



RINA

Genova, October 10, 2002

**PYROGEN LTD. GILNOW MILL BUSINESS
CENTRE
(Encl.:2) SPA ROAD
BL1 4LF BOLTON
UNITED KINGDOM**

our ref.: **FPE / FPE72102CS / FVA on 10/10/2002 (02-CS-TO-721)**
subject: **TYPE APPROVAL CERTIFICATE No.FPE72102CS
Pyrogen MAG Aerosol Fire extinguishing system**

With reference to your kind request concerning the certification in subject, we are pleased to send you the above Certificate issued on 10 October 2002, together with the relevant invoice

Best Regards

A handwritten signature in black ink, appearing to read 'Andrea Oll'.

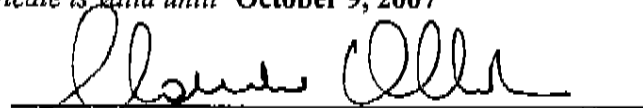
TYPE APPROVAL CERTIFICATE
No. FPE72102CS



This is to certify that the product identified below is in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	Fixed fire-extinguishing systems
<i>Type</i>	Pyrogen MAG Aerosol Fire extinguishing system
<i>Applicant</i>	PYROGEN LTD. GILNOW MILL BUSINESS CENTRE SPA ROAD BL1 4LF BOLTON UNITED KINGDOM
<i>Reference standards</i>	RINA Rules for classification and construction of pleasure vessels; RSG Guidelines; ISO/FDIS 9094-1; ISO 9094-2

Issued in Genoa on October 10, 2002. This Certificate is valid until October 9, 2007



RINA

Claudio Abbate

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE
No. FPE72102CS
Enclosure - Page 1 of 2
Pyrogen MAG Aerosol Fire extinguishing system

Manufacturer

Federal Centre for Dual Technologies "Soyuz"
6, Sovetskaya Street
140056 Dzerhinsky (Moscow Region)
Russia

Product description

Manually and automatic operated extinguishing system using aerosol (Powdered Aerosol C) as extinguishing medium.

Maximum protected volume:	35 m ³
Maximum height of the protected space:	2.4 m
Minimum design density:	117 g/m ³

Mass of extinguishing medium, number and position of generators to be chosen according to manufacturer's specification

Field of application


Normally unoccupied spaces of small craft

Reference documents

Pyrogen "Design, operation & maintenance manual - P/N D2000-0010 rev. 1.6 dated 9 March 2001", filed with no. 6015823

Tests carried out

Fire tests as per Certificate of inspection and tests dated 01-02-2001 and Test report no. PGUK:9-12/99 dated 09-12-99, issued by UK Maritime and CoastGuard Agency, filed with no. 6015819-6015820.



TYPE APPROVAL CERTIFICATENo. **FPE72102CS**

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Pyrogen MAG Aerosol Fire extinguishing system**Remarks**

- The arrangement of the system shall be such that the operator can manually override the automatic mode
- The release device shall be readily accessible and operable
- Safety labels and warning notices shall be placed at the entrance of the protected spaces, inside the protected enclosure and at the system operating positions
- The following details shall be submitted to RINA Head Office for approval for each installation:
 1. schematic arrangement of the system,
 2. capacity calculations;
 3. wiring diagrams and cable specifications;
 4. inspection requirements and maintenance procedures

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 10/10/2002