



SOFT SHIELD WITH FASTENING SYSTEM

The soft shield contains the breathing bag equipped with the hose connector and hoses, protecting the breathing bag against tearing and abrasions caused by rocks and sharp objects and improving its hydrodynamic fineness ratio. It is made with high resistance cordura fabric, padded with plastic material. It is equipped with a fastening system to make fast various bag and tool for tactical operations.



CAIMANO Mk4 CDV

CLOSED CIRCUIT BREATHING APPARATUS
(NSN: 151812704)

OMG Caimano Mk4 CDV is the latest generation oxygen closed circuit rebreather designed for Special Forces and Combat Divers.

Caimano Mk4 CDV is the first apparatus in the world that exceeds extreme tactical requirements:

- Ultra-Low Profile
- Light Weight
- Very Small Dimensions (compact)
- Long Duration and Operating Range
- Extremely Low Work of Breathing
- Stealth, Ultra-Quiet Operation
- Low Magnetic Signature
- Low Acoustic Signature
- No Tools Required for Setup and Operation

The best characteristic of this underwater breathing apparatus is a new system to inject oxygen into the breathing bag.

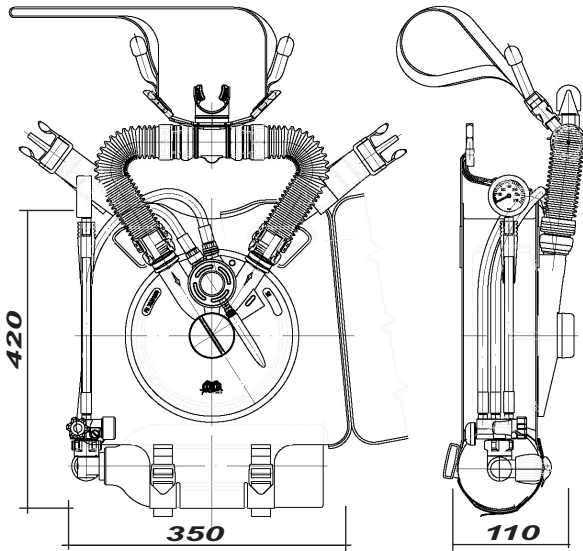
Caimano Mk4 CDV is equipped with a finest on-demand valve which inject oxygen directly into the breathing bag in order to have the hand free during all dive duration.

When it's necessary to exclude the demand valve (to surface, etc.) a precise switch permit to operate only manually on the gas injection. This function permit to have total buoyancy control.

This double system satisfies the requirements of military tactical activities.



CAIMANO
Mk4 CDV
CLOSED CIRCUIT BREATHING APPARATUS
(NSN:151812704)



Model	Caimano Mk4 CDV
Produced by:	O.M.G. La Spezia, Italy
Order number:	AMOV-AM-02
Type of apparatus:	ventral with soft shield
Working principles:	closed circuit
Oxygen injection system:	manual and/or automatic
Specifications of the gas:	oxygen, at least 99,5 Vol% O ₂
Breathing bag:	
Capacity:	moveable capacity, ~ 8,5 litres
Material:	atoxic polyurethane
Filter:	
Type:	radial
CO ₂ absorbent:	soda lime
Capacity:	2.050 kg (4.52 lbs)
Cylinder:	
Capacity:	1.5 litres
Maximum pressure:	232 bar
Material:	alluminium alloy
Dive time duration:	up to 4 hours
Storage temperature:	-30°C + 70°C
Operating temperature:	-2°C + 40°C
Magnetic signature:	low magnetic*
Maximum operating depth:	7m or in accordance with local regulation about diving with pure oxygen (no technical limitation)
Weight (ready to use):	
In air:	8.4 kg
Immersed:	neutral, breathing bag filled with approx. 2,5 litres of oxygen

*available in accordance with STANAG 2897 class "A"

