

FOAM SYSTEM



SFFECO Foam System unit is constructed with a heavy duty tank with corrosion proof coating. Two external nitrogen cylinders are provided for pressurizing the tank.

One unit of skid mounted hose reel also available with 30Meter hose.

FEATURES

Various selections of educators, hoses or nozzles are available.
Custom size design available with tank capacities and hose reels.
Pressure Gauge is available to indicate the system pressure.

FOAM MASTER



SFFECO Foam Master are ideal for rapid deployment of foam to flammable liquid fires and chemical spills. It can be operated by one person.

COMPONENTS

Foam Tank: Carbon Steel.
Stainless Steel also Available
Foam Eductor: 2", 1% - 6% Adjustable Proportioning
Foam Branch Pipe
Fire Hose: 1 3/4" dia or 1 1/2" 15M (2 nos.)
Foam Branch Pipe with Ball Valve
Options: Special foam nozzles and branch pipes available as per request

MODELS:

150 Itr Capacity: **FM150**
200 Itr Capacity: **FM200**

FOAM STATION UNIT



The SFFECO Foam Station Unit is designed to meet the urgent requirement of Civil Defence authorities and Oil companies of having a dependable, forceful and very fast operating apparatus in fighting liquid combustible matters. In fighting Class B Fires, every second counts that's why SFFECO Foam Station Unit has been designed to be fully operational within seconds. SFFECO is the pioneer in the whole Middle East when it comes to Foam Station Units.

FEATURES

- ❖ 1" or 1 1/4" x 30 meter synthetic water and age resistant rubber hose
- ❖ Stainless steel 250l foam tank with large diameter filler ap
- ❖ Stainless steel controllable Foam Branchpipe to use as water gun
- ❖ Foam Proportioner and Heavy Duty Foam Inductor with Controllable Foam admixing from 0-6%
- ❖ Foam liquid indicator mechanical type to confirm to the operator's foam amount
- ❖ 2 1/2" Angle valve with cap for water connection NST thread
- ❖ 15 M Foam throw from Branchpipe for operator safety
- ❖ Quick open high pressure 2" ball valve for shortening operation time
- ❖ Pressure gauge to indicate system pressure
- ❖ Reel is made with special sheet upto 2mm thickness (3mm available on request)
- ❖ Stainless steel operating instructions and name plate

since
1983

FIGHTING FIRE
WITH
TECHNOLOGY
IS OUR
HERITAGE

SFFECO, with its 30 years of experience has always been a progressive organization that has remained in the forefront of the Fire Fighting Industry with innovative, unconventional, environmental friendly, re-engineered and unique products.

SFFECO in its state-of-the-art manufacturing plants in **RIYADH & DUBAI** works in close connections with renowned governmental and certification bodies to provide key answers to the challenges faced by the society.

SFFECO brings together over 3-Decades of expertise and experience in form of **DESIGN, CONSULTANCY, MANUFACTURING, SUPPLY, INSTALLATION, TESTING, COMMISSIONING, MAINTENANCE & REFURBISHMENT** of fire protecting and fire fighting system.

SAUDI FACTORY FOR FIRE EQUIPMENT
المصنع السعودي لأجهزة الإطفاء

DECADES
of
EXCELLENCE

NETWORK
IN OVER
65
COUNTRIES

FOAM SYSTEMS AND EQUIPMENTS



a **SFFECO GLOBAL** enterprise

FOAM BLADDER TANK

SFFECO Foam Bladder Tank Proportioning System is designed to inject foam concentrate into a suitable water supply and automatically proportion foam concentrate over a wide range of flows and pressures.

