



VERSATILE REBREATHERS

HANDCRAFTED IN DENMARK



THE JJ-CCR IS **BUILT FOR WHATEVER DIVE YOU HAVE IN MIND**

The JJ-CCR Rebreather is designed and built to exceed the expectations of demanding technical divers, but the simplicity of the apparatus makes it ideal for all skilled divers that want to go silent! The JJ-CCR Rebreather has been called "the 4 x 4 of the Rebreather community" which is in many ways the perfect description as it is built for all types of terrain and can be adapted to handle the most demanding adventures.

SIMPLICITY AND VERSATILITY ARE THE KEY FACTORS



The XRC canister is an optional component providing the skilled exploration diver with extended runtime...



The JJ-CCR Rebreather DiveCAN International Edition 2014

GENERAL INFORMATION

The JJ-CCR has been designed and built as a versatile and adaptable Closed Circuit Rebreather platform. It is ready to dive right out of the box, but also simple to adapt to whatever dive you have in mind! The JJ-CCR has been developed and built by highly skilled divers and technicians. All components can be justified and the JJ-CCR as a whole is designed with simplicity, versatility and functionality in mind!

The main construction consist of a robust aluminum housing and a stainless steel stand where all components such as counter lungs, wings and harness are attached. This provides the user with comfort on land when donning the rebreather as well as in water when diving it. All hoses and gas paths are made for optimal performance both in water and for maintenance purposes.

The JJ-CCR is built to be controlled by YOU, a focused and skilled diver! But to help you do that, we have provided the JJ-CCR with state of the art electronics for unparalleled control and dive computing

JJ-CCR Rebreather editions

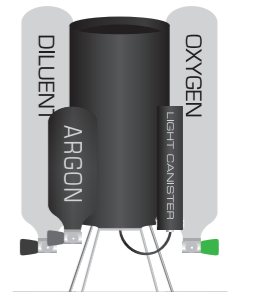
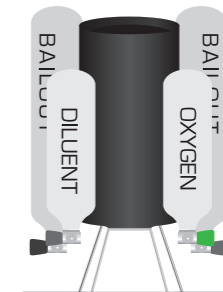
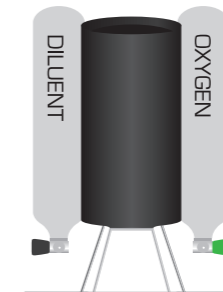
The JJ-CCR Rebreather DiveCAN is currently available in a CE edition and an International edition.

The CE edition for the European market (CE certified July 2014) has a diluent inline shutoff valve and a manual supplemental diluent valve.

These are the only differencies

ADAPT TO MISSION SPECS.

The JJ-CCR Rebreather can be adapted for whatever dive you are planning. Through the tank attachment consoles on the canister, you will be able of using a great variety of configurations suited for your specific needs.





ORIGINALLY BUILT FOR REVEALING THE SECRETS OF THE BALTIC SEA



DILUENT INLINE SHUT OFF VALVE

Standard component on the JJ-CCR Rebreather DiveCAN CE-edition. Can be ordered as an optional item for the International edition.



SUPPLEMENTAL MANUAL DILUENT INFLATION

Standard component on the JJ-CCR Rebreather DiveCAN CE-edition. Can be ordered as an optional item for the International edition.

SUPPLEMENTAL MANUAL O2 INFLATION

Standard component on both JJ-CCR Rebreather DiveCAN editions.

CONTROLLER & COMPUTER

Reliable controller with an integrated multi-gas decompression computer (based on the Shearwater Petrel)

OXYGEN SENSORS & SUPPLY

3 JJ-CCR oxygen sensors are located inside of the top lid together with the low power solenoid.

REDUNDANT POWER SUPPLY:

One battery for the controller, one battery for the HUD and two parallel batteries for the solenoid. None of the batteries are integrated into the loop.