**Colours available: W=woodland / N=black

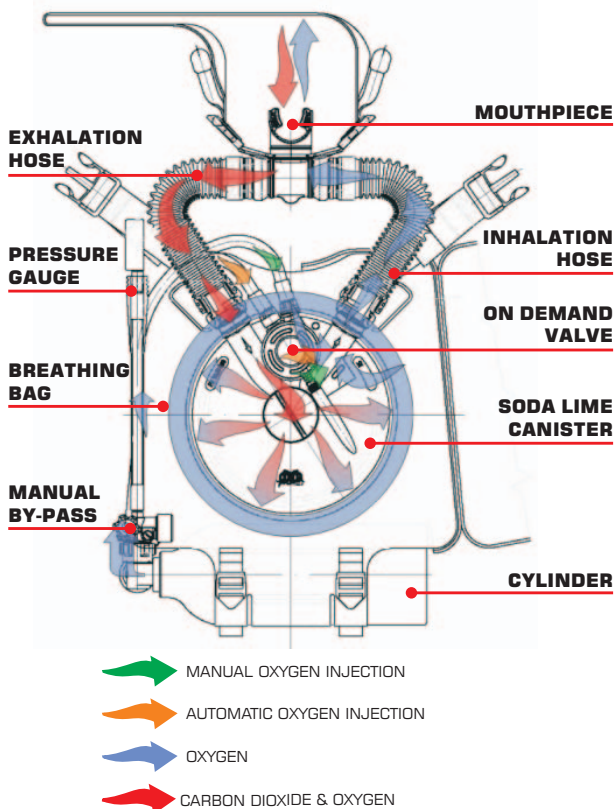
Standard Apparatus Parts Description:

Order number: **AMOV-AM-021 (W/N)**** (NSN:151812704)

Soft shield
Boucle Belt
Waist Belt
Cross Belt
Tactical knapsack
Technical manual

Order number:

Jacket:	
JMU-I-02	Jacket JackCol.Woodland
JMU-BC-02	BC JacketShark
ZAV100	Ballast 1 kg per piece
ZAV101	Ballast 0.5 kg per piece
CSM-B-01	Ballast carriage bag
Maintenance:	
KIT013	Ordinary maintenance kit
SET012	Set O-ring
Carriage container:	
CMR-E-01	Storage and carriage container
CMM-B-01	Storage and carriage bag
Accessories:	
CMM-S-01	Tactical Holder





The radial filter ensures full oxygen purification from carbon dioxide as well as an effective steam condensation due to breathing and carbon dioxide fixing reaction.

The self-breathing apparatus is capable of using all standard NATO NITROX mix types with composition ranging between 32 and 60% oxygen.

This particular characteristic of Mk4 CSC make possible to select the properties Nitrox-mix types to reach different depths.

CAIMANO **Mk4 CSC** CLOSED AND SEMICLOSED CIRCUIT BREATHING APPARATUS

The self-breathing apparatus Mk4 CSC comes from an extensive know-how in the field of submarine activities - both offensive and defensive. This closed and semi-closed circuit apparatus enables the operator (by a simple maneuver that can be effected also under water) breathing pure oxygen or a mix of oxygen and nitrogen.

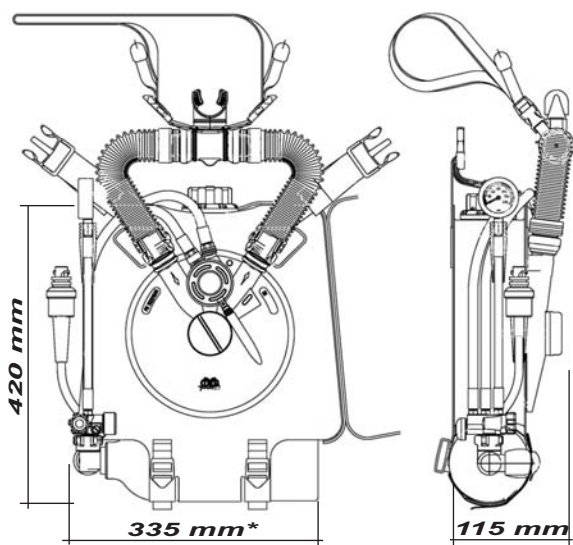
Mk4 CSC is fitted with a soft shield housing a new design high-capacity breathing bag (made up of non-toxic soft material) ensuring a great breathing ease, that is required to comfortably operate under water for long periods.

Since the system operates in a closed-circuit (i.e., it uses pure oxygen) the gas can be dispensed both automatically and manually. In this case the oxygen admission to the plenum bag is done by the operator who actuates a by-pass valve. This solution proves to be very useful when making tactical approaches to targets, since it allows to

adjust the swimmer hydrostatic balance as needed for going afloat or carrying out emergency maneuvers.

