Stealth Semi Closed Circuit

Stealth Semi Closed Circuit is a product of the highly successful and operationally proven range of Stealth Underwater Breathing Apparatus (UBA).

Gas is stored in a back mounted twin 2 litre cylinder assembly, which is monitored by a pressure gauge and is supplied to the breathing circuit via an adjustable constant mass flow.

The primary breathing system can be supported by a supplementary 3 litre cylinder for deeper diving or dives requiring a higher flow rate. A further 3 litre cylinder can provide an independent on-board bailout facility. The gas manifold within the set allows for all cylinders to supply bailout gas providing an extra level of safety for the diver.

Stealth Semi Closed Circuit is the ideal cost effective apparatus for a range of specialist diving operations where simplicity, ease of use and ruggedness are a necessity. Should an extended endurance be required, the twin cylinder assembly may be charged to 300 bar. This extended endurance is matched by the carbon dioxide (CO_2) scrubber canister, which is based on the field proven Stealth UBA.

(CMF) METERING VALVE

Additionally, gas is also supplied to a demand valve that automatically provides counterlung volume during descent, whilst serving as a manual gas addition (bypass) valve.

EXTERNAL BREATHING SYSTEM

The External Breathing System (XBS) has been designed for use with Stealth Semi Closed Circuit to provide an alternative source of breathing gas in event of an emergency situation during decompression diving operations or a supply of oxygen for in-water oxygen decompression stops.

The XBS is housed in a lightweight moulded plastic case containing two lightweight 9 litre 200 bar composite low magnetic cylinders. Each cylinder has an independent shut off valve, contents gauge, first stage reducer and safety relief valve. Both first stage reducers supply medium pressure gas to a switch over block enabling the diver to switch between cylinders.

Due to its low magnetic design the XBS may be in place in the vicinity of the diver during MCM EOD operations.

SPECIFICATION

Height	500mm
Width	365mm
Depth	150mm
Weight	15kg

PERFORMANCE

Maximum depth (m)	60*
Canister duration (h)	3 - 4**
Air temperature operation	-20°C to +49°C
Sea temperature operation	-1°C to 37°C
Fresh water temperature operation	+1°C to 37°C
Pressure	300 bar

* Dependent upon local oxygen exposure limitations
** Dependent upon diver work-rate and water temperature

FEATURES

- Breathing performance to UK HSE/EN standards
- Non-magnetic to NATO STANAG 2897 A/AEODP-7
- Low acoustic
- Integrated oxygen partial pressure (PO_2) monitor and decompression computer
- Scrubber capacity 3.5kgs (molecular products sofnolime 797 grade)