



AdvancedTM
Fire and Safety

AFS

Watermist & CAF Fire Extinguishing Systems



Catalog 2022



Complete Range of Watermist Fire Extinguishing Systems

Manufactured by Advanced Fire and Safety

AFS

Advanced Fire & Safety Company Overview

Overview

AFS produce a variety of Watermist & CAF system and other allied firefighting products at Hapur, Uttar Pradesh, our clientele on PAN India basis include Fire Services, Railways, Airport Authority, CPWD, Paramilitary, Defence, Police, NDRF, SDRF, PSUs and several other customers worldwide to name a few.

Innovation at best

Our team consist of engineers and innovators who are keen to provide Solutions to customers by developing powerful & reliable products in field of fire & Safety. Our team keep engage with client at all levels from users to management Level. These engagement helps us to develop innovative products that address need of time demand.

Duties and Values

AFS has always followed the path of indepth understanding of the safety protocols for each client and over the last few years has been able to spread its wings and widen its horizon with a customer centric focus worldide. With an excellent team having invaluable skills, Our company has today reached the pinnacle of success with tremendous Perseverance by the staff and workforce, by the innovative products we deliver to each client and customize it, by tracing the road of true ethics and Philosophy and working towards our Goals with a Zeal to achieve more.

What's New

Watermist & CAF Fire Extinguishing System with BA Set

The backpack system is instrumented to extinguish bigger fire at a very less water and also provide respiratory protection for the fire fighter during fire fighting at densely smoky situations.

Tested as per EN 3:7:2004+A1:2007 & EN 137



Engine Operated trolley Mounted Water mist & CAF System Capacity 150L-500L

AFS Engine operated high pressure water mist & CAF Fire Extinguishing System is highly effective & standalone system. It's compact & robust design help the user to fire fight independently without the need of any external sources. The complete system is based on water mist technology. This system comes with various capacity from 150- 500 Liter. The operation of this system is powered by 4 stroke diesel or petrol engine and can be also provided with airline breathing system to combat fire in smoky conditions.



PESO Approved Air filling & HPT Facility for Steel & Carbon Composite Cylinder

We has been strength by the PESO approved facility for the hydro pressure testing and air filling of high pressure air cylinder in accordance to IS 8451, IS 13258 & ISO-11623.



Table of Contents

➤ **Backpack Mounted Type Water mist System**

- Low Pressure Type System capacity 9 Liter
- Low Pressure Type System capacity 10 Liter
- High Pressure Type System capacity 9Liter
- Low Pressure Type System capacity 9 Liter with SCBA System
- Low Pressure Type System Capacity 9 Liter integrated with SCBA System

➤ **Trolley Mounted Type Water mist System**

- Low Pressure type WM System Capacity 50Liter
- High Pressure type WM System Capacity 50Liter

➤ **Bike Mounted Type Water mist System**

- The 2Nos backpack watermist system can be mounted on rapid rescue bike and is easily carried to the fire crises site.

➤ **Rapid Fire Fighting and Emergency Bike**

- Inbuilt with 40 L Storage integrated to breathing system, loaded with rescue tool and equipped with lifeline devices for emergency evacuation and rescue kit.

➤ **Engine operated High Pressure Water mist & CAF system.**

- Storage Capacity -150-500 Litre

➤ **Quick Response Vehicle/ Mini tender (Water mist Based)**

- Storage Capacity -upto 600 Litre

Watermist & CAF System Backpack Mounted

Backpack Mounted Water mist & CAF Fire Extinguishing System - LOW PRESSURE Capacity 9 Liter/ 10 Liter

Conformity to EN 3-7:2007-10

Pressure Vessel MOC	Stainless Steel/ Aluminium Alloy		
Air Cylinder MOC	Steel/Carbon Composite		
Air Cylinder Capacity	2 Liter x 200 bar	2 Liter x 300 bar	4.7 L x 300bar
Performance Parameters			
Lancing Distance (Max)	15 meter		
Discharge Time(min)	22 Sec	22 Sec	22 Sec
Fire Rating	55A 233B	55A, 233B	55A, 233B
Dielectric Suitability	1000V	1000V	1000V
Working Pressure	8.5 Bar	8.5 bar	8.5 bar
Weight (Filled) Max excluding Air Cylinder			



Backpack Mounted Water mist & CAF Fire Extinguishing System - HIGH PRESSURE Capacity 10 Liter

Conformity to EN 3-7:2007-10



Pressure Vessel MOC	Stainless Steel/ Aluminium Alloy		
Air Cylinder MOC	Steel/Carbon Composite		
Air Cylinder Capacity	2 Liter x 200 bar	2 Liter x 300 bar	4.7 L x 300bar
Performance Parameters			
Lancing Distance (Max)	15 meter		
Discharge Time(min)	22 Sec	22 Sec	22 Sec
Fire Rating	55A 233B	55A, 233B	55A, 233B
Dielectric Suitability	1000V	1000V	1000V
Working Pressure	8.5 Bar	8.5 bar	8.5 bar
Weight (Filled) Max excluding Air Cylinder			

Watermist & CAF System Trolley Mounted

Trolley Mounted Water mist & CAF Fire Extinguishing System - LOW PRESSURE Capacity 50 Liter