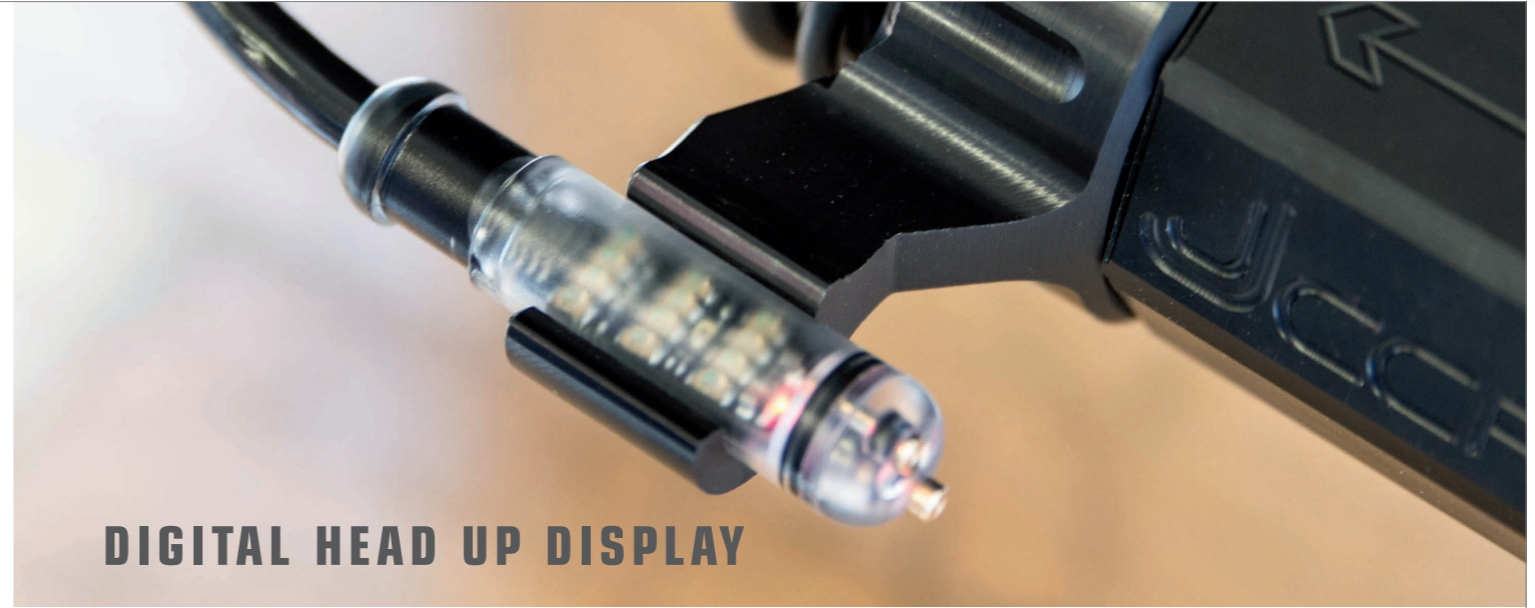


BATTERY COMPARTMENT

JJ-CCR OXYGEN SENSORS



LOW POWER SOLENOID



DIGITAL HEAD UP DISPLAY

The JJ-CCR Rebreather is supplied as standard with an HUD (Head Up Display). The HUD functions fully independently of the controller. This means that it uses its own DiveCAN® bus, electronic and power supply.

THE ESSENTIAL FEATURES ARE

- PPO2 display from 3 oxygen sensors.
- Modified Smither's code blink pattern.
- Bright light emitting diodes with vibrant colors.
- Color-blind blink pattern (optional setting).
- Wet contacts for automatic turn-on.
- DiveCAN® communications interface for robust data transmission and easy upgrades, disassembly and repairs.
- Bright red end-cap LED for buddy warnings.
- Automatic brightness control optimizes viewing in all conditions.
- Red color only used for unsafe PPO2 warnings.



INDUSTRY LOW WORK OF BREATHING



The JJ-CCR Rebreather has a industry low work of breathing. With its back mounted counter lungs that follows the contours of your shoulders it will help you to keep a smooth and comfortable breathing pattern.



T-pieces milled out of delrin connects to heavy duty breathing hoses that ends up in a sturdy DSV (dive surface valve).



SIMPLICITY

The JJ-CCR was never intended as a rebreather for the sports diving market. It is a tool for skilled divers in need of a sturdy machine to do the job. The environment in which the JJ-CCR is most commonly used demands a rebreather that is simple in regards to handling, independent of the situation.



PURPOSE BUILT

All components have been carefully selected and are there for a reason! Clean and simple, usable and sturdy.



