LIBERTY ADVANTAGES

The Liberty in the Sidemount configuration demonstrates an entirely encompassed system with gas delivery systems fully enclosed within the system. The unit in Sidemount configuration weights ready to dive with shortened scrubber 22.8kg (50.3lb) thus making the unit optimal for travel and expedition.





The Liberty in the Sidemount configuration can work as an extreme bailout rebreather system and the electronics can be set to remain in a bailout configuration to monitor decompression obligations and maintain a preset PO₂ within the loop for when needed in a bailout situation.



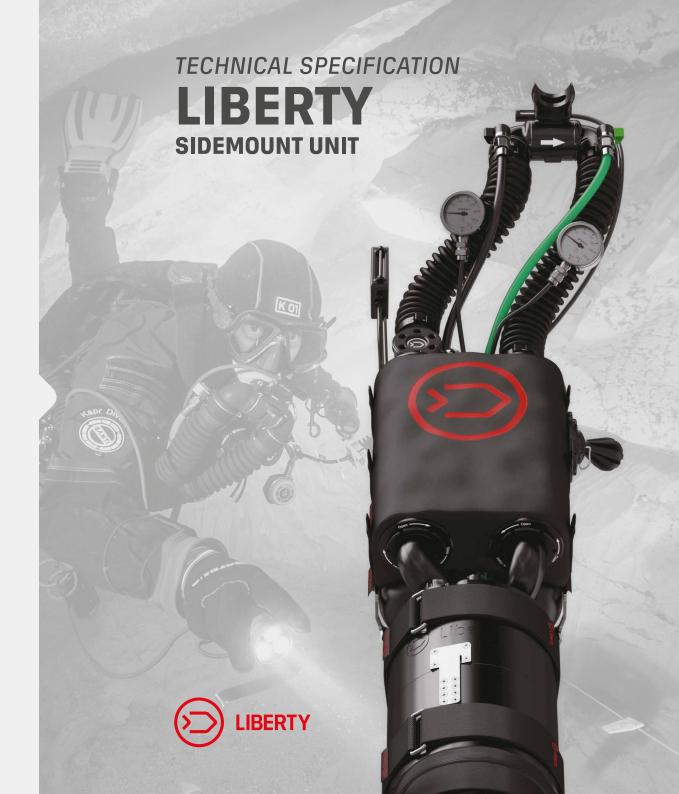


The Liberty in a Sidemount configuration has one of the industries best work-of-breathing of any Sidemount rebreather while encompassing all gas systems on board the unit and maintaining a neutral trim orientation of the diver.



Divesoft, s.r.o.

Hálkova 2495. Roudnice nad Labem 413 01 Czech Republic tel.: +420 416 857 057 www.divesoft.cz www.divesoft.us www.ccrliberty.com



Dimensions Length 800mm (2.62ft) - shortened scrubber, 880mm (2.89ft) -

standard scrubber, Height 205mm (0.67ft), Width 220mm(0.72ft)

Weight Weight empty no cylinders: shortened scrubber – 12.9kg (28.4lb),

standard scrubber 13.8kg (30.4lb)

Weight empty with EUR cylinders: shortened scrubber – 19.2kg

(42.3lb), standard scrubber 20.2kg (44.5lb)

Weight ready to dive: shortened scrubber - 22.8kg (50.3lb),

standard scrubber 23.7kg (52.2lb)

Oxygen sensors 4 in total (0, block is individually sealed)

2 sensors for each control unit Sensor type: DIVESOFT R22D

Helium sensors 2 Helium sensors – redundant method to calculate PPO,

Pressure sensors 4 in total inside of head two for each side

fine – low pressure – sea level, PPO, calibration, accuracy of depth

data in shallow depth

coarse - hydrostatic pressure - measures to 300m

Solenoids 2 in total – Interconnected with manifold

Fed from left side 0, inlet.

Batteries 2 Li-ion batteries 3,6V, 5,7Ah, individually sealed and tested

to 600m

Work time: 20hrs, Charging time: 8hrs

Batteries equipped with OPV which allow to let the battery fluid

flow outside the unit in case of failure.

Computers 2 individually sealed and independent control units

communicating with each other.

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, hypoxy, hyperoxy and PO, value display, PPO,

coding by Smithers code

Scrubber canister Type: Radial

Size: SHORTENED - 2,5kg (5.58lb) - provides between 4-6 hours

of runtime (compact size)

STANDARD - 2,5kg (5.58lb) – provides between 4-6 hours

of runtime

EN 14143:2013 - stress test - 2 h 48 min at - 4°C, breathing

40 l/min, CO₂ production 1.6 l/min

Type of Soda lime Sofnolime 797 manufactured by Molecular Products

Oxygen cylinder Right side (diver wearing the unit) – exhaling side

2 L steel cylinder, 105mm diameter / 200 bar

USDOT approved for US Cylinders

Oxygen cylinder valve 230 bar / M26x2 / DIN for USA / Burst Disk equipped for USA

Diluent cylinder Left side (diver wearing the unit) – inhaling 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 volume 2 counter lungs with total approximate volume of 6L

Direction of breathing Left to right (diver wearing the unit)

Frame Titanium

Regulators Apeks Flight

Depth rated EN 14143:2013: 100m (330 ft), precision test: 350m (1,150 ft),

Pressure test of all components: 600m (1,960 ft)

Oxygen control 3 setpoint ranges + High + Low + descent, can be switched to any

range between 0.4-1.6 bar anytime during the dive

Oxygen warnings 0.3 bar (low) – 1.6 bar (high)





