



EC TYPE EXAMINATION (MODULE B)  
CERTIFICATE No. MED508123WS/001

*This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2023/1667.*

MED Item N°

**MED/3.7**

Description

**Self-contained compressed-air-operated breathing apparatus**

Type

**RHZK6; RHZK6.8**

Applicant

**SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.**

BUILDING.41,NO.1-42, LANE 83  
NORTH HONGXIANG ROAD, WANXIANG TOWN  
PUDONG NEW AREA, SHANGHAI, CHINA

Testing standards

**ISO 23269-2:2011 (fire fighting - maritime use only)**

Reference standards

**SOLAS 74 Reg.II-2/10, SOLAS 74 Reg.II-2/15, SOLAS 74 Reg.II-2/19, IMO Res.MSC.4(48)-(IBC Code) 11, IMO Res.MSC.5(48)-(IGC Code) 11, IMO Res.MSC.36(63)-(1994 HSC Code) 7, IMO Res.MSC.97(73)-(2000 HSC Code) 7, IMO Res.MSC.98(73)-(FSS Code) 3, IMO MSC.1/Circ.1499, IMO MSC.1/Circ.1555.**

Issued in **SHANGHAI** on  
January 18, 2024

*This Certificate is valid until*  
January 17, 2029

*This Certificate consists of this sheet plus an attachment*



**Hai Wen Zhang**

**RINA Services S.p.A.**



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*Manufacturer*

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

*Place of Manufacturer*

BUILDING.41  
NO.1-42  
LANE 83  
NORTH HONGXIANG ROAD  
WANXIANG TOWN  
PUDONG NEW AREA  
SHANGHAI  
CHINA

*Name & place of Authorised Representative*

ANTONIO TRANI (SSI SRL)

Via Ponte dei Francesi 43 - 80146 Napoli, Vat 10227171211, ITALY  
ITALY

**Product Description**

Self-contained compressed-air-operated breathing apparatus designed in two different version with the following main characteristics:

Module	Max Working Pressure	Volume	Air Deposit	Using Time	Weight (Kg)	Packing Size (mm)	Working Temperature Range
RHZK6	30 Mpa	6 L	1800 L	≥60 min	≤ 18	750 x 300 x 500	-30 °C to 60 °C
RHZK6.8	30 Mpa	6.8 L	2040 L	≥60 min	≤ 18	750 x 300 x 500	-30 °C to 60 °C

**Main Components**

Components	Model	Manufacturer
Pressure Cylinder	6 L	Nanjing Banqiao Fire Equipment Co.,Ltd Jiangsu Huiyuan Fire-Fighting Science and Technology Co.Ltd Jiangsu Jiuwei High Pressure Vessel Manufacturer Co.,Ltd
	6.8 L	Zhejiang Kaibo Pressure Vessel Co., Ltd Shenyang Zhongfu Kejin Pressure Vessels Co.,Ltd
Air Cylinder Valve	KHF-30	Zhejiang Yuan Fire Equipment Co., Ltd Taizhou Xiangqing Safety Protection Equipment Co., Ltd
Pressure Reducer	FZJ-1 or FZJ-3 (With Secondary Decompression Function)	Shanghai Fangzhan Fire Technology Co.,Ltd
Air Supply Valve Assembly	FZG-1	Shanghai Fangzhan Fire Technology Co.,Ltd
Full-face Mask	FZM-1	Shanghai Fangzhan Fire Technology Co.,Ltd
Pressure Gauge and Rest Air Warning System	FZK06C (Electrical) or FZBJQ-1 (Mechanical)	Shanghai Fangzhan Fire Technology Co., Ltd
Back Frame and Harness	FZB-1 FZB-3 (Without or With Waist Rotation Function)	Shanghai Fangzhan Fire Technology Co.,Ltd
Fireproof Lifeline	FZNHS	Shanghai Fangzhan Fire Technology Co.,Ltd
SCBA Box	—	Shanghai Fangzhan Fire Technology Co.,Ltd

RINA Services S.p.A.  
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Breathing Resistance at low temperatures: The exhalation resistance shall not exceed 1 kPa.

