FOAM-WATER SPRINKLER MODEL F1 & H

TECHNICAL DATA :

MODEL	F1 - Stainless Steel H - Bronze
MOUNTING	Pendent
MAXIMUM WORKING PRESSURE	12 Bar (175 PSI)
OPERATING PRESSURE	2.1 Bar (30 PSI) minimum 4.2 Bar (60 PSI) maximum
END CONNECTION	1/2" BSPT (1/2" NPT Optional)
K-FACTOR	K-42 standard Other K-factor can be provided as optional without Listing & Approvals
APPROVAL	UL Listed & FM Approved
FINISH	Natural finish
WEIGHT	0.465 Kg. (Approximate)
ORDERING INFORMATION	Please specify : Model, End connection

APPLICATION

The Foam-Water Sprinklers are used in the deluge foam system to protect the risk where foam is required to be applied from overhead sprinklers and is to be followed with plain water in a standard sprinkler pattern.

Foam-Water Sprinklers protect the loading and unloading area in the event of a spill fire with low expansion foam systems. These are useful in other applications like Air Craft Hangers, Warehousing etc.

SPECIFICATION

Foam-Water Sprinklers are open and air aspirating type. The pattern of coverage is similar to the conventional sprinkler head. The Foam-Water Sprinkler has standard orifice with K-factor of 42.

Foam-Water Sprinklers are designed to operate at a minimum of 2.1 bar pressure and maximum of 4.2 bar. The Foam-Water Sprinkler with K-42 will deliver about 61 LPM at 2.1 bar pressure. The standard coverage per Foam-Water Sprinkler is 9.3sq.m. (100 sq.ft.)

SYSTEM DESIGN

The Approval of the Foam Sprinkler is based on the requirements of NFPA 13 and NFPA 16. Discharge pattern provided is indicative only and it is not to be used for design perpose. Spacing between the sprinkler should not exceed as mentioned in NFPA 13 for extra hazard occupancies.



INSTALLATION, TESTING & MAINTENANCE

The Foam-Water Sprinkler must be handled with due care. For best results, the storage as well as any further shipment be made in original packing only.

Foam-Water Sprinkler which is visibly damaged should not be installed.

Use Teflon tape of soft thread sealant on male thread of the sprinkler. The sprinkler must be tightened in to fitting. Excessive tightening torque may result into serious damage to sprinkler arms and deflector, which may affect spray pattern of the nozzle and its perfomance.

It is recommended that water foam spray system be inspected regularly by authorised technical personal. The nozzle must be checked for atmospheric effects, external and internal obstruction, blockage if any. The nozzles should be cleaned or replaced if required. The system must be operated with optimum water flow at least twice in a year or as per the provisions of NFPA or as per authority having jurisdiction.

The owner is responsible for the testing, inspection and maintenance of the Foam-Water Sprinkler and system.

NOTE:

- (I) Foam-Water Sprinkler and Foam concentrate are listed together.
- ii) FM Approval is valid when total system is having FM Approved products.





(iii) UL Listed

AFFF 3% and AR-AFF 3X3% with application density of 0.16 GPM/Sq Feet (6.5 LPM/Sq Mtr)

FM Approved

AFFF 3% with 10' x 10' spacing, minimum hight of 8 feet 9 inches, maximum height with application density of 0.3 GPM/Sq Feet (12.2 LPM/Sq Mtr)

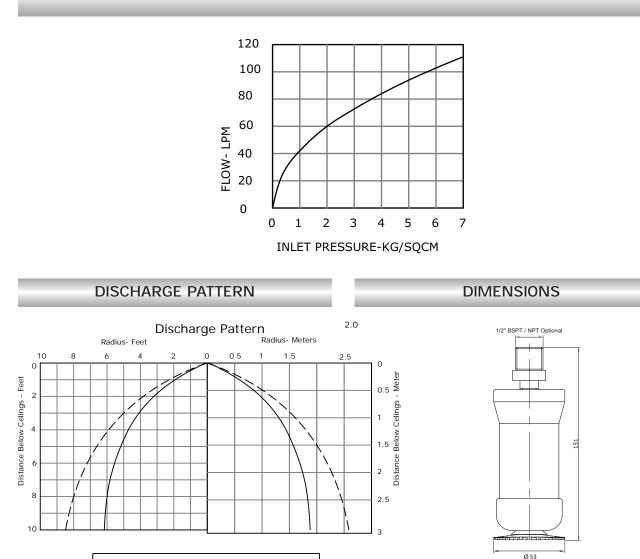
AR-AFFF 3/3% with 10' x 10' spacing, minimum height of 4 feet 6 inches, maximum height 12 feet 6 inches with application density of 0.3 GPM/Sq feet (12.2 LPM/Sq Mtr)

(iv) Refer to individual UL Listing and FM Approval for operating limitation with each foam concentrate & Foam - Water Sprinkler.

Marking on Foam-Water Sprinkler:

- (i) K-Factor
- (ii) SIN Number HD 331
- (iii) Model
- (iv) Year of manufacturing
- (v) (HD) trademark
- (vi) UL & FM mark
- (vii) Pendent





PRESSURE VS FLOW PERFORMANCE CHARACTERISTIC

For reference only - not suitable for system design.

- Foam Discharge

___ Water Discharge



LIMITED WARRANTY

HD FIRE PROTECT PVT. LTD. hereby referred to as HD FIRE warrants to the original purchaser of the fire protection products manufactured by HD FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by HD FIRE. Products or Components supplied or used by HD FIRE, but manufactured by others, are warranted only to the extent of the manufacturer's warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or un-maintained. HD FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer's representatives. HD FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. HD FIRE shall not be liable for any damages for injury to person, damages to property and penalties resulting from any products and components manufactured by HD FIRE. HD FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges or expenses in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall HD Fire's product liability exceed an amount equal to the sale price. The foregoing warranty is exclusive and in lieu of all other warranties and representation whether expressed, implied, or or written, including but not limited to, any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

NOTICE :

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable.

The information provided by us is to the best of our knowledge and belief, and consist of general guidelines only. Site handling and installation control is not in our scope. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product.

Product development is a continuous programme of HD FIRE PROTECT PVT. LTD. and hence the right to modify any specification without prior notice is reserved with the company.



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