

**LAR VII
Combi
Combi A
Combi FA**

**shallow water (VSW)
applications**



The LAR VII Combi offers best performance in all facets of shallow water diving. By using the reliable concept of the LAR predecessors it offers all relevant features for VSW diving e.g. tactical and MCM missions.

LAR VII Combi can be switched from oxygen to nitrox (closed circuit to semi closed circuit) and vice versa during the dive. The mixed gas supply is connected via a quick release coupling and can either be front mounted (Combi FA) or back mounted (Combi and Combi A). The apparatus is front worn, small, compact, easy to operate and to repair.



The LAR VII Combi are designed for use especially where low magnetic signature and low-noise are required. Low magnetic and non-magnetic cylinders are available, to fit for all applications.

Design specifications are to STANAG 2897 class A and STANAG 1097.



The LAR VII Combi A and FA additionally feature an adjustment device for the lung demand valve to control breathing resistance.

Options are available for a standard harness consisting of waist belt and neck strap or a comfort harness. The comfort harness also has leg loops and a pouch for an additional cylinder. It can be equipped with the shadow life preserver.

Technical Data

Basic Unit	
Principle of operation	Semi-closed or closed breathing circuit, lung governed CO ₂ -absorption in a refillable soda lime cartridge.
Diving depth/ Breathing gas	0 to 10 m with oxygen or 0 to 24 m with pre-mixed gas B, 60 % O ₂ , 40 % N ₂
Constant flow Semi-closed mode	5 litres per minute
Soda lime	DiveSorb® Pro; approx. 2.5 Litre per filling
Breathing bag	moveable capacity of approx. 5,5 litres
Magnetic signal	conforming to STANAG 2897 class A
Dimension	Length 425mm, width 300 mm, depth 170mm
Weight	in air approx. 15 kg in water (ready to dive) neutral, breathing bag filled with approx. 2 litres of oxygen
Operation Temp.	minus 2° C to 40° C
Storage Temp.	minus 30° C to 70° C

Cylinder for oxygen or mixgas

Volume
Diameter
Nominal Pressure
Connection
Material
Approval

None Magnetic (NM)

1.5 Litre
115 mm
200 bar
G 3/4"
High grade steel
Type approval (TÜV)

Low Magnetic (LM)

1.9 Litre
134 mm
200 bar
G 3/4"
Aluminium Alloy
DOT3AL

Order number

LAR VII - Combi (without harness / belt) T 14 956
LAR VII - Combi A (without harness / belt) T 15 414
LAR VII - Combi FA (without harness / belt) T 15 415

Cylinders

Oxygen/Mixgas cylinder -NM-, 1,5 L, with valve, black colour, STANAG 'A' T 13 804
Oxygen cylinder (filled) magnetic, 1,5 L, with valve, black colour, steel B 03 961
Oxygen/Mixgas cylinder -LM-, 1,9 L, with valve, black colour, STANAG 'B' T 13 401
(please order additional 2 pcs. T 15135)

Test Accessories

Pre Dive Test Unit (Pre Dive) T 14 992
Dosage Test Unit (Workshop) T 14 433
Multi-Purpose Test Unit (Workshop & Pre Dive) T 15 007

Accessories

Light metal transport case, large with black inlets T 15 408
Comfort Harness T 15 116
Standard Harness consisting of neck and waist belt T 15 425
Extension for cylinder strap T 15 135
(only for cylinder T 13401 / it is necessary to order 2 pcs.)
Diving goggle, black, with twin visor mask T 53 307

Tools

Tool bag T 14 410

Spare Parts

Spare Parts Set T 14 411

Consumable

DiveSorb® Pro, 4,5 kg / approx. two dives 6737062
DiveSorb® Pro, 18 kg / approx. eight dives 6737109
Halocarbon lubricant (28 g per tube) 6590212
Silicon lubricant (100 g per tube) for mouthpiece 1595008

For your individual requirement

LAR VII is designed to meet your individual requirement, whatever your mission is. This apparatus can be used in special operations, for mine clearance, submarine exit and re-entry and also on SDV. For the individual task various different configurations are available



LAR VII with two cylinders at front
LDV adjustable



LAR VII with two cylinders at front

Configurations

Application \ Configuration	O ₂ at front Nitrox at back	O ₂ at front Nitrox at front	Nitrox at back Twin	LDV adjustable
MCM Diving VSW	X			
MCM Diving 40 m / 54 m			X	
Submarine Exit / Re-entry		X		
SDV		X		
Special Operations				X