Breathing Resistance at high temperature: The exhalation resistance shall not exceed 1 kPa.

Breathing Resistance (Inhalation resistance, Exhalation resistance) has been tested according to EN 13274-3, method 2 (settings E and H shall be used).

**Field of Application**

Self-contained compressed-air-operated breathing apparatus for shipboard use for fire-fighters, Type 1 mask shall not be used.

**Reference Documents**

The Main Technical Parameters, issued by Shanghai Fangzhan Fire Technology Co.,Ltd and filed by RINA with No.: SHFP-25375;

SCBA User Instruction, issued by Shanghai Fangzhan Fire Technology Co.,Ltd and filed by RINA with No.: SHFP-25376;

Marking, issued by Shanghai Fangzhan Fire Technology Co.,Ltd and filed by RINA with No.: SHFP-25379;

SCBA Material List, issued by Shanghai Fangzhan Fire Technology Co.,Ltd and filed by RINA with No.: SHFP-25380;

Technical Drawing of SCBA, issued by Shanghai Fangzhan Fire Technology Co.,Ltd and approved by RINA with No.: SHFP-25393 & 25394.

**Test Carried Out**

- Test Report (RHZK6, Ref No.:2018104) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-12696;
- Test Report (RHZK6.8, Ref No.:2018105) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-12697;
- Test Report (RHZK6, Ref No.: 2015141) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-12822;
- Test Report (RHZK6.8, Ref No.: 2015142) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-12824;
- Test Report (RHZK6, Ref No.: 2023115) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-25377;
- Test Report (RHZK6.8, Ref No.: 2023116) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-25378.





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**Remarks**

Both types of SCBA have been designed in compliance with MSC.338(91) and MSC.339(91). And each type of SCBA can be provided with long-distance communication call device (Type FZJ30C, made by Shanghai Fangzhan Fire Technology Co., Ltd), if requested by purchaser.

The SCBA can be equipped with different EC approved type Gas Cylinder of same capacity and Fireproof Lifeline in compliance with Directive 2014/90/EU as amended.

The breathing air shall comply with the requirements of EN 132. Each SCBA shall be marked according to ISO 23269-2:2011(E), Par.9. The markings shall be as required by the specified standards and shall also include the EC 'Mark of Conformity' according to the Directive. The compressed air cylinder markings shall include the charging pressure, capacity and the stamp of the authorized inspection body.

Additional information shall be supplied by the manufacturer after delivery. 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 and storage shall be adhered to. Use and maintenance only by trained and qualified persons.

**Note**

Renewal of Previous EC Type Examination (Module B) Certificate No.: MED130118WS/001 with below optimization.

- Add the new Model Back Plate (Model: FZB-3), which have two functions (with or without waist rotation function).

And,

- Add the new Model Pressure Reducer Assembly (Model: FZJ-3), which have secondary decompression function.

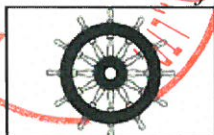






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*The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body*



**XXXX/YYYY**

**"WHEELMARK FORMAT"**

XXXX      Notified Body number undertaking surveillance module

YYYY      The year in which the mark is affixed

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**General conditions for the approval**

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.



**Hai Wen Zhang**

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**RINA Services S.p.A.**



**PRODUCTION QUALITY ASSURANCE (MODULE D)**  
**CERTIFICATE No. MED485323WS/002**

***This is to certify** that RINA Services S.p.A. did undertake the relevant quality assessment procedures for the equipment of the manufacturer identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of (EU) 2023/1667 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.*

<b>MED Item N°</b>	<b>MED/3.7</b>
<b>Description</b>	<b>Self-contained compressed-air-operated breathing apparatus</b>
<b>Type</b>	<b>RHZK6 RHZK6.8</b>
<b>Applicant</b>	<b>SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.</b> BUILDING.41,NO.1-42, LANE 83 NORTH HONGXIANG ROAD, WANXIANG TOWN PUDONG NEW AREA, SHANGHAI, CHINA
<b>Module B certificate</b>	<b>Number MED508123WS/001</b> <b>Date 01/18/2024</b> <b>Notified Body RINA (No. 0474)</b>