TECHNICAL SPECIFICATIONS - JJ-CCR Rebreather DiveCAN CE + additional information (International)

Dimensions	70cm x 40cm x 26cm including the handle	
Weight	34.2kg – Ready for operation with 2 x 3 litre tanks 19,8kg – Without tanks and soda lime	
Soda lime canister	<p>Type: Axial Soda lime: Average 2.5kg (Sofnolime 797) Running time: 180 min with dive profile (40 m) 180 min with dive profile (100 m)</p> <p>Dive profile: 40 min at 40 m, 5 min at 15 m, 9 m for the remaining time</p> <p>Dive profile: 100 m: 10 min at 100 m, 1 min at 39 m, 1 min at 36 m, 2 min at 33 m, 2 min at 30 m, 2 min at 27 m, 3 min at 24 m, 4 min at 21 m, 4 min at 18 m, 6 min at 15m, 7 min at 12 m, 10 min at 9 m, 6 m for the remaining time</p> <p>Test parameter: 40l/min air, 1.6l/min CO₂, 4°C water temperature</p> <p>Used diluent: 40 m - Air 100 m - Trimix 11/65</p>	
Soda lime	The only supported soda lime is: Sofnolime® 797 manufactured by Molecular Products.	
Oxygen Cylinder	3 Liter steel cylinder (200 bar)	
Diluent Cylinder	3 Liter steel cylinder (200 bar)	
On board gas duration	<p>Oxygen: The on board oxygen supply will last 252 minutes, if the diver consumes 1.78 liter of oxygen per minute. 3 liter x 200 bar = 600 liter - 25% reserve = 450 liter</p> <p>Diluent: The duration depends on the depth and activity of the diver. 3 liter x 200 bar = 600 liter</p>	
Batteries	<p>2 x 3.6v lithium (SAFT 14500). One battery for the controller and one battery for the HUD.</p> <p>2 x 9v block lithium (Parallel operation for the solenoid)</p>	
Volume of the counter lungs	8 litres	
Maximum application depth	<p>Max. 40 m with air as diluent Max. 100 m with trimix as diluent</p> <p>Warning: Dives exceeding a depth of 100 m are associated with numerous additional risks</p>	
Purity of the gases	Air: DIN EN 12021 Oxygen: >99.5% (medical oxygen) Helium: >99.996	
Atmospheric pressure range	800 – 1050mbar	
1 st stage "oxygen"	Connection: M26x2 - medium pressure: 7.0 to 7.5 bar	(CE-edition)
1 st stage "diluent"	Connection: DIN 5/8" - medium pressure: 9.0 to 10.0 bar	
1 st stage "oxygen"	Connection: DIN 5/8" - medium pressure: 7.0 to 7.5 bar	(International-edition)

Oxygen control	Two oxygen setpoints (low and high). Can be switched as many times as required, also changeable under water.	
Oxygen setpoint range	From 0.4 to 1.5 bar (low and high)	
Oxygen warnings	Low 0.4 bar High 1.6 bar	
Oxygen sensors	3 galvanic cells (type: R17JJ-CCR)	
Operating temperatures	When diving: +4°C to +34°C Short-term (air): -10°C to +50°C Long-term (storage): +5°C to +20°C	

SUPPLEMENTAL MANUAL DILUENT INFLATION DILUENT INLINE SHUT OFF VALVE



JJ-CCR Rebreather DiveCAN
CE Edition 2014



JJ-CCR Rebreather DiveCAN
International Edition 2014



JJ-CCR Rebreather DiveCAN



Controller built on the
Shearwater Petrel



PHOTOGRAPHY BY: JONAS DAHM / DEEP SEA PRODUCTIONS

SCOPE OF FUNCTIONALITY

- Highly robust aluminum housing to which it is possible to secure up to 4 diving tanks using conventional tank belts.
- User repackable soda lime canister (axial).
- Heavy duty stand
- Integrated handle
- Back-mounted counter lungs
- Redundant power supply: One battery for the controller, one battery for the HUD and two parallel batteries for the solenoid. None of the batteries are integrated into the loop
- Integrated ADV (Automatic Diluent valve)
- DSV (Dive Surface Valve)
- Valve for manual oxygen supply with the option to feed in external gases
- Valve for manual diluent supply with the option to feed in external gases (Standard on CE edition, Optional for Intl. edition)
- Independant digital HUD (Head Up Display) with real time display of PP02 for all three oxygen sensors
- Reliable controller with an integrated Shearwater multi-gas decompression computer



ABOUT THE COMPANY

JJ-CCR ApS is a Danish company located near the village of Praestø (90 km south of Copenhagen). We are proud of delivering a handcrafted product in small numbers, designed to exceed the expectations of divers with high demands on diveability, versatility, functionality and simplicity!

We manufacture almost all of the hardware inhouse. Milling, turning, welding and assembly are examples of manufacturing processes we operate at our factory. All components are controlled to highest standards and each JJ-CCR is carefully tested before delivery.

NEWS & UPDATES

For latest information about whats happening in the world of JJ-CCR's, please check; www.jj-ccr.com

