

Special Features

- Highly reliable design, does not require a strainer at the foam solution inlet
- Very high output of foam
- Portable & Fixed
- Easy installation with units capable of being mounted in the horizontal or vertical position
- No outside source of power required - only the pressurized foam solution
- By pass arrangement for specific models
- In-built foam induction for portable
- Units will operate with foam solution pressures as low as 2.1 Kg/cm² (30 psi).
- Smoke extraction

Description

The IFP-HX, High Expansion Foam Generators are powered by a water turbine. These are designed to expand the foam solution with Expansion ratios up to 800:1, depending upon the solution flow rate and the water pressure. However, the optimum expansion ratio is in the range of 500:1 up to 700:1. The High Expansion Foam Generator requires no other source of power such as electricity or gasoline engines. They are powered by the foam solution driving a hydraulic (water) motor or turbine. The expansion of foam solution is achieved by spraying the solution onto a nylon net/stainless steel screen, then an air stream created by the fan attached to the motor blows air through the screen to produce a mass of foam bubbles. The continuous flow of the foam solution plus the movement of air through the screen will produce large volumes of finished foam. Portable systems are having its own proportioning system whereas the fixed systems are to be used with the fixed proportioning system.



Applications

- Oil Refineries & Oil Installations
- Chemical Stores.
- Control of Vapour release from toxic/flammable liquid spills.
- Petrochemical Plants
- Tyre & Rubber Stores.
- Ship holds & Engine Rooms.
- Flammable Liquid including Paint Stores
- Aircraft Hangars
- Cable Ducts & Transformer Rooms
- Fertilizer Plant
- Basements & Substations.
- Mining

Foam Cleaning

After the area has been secured, the foam can be cleared by simply hand sweeping or blowing off by compressed air minimising eventual water damage.

Materials of Construction

Model	Material		
	IFP HX-100P*	IFP HX-300P(FRP)	IFP HX-300P(SS)
Body/ shell	SS304	FRP	SS304
Nozzle	GM	GM	GM
Foam screen	KF	KF	SS304
Coupling	GM/Al. Alloy/SS	GM/Al. Alloy/SS	GM/Al. Alloy/SS
Flange**	Optional	Optional	Optional
Piping	SS 304	SS 304	SS 304
Inductor	GM	GM	GM
Fan	Al. Alloy	Al. Alloy	Al. Alloy
Turbine Assembly	Gun Metal	Gun Metal	Gun Metal

* Optional

i) These models have the smoke extraction facility with smoke duct of length 7.5 meter, MOC – synthetic leather.

ii) Foam duct of length 10 meter made of polythene (disposable)

** Flange is provided on request

Performance Data

Model	Type	Part Number	Inlet Pressure, bar	Water Flow, lpm		Foam Production cmm	Foam Expansion Ratio
Standard Performance Data (with IFP UNIFOAM, 3% concentrate)							
IFP HX-100P	Portable	403010	3.5	135		34	250
			5.0	165		83	500
			7.0	200		120	600
IFP HX-300P(FRP)	Portable with system induction	403020	4.0	180		77	425
			5.5	210		121	575
			7.0	235		165	700
			10.0	280		224	800
				Total	By-pass		
by-pass system open			4.0	200	50	68	450
			5.5	220	55	112	675
			7.0	255	65	162	850
			10.0	290	80	210	1000
IFP HX-300P(SS)	Portable with system induction	403030	4.0	195		78	400
			5.5	225		124	550
			7.0	250		168	670
			10.0	290		226	780
				Total	By-pass		
by-pass system open			4.0	215	53	85	430
			5.5	235	58	118	670
			7.0	268	69	159	800
			10.0	305	85	211	960
IFP HX-300P(SS)	Portable without induction	403031	5.0	260		169	650
			6.0	290		206	710
			7.0	320		256	800

IFP HX-300P with system induction comes with by-pass facility, normally used for smoke extraction purpose and getting better control over foam production with varying pressure.

