

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No: MEDB0000169 Revision No: 4

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Self-contained compressed-air-operated breathing apparatus

with type designation(s) RHZK 6/30 and RHZK 6.8/30 positive pressure fire-fighting air respirator with full face mask

Issued to Jiangsu Huayan Marine Equipment Co., Ltd. Jiangsu, China

is found to comply with the requirements in the following Regulations/Standards: Regulation **(EU) 2023/1667**,

item No. MED/3.7. SOLAS 74 as amended, Regulation II-2/10 & X/3, 2000 HSC Code 7, FSS Code 3, IBC Code 11, IGC Code 11 and IMO MSC.1/Circ.1499, IMO MSC.1/Circ.1555.

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until 2028-10-24.

Issued at Hamburg on 2023-10-25

DNV local unit: Nanjing NB & CMC

Approval Engineer: Roland Priebe



Notified Body No.: 0098

for DNV GL SE

Christine Mydlak-Roeder Head of Notified Body

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the productionsurveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment.

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Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: 344.1 Certificate No: MEDI Revision No: 4

344.1-005561-11 MEDB0000169

Product description

"RHZK 6/30 and RHZK 6.8/30 positive pressure fire-fighting air respirator with full face mask" consisting of the following principle components:

a. Type HYM-I or HYM-II Class 2: full face masks for general use,

- b. Air supply valve:
 - Type RHZK6/30-8A,
 - Type RHZK6/A-4 (acc. to test reports 2016158-1, 2017010, 2017012 and 2017188),
- c. Rest air warning system by mechanical sound alarm & display of pressure gauges devices acc. to amendments required by IMO Res. MSC.339 (91) i.c.w. IMO MSC.1/Circ.1499),
- d. Pressure reducer,
- e. Pressure gauge,
- f. Backboard,
- g. Compressed air cylinder:
 - RHZK6/30, steel (volume: 6 litres),
 - RHZK6.8/30, carbon fibre composite cylinder (volume: 6.8 litres).
- h. Polyester safety belt L = 1.5m,
- i. Lifeline HYN-2

Maximum working pressure:

300 bar RHZK 6/30 and RHZK 6.8/30.

For further details, see the documents listed under Type Examination documentation below.

Application/Limitation

Approved for use as self-contained compressed air breathing apparatus of fire-fighter's outfit.

The apparatus is not for use in accidents with cargoes.

All air cylinders for breathing apparatus shall be interchangeable.

A set of manufacturer's instructions shall accompany every unit and should be kept onboard. Manufacturer's instructions for application / limitations, checks prior to use, donning and fitting, use, cleaning and disinfection, maintenance, transport and storage shall be adhered to.

Each SCBA shall be used together with an approved lifeline (complying with the requirements of MED/3.44 and ISO 23269-2 Para 4.28.) as part of the fire-fighters outfit according to FSS Code Ch.3.2.1.3.

Each product is to be supplied with its manual for use and maintenance.

Type Examination documentation

Test Report Nos. 2003102, 2003103, 200703, 2011149, 2011150 dated 20th of March 2012, 2012073 dated 12th of May 2012 all issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Test Report Nos. 2016158-1 dated 2nd of December 2016, 2017010 and 2017012 both dated 1st of March 2017 and 2017188 dated 18th of November 2017 all issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Test Report No.2018100 dated 21th of September 2018 issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Test Report No.2018098 dated 21th of September 2018 issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Statement (Comparison of EN137 and ISO 23269-2 standard) dated 16th of August 2018 issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Instruction manual from the manufacturer dated 3rd of January 2018.



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Tests carried out

Tested according to ISO 23269-2:2011.

Marking of product

The product is to be marked in accordance with and ISO 23269-2 §9 and with the MED Mark of Conformity (see first page).

The compressed air cylinder markings shall include the charging pressure, capacity and the stamp of the authorised inspection body.