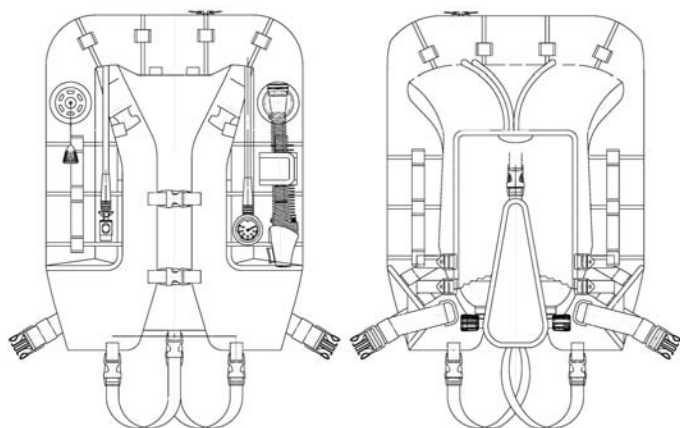


FRONT UNIT



**280 mm on the arms thanks to soft shield*

BACK UNIT



Part number:	AMMV-AM-012
Working principle:	Cyclic, closed with oxygen Cyclic, semi closed with NITROX
Breathing gas:	100% Oxygen and NATO premixed nitrox mixture
Oxygen cylinder:	
Capacity:	1,5 litres/aluminium
Max Pressure:	232 bar
Nitrox cylinders	
Capacity:	2 x 1,5 litres/aluminium
Max Pressure:	232 bar
Breathing bag:	
Volume:	~8.5lt (adjustable)
Canister:	
CO ₂ absorbent:	sodalime
Capacity:	2.2 Kg
Duration:	Oxygen: about 4 hours Nitrox: in accordance with NITROX mixture type
Operating Temp:	From -2°C to +55°C
Magnetic sign.:	Low magnetic
Maximum depth:	
Oxygen:	7m or in accordance with local Regulation about diving with oxygen (no technical limitation)
pure	
Nitrox:	in accordance with NITROX mixture type (max. 54m / 177 ft)
Weight ready to use:	ventral apparatus - 13,5 kg BC Jacket w/cylinders - 10 kg Neutral in sea water

Standard Configuration Apparatus Parts Description:

Order code: AMMV-AM-012

Include:

AMMV-AM-01	Rebreather
JMU-BC-06	BC Shark
CMR-E-02	Storage container
MTUM-MK4-CSC	User manual

Accessories:

KIT047	Pre-dive check unit
KIT050	Ordinary maintenance kit oxygen unit
KIT051	Ordinary maintenance kit BC Shark
SET019	O-ring set oxygen unit
SET020	O-ring set BC Shark
IMA-UW-011	Underwater PpO ₂ Meter



Main characteristics:

Maximum ease of respiration due to width of the sections gas passages

Filter with high capacity, for total absorption of carbon dioxide produced from breathing

High capacity, aluminium alloy oxygen cylinder.

Protection of the vital parts ensured by a rigid shield

Low drag to advancement in water

On demand regulator or manual supply (bypass valve) delivery to maximise the diver balance and ease of breathing.

CAIMANO C.R.A. **CLOSED CIRCUIT UBA**

Caimano C.R.A. is designed and manufactured using non magnetic material in accordance with the STANAG 2897 requirements, is the result of much experience in the field of military diving activities.

The oxygen breathing apparatus Caimano C.R.A. was designed and produced exclusively for military use and satisfies tactical requisites typical of such military operations, such as autonomy, noiseless operations and versatility. Tests made over the years confirm that the breathing apparatus guarantees a high level of reliability, strength, simplicity, operational safety and ease of maintenance, characteristics which make it ideal for both offensive and defensive actions carried out by military Diving Units.

