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The Aquabeam Hyperbaric Medical Light was designed and built for Seaforth Maritime for installation within a diving system destined for the U.S.S.R.

It will be appreciated that the cramped confines of the DDC, together with the, often, hazardous environment contained therein, prohibit the use of conventional operating theatre lights which offers shadowless illumination of the work-site. Hence the requirement for this relatively compact unit which facilitates 'shadow killing' by independent orientation of the two lampheads in relation to the subject and the working hands.

The light source is from two 12v, 50 watt, 50mm reflector lamps, type EXZ (M50) - average life 3,000 hours, wired in parallel to present a total load of 100 watts.

The Beam Pattern from each lamphead projects a cone of light diverging at 24° and the average intensity of each disc (380mm dia) at 914mm from the source, is 3,400 lux, hence a total intensity of 6,800 lux may be obtained with the two discs superimposed.

Aluminium HE-30 and LM25, Viton, Neoprene, Copper, 316 Stainless Steel and Borosilicate glass are used in the manufacture with the finish being hard anodised black.

Each lamphead is fitted with a 90° cable penetrator on the rear face. The two feed cables are spliced together in a neoprene moulding served by a single input lead of a length to be specified by the user. Termination of the input lead is also in accordance with the user's instructions.

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The light source replacement is achieved via the rear face of each lamphead with the lifting of a spring loaded safety catch and the withdrawal of the complete lampholder carriage.

The carriage cannot be withdrawn with an external pressure in excess of one atmosphere. Accordingly, the lampheads may be deemed 'tamper-proof' whilst the chamber is operational.

The complete lamphead assembly may be de-mounted and passed through the medical lock should lamp replacement prove necessary, however. The twin lampheads are designed and built in keeping with the specification and standards applied to LP20.

Electrical resistance and continuity testing is in accordance with LP20 and external pressure testing is to user requirement.

Test witnessing by Lloyds Register or DNV if required.

Three equally spaced 85mm diameter holes on 8.5mm P.C.D. in suspension plate are provided for fixing.

Specification

Electrical	
Supply Voltage	12Vdc
Current Consumption	4.2A
Typical Luminous Flux	725lm
Typical Colour Temp	3000K
Lamp Life	3000 Hours

Aquabeam Hyperbaric Medical Light

Order Code LA220

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