

TECHNICAL SPECIFICATIONS

LIBERTY *HEAVY*



DIVESOFT

Dimensions	Configuration: 2×7 L:	Configuration: 2×3 L:
	720 mm (28,35 in) height 445 mm (17,52 in) width 240 mm (9,45 in) depth	680 mm (26,77 in) height 365 mm (14,37 in) width 230 mm (9,06 in) depth
Weight	EMPTY weight, no cylinders: 21,30 kg (47,00 lb), backplate SS BP – 2,90 kg (6,40 lb)	
	Configurations: 2×3 L: + 9,80 kg (21,60 lb) 2×7 L, 3 L Oxy: + 20,90 kg (46,00 lb)	
Oxygen sensors	4 in total in O2 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 4 in total inside of head, two for each side Calibrated to 300 m	
Pressure sensors	4 in total inside of head, two for each side Calibrated to 300 m	
Solenoids	2 in total – Interconnected with manifold fed from left side O ₂ inlet.	
Batteries	2 Li-ion batteries 3,6 V, 5,85 Ah, individually sealed and tested to 300 m 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 located in the head	
Handset	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	STANDARD – 2,50 kg (5,5 lb) 4–6 hours of runtime X-LARGE – 3,30 kg (7,28 lb) 5–8 hours of runtime	
Type of Soda lime	Sofnolime 797	
Oxygen cylinder	Any size	
Oxygen cylinder valve	230 bar / M26×2 / DIN for USA / Burst Disk equipped for USA	

Diluent cylinder	Left side (diver wearing the unit) – inhalation side 3 L steel cylinder, 100 mm diameter / 300 bar / 230 bar for USA USDOT approved
Diluent cylinder valve	T-Piece membrane ADV
Counter lungs available + volume	BMCL 3,5 l each
Counter lungs work of breathing	FMCL 2,16 J/L at 40 m, air, ventilation rate 75 L/min 1,58 J/L at 100 m, heliox 10/90, ventilation rate 75 L/min
Direction of breathing	Left to right (diver wearing unit)
Backplate	Standard SS backplate supplied. Compatible to be used with most standard backplates. 3 adjustable height positions.
Wing	Divesoft CCR wing Doughnut – 20 L (45 lb)
Stand	Welded high stand – 2,00 kg (4,40 lb) Welded low stand – 1,80 kg (3,96 lb)
Regulators	Apeks DST
Drop weight pouches	No
Depth rated	EN 14143:2013: 100 m (330 ft), precision test: 350 m (1,150 ft) Pressure test of all components: 300 m (984 ft)
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	Comes with BOV + MAV DSV optional
CE Certified since	2025

LIBERTY HEAVY

ADVANTAGES

Built for more

More gas.
More endurance.
More flexibility.

Liberty Heavy is designed for divers who need additional capacity for longer and more demanding dives.



Extended endurance

The optional XL scrubber increases absorbent capacity by approximately 30 %. Larger cylinders and flexible gas configurations provide additional capacity when it matters most.



Go further

More gas.
More endurance.
More possibilities.