Conformity to EN 1866

Pressure Vessel MOC	Stainless Steel/ Aluminium Alloy	
Air Cylinder MOC	Carbon Steel	
Air Cylinder Capacity	6 L x 300 bar	9 L x 300 bar
Performance Parameters		
Lancing Distance (Max)	15 meter	
Discharge Time(min)	120 Sec	120 Sec
Fire Rating	55A 233B	55A, 233B
Dielectric Suitability	1000V	1000V
Working Pressure	15 Bar	15 bar
Weight (Filled) Max excluding Air Cylinder	120 Kg	120 Kg



Trolley Mounted Water mist & CAF Fire Extinguishing System - LOW PRESSURE Capacity 50 Liter

Conformity to EN 1866



Pressure Vessel MOC	Stainless Steel/ Aluminium Alloy	
Air Cylinder MOC	Carbon Steel	
Air Cylinder Capacity	6 L x 300 bar	9 L x 300 bar
Performance Parameters		
Lancing Distance (Max)	15 meter	
Discharge Time(min)	120 Sec	120 Sec
Fire Rating	55A 233B	55A, 233B
Dielectric Suitability	1000V	1000V
Working Pressure	15 Bar	15 bar
Weight (Filled) Max excluding Air Cylinder	120 Kg	120 Kg

Rapid Fire Fighting and Emergency Bike

Bike Mounted Water mist & CAF Fire Extinguishing System - LOW/HIGH PRESSURE Capacity 9/10 Liter



Technology	Watermist System
Type	Vehicle Mounted watermist System
PA system	Yes, Provided
Alert	Siren & Beacon
First Aid kit	Yes
No of Carrier	1
Suitability for	Royal Enfield Classic
No of WM System can mounted	2
MOC of Carrier	Stainless Steel (SS304)

Rapid Fire Fighting and Emergency Rescue Bike

Technology	Fixed Watermist System
Type	Vehicle Mounted Water mist System
Propellant	Air Cylinder
Air Cylinder Capacity	9L x 300 Bar
Air Cylinder MOC	Steel Cylinder/ Carbon Composite
Vessel Capacity	2 x 20 Litre
Vessel MOC	Stainless Steel (SS304)
Spray Mode	Jet & Spray
Gun Material	Stainless Steel (SS304)
Hose Length (min)	30 Meter
Working Pressure	15 bar
Accessories	Siren, beacon, Public announcement System, First Aid Kit
Bike	As per Requirement
Other Optional Accessories	Airline, SCBA, Rescue Tool, Lifeline for emergency evacuation, rescue kit



Watermist & CAF Fire Extinguishing System with BA Set

Type of System	Backpack Mounted Type Water mist system with SCBA Set
Pressure Vessel MOC	Stainless Steel/ Aluminium Alloy
Air Cylinder MOC	Steel/Carbon Composite
Air Cylinder Capacity	2 Liter x 300 bar x 2 Nos
Performance Parameters (Water mist System)	
Lancing Distance (Max)	15 meter
Discharge Time(min)	22 Sec
Fire Rating	55A 233B
Dielectric Suitability	1000V
Working Pressure	8.5 Bar
Weight (Filled) Max excluding Air Cylinder	24 Kg
Performance Parameters	
Working Duration (Min)	15 min
Second Man connection	Yes
Face Mask	EN 136 Class 3
Hose Standard	EN Standard
PESO Approval	Yes



Performance Comparision



Category	Low Pressure	Low Pressure	Low Pressure	High Pressure
Working Pressure	8.5 bar	8.5 bar	8.5 bar	34 bar
Discharge Throw (min)	14 Meter	14 meter	14 meter	14 meter
Discharge Time (Min)	22 sec	22 sec	22 sec	22 sec
BA Set Working time (Min)	15 min	15 Min	Nil	Nil
Cylinder Capacity	4.7 L x 300 bar	2L x 300 bar x 2 Nos	2L x 300 bar 2 L x 200 bar 4.7L x 300 Bar	2L x 300 bar 2 L x 200 bar 4.7L x 300 Bar
Vessel Capacity	9L /10L	9 L / 10L	9 L / 10L	9 L / 10L
SCBA Set Intergrity	Yes, Integrated	Combined	No	No
Universal Backplate	Yes	Yes	Yes	Yes
Weight (without cylinder)				

Engine operated High Pressure Water mist & CAF system.

Engine operated High Pressure Water mist & CAF system.

AFS Engine operated high pressure water mist & CAF Fire Extinguishing System is highly effective & standalone system. Its compact & robust design help the user to fire fight independently without the need of any external sources. The complete system is based on water mist technology. This system comes with various capacity upto from 150-600L. The operation of this system is powered by 4 stroke diesel or petrol engine.



Technical Specification

Technology	Fixed Watermist System
Type	Vehicle Mounted Water mist System
Operation	Diesel/Petrol
Engine Make	Brigs & Straton
Engine horsepower	4 stroke, 10 Bhp
Pump Type	Centrifugal Type
Pump Flow Rate	22 LPM
Spray Mode	Jet & Spray
Discharge Range (min)	20 m
Hose Length (min)	30 Meter
Working Pressure	100 bar
Storage Tank	Stainless Steel (SS 304)
Cradle	MS pipe Heavy Duty & MS Sheet
Foam Capacity (Max)	50 Liter
Other optional Accessories	Airline BA System, Rescue tool, lifeline for emergency evacuation and rescue kit.

Our Major Clients



Manufactured by
Advanced Fire & Safety

Works- H-77, MGR Industrial Area Phase-1, MG Road Hapur,
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Branch

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