

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 Emergency escape breathing devices (EEBD)

with type designation(s)
THHZ10 and THHZ15

Issued to

Nantong Haizhou Marine Equipment Co.,Ltd.
Haimen, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.41. SOLAS 74 as amended, Regulation II-2/13, FSS Code 3 and IMO
MSC/Circ. 849

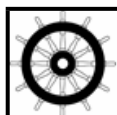
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-02-25**.

Issued at **Hamburg** on **2020-02-26**

DNV GL local station:
Nantong

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance 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. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. 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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Product description

The **THHZ10 and THHZ15** are self-contained Emergency Escape Breathing Devices (EEBD) which are designed for a duration of 10 minutes (THHZ10) and 15 minutes (THHZ15).

EEBD	Duration	Capacity	Weight
THHZ10	10 min.	2 ltr. at 210 bar	<6 kg
THHZ15	15 min.	3 ltr. at 210 bar	~7 kg

The EEBD consists of

- cylinder with regulator assembly / pressure gauge,
- hood with face mask and hose assembly and
- carrying bag.

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

Approved to provide personnel breathing protection during escape from a compartment that has a hazardous atmosphere. Not to be used for firefighting or when entering oxygen deficient tanks or voids, or worn by fire fighters.

Rated working duration: see above table

Each product is to be supplied with its manual for use and maintenance. Where the reliable performance of the breathing device or parts thereof are dependent of special attention due to ageing, use, cleaning or disinfection, storage conditions, service, replacement of parts etc., this shall be clearly stated here.

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

Type Examination documentation

Test report No. 2009013 dated 10th July 2009 and No. 2012119 dated 14th September 2012 from Wuhan Quality Test Center for Marine Survival Equipment, Wuhan, China.

This certificate is based on the previous MED-B 75964-09 HH dated 2015-12-21.

Tests carried out

Tested according to ISO 23269-1:2008 and EN 1146:2005.

Marking of product

The product is to be marked with name and address of manufacturer, type designation and the MED Mark of Conformity (see first page).

In addition, it shall also be marked according to IMO FSS Code Ch.3 §2.2.4, ISO 23269-1:2008 §9 and EN 1146:2005 § 8.