Ordering Information

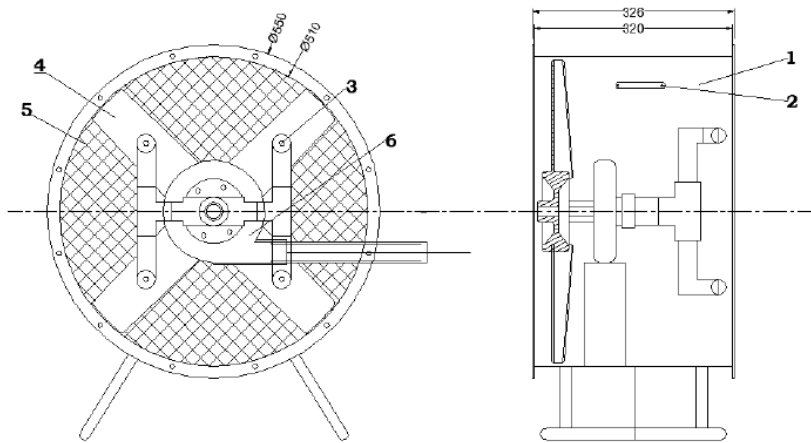
Part Number	Generator Model	Description	Colour	Weight (kg) ±5%
403010	IFP HX-100P	Portable with system Induction	Red/Yellow	30
403020*	IFP HX-300P(FRP)	Portable with system induction	Red/Yellow	65
403030**	IFP HX-300P(SS)	Portable with system induction	Red/Yellow	95
403031**	IFP HX-300P(SS)	Portable without induction	Red/Yellow	90

* This model can be provided with wheel arrangement facility on request for easy maneuverability

** Can fixed with extra arrangement as per customers requirement.

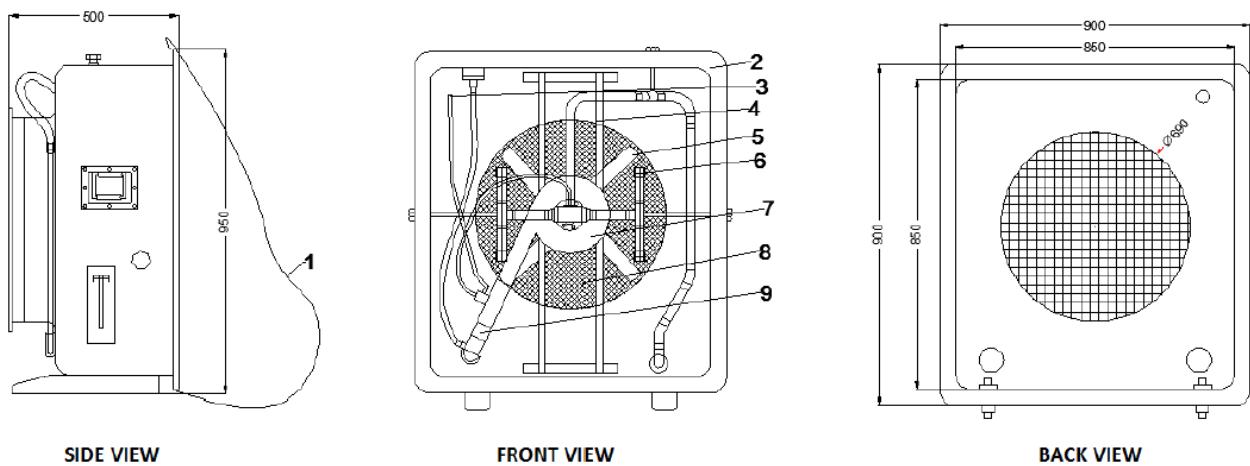
General Dimension

IFP HX-100P



PART NO.	PART NAME
1	BODY/SHEEL
2	LIFTING HANDLE
3	NOZZLE
4	FAN
5	BACK NET
6	TURBINE

IFP HX-300P(FRP)



