

**CERTIFICATO DI APPROVAZIONE DEL SISTEMA DI QUALITA'****CERTIFICATE OF QUALITY SYSTEM APPROVAL****N° CE-1370-PED-H-EMM 001-15-ITA**

Bureau Veritas Italia SpA, agendo nell'ambito della notifica (numero dell'organismo notificato 1370), attesta che il sistema di qualità applicata dal fabbricante per la produzione, l'ispezione finale e le prove sulle attrezzature a pressione identificati di seguito è stato esaminato secondo le prescrizioni del modulo H dell'allegato III della direttiva "Attrezzature a pressione" N° 97/23/CE ed è conforme alle disposizioni della Direttiva.

Bureau Veritas Italia SpA, acting within the scope of its notification (notified body number 1370), attests that the quality system operated by the manufacturer for design, manufacture, final inspection and testing of the pressure equipment identified hereunder has been examined against the provisions of annex III, module H, of the Pressure Equipment Directive n° 97/23/EC, and found to satisfy the provisions of the directive which apply to it.

Fabbricante (Nome) / Manufacturer (Name):

EMME ANTINCENDIO S.r.l.

Indirizzo / Address:

Sede legale: Via. G. Di Vittorio, 9-50121 Firenze (FI)

Sede produttiva: Via del Molino, 40 – 52010 Corsalene (AR)

- -

Italy

Nome - Marchio commerciale:

EMME ANTINCENDIO S.r.l.

Trading Name - Mark

Descrizione dell'attrezzatura / Equipment description:

INSIEMI ESTINTORE PORTATILI E CARRELLATI in CAT.III

Identificazione delle attrezzature (elenco in allegato dove necessario):

(VEDERE ALLEGATO)

Identification of equipment concerned (list attached where necessary)

Questo certificato scadrà il (gg/mm/aaaa):

08/07/2018

This certificate will expire on (dd/mm/yyyy)

Il presente certificato è valido a fronte della realizzazione da parte di Bureau Veritas Italia SpA degli audit di sorveglianza, di prove e di verifiche secondo il contratto firmato dal fabbricante ed il Bureau Veritas Italia SpA.

The approval is conditional upon the surveillance audits, tests and verifications to be carried out by Bureau Veritas Italia SpA, as per the provisions stated in the agreement signed with the manufacturer.

Questo certificato è presunto nullo ed il fabbricante si farà esclusivo carico delle conseguenze del suo utilizzo, se le assicurazioni - fornite dal fabbricante durante la richiesta d'intervento - in questione (a) di applicazione del suo sistema qualità approvato e (b) di ispezione e di prove dei prodotti finali si rivela non esatto e, in generale, se il fabbricante non rispetta uno qualsiasi dei obblighi imposti a suo carico dalla Direttiva 97/23/CE del 29 maggio 1997 così come trasposto nelle leggi nazionali applicabili.

This certificate shall be deemed to be void and the manufacturer shall alone bear any consequences pursuant to its use, where the manufacturer fails to comply with his undertakings as per the agreement in respect of (a) implementation of the approved quality system and (b) inspection and tests on the final product, and generally where the manufacturer fails in particular to comply with any of his obligations under directive nr 97/23/EC of 29 may 1997 as transposed in the applicable law(s).

Fatto a Made at	Il (gg/mm/aaaa) On (dd/mm/yyyy)	Approvato e Registrato in Approved and Recorded in	Firmato da Signed by	Firma autorizzata dall'Organismo Notificato N 1370 Signature Authorized by Notified Body No 1370
Milano	10/07/2015	Italy	LUCA PIAGGESI	

Codice di Registrazione / Registration Code: 2015/001292/CE-1370-PED

Il presente attestato è sottomesso alle Condizioni Generali di Vendita di Bureau Veritas Italia SpA allegati alla domanda d'intervento firmata dal richiedente.

This certificate is subject to the terms of Bureau Veritas Italia SpA General Conditions of Service attached to the agreement signed by the applicant.

Il presente documento non può essere riprodotto parzialmente se non con l'approvazione scritta di Bureau Veritas Italia SpA e del Cliente.

The present document shall not be reproduced, except in full, without Bureau Veritas Italia SpA and Client's approval.



N° CE-1370-PED-H-EMM 001-15-ITA

Allegato al certificato di approvazione del sistema qualità*Annex to the certificate of quality system approval***Elenco degli apparecchi***List of the concerned equipment*

FAMIGLIE DI INSIEMI ESTINTORE PORTATILI E CARRELLATI /
ASSEMBLY FAMILIES OF EXTINGUISHER PORTABLE AND WHEELED:

Descrizione Famiglia: Portatili Polvere EN3/7
Codice Famiglia: 002
Codice Prodotto: 0004 -1/-99
Fascicolo Tecnico: DTE-002-rev.0 del 26/05/2015

Descrizione Famiglia: Portatili Schiuma EN3/7
Codice Famiglia: 003
Codice Prodotto: 0034 -1/-99
Fascicolo Tecnico: DTE-003-rev.0 del 25/06/2015

Descrizione Famiglia: Portatili Polvere D
Codice Famiglia: 270
Codice Prodotto: 0040 -1/-99
Fascicolo Tecnico: DTE-270-rev.0 del 26/05/2015

Descrizione Famiglia: Automatici Gas HFC
Codice Famiglia: 230
Codice Prodotto: 1892 -1/-99
Fascicolo Tecnico: DTE-230-rev.0 del 15/01/2015

Descrizione Famiglia: Automatici Polvere
Codice Famiglia: 240
Codice Prodotto: 2137; 2138; 2154; 0028; 0030; 2835; 2835-1; 2835-2
Fascicolo Tecnico: DTE-240-rev.0 del 15/01/2015

