



Submarine Manufacturing & Products Limited

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Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

PRODUCT DATASHEET

Kirby Morgan Superlite 27 Commercial Diving Helmet



THIS PRODUCT HAS THE FOLLOWING OPTIONS:

With Posts

With Male Waterproof Connector

OVERVIEW



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The Kirby Morgan Super/Lite 27 Commercial Divers Helmet is the product of years of research and testing. This Kirby Morgan Commercial Diving Helmets design gives the commercial diver a reliable and extremely comfortable commercial diving

FEATURES

SuperFlow® 350 Regulator: This all metal, fully adjustable, Commercial Rated, demand regulator provides easy breathing and excellent performance with low pressure compressors.

Air Train: The air train diffuses incoming breathing air/gas onto the face port/lens to defog and ventilate.

Defogging Steady Flow Valve: Provides an additional flow of gas into the helmet for ventilation and defogging.

Emergency (EGS) Valve: Supplies backup breathing gas to the diver.

Fiberglass and Carbon Fiber Reinforced Shell: Kirby Morgan® has over 50 years experience in composite laminations. The helmet shell is hand laid up glass fiber reinforced thermal setting polyester (fiberglass) with carbon fiber reinforcement at key points for added durability. It is light and highly impact resistant, and provides a heat/cold barrier as well as being an excellent electrical nonconductor.

Gas Supply Non-Return Valve: Commercial Rated, It prevents loss of gas pressure in the event of umbilical damage

Nose Block Device: Allows the diver to block the nose to equalize ears.

Rapid Change Modular Communications Systems: Because the module is easily removed the helmet, repair or replacement of communications parts is quick and trouble free. It is available with either a male waterproof connector or a bare wire post connection.

Side Block: Multi use side block has additional ports built in to provide controlled air flow, if needed.

Silicone Oral Nasal Mask: Made of a superior silicone material which is hypo-allergenic and has a longer work life than latex.

Top Handle: Handle can be removed without breaking seals, making it quick and easy to attach accessories.

Whisker Wings: Bubble deflecting Whisker wings keep bubbles further from face port and ears, improving visibility and decreasing internal noise.

SPECIFICATION



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The SuperLite 27 commercial divers helmet has been tested and conforms to the performance requirements as set forth in Annex II of Directive 89686EEC and as far as applicable the EN 250:2000 EN 250A1:2006 and EN 15333-1:2008 (class B). It is fully CE marked with demand regulator SuperFlow® 350 and oral nasals PN 510-690 and PN 510-747.

Weight: SL 27® - 28.47 pounds.

Helmet shell: Fiberglass polyester resin polyester gel coat and carbon fibers

Control knobs: Polyurathane

Lens: Clear polycarbonate

Neck dam: Neoprene

O-Rings: Buna-N

Head cushion: Nylon bag filled with ,4 Polyester foam

Cage Code: The cage code for identifying Kirby Morgan DSI products for U.S. government purposes is 58366.

CE Approved: The Kirby Morgan Superlite 27 commercial divers helmet is CE Approved.

Temperature limitations: Use at water temperatures below 33 Degrees F (1Degrees C) requires use of hot water shroud (525-100) and hot water.

Certifications: The commercial divers helmet has been tested and conforms to the performance requirements as set forth in Annex II of Directive 89686EEC and as far as applicable the EN250 (edition Jan 2000) and the E DIN 58 642 (edition Feb 1998). When the commercial divers helmet is used for air diving in countries that conform to C.E. regulations it may be used to a maximum depth of 164fsw (50 msw). I.A.W. EN250.

Recommended Lubricants: All commecial diving helmets and band masks are lubricated at the factory with Christo Lube. Kirby Morgan DSI recommends Christo Lube for all gas train components. Dow Corning 111 Silicone lubricant may also be used with gas mixtures less than 50% oxygen.

Regulator Performance SuperFlow 350 Performance: The Kirby Morgan SuperFlow 350 regulator on the Kirby Morgan Superlite 27 Commercial Diving Helmet offers high performance. The commercial diving regulator has been tested at Dive Lab at Panama City Florida. It meets all current U.S. Navy and European commercial diving standards.

CR Standards: These commercial diving helmets meet or exceed all standards established by Dive Lab of Panama City Florida and are CR (Commercially Rated) marked.

The Kirby Morgan Hot Water Shroud (Part ,525-100) in conjunction with hot water to the commercial diver should be used whenever commercial diving operations are conducted using HEO2 at water temperatures less than 60 Degrees F (15.56 Degrees C) for the comfort of the commercial diver. Kirby Morgan DSI further recommends that the hot water shroud be used in conjunction with hot water to the commercial diver whenever commercial diving operations are conducted using air or mixed gas in waters colder than 36 Degrees F (2.22 Degrees C) to reduce the possibility of demand regulator icing. Usually the greatest danger of demand regulator icing will be encountered on deck when the surrounding air temperature is less than 32 Degrees F (0 Degrees C). This effect is primarily due to the refrigeration effect of breathing air pressure reduction and the addition of moisture from the commercial divers exhalation coming in contact with the topside air temperature. If commercial diving where the water temperature is 36 Degrees F (2.22 Degrees C) or warmer but the topside air temperature is below freezing (32 Degrees F (0 Degrees C) icing of the demand regulator is possible. To help eliminate the possibility of freezing on the surface warm water should be run over



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the exterior of the demand regulator prior to water entry if the hot water system is not used. Only equipment certified and tested according to EN 250E DIN 58 642 may be used with the Kirby Morgan Superlite 27 commercial divers helmet when conducting commercial diving operations in European EC compliant countries. The umbilical assembly should be composed of good quality commercial diving hose that meets commercial diving industry standards. Generally air gas hose will be married to the communications wire pneumofathometer hose and strength member in a manner that will allow the strength member to receive all the strain. Regardless of the system used the divers umbilical is the commercial diver's life line and should always be of excellent quality and maintained carefully.

ORDER THIS PRODUCT

To order this product or to request a price contract our UK sales team on **+44 (0)1772 687775**

Alternatively you can place a quote request through our website [http://www.smp-ltd.co.uk/](http://www.smp-ltd.co.uk) or send an email to sales@smp-ltd.co.uk