

OXYMIX 3C

CLOSED & SEMI-CLOSED CIRCUIT



Front Unit

OPERATIONAL PRINCIPLE

The OxyMix breathing apparatus operates on the demand principle. The oxygen consumed, or the mixture expelled by the semi-closed circuit (depending on the mode selected) is automatically replaced when, due to the drop in the volume of gas in the circuit, the upper plate of the breathing bag presses on the 2nd stage lever.

The correct circulation of gas is assured by the use of two non-return valves. All expired gas passes through an absorbent cartridge and 100% of the carbon dioxide (CO₂) is eliminated.

When the apparatus is operating in semi-closed circuit, the composition of the gas breathed by the diver at different depths is practically independent of the diver and the work that he performs. This is achieved by expelling from the circuit a certain volume of gas in proportion to the breathing rate. The mixture breathed is hence extremely stable.

SPECIFICATION

Weight :

Chest unit : 9 kg plus 2 kg of soda lime
X1 back unit : 11 kg plus 1.5 kg of gas
3C back unit: 11.5 kg plus 1.5 kg of gas

Dimensions :

Chest unit : 430 mm x 370 mm X 150 mm
X1 back unit: 510 mm x 380 mm X 170 mm
3C back unit: 580 mm x 390 mm X 200 mm



Gas Supply

Construction :

Non-magnetic material. The only parts that are not non-magnetic are the Staubli connectors. If considered necessary, a non-magnetic version can be offered on special order.

DESCRIPTION

The OxyMix system is made up of two units, chest and back mounted. The chest unit is common and represents the breathing apparatus. The back unit is available in two versions:

- X1 version for a limited duration based on a submersible carrying an on-board supply. It consists of 4 cylinders of 0.6 litres.
- 3C for a dive of longer duration. It consists of 3 cylinders of 2.0 litres.



Chest Mounted