Water Powered High Expansion Foam Generator

Description

Chemguard Standard Model Water Powered (WP) High Expansion Foam Generators are designed to expand foam solution into millions of tiny stable bubbles. Expansion rates up to 940 gallons of expanded foam for every one gallon of foam solution can be achieved depending on the generator selected solution flow rate and operating pressure.

The Chemguard WP High Expansion Generators require no other source of power such as electricity or gasoline engines. They are powered by the foam solution driving a hydraulic (water) motor. The expansion of the foam solution is achieved by spraying the solution onto a stainless steel screen, and then an air stream created by the fan attached to the motor forces air through the screen to produce a mass of foam bubbles. The continuous flow of the foam solution and the movement of air through the screen will generate large volumes of foam.

FEATURES

- Six different models available
- No outside source of power required – only the foam solution under pressure
- Standard units supply from 2,535 to 26,400 cfm
- UL Listed® to operate at foam solution pressures as low as 40 psi
- Stainless steel perforated screens
- Easy installation with units capable of being mounted in horizontal or vertical configuration
- Generator housing constructed in mild steel and painted in red polyurethane enamel paint (Custom colors available)
- NO STRAINER REQUIRED - Foam solution piping and discharge nozzles are of open design allowing passage of particles of up to ¼" in diameter

PROPORTIONING

Chemguard High Expansion Foam Generators can be used with the following types of proportioning equipment.

- Fixed or portable eductors.
- Bladder tank balanced pressure-proportioning system.
- In-line balanced pressure or positive displacement foam pump-proportioning skid.

TYPICAL HAZARDS

Typical hazards where Chemguard High Expansion Foam Generators may be used to supply fire protection are:

- LNG Tank Farms/Loading Facilities
- Flammable Liquid Drum Storage Areas
- Hazardous Waste Storage Facilities
- Shipboard Engine Rooms, Bilge's and Holds
- Roll Paper Warehouse
- Chemical Storage Facilities
- Flammable Liquid Packaging Areas
- Cable Tunnels
- Aircraft Hangars

ORDERING INFORMATION

When ordering please provide the following information:

- Hazard to be protected
- Available residual water flow and pressure
- Method of proportioning required

Model/Part Number	Foam Output	Inlet Pressure	Dimensions, in.(mm)						Weight
	CFM (CMM)	PSI (Bar)	A	B	C	D	E	F	Lbs (KG)
*3000WP	2535-4612 (71.8-130.6)	40-80 (2.8-5.5)	19.5 (495)	23.8 (605)	34.3 (871)	22 (559)	15 (381)	**1.5" FNH	115 (52)
6000WP	3300-5500 (93-156)	40-80 (2.8-5.5)	25.5 (648)	28.8 (732)	48.3 (1227)	28 (711)	24.5 (622)	**1.5" FNH	225 (102)
*15000WP	12200-17000 (345-481)	50-100 (3.4-6.9)	42 (1067)	44 (1118)	85.8 (2179)	42 (1067)	36 (914)	***2" Grvd	441 (200)
*18000WP	11300-18000 (320-510)	40-80 (2.8-5.5)	42.3 (1074)	48 (1219)	74.3 (1887)	46 (1168)	32.5 (826)	2.5" FNPT	535 (242)
*18000WP-SS-LNG	11300-18000 (320-510)	40-80 (2.8-5.5)	42.3 (1074)	48 (1219)	74.3 (1887)	46 (1168)	32.5 (826)	2.5" FNPT	535 (242)
*25000WP	15500-26400 (439-748)	40-90 (2.8-6.2)	54 (1372)	59 (1499)	91.5 (2324)	46 (1168)	38.25 (972)	***2" Grvd	627 (284)

Inlet thread is FNPT - *Units supplied with eductor are FNST or FNPSH
*UL Listed Unit
**Units Supplied with Eductor
***Grooved

Note:

1. Dimensions are approximate and subject to change.