FirePro in potentially explosive atmospheres (ATEX)

FirePro ATEX Condensed Aerosol Generators are designed to operate in potentially explosive atmospheres. Local authorities have the responsibility for defining a Class, Zone, and Group classification for specific areas. The classification given to a particular zone, and its size and location, depends on the likelihood of an explosive atmosphere occurring and its persistence if it does. Areas classified into zones (0, 1, 2 for gas-vapor-mist and 20, 21, 22 for dust) must be protected from effective sources of ignition.

Approved to the ATEX directive 2014/34/EU (Ref Chapter III, art. 10)



Model	Weight		Dimensions	Approvals
	Net (g)	Gross (g)		
FPATEX-0100	100	2,760	164 x 94mm diam	Ex MASC
FPATEX-0200	200	3,245	194 x 94mm diam.	Ex MASC
FPATEX-0500	500	4,700	304 x 94mm diam.	Ex MASC
FPATEX-1200	1,200	18,600	385 x 365 x 187mm	Ex
FPATEX-2000	2,000	22,800	385 x 365 x 187mm	Ex
FPATEX-3000	3,000	23,800	385 x 365 x 187mm	Ex
FPATEX-5700	5,700	34,900	385 x 365 x 297mm	Ex

FirePro Certified for potentially explosive atmospheres (ATEX)

FirePro has also been specifically certified under ATEX guidelines for hazardous environments. FirePro aerosol generators can be used in:

Ex I M1 Ex s T450ºC Ma

Ex II 1G Ex s IIC T3 Ga

Ex II 1D Ex IIIC T200ºC Da

The local authority has the responsibility for defining a Class, Zone, and Group classification for specific areas.

Equipment Group		Equipment Category	Protection Level	Presence or Duration of Explosive Atmosphere	Hazardous Area Zones
I	Underground Mines and Associated surface installations	M1	Very High	Constant Risk or Presence	
		M2	High	Constant Risk or Presence	
II	All Other Surface Installations	1	Very High	Continuous Presence	Zone 0 / Zone 20
		2	High	Likely to Occur	Zone 1 / Zone 21
		3	Normal	Unlikely to Occur	Zone 2 / Zone 22

Dusts	Category M1, M2 & 1 Equipment		Gases, Vapours and Mists
Place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods or frequently.	Zone 20:	Zone 0:	The part of a hazardous area in which a flammable atmosphere is continuously present or for long periods.
Category 2 Equipment			
Place in which an explosive atmosphere in the form of a cloud of combustible dust in air occurs occasionally. **Group III** IIIA Combustible flyings **Group III** IIIB Non-conductive dust **Group III** IIIC Electrically conductive dusts	**Zone 21**	**Zone 1**	That part of a hazardous area in which a flammable atmosphere is likely to occur in normal operation **Group II** IIA (Propane, Methane) **Group II** IIB (Ethylene) **Group II** IIC (Hydrogen)
Category 3 Equipment			
A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation or will persist for a short period only. **Group III** IIIA Combustible flyings **Group III** IIIB Non-conductive dust **Group III** IIIC Electrically conductive dusts	**Zone 22**	**Zone 2**	That part of a hazardous area in which a flammable atmosphere is not likely to occur in normal operation, and if it occurs, it will only exist for a short period **Group II** IIA (Propane, Methane) **Group II** IIB (Ethylene) **Group II** IIC (Hydrogen).

Mining and Surface Certification (MASC)

FPX-0100EX / 0200EX / 0500EX aerosol units have additional certification

Location		Hazard Frequency	Environment		Limiting Temperature	
Zone 1 & 2 Zone 21 & 22	Mining: Underground & Surface (Gas) Surface (Dust)	Intermittent could under normal operating conditions in hazardous area	Group I Group IIC Group IIIC	Methane / Coal Dust Hydrogen / Acetylene Conductive Dusts	150ºC T3 T200 ºC	Enclosure surface limitation Enclosure surface limitation Enclosure surface limitation