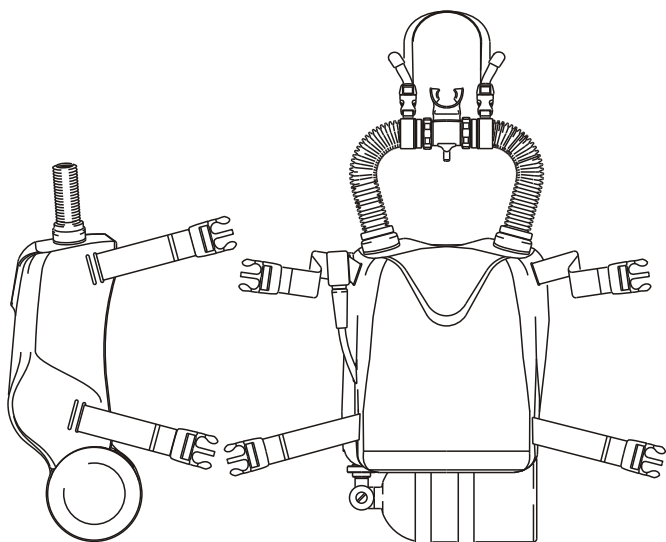
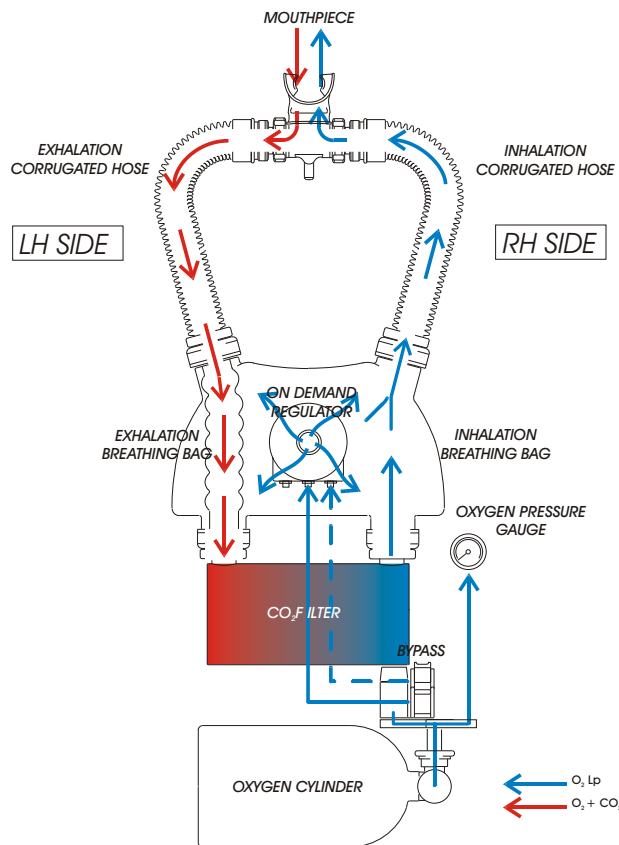
The breathing apparatus can be both put on and taken off easily and quickly.

The special rigid shield, in composite material, is the state of the art, using not deformable material with high resistance to the impact and

to the strong temperature variations. In other it's very light and comfortable for the diver.

The CRA Caimano has got a special rescue jacket called SHARK supplied as equipment and many accessory for the diving activity..





CAIMANO C.R.A. CLOSED CIRCUIT UBA

Part nr:	AMOV_AR_01
Type:	Ventral with rigid shield
Working principles:	Closed circuit
Gas injection:	Manual and on demand
Specifications of the gas:	Pure oxygen
Cylinder:	
Capacity:	1.9 litres
Maximum pressure:	207 bar
Material:	Aluminium alloy
Breathing bag:	Inspiration bag 6.5litres Expiration bag 0.5 litres
Carbon dioxide absorbent:	Soda lime
Soda lime canister capacity:	2 kg
Dive time duration:	Up to 4 hours
Operating temperature:	From -2°C to +55°C
Magnetic signature:	Low magnetic
Maximum operating depth:	12 meters (Italian Navy Regulation)
Weight ready to use:	9.8 kg in air Neutral in sea water

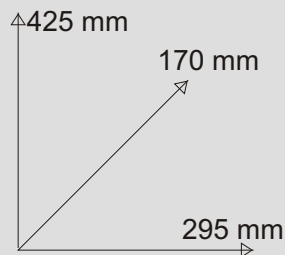
Standard Apparatus Parts Description:
Order Number: AMOV-AR-01-01

Boucle Belt
Waist Belt
Stowing bag
Technical manual

Accessories:

JMU-I-02	Jacket Jack
JMU-BC-02	Jacket Shark
KIT01600	Ordinary maintenance kit
SET01400	Set O-ring
CMR-E-01	Storage and carriage Container
CMM-Z-01	Tactical Holder
ZAV10000	Ballast 1 kg per piece
ZAV10100	Ballast 0.5 kg per piece
CSM-B-01	Ballast carriage bag

STANAG CERTIFICATION AVAILABLE



- CAIMANO C.R.A. Dimensions -

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The radial filter ensures full oxygen purification from carbon dioxide as well as an effective steam condensation due to breathing and carbon dioxide fixing reaction.

The filter container is made of brass, completely coated with protective rubber.

The self-breathing apparatus is capable of using all the NITROX mix types with composition ranging between 32 and 60% oxygen.