*Issued in* RINA China Marine  
*on*  
January 26, 2024

*This Certificate is valid until*  
March 24, 2026

*This Certificate consists of this sheet plus an attachment*

*This certificate authorises the Manufacturer or his authorised representative established within the Community in conjunction with the EC TYPE EXAMINATION (MODULE B) CERTIFICATE to affix the following symbol on the equipment above identified.*



**0474/YYYY**

**YYYY**      *The year in which the mark is affixed*



**Hong Gu**  
**RINA Services S.p.A.**



ATTACHMENT TO  
CERTIFICATE No. MED485323WS/002

*Equipment:*

RHZK6  
RHZK6.8

*Manufacturer*

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

*Place of Manufacturer*

BUILDING.41  
NO.1-42  
LANE 83  
NORTH HONGXIANG ROAD  
WANXIANG TOWN  
PUDONG NEW AREA  
SHANGHAI  
CHINA

*Name & place of Authorised Representative*

ANTONIO TRANI (SSI SRL)  
Via Ponte dei Francesi 43 - 80146 Napoli, Vat 10227171211  
ITALY

*Technical documentation*

INTERMEDIATE SCHEDULED AND UNSCHEDULED AUDITS			
Due Date	Carried out on	Surveyor's signature	Surveyor's stamp
03/24/2024			
03/24/2025			

*General conditions for the approval*

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- d) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- e) RINA may revoke the approval in the case of modifications to requirements or conditions for the approval
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.
- g) This certificate loses its validity in case the EC type Examination (Module B) certificate is no more valid.

**Hong Gu**

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**PRODUCTION QUALITY ASSURANCE (MODULE D)**  
**CERTIFICATE No. MED485323WS/003**

***This is to certify** that RINA Services S.p.A. did undertake the relevant quality assessment procedures for the equipment of the manufacturer identified below, which was found to be in compliance with the Other safety equipment requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of (EU) 2023/1667 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.*

<i>MED Item N°</i>	<b>MED/7.1</b>
<i>Description</i>	<b>Self-contained compressed-air-operated breathing apparatus for entry and work in gasfilled space</b>
<i>Type</i>	<b>RHZK6 RHZK6.8</b>
<i>Applicant</i>	<b>SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.</b> BUILDING.41,NO.1-42, LANE 83 NORTH HONGXIANG ROAD, WANXIANG TOWN PUDONG NEW AREA, SHANGHAI, CHINA
<i>Module B certificate</i>	Number <b>MED508123WS/002</b> Date <b>01/18/2024</b> Notified Body <b>RINA (No. 0474)</b>

*Issued in* RINA China Marine  
*on*  
January 26, 2024

*This Certificate is valid until*  
March 24, 2026

*This Certificate consists of this sheet plus an attachment*

*This certificate authorises the Manufacturer or his authorised representative established within the Community in conjunction with the EC TYPE EXAMINATION (MODULE B) CERTIFICATE to affix the following symbol on the equipment above identified.*



**0474/YYYY**

*YYYY      The year in which the mark is affixed*



**Hong Gu**  
**RINA Services S.p.A.**



ATTACHMENT TO  
CERTIFICATE No. **MED485323WS/003**

*Equipment:*

**RHZK6  
RHZK6.8**

*Manufacturer*

**SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.**

*Place of Manufacturer*

**BUILDING.41  
NO.1-42  
LANE 83  
NORTH HONGXIANG ROAD  
WANXIANG TOWN  
PUDONG NEW AREA  
SHANGHAI  
CHINA**



*Name & place of Authorised Representative*

**ANTONIO TRANI (SSI SRL)  
Via Ponte dei Francesi 43 - 80146 Napoli, Vat 10227171211  
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*Technical documentation*

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Due Date	Carried out on	Surveyor's signature	Surveyor's stamp
03/24/2024			
03/24/2025			

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- g) This certificate loses its validity in case the EC type Examination (Module B) certificate is no more valid.

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