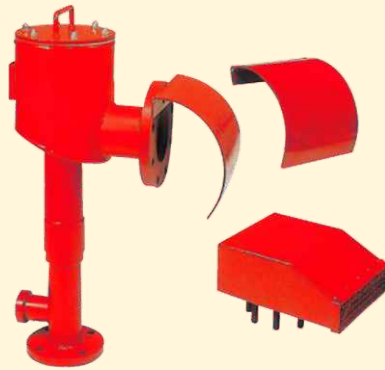
Material: Carbon Steel / Stainless Steel
Finish : Red

VERTICAL TYPE

Capacity:
25 - 1500 Gallons (95 - 5678 Litres)

HORIZONTAL TYPE

Capacity:
100 - 3000 Gallons (379 - 11,356 Litres)



AIR FOAM CHAMBER

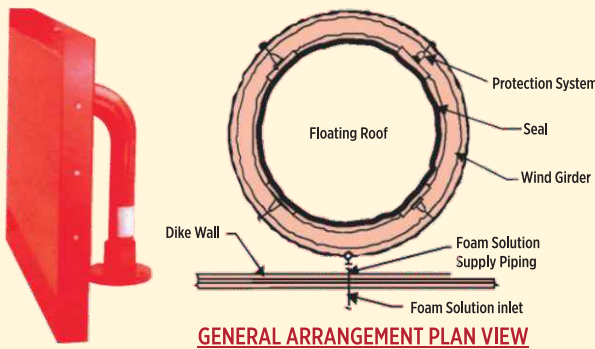
SFFECO Air Foam Chamber can be used for the protection of flammable liquid storage tanks. This method consists of one or more foam chambers installed on the shell of the tank just below the roof joint. A foam solution pipe extends from the proportioning source outside the dike wall to the foam maker located upstream of the chamber. A deflector is located inside the tank shell to deflect the discharge against the shell that results in a relatively gentle foam application on the fuel surface.

Working Pressure : Min. 3 Bar / Max 7 Bar
Finishing : Red Epoxy Paint
Connection Flange : ANSI B16.5 Class 150#

RIM SEAL POURER

SFFECO Rim Seal Pourer is designed to deliver fully aspirated foam directly to the annular seal area of Open Top Floating Roof Storage tank for fire extinguishment. Fully aspirated foam provides the most effective performance for all types of foam concentrates.

Finishing : Red Epoxy Coated
Materials : Carbon Steel
Capacity : Approx. 53 to 556 LPM



GENERAL ARRANGEMENT PLAN VIEW



AIR FOAM WATER SPRINKLER

Fixed system employing sprinklers have great utility in fire protection of aircraft hangars, chemical process areas, petroleum loading racks, terminals, refineries and flammable liquid storage areas.

MODEL	500	520	550
TYPE	Upright /Pendant	--	--
FLOW RATE	86 LPM at 4 Bar	35 LPM at 34 Bar	80 LPM at 3 Bar
MATERIAL	Cast Brass	Brass & Stainless steel	

FIRE MONITORS

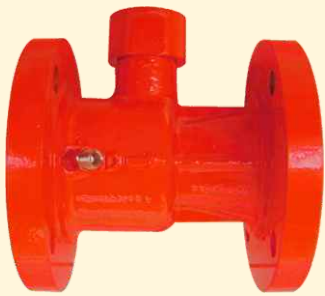
SFFECO Fire monitors are designed to accommodate foam which has been injected in the upstream piping. SFFECO fire monitors can be used in trucks and fixed fire protection systems to protect high hazards.

AVAILABLE MODEL TYPES:

Fixed, Portable and Remote-Controlled.

AVAILABLE OPERATION TYPES:

Single Wheel, Double Wheel, Lever and Electric



PRESSURE PROPORTIONER

SFFECO Pressure Proportioner (Ratio Controller) is used to produce constant preset foam solution in pressure proportioner systems. It is available in various flow rates.

Test Pressure : 25 Bar
Finishing : Red Epoxy Coated
Connection Flange : ANSI B16.5 Class 150#
Flow Rate Range : 270 LPM@ 14 Bar - 18500 LPM@ 14 Bar

INLINE PROPORTIONER

SFFECO Inline Proportioner offers a simple, inexpensive method of proportioning when the water supply pressure is reasonably high.

