HBB200 Delta B.I.B.S MK II

C-TECNICS
SUBSEA ELECTRONICS



Order Code: HBB200

Lightweight and robust built-in breathing system for hyperbaric chambers

The Delta MK II BIBS (Built-In Breathing System) is designed to provide advanced breathing performance with minimal work of breathing for both therapeutic and emergency use.

Ergonomically designed as a lightweight unit, it features a quick-release oral nasal to allow easy change-out for hygienic use. The system has been developed and tested over many years to withstand demanding conditions within hyperbaric chambers.

The unit incorporates a robust advanced polymer body for durability, while the removable oral nasal allows for individual issue or straightforward biological decontamination.

Technical Specification

Model	HBB200
Weight	1010 g
Operating Depth	450 msw
Work of Breathing	Low work of breathing (NORSOK U101)
Cleaning	Cleaned and prepared for oxygen use



Applications: Commercial diving, Inland diving, Saturation diving, Offshore operations, Search and rescue

sales@c-tecnics.com www.c-tecnics.com +44(0)1224 608000

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Performance & Testing

The Delta MK II has been independently tested to 450 msw. At a ventilation rate (RMV) of 62.5 litres per minute, work of breathing, CO_2 levels, and respiratory pressures were all within preferred limits.

Testing was conducted in accordance with NORSOK U101 guidelines, providing a recognised protocol in the absence of a harmonised global standard.

Maintenance & Hygiene

The system is cleaned and prepared for oxygen use, with all components degreased, ultrasonically cleaned, and assembled in a controlled workshop environment.

The BIBS mask should be included within a Planned Maintenance System (PMS). Guidance can be found within IMCA D018 (Section 5.2). Maintenance and cleaning procedures are detailed within the product manual.

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Delta BIBS and Associated Equipment

Supply and exhaust pressure controls

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Pressure controls for the Delta BIBS supply and exhaust arrangement.



Oxygen Supply Pressure Regulator

The C-Tecnics Pressure Regulator reduces oxygen supply pressure from a 200 or 300 bar source to the working pressure required by the Delta BIBS. Adjustment is required during compression and decompression to maintain supply pressure relative to chamber pressure.

Technical Specification

Order code	HBB-300
Maximum inlet pressure	300 bar
Outlet pressure range	Up to 40 bar
Design proof pressure	150% of maximum working pressure
Body material	Brass



Back-Pressure Regulator (BPR)

The C-Tecnics BPR is a negative-biased, dome-loaded back pressure regulator for oxygen breathing gas applications. It protects the diver from excessive negative pressure during exhalation. Positioned inside the chamber, it is normally connected to the BIBS manifold block.

Technical Specification

Order code	HBB-301
Maximum pressure rating	50 bar
Control range	Up to 30 bar bias
Bias spring	Up to 3 bar
Design proof pressure	150% of maximum working pressure
Body material	Brass

Applications: Commercial diving, Inland diving, Saturation diving, Offshore operations, Search and rescue

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Delta BIBS and Associated Equipment

Manifold, quick-connects and oxygen cleaning

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Associated equipment for Delta BIBS supply and exhaust connections.

The following equipment and preparation services are available separately from the BIBS mask.

Chamber BIBS Manifold Block



A brass manifold block for connecting the supply and exhaust hoses of two Delta BIBS masks. Additional end ports allow multiple blocks to be arranged around the chamber for additional BIBS units.

Order Code: HBB-302

Quick-Connect Fittings



Chamber-side quick-connect fittings screw into the manifold block and accept the corresponding male connectors on the Delta BIBS supply and exhaust hoses.

Available separately for the supply and exhaust connections. Please specify your connection requirements when ordering.

Order Codes: HB-036 (3/8 outlet)
HB-035 (1/8 outlet)

Oxygen Cleaning

Cleaning of the manifold and associated components for oxygen use is available on request. Please specify when ordering.

Applications: Commercial diving, Inland diving, Saturation diving, Offshore operations, Search and rescue

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