This particular characteristic of Caimano Aromix make possible to select the properties Nitrox-mix types to reach different depths

CAIMANO AROMIX

CLOSED AND SEMI-CLOSED CIRCUIT UBA

The self-breathing apparatus CAIMANO AROMIX, designed and built with non-magnetic materials according with the 2897 STANAG Standards, comes from an extensive know-how in the field of submarine activities - both offensive and defensive. This closed and semi-closed circuit apparatus enables the operator (by a simple maneuver that can be effected also under water) breathing pure oxygen or a mix of oxygen and nitrogen.

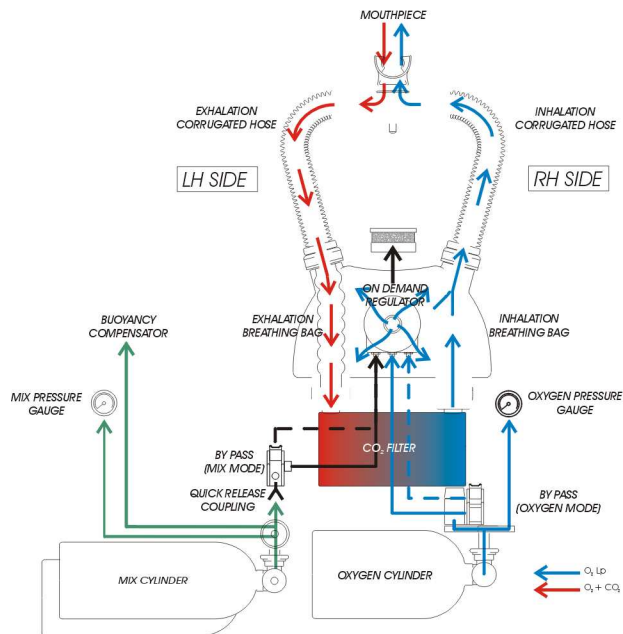
AROMIX is fitted with a rigid shell housing a new design high-capacity breathing bag (made up of non-toxic soft material) ensuring a great breathing ease, that is required to comfortably operate under water for long periods.

Since the system operates in a closed-circuit (i.e., it uses pure oxygen) the gas can be dispensed both automatically and manually. In this case the oxygen admission to the plenum bag is done by the operator who actuates a by-pass valve. This solution proves to be very useful when making tactical approaches to targets, since it allows to adjust the swimmer hydrostatic balance as needed for going afloat or carrying out emergency maneuvers.



CAIMANO AROMIX

CLOSED AND SEMI-CLOSED CIRCUIT UBA



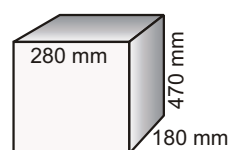
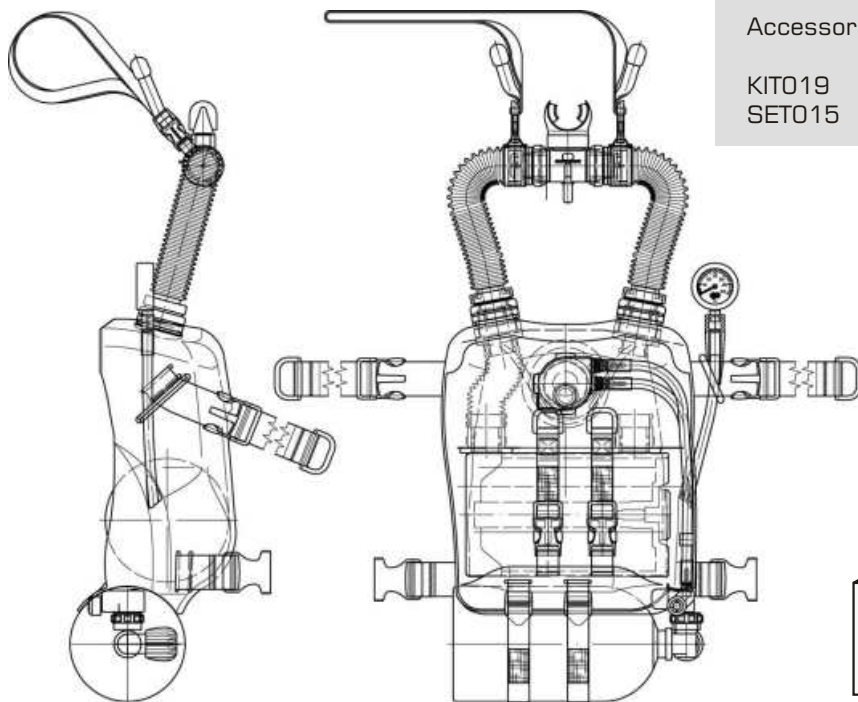
Part number:	AMMV-AR-01
Working principle:	Cyclic, closed with oxygen Cyclic, semi closed with NITROX
Breathing gas:	Pure Oxygen All Nitrox mixture from 32% to 60%
Oxygen cylinder:	
Capacity:	1,9 litres/aluminium
Max Pressure:	207 bar
NITROX cylinders	2 x 1,5 litres/aluminium
Breathing bag:	Inhalation: 6,5 litres Exhalation: 0,5 litres
CO ₂ absorbent:	Sodalime
Canister Capacity:	About 2 Kg
Duration:	Oxygen: About 4 hours Nitrox: in accordance with NITROX mixture type
Operating Temp:	From -2°C to +55°C
Magnetic sign.:	Low magnetic
Maximum depth:	oxygen: 12 meters (I N Regulation) NITROX: in accordance with NITROX mixture type
Weight ready to use:	ventral apparatus - 11,8 kg Jacket with cylinders - 10 kg Neutral in sea water

