

TECHNICAL SPECIFICATION

LIBERTY LIGHT



DIVESOFT

Dimensions	430 mm (16,9 in) height 340 mm (13,4 in) width 226 mm (9 in) depth
Dry Weight	15,3 kg (33,7 lb) — no weight system, no cylinders 15,9 kg (35 lb) — no cylinders 22,3 kg (49 lb) — 2 L steel cylinders
Weight system capacity	15 kg (33 lb)
Oxygen sensors	4 in total in O ₂ block (individually sealed) 2 sensors for each control unit, Sensor type: DIVESOFT R22D Smart voting logic for four sensors
Helium sensors	2 Helium sensors – redundant method to calculate PPO ₂
Pressure sensors	4 in total inside of head, two for each side Calibrated to 300 m
Solenoids	2 in total – Interconnected with manifold, magnetic solenoids Fed from left side O ₂ inlet
Batteries	2 Li-ion batteries 3,6 V, 5,85 Ah Work time: 20 hrs, Charging time: 8 hrs Batteries are equipped with OPV, so in case of a failure, any excess gas is vented outside the rebreather
Computers	2 individually sealed and independent control units communicating with each other through O ₂ cell block located in the head
Handsets	2 handsets – Divesoft – redundant, waterproof connectors
Buddy display	On top of the head – red, green
Heads Up Display (HUD)	Yes, red, blue, green, possibility of colorblind diver setting. Can show emergency, hypoxia, hyperoxia and PO ₂ value display, PPO ₂ coding by Smithers code
Scrubber canister	Type: Radial Size: SHORT — 2,5 kg (5,58 lb) provides between 4-6 hours of runtime STANDARD — 2,5 kg (5,58 lb) provides between 4-6 hours of runtime EN 14143:2013 — stress test - 2 h 48 min at 4°C, breathing 40 l/min, CO ₂ production 1,6 l/min X-LARGE — 3,3 kg (7,25 lb) provides between 5-8 hours of runtime

Type of Soda Lime	Sofnolime 797 manufactured by Molecular Products
Cylinder size compatibility	2 L, 3 L, large cylinder possible by using extended strap
Oxygen cylinder	Right side (diver wearing the unit) – exhalation side 2 L steel cylinder, 105 mm diameter / 200 bar, USDOT approved for US Cylinders
Oxygen cylinder valve	230 bar / DIN G 5/8" / Burst Disk equipped for USA
Diluent cylinder	Left side (diver wearing the unit) – inhalation side 2 L steel cylinder, 105mm diameter / 200 bar, USDOT approved for US Cylinders
Diluent cylinder valve	230 bar / DIN G 5/8" / Burst Disk equipped for USA
Counter lungs available + volume	BMCL 3,5 L each
Direction of breathing	Left to right
Backplate	CCR Liberty Light soft back with removable weight pocket system
Wing	BCD – Doughnut – 15 L (33 lb)
Stand	Optional – Liberty Light stand
Regulators	Apeks Flight
Oxygen control	3 setpoint ranges: High + Low + descent, can be switched to any range between 0,4 – 1,6 bar
Oxygen warnings	0,3 bar (low) – 1,6 bar (high)
BOV options	BMCL – BOV + MAV BMCL – iBOV + MAV



Our vision was clear - to reduce the Liberty's transport weight as much as possible. This led to the reduction of weight by more than 10 kilograms!

Transport weight is 15,3 kg (33,7 lb), of which 5 kg (11 lb), is the head, which is primarily intended to be transported in your carry-on. Only 10 kg (22 lb), will remain in the cargo area. Including the steel tanks and valves!

The Liberty Light also allows for easier and more efficient packaging in gear bags due to innovative soft back-plate design, carbon fibre wishbone and revolutionary weighting pocket system.

KEY FEATURES

- › lightweight without compromising breathing loop or electronics
- › high quality and robust materials
- › carbon fiber wishbone harness
- › bungee attachment allows for side mounting of bailout cylinders thus proper streamlining
- › greater head movement for divers of all sizes
- › revolutionary weighting pocket system for precise trim
- › possibility to fit 1-2 argon or inflation cylinders
- › detachable counterlungs
- › harness and soft goods allow for greater comfort without compromising quality robust materials for all environments