

消防處
防火總區

香港九龍尖沙咀東部康莊道 1 號 5 樓
消防總部大廈



**FIRE SERVICES DEPARTMENT
FIRE PROTECTION COMMAND**

FIRE SERVICES HEADQUARTERS BUILDING,
No. 1 Hong Chong Road, 5/F.,
Tsim Sha Tsui East, Kowloon,
Hong Kong

本處檔號 Our Ref.: (6) in FP 314/07 IV

來函檔號 Your Ref.:

電訊掛號 Telex: 39607 HKFSD

HX



(24 小時 Hours)

圖文傳真 Fax: 852-2723 2197

電話 Tel. No.:

5 August 1997

FSD Circular Letter No. 9/97
Fixed Sprayer Units (NAFS-III)

This Department has approved 12kg and 16kg NAFS-III fixed sprayer units which could offer fire protection to a cubical volume up to a maximum of 33m³ and 44m³ respectively. As such, 16kg NAFS-III fixed sprayer unit is now acceptable for use for protection of small Category 5 dangerous goods stores, certain types of electrical installations and in certain circumstances as an alternative to automatic CO₂ and BTM installations with volume less than 44m³.

----- In view of the above, page VIII.6 to VIII.7 of Part VIII of F.S.D. Circular Letter 1996 on the subject have been duly amended and replaced by the attached pages.

Signed
(HSU King-ping)
for Director of Fire Services

8.1 Portable Hand-Operated Approved Fire Extinguishers for Class ‘B’ and ‘Electric’ Fires

Subsequent to dispensing with BCF type portable hand-operated fire extinguisher, the HCFC-123 type portable hand-operated fire extinguisher is acceptable as an alternative to the BCF type fire extinguisher.

8.2 Automatically Operated Total Flooding Systems

FM 200, NAFS-III, Inergen, CEA-410 systems are acceptable for use in automatic systems. Installations design must be in accordance with NFPA Standard 2001 and UL Standard 1058.

8.3 Fixed Sprayer Units (NAFS-III and HCFC-124)

NAFS-III and HCFC-124 automatic type fire extinguishers are acceptable for use for protection of small Category 5 Dangerous Goods Stores, certain types of electrical installations and in certain circumstances as an alternative to automatic CO₂ and BTM installations with volume less than 44.0m³.

8.3.1 Calculation of the amount of NAFS-III and HCFC-124 required to protect any particular risk is made on the following basis:-

NAFS-III :	1kg to cover 2.75m ³
	2kg to cover 5.5m ³
	4kg to cover 11.0m ³
	9kg to cover 24.76m ³
	12kg to cover 33.0m ³
	16kg to cover 44.0m ³
HCFC-124: :	1.1kg to cover 2.1m ³
	1.9kg to cover 3.5m ³
	3.1kg to cover 5.7m ³
	4.1kg to cover 7.5m ³
	5.7kg to cover 10.5m ³
	7.2kg to cover 13.5m ³
	10.7kg to cover 19.8m ³
	13.8kg to cover 25.5m ³
15.3kg to cover 28.3m ³	
19.5kg to cover 36.1m ³	

- 8.4 Layout plans for both total flooding systems and fixed sprayer units are to be submitted to this Department for consideration prior to installation.
- 8.5 All premises protected by FM 200, NAFS-III, Inergen, CEA-410 fixed installations or NAFS-III and HCFC-124 fixed sprayer units shall be suitably marked with the appropriate symbol on or near the entrance door. These symbols are to be of the design, colour and size as shown on the diagrams as Appendices B to D.
- 8.6 Clean Agent Modular System
- 8.6.1 FM 200 modular systems shall be installed in accordance with NFPA Standard 2001 and UL Standard 1058.
- 8.6.2 Requirements for approvals and the location of containers are same as for the Halon modular systems in paragraph 7.

(HSU King-ping)
for Director of Fire Services

Date: 22 October 1996
(Revised on 5 August 1997)