

**TYPE APPROVAL CERTIFICATE**  
**No. FPE325905CS**




**This is to certify** that the product identified below is in compliance with the regulations herewith specified

<i>Description</i>	<b>FIXED AEROSOL FIRE-EXTINGUISHING SYSTEM</b>
<i>Type</i>	<b>MAX MARINE SYSTEM</b>
<i>Applicant</i>	<b>MINIMAX SRL VIA RISTORI 31 16151 GENOVA (GE) ITALY</b>
<i>Manufacturer</i>	<b>MINIMAX SRL</b>
<i>Place of manufacture</i>	<b>VIA RISTORI 31 16151 GENOVA (GE) ITALY</b>
<i>Reference standards</i>	<b>RULES FOR THE TYPE APPROVAL OF FIXED AEROSOL FIRE-EXTINGUISHING SYSTEMS IN MACHINERY SPACES, ISO 9094-1, ISO 9094-2</b>

*Issued in Genoa on September 20, 2005. This Certificate is valid until September 19, 2010*



  
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RINA

*Franca Parisi*

This certificate consists of this page and 1 enclosure

**FPE325905CS****MAX MARINE SYSTEM****Product description**

Remote controlled pre-engineered fixed aerosol fire-extinguishing system. The system is constituted of self-standing modules having the capacity of 200g, 500g, 850g respectively, produced by Eptos, Moscow (Russia). The characteristics of the systems are specified in Minimax specification booklets "Max Marine 30" filed with n° FPE0004512, "Max Marine 65" filed with n° FPE0006110, "Sistema Max Marine" filed with n° FPE0006535.

The remote activation of the system is of electrical type by means of a control box located outside the protected space.

**Field of application**

A and B Class Fires in Unmanned machinery spaces of all vessels having a length not exceeding 24 m and machinery spaces with a gross volume not exceeding 70 m<sup>3</sup>, to which Directive 96/98/EC as amended is not applicable.

**Installation requirements**

The system shall be installed and designed according to the following table and according to the manufacturer technical specification booklet "Sistema Max Marine" filed with n° FPE0006535.

System designation	Number of "Max Marine" modules (4)	Protected Net volume (1)
MAX MARINE 10	One module having the capacity of 200g (2)	up to 10 m <sup>3</sup>
MAX MARINE 20	One module having the capacity of 500g (2)	from 11 m <sup>3</sup> to 20 m <sup>3</sup>
MAX MARINE 30	One module having the capacity of 850g (2)	from 21 m <sup>3</sup> to 30 m <sup>3</sup>
MAX MARINE 45	Two modules having the capacity of 500g each (3)	from 31 m <sup>3</sup> to 40 m <sup>3</sup>
MAX MARINE 70	Two modules having the capacity of 850g each (3)	from 41 m <sup>3</sup> to 65 m <sup>3</sup>

(1) The system cannot be installed in machinery spaces having a gross volume exceeding 70 m<sup>3</sup>.

(2) When one module is installed it shall be located approximately between two corners of the protected space.

(3) When two modules are installed they shall be located facing out to each other on two opposite corners of the protected space.

(4) Modules shall be located within 500 mm from the ceiling of the protected space.

**Reference documents**

- Minimax technical specification booklet "Max Marine 30" filed with n° FPE0004512.
- Minimax technical specification booklet "Max Marine 65" filed with n° FPE0006110.
- Minimax technical specification booklet "Sistema Max Marine" filed with n° FPE0006535.
- Test report filed with n° FPE0007586.

**TYPE APPROVAL CERTIFICATE****No. FPE325905CS****Enclosure - Page 2 of 2****MAX MARINE SYSTEM****Tests carried out**

- Fire tests witnessed by RINA surveyor as per Minimax tests reports dated 30 July 2004, contained in the Minimax booklet filed with n° FPE0004512.
- Fire tests witnessed by RINA surveyor as per Minimax tests reports dated 28 January 2005, included in the Minimax booklet filed with n° FPE0006110
- Fire tests witnesses by RINA surveyor as per tests reports dated 3-4 August 2005 included in the report filed with n°FPE0007586.

**Remarks**

- This certificate annuls and replaces certificate number FPE37505CS issued on May 5, 2005.
- The system shall be activated from the main steering position;
- If the main steering position is more than 5 m away from the space to be protected means of local activation shall be provided close to such a space;
- The release device shall be readily accessible and operable;
- A visual indication of discharge shall be provided;
- Automatic release of the system is not accepted, in this respect the external cable (thermal detector) shall not be installed.

Mass produced articles of the aforesaid material are to be marked or labelled with the trade name and the data of the Company to whom this Certificate is addressed. The validity of this Certificate is dependent on the compliance of each manufactured product with the prototype which underwent the type approval tests and such compliance shall be stated by the manufacturer. Moreover, the Company is fully responsible for ensuring compliance by performing all the necessary checks also in respect of its sub-suppliers. Notwithstanding the above, RINA reserves the right to make any checks it deems appropriate during production. The validity of this Certificate ceases in the case of amendments to the rules on the basis of which the Certificate was issued.

Genoa 20/09/2005