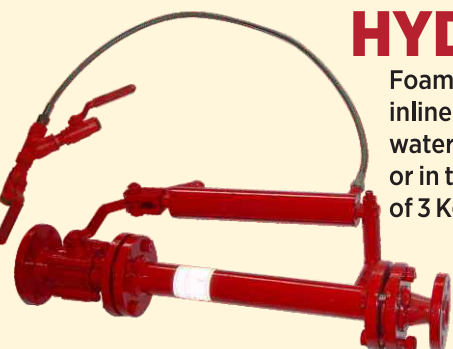
Each proportioner is designed for a set water discharge rate at a set water pressure. However, higher or lower inlet water pressures result in an increase or decrease in water flow with a change in proportioning.

Test Pressure : 25 Bar
Finishing : Red Epoxy Coated OR Natural Finish
Connection Flange : ANSI B16.5 Class 150#
Flow Rate Range : 75 LPM@ 7 Bar - 2750 LPM@ 7 Bar



HYDRAULIC CONCENTRATE VALVE

Foam concentrate control valve is designed for use in bladder tank foam system or inline balance pressure proportioning system. The valve opens automatically when water supply is established through the inlet pipe of ratio controller of bladder tank or in the inline balance pressure proportioning system. The valve opens at minimum of 3 Kg. (42.8 psi) water pressure. No electric power is required to operate the valve.



Rated Pressure : 200 psi (14 kg/sq.cm.)
End Connection : Flanged end to ANSI B 16.5 Class 150#
Pressure Sensing Hose : Teflon tube with Stainless Steel Braided Cover
Factory Hydro tested : 365 psi (24 kg/sq.cm.)
Trim Connection : Brass / Stainless Steel

FOAM EDUCTOR

SFFECO Foam Eductor are available for all required handlines (1" - 2½"). Our eductors are compatible with most foam concentrates. All SFFECO eductors are easy to hook up and set up. They can be deployed in any position as per requirement.

Material : Bronze / Stainless Steel / Aluminum Alloy
Finishing : Red Painting
Flow Rates : 50 LPM@ 7 Bar - 950 LPM@ 7 Bar



FOAM BRANCH PIPE



SPECIFICATION	SF-31-4N	SF-31-5N
Working Pressure	5 Bar	5 Bar
Discharge	200 LPM	200 LPM
Expansion Rate	50	15 (low) 50 (high)
Effective Reaches	8 m	8 m (low) 20 m (straight)
Foam Covers	10 m ² /minute	20 m ² /minute
Total Length	520 mm	750 mm
Inlet Size	1 ½" NH female	1 ½" NH female
Total Weight	4 kgs.	7.5 kgs.

LOW EXPANSION FOAM BRANCHPIPES

SFFECO Low Expansion Branchpipes are air aspirating type made of aluminum tube and cast bronze. It is ideal for use with all foam types on deck gun or fixed monitor with foam pick up hose. Foam expansion rate up to 14.



FOAM GENERATOR

SFFECO Model SF 31-3M and SF 31-3F is a high expansion foam generator which is suitable for total flooding applications. (eg. Basements, mines, tunnels, cable ducts, warehouses). It is powered by water turbine and aerofoil fan, all that is required for operation is a pressurized water supply and a high expansion foam concentrate. ideally suited for rapid smoke extraction and positive pressure ventilation.

MOBILE TYPE: SF 31-3M
FIXED TYPE: SF 31-3F

AIR FOAM NOZZLE

1 ½" NH female swivel inlet base, with specially contoured pistol grip and ball valve.

200 LP @ 3.5 Bar and mixing 3% of AFFF (6% optional)

MODEL: SF-17PS



FOAM CONCENTRATES

High expansion foam concentrates [1 - 3%]

ALCOHOL TYPE FOAM CONCENTRATES [ATC]

FLUORO PROTEIN FOAM CONCENTRATES

Foam Concentrates for fires of CLASS A

AQUEOUS FILM FORMING FOAM CONCENTRATES [3% - 6%] - UL Listed

