

Stealth Closed Circuit



Considered to be the benchmark in state-of-the-art Mine Countermeasures Explosive Ordnance Disposal (MCM EOD) underwater life support technology, Stealth Closed Circuit (CC) offers increased levels of diver safety, equipment reliability, maintainability and availability together with operational capability and mission versatility.

Being electronically controlled, Stealth CC may be used for MCM-EOD operations to a depth of 54msw using an air diluent gas or to a depth of 100msw using a heliox or trimix diluent. Stealth CC has an extensive track record in a range of operational and environmental conditions globally from the arctic to the tropics.

Following competitive evaluations by independent government defence evaluation agencies and end user organisations, Stealth Closed Circuit is now in service with numerous prominent navies.

PRINCIPLES OF OPERATION

Using three independent oxygen sensors, Stealth Closed Circuit's control system rapidly and accurately responds to changes in life support system status.

A diluent gas (air, heliox or trimix) provides gas volume within the closed-circuit primary breathing system, whilst carbon dioxide (CO₂) from exhaled gas is absorbed by the scrubber unit.



NON-MAGNETIC & LOW ACOUSTIC

Stealth Closed Circuit fully meets the requirements of AEODP-7 Class A (STANAG 2897) under both static and dynamic test conditions in all attitudes and for all components that may come into contact with magnetically sensitive ordnance.

Stealth Closed Circuit surpasses the low acoustic test requirements of NATO STANAG AMP15. Stealth Closed Circuit functions by analysing the breathing gas and through the automatic addition of 100% oxygen, the partial pressure of oxygen (PO₂) is accurately maintained at a pre-set level dependent upon the depth.

SPECIFICATION

Height	587mm
Width	375mm
Depth	170mm
Weight	19kg

PERFORMANCE

Maximum depth (m)	100*
Canister duration (hrs)	3 - 4**
Storage temperature	-30°C to +70°C
Air temperature operation	-20°C to +50°C
Sea temperature operation	-2°C to +38°C
Fresh water temperature operation	+1°C to +38°C
Pressure (non-magnetic class A composite cylinders)	300 bar

* Dependent upon local oxygen exposure limitations

** Dependent upon diver work-rate and water temperature

FEATURES

- Fully closed circuit
- Front mounted counterlungs
- Downloadable dive log
- Rechargeable main and reserve battery - long life
- Sealed electronics unit
- Water tolerant breathing circuit and water dump systems
- Oxygen sensors and circuits protected from moisture
- Backlit LCD hand display showing essential dive data
- High pressure DIN fittings
- Three independent oxygen sensors
- Automatic "bad sensor" removal and advanced oxygen sensor voting logic