Standard Apparatus Parts Description:

Order code:	AMMV-AR-01-01
AMMV-AR-01	Rebreather (aluminium cylinder 1.9 litres)
JMU-BC-01	BC Shark
CMR-E-02	Storage container
	Technical manual

Accessories:

KIT019	Ordinary maintenance kit
SET015	O-ring set



- CAIMANO AROMIX Dimensions -



The main features:

Combat design; non noise and bubbles to improve diver stealth capability;

New compact design for smaller drag in water and combat readiness on land;

Maximum breathing smoothness provided by extra wide gas passage section;

Radial soda lime canister for complete CO₂ absorbing;

Built with new generation materials;

No tools required for refilling and field maintenance;

Emergency buoyancy possibility.

CAIMANO C.M.I.



The latest innovative project by O.M.G. Is CAIMANO C.M.I., A rebreather of dorsal kind essentially made to be used on underwater vehicles and for mine sweeping operations. The apparatus boasts a reduced magnetic content thanks to use of special materials and to an aluminium cylinder of big capacity. The innovative system of gas supply, both manual and automatic allows the operator to cope with any operative situation in good time. Moreover, the lack of bulky object in the ventral part allows to act manually at ease.

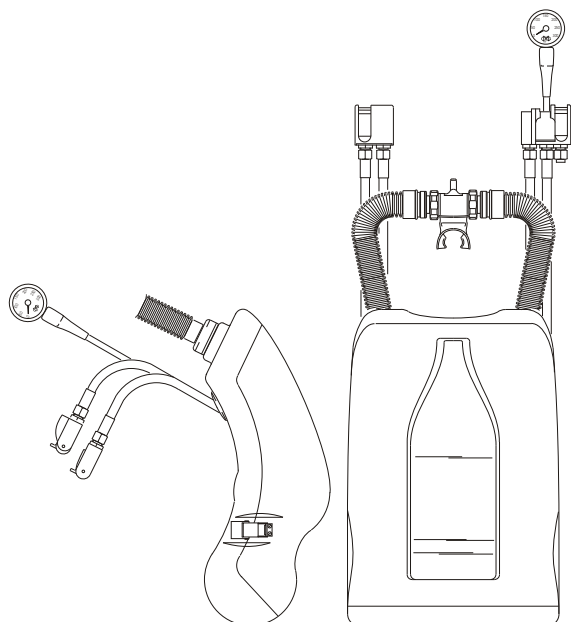
The presence of two breathing bags of different cubature ensures easiness of breathing, necessary to operate comfortably during long-lasting diving.

FILTER

An innovative filter of radial kind ensures a total purification of the oxygen and an effective condensation of the water vapour due to breathing and to the Co₂ fixing chemicals reactions.