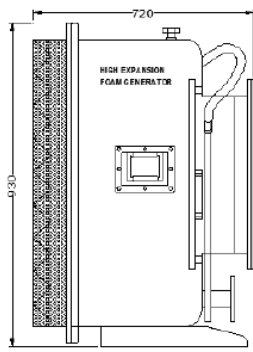
SIDE VIEW

FRONT VIEW

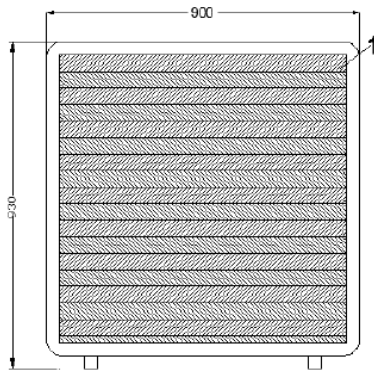
BACK VIEW

PART NO.	PART NAME
1	KNITED FABRICS FOAM SCREEN
2	BODY
3	PICKUP TUBE
4	FRAME
5	FAN
6	NOZZLE
7	TURBINE
8	BACK NET
9	PIPELINE ASSEMBLY WITH INDUCTOR

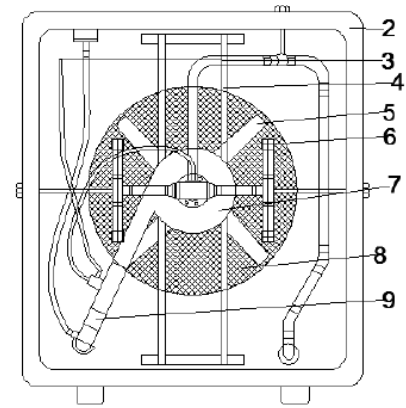
IFP HX-300P(SS), with system induction



SIDE VIEW

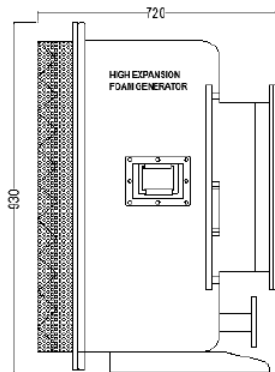


FRONT VIEW

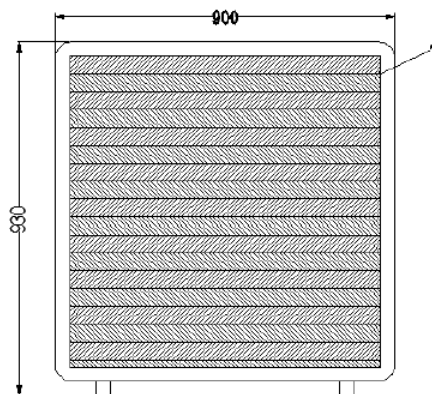


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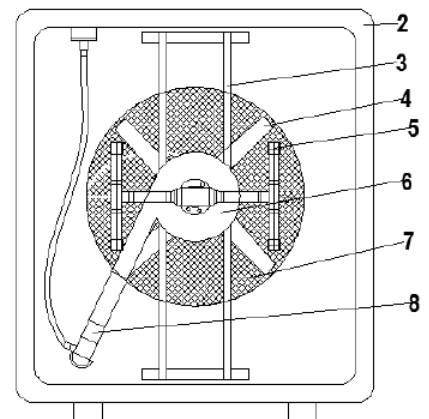
IFP HX-300P(SS), without induction



SIDE VIEW



FRONT VIEW



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6	TURBINE
7	BACK NET
8	PIPELINE ASSEMBLY

Tolerance in dimension ($\pm 5\%$)
All dimensions are in mm

Contacts in Emergency : +919903914042

Integrated Fire Protection Pvt. Ltd.

Corporate Office:
Siddha – Esplanade, Room 1105
6 Jawaharlal Nehru Road, Kolkata – 700013, India
Phone : +91 33 24541061, 24755634 | Fax : +91 33 2476 1107 | E-mail : info@integratedfire.net | Web : www.integratedfire.net

Registered Office:
60A, Pandit M M Malabya Sarani
Chakraberia Rd (N), Kolkata - 700 020 INDIA