

## Technical/Safety Data Sheet SeaAir EBS II

Compressed air emergency breathing system (CA EBS);

- similar in function to SCUBA gear, it consists of a small cylinder pressurized with atmospheric air and first stage regulator worn in a pouch on the user's lifejacket or survival suit, a pressure gauge, an air hose and a second-stage regulator (the part that delivers air via the user's mouth). The regulator is on-demand, it only delivers air, when the user inhales.



SeaAir EBS II

General	
Maximum Operational depth	Certified to 10 m (33 ft)
Approved gas	Air
Maximum working pressure	232 Bar (3434 psi)
Cold water performance	CAA UK CAP1034 approved / EN 250 Cold Water
Cleaned to hydrocarbon levels <50mg/m2 & particle level X	No
O-ring materials	Nitrile, EPDM
Lubricants	Poseidon R, Poseidon Oxygen compatible, silicone oil.
Warranty	12 months
Total weight	914 g / 32,3 Oz
2nd stage	
Flow Rate	1250 l/min / 44 cuft min
Technique	Downstream
Safety valve opening pressure	15 +/- 1 bar (217 +/- 14 psi)
Swiveling	Around axis, can be used either side
Material	ASA, Brass, TPU, Silicone, PU
Venturi assist	Automatic
Inhalation control	Automatic
Anatomic mouthpiece	4532 Poseidon AIR
1st stage Poseidon Cyklon	
Flowrate (l/min)	>1700 l/min / 180 cuft/min
Nominal inter-stage pressure	11.5 bar (167 psi)
Anti-Freeze protection	N/A

Technique	Diaphragm
Valve technique	Piston Valve
Seat material	Polyetereterketon
Test pressure	450 bar (6526 psi)
Ports	1 LP (UNF 3/8") / 2 HP (UNF 7/16")
Connection	UNF 5/8"-18
Built in OPV	In 2:nd Stage
Built in OPV opening pressure	N/A
Material	Brass, plastics, stainless steel and aluminum
<b>Hose</b>	
Standard lengths hose	24 inch / 61 cm
Burst pressure	>100 bar (1450 psi)
Pull strength	>1000 Newton (225 lbs)
Oxygen cleaned	N/A
<b>Cylinder</b>	
Cylinder Volume	0,29 l
Cylinder Material	Aluminum
Cylinder Length with Regulator	29,5 cm
Rated Cylinder Pressure	200 BAR (max 232 bar)
Cylinder Approval	CE/DOT EN1975
<b>Compatibility</b>	
Integration 1	SeaLion Europe / HP ETSO Lifejacket
Approval Integration 1	EASA ETSO 2C504/CAA UK CAP 1034
Integration 2	SeaAir1/SeaAir Barents Helicopter Passenger Suit
Approval Integration 2	EASA ETSO 2C502/CAA UK CAP 1034
Integration 3	SeaAir Canada Helicopter Passenger suit
Accepted Integration 3	TC CAN
<b>Transportation</b>	
Carry-on luggage	Allowed to be transported as personal cabin-luggage on board all airlines (one piece per person)
Checked-in luggage	Allowed to be transported as checked-in luggage (normally two pcs per person)
Note	The above relates to filled systems/under pressure Non-filled systems may be sent in larger quantities
<b>Health &amp; Safety *</b>	
Education	User training is critical for correct operation of the system
Air quality	The unit must be filled with air according to EN 12021:2014 – Compressed gas for respiratory devices
Diving	The system is intended for escape of a ditched and submersed helicopter cabin, not regular diving

\*.) This type of equipment does not require a specific MSDS, as this is relevant for chemical substances only