



CERTIFICATE OF TYPE APPROVAL

Certificate No. *FPE/0001/2025*

Certificate Date. *23/07/2025*

Applicant Company Details:

Company Name: ***MERCI CONTROL SYSTEMS TRADING LLC***

Address: ***RNA Resources Building, Al Quoz, Dubai, UAE***

PO Box: 391147

This is to certify that the product mentioned below is found to be in compliance with the applicable requirements of the reference/standard as mentioned below:

Product Description: ***FIXED AEROSOL FIRE-EXTINGUISHING SYSTEM***

Type: ***AF-X FIREBLOCKER***

Class: ***nBL, nBM, nBS, nBXS, nCM, nCS, nCXs, nCXSS***

Manufacturer Name and address:

***AF-X SYSTEMS BV
Impuls 20, 446WX Purmerend, NETHERLANDS***

Reference Standard/Documents:

***IMO MSC/Circ.1270 incl. Corr.1, as amended
Rules for the Type Approval of Fixed Aerosol Fire-Extinguishing Systems in
Machinery Spaces***

This certificate remains valid until ***23/07/2030***

TASNEEF
(Signature and stamp)



For (Wan Kamarul Ariffin)



**ATTACHMENT TO
CERTIFICATE No. FPE/AUH/0001/2025
Page 2 of 3**

Drawings and Documents:

- Design, Installation, Operational and Maintenance Manual AF-X Fireblocker Nano Series, issued by AF-X System BV and approved by RINA with n° CSST 24413;
- Technical Data Sheet AF-X Fireblocker, issued by AF-X System BV and approved by RINA with CSST 24414
- Datasheet of proposed type of control and indication system for aerosol fire extinguishing system, filed by RINA with CSST 24415, CSST 24416 and CSST 24431.

Reviewed/Approved Drawing/document reference no. & date:

Material Certificate:

Test Reports:

Test report n°2024-Efectis-R000671 issued by Efectis Nederland BV and filed by RINA with n° CSST 24412.

Product Marking: The product to be marked with the manufacturer's name, rating, type and designation.

Aerosol generating pre-engineered fire-extinguishing system with dry condensed extinguishing agent constituted of a self-standing modules having the followings main characteristics:

Model	BXS	BS	BM	BL
Shape	square	square	square	square
Dimension (mm)	185x200x160	185x200x160	250x250x304	250x250x304
Gross weight (Kg)	4.3	4.6	21	18.6
Extinguishing agent (g)	750	1050	2550	3900
Efficiency coefficients	68,8 %	70,0 %	69,4 %	78,9 %
Minimum installation height (horizontally)	50 cm	50 cm	100 cm	100 cm
Maximum installation height	260 cm	300 cm	500 cm	800 cm

Model	CXXS	CXS	CS	CM
Shape	cylindrical	cylindrical	cylindrical	culindrical
Dimension (mm)	38Ø x 180	38Ø x 180	94Ø x 300	94Ø x 450
Gross weight (Kg)	0.4	0.5	2.5	3.8
Extinguishing agent (g)	30	60	150	450
Efficiency coefficients	73,0 %	80,0 %	73,6 %	68,0 %
Minimum installation height (horizontally)	30 cm	30 cm	30 cm	30 cm
Maximum installation height	150 cm	200cm	150 cm	150 cm

VALIDITY CONDITIONS/APPLICATIONS

Each container is equipped with a special system for independent activation.

All types are equipped with a heat-absorbing mechanism.

Control system for manual activation:

1. AERPRO AM800 System -Mod.10 manufactured by Polytechno Eng, or
2. FS12 Main Unit/ FS12 Sub Unit, manufactured by JK E-Solution ApS, or
3. NANO/MAR/Panel and Etb manufactured by N2KB B.V.
4. Machinery spaces of TASNEEF-class ships have a gross volume of up to 500 cubic meters.



**ATTACHMENT TO
CERTIFICATE No. FPE/AUH/0001/2025
Page 3 of 3**

Remarks/Notes:

- The approval does not cover any Flag Administration requirements.
- The Company is fully responsible for ensuring compliance by performing all necessary checks, including those of its sub-suppliers.
- The validity of this certificate ceases in the case of amendments to the rules based on which the certificate was issued.
- The approval does not cover any Flag Administration requirements.
- Automatic release of the system is not allowed onboard ships subject to SOLAS, on other TASNEEF classed vessels reference is to be made to TASNEEF applicable Rules.
- According to Annex to MSC/Circ. 1270:
 1. The systems shall be designed to allow evacuation of the protected space prior to discharge through the use of two separate controls for releasing the extinguishing medium.
 2. Means shall be provided for automatically giving visual and audible warning of the release of fire-extinguishing medium into any space in which personnel normally work or to which they have access. The alarms shall operate for the period of time necessary to evacuate the space, but not less than 20 s before the medium is released.
 3. The system is permitted for spaces that are normally occupied only at concentrations where the aerosol particulate density does not exceed the adverse effect level. Evidence is to be provided for each installation.
 4. Numbers and types of extinguishing generators are to be determined in conformity with guidelines and calculation methods of manufacturer.
 5. Each installation is to be approved by TASNEEF.

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, TASNEEF 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.

General conditions for the approval

- a) The initial conditions verified by Tasneef at the time of the approval are to be maintained;
- b) Any changes to the initial conditions are to be promptly communicated to Tasneef, which reserves the right to repeat the relevant assessments;
- c) Tasneef personnel are to be allowed to witness during the performance of activities, upon their request;
- d) The activities are to be carried out in compliance with the TASNEEF Rules and or other applicable rules;
- e) Tasneef may revoke the approval at any moment in the case of modifications to requirements or conditions for the approval.



TASNEEF
(Signature and stamp)

For (Wan Kamarul Ariffin)