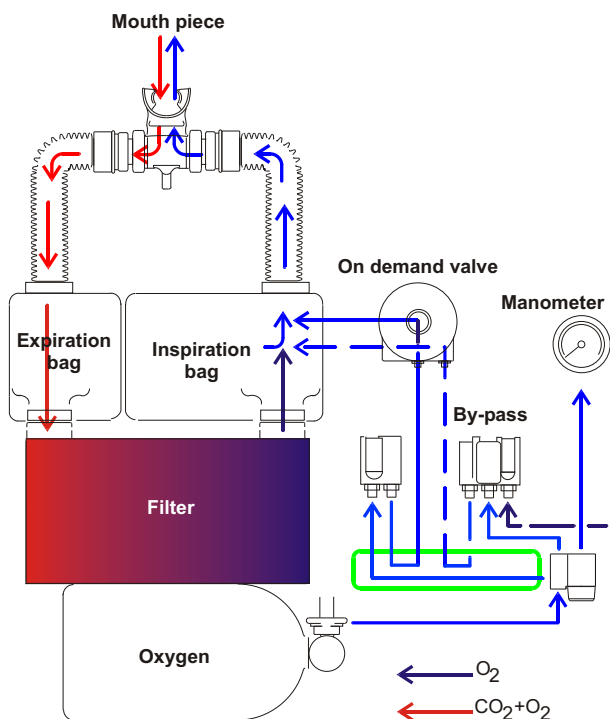
A special life jscket is equipped with CAIMANO C.M.I.; The jacket is supplied with a removable ballasting system and with a series of pockets meant to hold the underwater communication system "seacom 2000", wich can be used together with the full face mask diver.





CAIMANO C.M.I.

Part nr:	AMOD-AR-01
Type of apparatus:	Dorsal with rigid shield
Working principles:	closed circuit
Gas injection:	manual and on demand
Specifications of the gas:	pure oxygen
Cylinder:	
Capacity:	1.9 litres
Maximum pressure:	207 bar
Material:	alluminium alloy
Breathing bag:	inspiration 8 litres expiration 4 litres
Carbon dioxide absorbent:	soda lime
Soda lime canister capacity:	2,0 kg
Dive time duration:	up to 4 hours
Operating temperature:	from -2°C to +55°C
Magnetic signature:	low magnetic
Flotation push:	14 kg
Maximum operating depth:	12 m
Weight ready to use:	about 10.4 kg in air neutral in sea water



Standard Apparatus Parts Description:

ORDER CODE: AMOD-AR-01-01
 Rebreather (Aluminium cylinder 1,9 lt)
 Jacket with buoyancy compensator
 Technical Manual
 Storage and Carriage Container

Accessories:

IMM-FM-01	Full Face Mask Mod. Oxycom
ZAV100	Ballast 1 Kg per piece
ZAV101	Ballast 0,5 Kg per piece
CSM-B-01	Ballast Carriage Bag



The main features of RDN 2000

The shield, which allows a balanced trim in any position, comes from precise studies on the positioning of all the components for an optimum weight distributions.

Maximum breathing smoothness due to extra wide gas passages and to optimal volume of the breathing bags.

High capacity filter (radial type) in order to ensure the total absorption of carbon dioxide produced by the breathing.

Low magnetic high capacity aluminium alloy cylinders.

The multifunction dosing group for distribution of the gas mixture; easy of maintenance and filling of both filter and cylinders; it will take only few minutes to make the breathing apparatus ready for further use.

Emergency demand regulator for effective redundancy.

RDN2000

The RDN2000 has been designed only for military purposes in compliance with tactical requirements (extended dive duration, silent operation, low magnetic signature obtained by using low-magnetic material).

RDN2000 has gone through many tests before being commercially produced proving to be fully reliable exceeding all expectations in all working conditions.

The absence of complicated and unreliable moving parts and the ease of maintenance make this breathing apparatus simple, sturdy and reliable in any dive setting.

As it is produced utilising the latest technology materials, the most innovative working processes and being thoroughly inspected and tested, it represents the state of the art in NITROX mixture breathing apparatus.

It's possible to connect any type of underwater oxygen analyzer with dedicated port in the breathing bag to monitor a PPO2 during the dive.



