

COMBAT DIVERS

LIFE SUPPORT SYSTEM

Innovative Engineering
AT ITS BEST!

AN/ULS-15B

- Long endurance
- O2 and Nitox versions
- Dive to 6 or 40M
- Closed /semi closed loop
- Extreme low WOB
- Low magnetic signature
- Low acoustic signature
- Heated for cold climate operation



ABOUT US

Euro Arms (a member of the Hughes Power System group) is a Swedish manufacturer of aircraft support equipment, underwater equipment and armament for military divers for both commercial and defence sectors.

Very high-quality standards, together with innovative approach result in an advanced range of products, aiming to improve performance and increase safety for the professionals around the world.

Our product portfolio includes:

- Closed loop rebreathers for military use;
- 9 mm submachine guns for attack divers;
- Helicopter and light jet tugs;
- Electrical equipment for high and medium voltage distribution networks;

With its more than 30 years expertise in research, development, manufacturing, marketing and sales the company operates in many countries though cooperation with local partners. As we move towards our goal of being a world class advanced technological company in life support system solutions, we guarantee our commitment to the well-known Swedish standards of reliability, safety and quality.

The majority of Euro Arm's products are designed and built in Sweden.



DIVERS LIFE SUPPORT SYSTEM

GENERAL DESCRIPTION



- 1 Breathing loop
- 2 Gas pressure gauge
- 3 Over pressure valve
- 4 Automatic demand valve
- 5 High pressure regulator

AN/ULS-15B

The AN/ULS-15B is a long endurance Combat Divers Life Support System that offers unparalleled levels of mission flexibility and operational capability. The system has a comprehensive range of accessories to form a complete customized tactical solution.

Latest developments including a heated CO2 scrubber system and insulated counter lungs for cold climate operation. New invention to minimize breathing resistance (WOB) at heavy work. The system is complemented with comprehensive water trap solution to minimize the risk of water contamination of the scrubber filter material and freezing at the scrubber top for operation in very cold environments.

The diver can utilize 100% oxygen at shallow depth and use air or nitrox at depth below the safe depth of oxygen. The air / nitrox system can be used as bail out system and for buoyance control.

The ULS15 system is well proven complete system designed by combat divers from the northern hemisphere for combat divers worldwide.

- 6 Gas selector valve
- 7 Nitrox bottle
- 8 Oxygen bottle
- 9 Battery for scrubber heater



BLACK MOUNT

With the back mount assembly, the standard front mounted system can be instantly reconfigured for a new operation and for use with diving vehicles.

MULTIPLE USERS OF THE SAME EQUIPMENT

Our product's integrated closed loop components are designed for an easy interchange between different users to minimize the risk of spreading diseases.

PRINCIPLE OF OPERATION

- When the ULS-15B is configured for oxygen use, oxygen is supplied from the gas bottle via a first high pressure (300 Bar) regulator to a demand valve that automatically adds oxygen to the recirculation closed loop system.
- Two one-way valves in the breathing mouthpiece assembly ensure exhaled breathing gas is recirculated through two long endurance scrubbers removing exhaled CO₂ prior to re-inhalation.
- Easy accessible pressure gauges gives continuous information of the pressure in the gas bottles.
- The gauges provides approximate information when the CO₂ scrubber is consumed.
- An easily operated selector valve between closed loop oxygen operation and Nitrox gas for deep diving in SCR mode.
- The scrubber duration depends on water temperature, breathing volume and if the heated scrubber option is selected.

DIVERS LIFE SUPPORT SYSTEM

TECHNICAL DATA

FEATURES

- Large number of accessories;
- Oxygen or combined oxygen/air/nitrox configurations;
- Easy changable nitrox gas orifices for different nitrox mix (NATO Mix B, C, D)
- Optimised counter lung position;
- Extreme Low work of breathing (WOB);
- Operational in all climate zones from arctic areas to tropical water;
- Automatic demand valve that serves as a manual bypass valve;
- Easy change of breathing loop components for multiple users;
- Reinforced material in counter lung;
- Non magnetic versions;
- Insulated lungs and scrubber for low temperature use, electric heated scrubber for extreme cold operations;
- Low-Mag as standard and Non-Mag options (to NATO STANAG 2897 Class A, static and dynamic tests);
- Low acoustic signature to NATO STANAG 1158;
- NIR tested

SPECIFICATIONS

- Height: 430mm;
- Width: 330mm;
- Depth: 180mm;
- Weight: 10.6 kg incl. 2 L 300 Bar carbone fiber Oxygen bottle

PERFORMANCE

- Maximum depth (m): 10* for closed loop oxygen and 40 for SCR nitrox gas operation;
- CO2 scrubber duration (hrs): 3 - 4**;
- Air temperature operation: -35°C to +55°C;
- Sea temperature operation: -2°C to +35°C;
- Fresh water temperature operation: +1°C to +35°C;
- Gas bottle pressure: 2L 220 Bar(AL), 300 Bar(carborne fibre) bar cylinders;

* Dependent upon local oxygen exposure B limitations.

** Dependent upon diver work-rate and water temperature. High water temperature < long scrubber operational time. Electric heaterd scrubber and fully insulated counter lungs extends the total operation time.

ACCESSORIES

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Euro Arms ULS system has a wide range of tactical accessories.

The ULS-15B system can be used with full facemask for easy integration with Under Water Communication system, easy use with a combined closed loop oxygen and Nitrox SCR operation, tactical harnesses with multiple options, Digital bottom timer and Combat divers special 9 mm Submachine Gun. The gun has open bolt design and is manufactured of blackened stainless steel to prevent corrosion in salty water environment and have a very low magnetic signature.



On board 4 or 2 x 4 L 300 bar deep diving / bailout bottle Buoyancy system



Tactical Harness



Bail Out Valve in breathing loop



Metal armoured breathing hoses, green



Oxygen bottle 2L aluminium 220 bar (440L) Oxygen bottle 2L carbon fibre 300 bar (600L)



Weight system, non magnetic



Under water light system



Deep meter, 1 - 16 M



Digital bottom timer with 63mm (diagonal) display

DIVERS LIFE SUPPORT SYSTEM

ACCESSORIES



In breathing loop oxygen measuring system with digital O2 cell



Full Face mask



Under water OTS communication system



Non magnetic divers knife



Under water transport bag



Portable O2 analyser



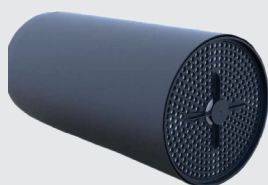
Set of 3 Nitrox gas orifices for NATO gas type -A,B,C



Co2 absorber Sofnolime 797, 4.5 kg and 20 kg tank



Co2 absorber Micropore role, 8 pcs per hermetical sealed box



Disposable Co2 absorber cassette, 10 pcs per hermetical sealed box



Spare part kit, rubber sealants, screws, etc



High impact stackable transportation case

SERVICES

TRAINING COURSES

Euro Arms provides training services to military operations forces, law enforcement and security agencies.

Training courses include:

- Equipment use
- Operational use and planning
- Equipment maintenance

PRODUCT DEMONSTRATIONS

Euro Arms offers online and onsite product presentations.

The AN/ULS-15B system requires export permit from the Swedish Inspectorate of Strategic Products.



EURO ARMS

HUGHES POWER SYSTEM GROUP

Euro Arms (Sweden) specializes in research, development, manufacturing, marketing and sales of divers' support systems products.

The majority of Euro Arms' products are designed and built in Sweden.

www.euroarms.com

