

Manufacturers of Quality Diving Equipment



SHADOW EXCURSION is a combined Closed Circuit Oxygen (CC O_2)/Semi Closed Circuit (SCC) nitrox Underwater Breathing Apparatus (UBA) that integrates a diver controlled gas supply change over facility enabling diving to 24 msw.

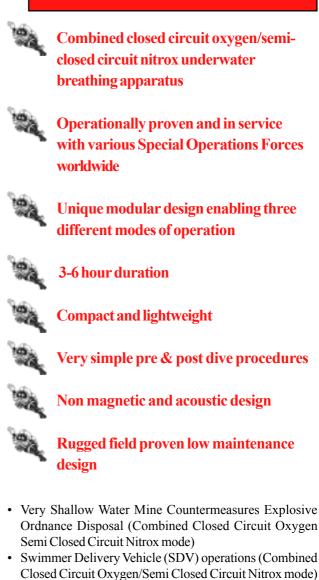
Increased Operational Versatility: The unique design of Shadow Excursion offers significant increases in operational versatility. To meet different mission requirements, within minutes the diver may quickly reconfigure Shadow Excursion to either of the following modes of operation:

- Closed Circuit Oxygen
- Semi Closed Circuit Nitrox to a depth of 54msw
- Combined Closed Circuit Oxygen/Semi Closed Circuit Nitrox to a depth of 24msw

As a result of this unique versatility, Shadow Excursion may be employed in the following operationally profiles:

- Combat diving operations (Closed Circuit Oxygen mode)
- Combat diving operations below the safe depth of Oxygen (Combined Closed Circuit Oxygen/Semi Closed Circuit Nitrox mode)

SHADOW EXCURSION



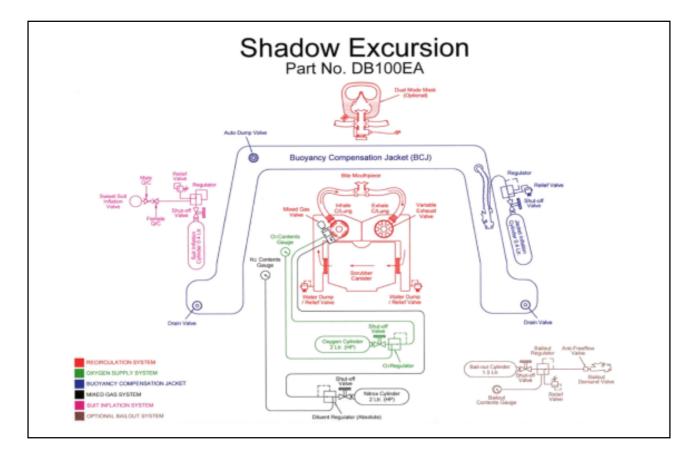
• Submarine Exit and Re-Entry Casing Diving (Semi Closed Circuit Nitrox mode)

Principle of Operation: When in oxygen mode, oxygen is supplied via the automatic demand valve, which also serves as a manual bypass facility. When in nitrox mode, a constant mass flow orifice supplies nitrox to the breathing circuit together with the automatic demand valve, which provides adequate counterlung gas volume during descent and a manual bypass facility. The standard 200 bar, 2 litre oxygen cylinder is augmented with an additional 200 bar 2 litre nitrox (60%O₂/40%N₂). Both the oxygen and nitrox cylinder pressures may be monitored by easily accessible pressure gauges.

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Performance: The O_2 endurance exceeds 3 hours with a charge pressure of 200 Bar assuming a VO2 of 1.78 lmin (40 RMV). The nitrox endurance is 60 minutes at a constant mass flow rate of 6 lmin when charged to 200 Bar. The CO_2 scrubber is a long endurance canister design based on the field proven Stealth Closed Circuit Mixed Gas Underwater

Breathing Apparatus providing extended endurance that out performs the oxygen supply. This increased performance has not resulted in an increase in size or weight when compared to other systems on the market. This has been achieved through careful design and the use of modern, high technology, lightweight materials that provide strength and ruggedness.



TECHNICAL DATA Depth Oxygen Mode to maximum safe depth limitations Depth Nitrox Mode 0-24 msw (upgrade to 54msw) Nitrox 60% Oxygen / 40% Nitrogen Nitrox Flow Rate 61min

Weight	14 kgs in air complete with
	buoyancy control jacket
Work of Breathing	Exceeds international standards
Oxygen System	Automatic demand with manual
	bypass
Nitrox System	Constant mass flow orifice
Change Over Valve	Multi-turn actuated spool valve
	with visual/tactile indicator
Non Magnetic	to NATO standards
Low Acoustic	to NATO standards
Scrubber Canister	3.5 kgs double skin carbon fibre

ACCESSORIES

- Transport case
- Stealth Full Face Dual Mode Mask (DMM)
- Open circuit quick connect bailout hose for use with the DMM
- Buoyancy Compensation Jacket with oral inflation and direct HP or LP inflation
- Divex Digicom 3000m Diver Through Water Communications
 System
- · Diver Tool and Test Kit
- Maintenance Tool and Test Kit
- · Spares package to suit customer requirements
- · Oxygen mode accessories
- · Semi closed circuit mode accessories



Enterprise Drive, Westhill Industrial Estate, Westhill, Aberdeen, AB32 6TQ, UK Tel: + 44 (0) 1224 740145 Fax: + 44 (0) 1224 740172 E-MAIL: info@divex.co.uk Web Site: www.divex.co.uk