Descrizione Famiglia: Portatili Polvere Bombola Interna EN3/7
Codice Famiglia: 260
Codice Prodotto: 3006 -1/-99; 3009 -1/-99; 3012 -1/-99
Fascicolo Tecnico: DTE-260-rev.0 del 15/01/2015

Descrizione Famiglia: Carrellati Polvere EN1866 Bombola Esterna CO2/N2
Codice Famiglia: 140-01
Codice Prodotto: 18204 -1/-99; 18216 -1/-99; 18223 -1/-99; 18231 -1/-99
Fascicolo Tecnico: DTE-140-01-rev.1 del 25/05/2015



**N° CE-1370-PED-H-EMM 001-15-ITA**

ENGLISH TRANSLATION FOR ASSEMBLY FAMILIES OF EXTINGUISHER PORTABLE AND WHEELED

Description: Extinguisher Portable Powder approval EN3/7

Assembly Category:002

Codes:0004 -1/-99

Description: Extinguisher Portable Foam approval EN3/7

Assembly Category:003

Codes:0034 -1/-99

Description: Extinguisher Portable D Powder

Assembly Category:270

Codes:0040 -1/-99

Description: Automatic Extinguisher Gas HFC 227

Assembly Category:230

Codes:1892 -1/-9

Description: Automatic Extinguisher Powder

Assembly Category:240

Codes:2137; 2138; 2154; 0028; 0030; 2835; 2835-1; 2835-2

Description: Extinguisher Powder internal cartridge approval EN3/7

Assembly Category:260

Codes:3006 -1/-99; 3009 -1/-99; 3012 -1/-99

Description: Wheeled Extinguisher Powder EN1866-1 CO2/N2 external cartridge

Assembly Category:140-01

Codes:18204 -1/-99; 18216 -1/-99; 18223 -1/-99; 18231 -1/-99





TYPE APPROVAL CERTIFICATE
No. FPE139615CS

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

<i>Description</i>	FIXED CLEAN AGENT FIRE EXTINGUISHING SYSTEM FOR MACHINERY SPACES
<i>Type</i>	FIXED CLEAN AGENT HFC227ea FIRE EXTINGUISHING SYSTEM SERIES "MARE"
<i>Applicant</i>	EMME ANTINCENDIO S.R.L. VIA DEL MOLINO 40 - LOC. CORSALONE 52010 CHIUSI DELLA VERNA (AR) ITALY
<i>Manufacturer</i>	EMME ANTINCENDIO S.R.L.
<i>Place of manufacture</i>	VIA DEL MOLINO 40 - LOC. CORSALONE 52010 CHIUSI DELLA VERNA (AR) ITALY
<i>Reference standards</i>	ISO 9094-1:2003 ; ISO 9094-2:2002
<i>Reference documents</i>	Rules for the Type Approval of Fixed Clean Agent Fire-Extinguishing Systems in Machinery Spaces

Issued in **Genoa** on **May 19, 2015**. *This Certificate is valid until* **May 18, 2020**



For

RINA Services S.p.A.
Piero Moncheroni

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE**No. FPE139615CS****Enclosure - Page 1 of 1****FIXED CLEAN AGENT HFC227ea FIRE EXTINGUISHING SYSTEM SERIES "MARE"****Product description**

Fixed clean agent fire-extinguishing system for machinery space with the following main characteristics:

System characteristics			
Components	System type	MARE 3 / MARE 6 / MARE 12	MARE EASY 3 / MARE EASY 6 MARE EASY 12
	Clean agent container	One cylinder stored into the protected space upside	One cylinder stored into the protected space upside down
	Discharge devices and distribution	Discharge valve assembled on the cylinder connected by copper pipe (10x1) with two discharge nozzles	Discharge sprinkler valve with thermosensible bulb (93°C) assembled on the cylinder
System activation		Manual activation with steel wire	Automatic
Extinguishing agent		Non ozone-depleting fire suppressant heptafluoropropane HFC 227 - Trading name FM 200	
Installation requirements			
FM 200 quantity (kg)		Max gross volume of the protected space (m ³)	
3		5	
6		10	
12		20	

Field of application

A and B Class fires in unmanned machinery spaces of pleasure vessels having a length not exceeding 24 m and machinery spaces with a gross volume not exceeding 20 m³, to which Directive 96/98/EC as amended is not applicable.

Reference documents

- Manuale Tecnico Impianto MTI 01, issued by EMME Antincendio Srl and filed by RINA with n° CSST 12492;
- Layout impianti a gas modello MARE, issued by EMME Antincendio Srl and approved by RINA with n° CSST 12493;
- Nozzle for fixed fire extinguishing system MARE, dwg n° 2163, issued by EMME Antincendio Srl and approved by RINA with n° CSST 12498;

Tests carried out

- Fire tests n°2015CS011396/RSA witnessed and filed by RINA with n° CSST 12499;

Remarks

- In case of vessels certified according to directive 94/25/CE (CE marked), reference is to be made at ISO Standards 9094-1:2003 and 9094-2:2002.
- The system is to be activated from the main steering position. If the main steering position is more than 5 m away from the protected space means of local activation are to be provided close to such a space.
- The release device is to be labelled, readily accessible and operable.
- Visual indication of discharge is to be provided on CE marked vessels, audible indication is to be added on in RINA vessels.
- Operation of the system is to be performed after closing of any protected space opening.
- Automatic release of the system is accepted on RINA vessels with protected spaces' gross volume up to 14 m³ and on CE marked vessels only.
- Maximum agent concentration per net volume is not to exceed the NOAEL level - 9%.

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 May 19, 2015