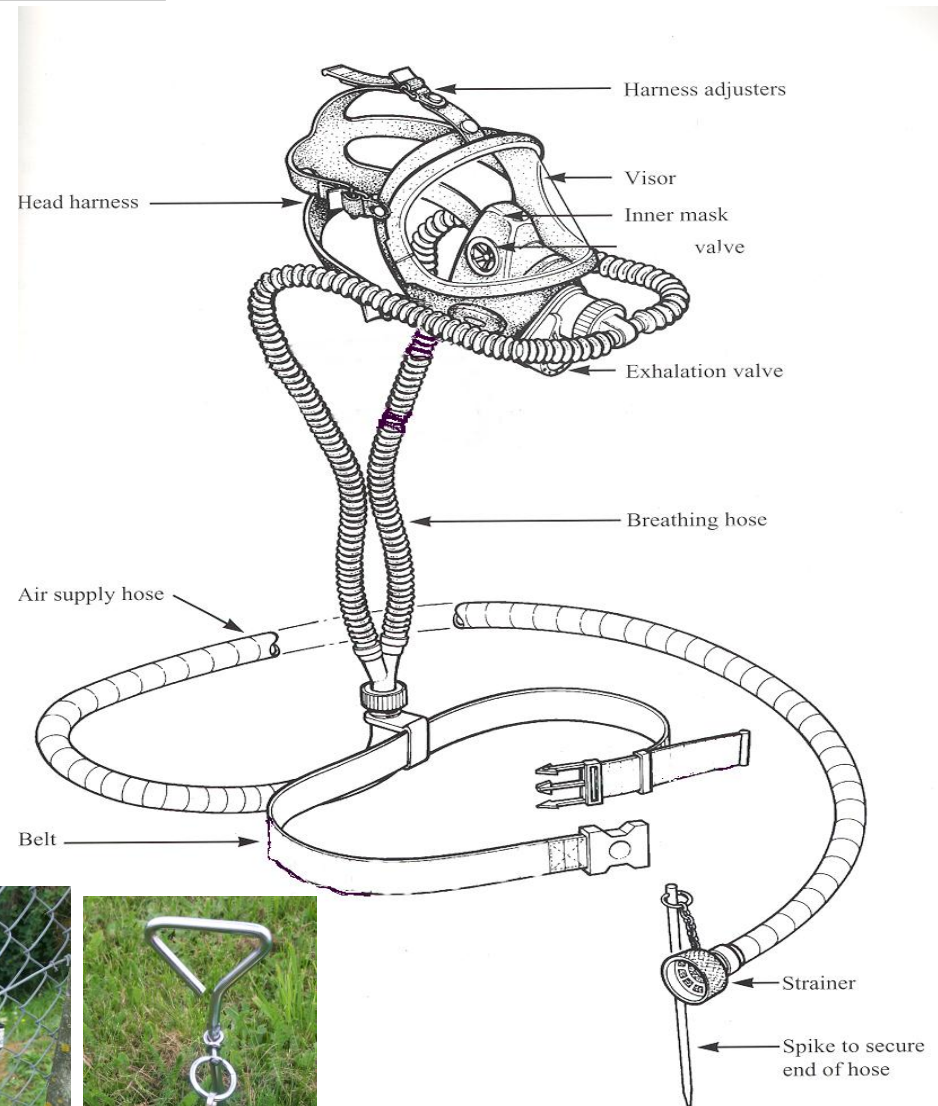
Unpowered Mode

Negative pressure (Lung power)

Unassisted fresh air system

Principle of operation

- Clean uncontaminated air is drawn in via the Air supply hose, the hose has a strainer on the end of it which is secured off the ground via a spike.
- The air supply hose is secured to the bottom inlet of the belt bracket which is worn around the waist.
- The twin air hose is secured to the top outlet of the belt bracket.
- The twin air hose worn over the shoulders is then connected to the full facemask.
- The full face mask makes a leak tight seal on the face.
- Maximum length of hose 20m



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The Unpowered system consists of :-

- Full-face mask (Silicone) and twin air hose (Without O/F valve assembly).
- Belt with hose coupling (Complete with comfort pad).
- 9 metre hose assembly (max 20m).
- Strainer and anchor pin assembly.
- Plastic protective storage case.
- Instructions for use.
- Record card.
- Spare visor protective cover.
- Spare cleaning wipe.



The above is also available with a twin air hose with O/F valve assembly which can be used in a Powered or Unpowered mode.

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The Powered system consists of :-

- Full-face mask (Silicone) and twin air hose (With O/F valve assembly).
- Belt with hose coupling (Complete with comfort pad).
- 10 metre hose assembly(max 40m).
- Lightweight turbine
- Plastic protective storage case.
- Instructions for use.
- Record card.
- Hi-Vis Full face mask storage bag.
- Spare cleaning wipe.

Hose lengths available
9,10,20,30 or 40m.

Connected together
Via adaptor



Centurion Fresh Air Breathing Apparatus

Silicone full face mask

- Radiant heat resistant Class 3 (EN136)
- Ultra-comfortable for extended wear use.
- Polycarbonate Visor with Anti - Mist and Anti -scratch coating.
- Wide viewing area.
- Impact protection.
- Prescription spectacles available
- Easy maintenance.



Centurion Fresh Air Breathing Apparatus

Light weight Turbine

- **Three types available**

240 volts AC 50hz UK plug

220volts AC 50hz Euro plug

110 volts AC 50hz (UK 110v safety transformer type).

- Enclosure protection rating IP 54.

- 1 or 2 man operation.

- Rugged steel construction.

- User adjustable air flow control.

- Low maintenance.

- Portable (7Kg)..

- EMC & low voltage directive compliant.

- Internal coarse dust filter.



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Applications for Fresh air breathing apparatus

Practical areas of use:-

- *Chambers*
- *Tanks*
- *Silos*
- *Vats*
- *Pits*
- *Trenches*
- *Sewers*
- *Drains*
- *Flues*
- *Ductwork*
- *Tunnels*
- *Unventilated or Poorly ventilated rooms*

Industrial areas of use:-

- *Welding*
- *Construction.*
- *Demolition.*
- *Petrochemicals.*
- *Sewage & Waste treatment.*
- *Agriculture.*
- *Spraying/coating.*
- *Ships*
- *Tank cleaning*
- *Grain storage*

Centurion Fresh Air Breathing Apparatus

Training/maintenance/storage

- Users must have adequate training and be assessed as competent (*training records shall be retained*).
- Users must be Physically fit.
- Clean shaven.
- Equipment must be safely stored (*storage case & Bag*).
- Equipment shall be maintained and inspected (*Pre-use, Post use inspection & Monthly inspection*).
- Equipment shall be regularly serviced by an Centurion approved service agent or by a Centurion approved end user's service centre. (Minimum service period 12months).

Centurion Fresh Air Breathing Apparatus

Advantages of Fresh air Breathing apparatus over back pack mounted cylinders or compressed air line fed systems.

- No heavy cylinders worn on back.
(*Typical steel cylinder & harness 8kgs*)
- No limitation on time in contaminated area
(*max time of cylinder duration (60mins – 8mins) =52min*).
- No re-charging of empty cylinders
(*Re-charge approx £15*)
- No breathing of very dry compressed cylinder air.
- No emergency breathing apparatus is required in the event of a failure when using a turbine.