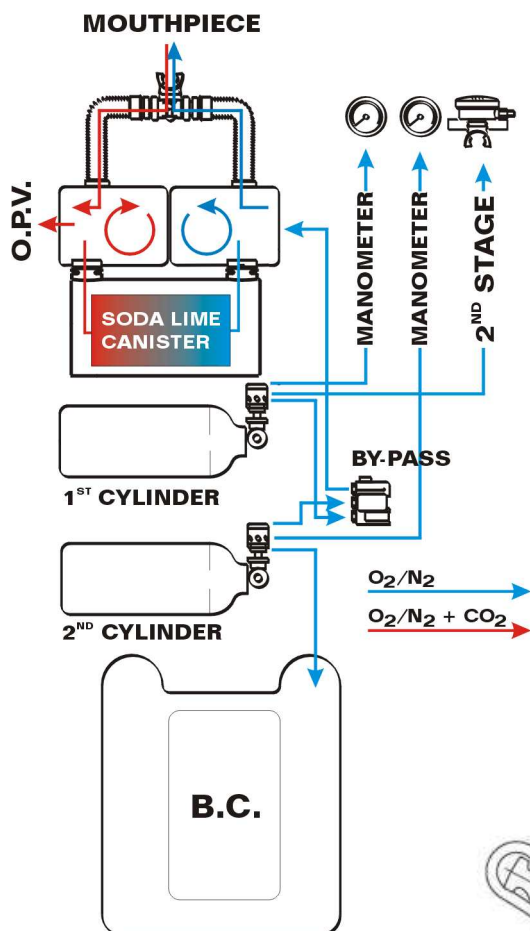
DOSING GROUP

The dosing group regulates the quantity and pressure of the gas entering the inhalation breathing bag. It is connected using a stainless steel bracket on the ear right side of the jacket's waist strap.



FILTER

The filter contains soda lime needed to chemically absorb carbon dioxide produced during the breathing process. Essentially it is a non-magnetic cylinder where is inserted a drum formed by two concentric finely perforated cylindrical rings.



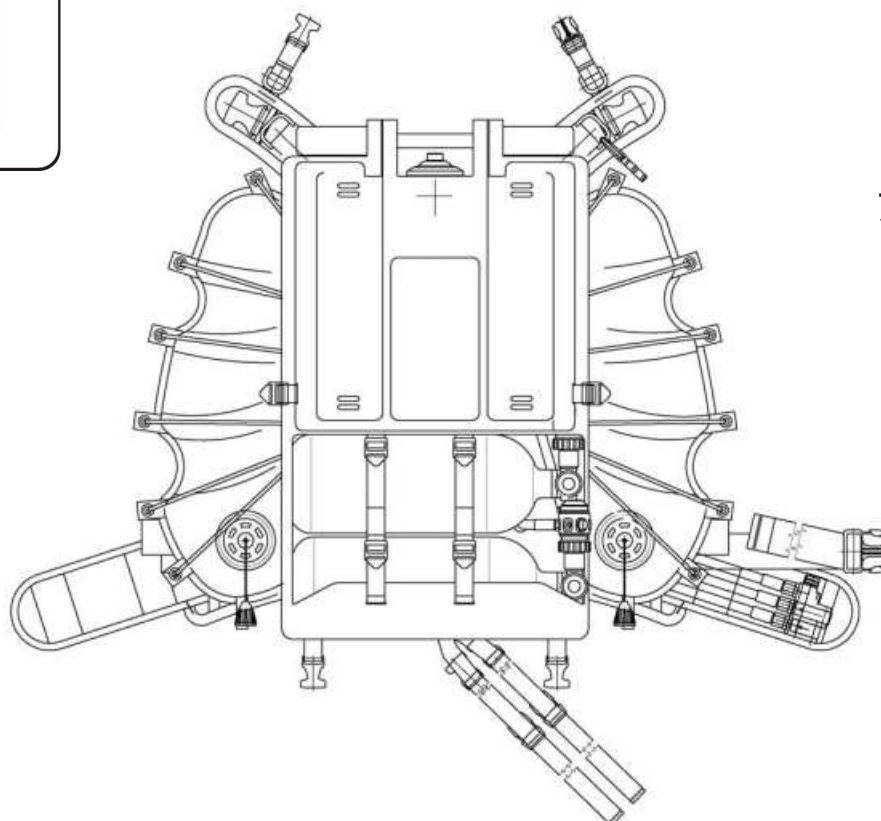
Part nr:	AMMD-MR-01
Working principles:	Semiclosed cyclical circuit (open in emergency)
Specification of the Gas:	NITROX
Cylinder	
capacity	2x3 litres
maximum pressure	200 bar
Breathing bag:	2 x 6,2 litres
purifying material:	Soda lime
Soda lime canister capacity:	2,35 kg
Operating temperature:	From -2°C to +55°C
Magnetic signature:	Low magnetic
Maximum buoyancy:	28 kg
Weight ready to use:	27 kg. In air, neutral in sea water

Standard Apparatus Parts Description:

Order Number: AMMD-MR-01-01
 Rebreather (2 Aluminium cylinder 3 lt)
 Technical Manual
 Storage/carriage container

Accessories:

GPR-30	O ₂ Analyzer
KIT030	Ordinary Self Maintenance Kit
ZAV100	Ballast 1 Kg per piece
ZAV101	Ballast 0,5 Kg per piece
CSM-B-01	Ballast Carriage Bag



700
180
410