



SPECTRA FIRE SYSTEMS PVT. LTD.

Watermist & Compressed Air Foam (CAF) Fire Extinguishing Systems

- ↳ **BACKPACK TYPE FIRE EXTINGUISHER**
- ↳ **TROLLEY MOUNTED FIRE EXTINGUISHING SYSTEM**
- ↳ **MOTORCYCLE MOUNTED FIRE EXTINGUISHING UNIT**

NO RESIDUE
EXCEPTIONAL FIRE SUPPRESSION
NON-TOXIC & ECOFRIENDLY



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WATERMIST & CAF BACKPACK TYPE EXTINGUISHER 9L

LOW & HIGH PRESSURE SYSTEMS

This fire extinguisher combines the best of watermist and compressed air foam (CAF) technologies, ensuring rapid cooling and effective smothering of flames. Its novel combination makes it highly efficient for a wide range of fire types, while the backpack design offers unmatched portability and ease of use.



Applicable On



SPECIFICATIONS

Parameters	LOW PRESSURE	HIGH PRESSURE
Pressure Vessel Material (9 L)	Stainless Steel (SS 304 or higher)	Stainless Steel/Aluminium Alloy
Air Cylinder Material (2 L)	Steel/Carbon Composite with Aluminium Liner	Steel/Carbon Composite with Aluminium Liner
Operation Pressure	8-12 Bar	34-37 Bar
Extinguishing Gun	Stainless Steel	Stainless Steel
Type of Foam (3%,6%)	Standard AFFF Compound as per UL 162	Standard AFFF Compound as per UL 162
Extinguishing Agent	De-ionized water	De-ionized water
Lancing Distance	12-15 meters	12-15 meters
Discharge Time	22 sec	22 sec
Fire Rating	55 A, 233 B, 1000V	55 A, 233 B, 1000V

WATERMIST & CAF TROLLEY MOUNTED SYSTEM 50L

LOW & HIGH PRESSURE SYSTEMS

Built on the same advanced watermist and compressed air foam (CAF) technology, this system offers increased capacity with its 50-liter volume and a robust trolley-mounted design. This makes it ideal for larger-scale fire emergencies where rapid mobility and greater fire suppression capability are essential.



Applicable On



SPECIFICATIONS

Parameters	LOW PRESSURE	HIGH PRESSURE
Pressure Vessel Material (50 L)	Stainless Steel (SS 316 or Higher) / Aluminium Alloy	Aluminium Alloy
Air Cylinder Material (6.8 L)	Steel/Carbon Composite with Aluminium Liner	Steel/Carbon Composite with Aluminium Liner
Operation Pressure	8-12 Bar	34-37 Bar
Extinguishing Gun	Stainless Steel	Stainless Steel
Type of Foam (3%,6%)	Standard AFFF Compound as per UL 162	Standard AFFF Compound as per UL 162
Extinguishing Agent	De-ionized water	De-ionized water
Lancing Distance	12-15 meters	12-15 meters
Discharge Time	120 sec	120 sec
Fire Rating	55 A, IV B, 1000V	55 A, IV B, 1000V

WATERMIST & CAF MOTORCYCLE MOUNTED UNIT

The “Fire Marshal”

This unique design enables rapid deployment, particularly in challenging or congested areas where larger vehicles may struggle. With the agility of a motorcycle, it ensures that fire response is swift and effective, making it an ideal solution for urban, industrial and large open area environments where terrain is difficult and speed is critical.



Applicable On



SPECIFICATIONS

Parameters	LOW PRESSURE	HIGH PRESSURE
Motorcycle - Make and Model	Royal Enfield Bullet/Classic 350 cc	
Pressure Vessel Material (2x9L/2x20L)	Stainless Steel (SS 304 or Higher) / Aluminium Alloy	Aluminium Alloy
Air Cylinder Material (2x6.8L)	Steel/Carbon Composite with Aluminium Liner	Steel/Carbon Composite with Aluminium Liner
Operation Pressure	8-12 Bar	34-37 Bar
Hose Length	30 meter	30 meter
Lancing Distance	12-15 meters	12-15 meters
Discharge Time	120 sec	120 sec
Fire Warning Accessories	Siren, Beacon, Public Announcement Kit	

WHY WATERMIST & CAF? - A COMPARATIVE ANALYSIS

Parameters	Watermist & CAF Extinguishing Systems	ABC Powder Extinguishing Systems	CO ₂ Extinguishing Systems
Fire Classes Covered and Rating	Class A, B and Electrical fires High Fire Ratings - A55, B233, 1000 V	Class A, B, C ; Lower Fire Ratings	Class B, Electrical fires; Lower Fire Ratings
Residue Left After Use	Minimal (water droplets evaporate)	Significant (fine powder residue that is corrosive and abrasive)	None (gas dissipates without residue)
Effectiveness on Electrical Equipment	Safe on electrical equipment up to 1000V	Not recommended	Safe (non-conductive but limited cooling effect)
Visibility During Discharge	Good (minimal impairment)	Poor (powder cloud can obscure vision)	Good (gas is clear)
Health Risks	Low (water is non-toxic and safe to inhale in mist form)	Moderate (inhalation of powder can irritate respiratory tract)	Moderate to High (risk of asphyxiation in confined spaces)
Environmental Impact	Low (water is environmentally benign)	Moderate (chemical powders can be harmful to the environment)	CO ₂ is a greenhouse gas
Maintenance Requirements	Low (less prone to clogging or corrosion)	Moderate (powder can settle and compact)	Low (requires weight checks for CO ₂ loss)
Lancing Distance	12 to 15 meters	Max upto 5 meters	Max upto 5 meters
Reignition Suppression	CAF technology suppresses volatile vapours, prevents reignition	Separate foam extinguisher required to prevent reignition	Separate foam extinguisher required to prevent reignition

THE INTEGRATED FIREFIGHTING UNIT: WATERMIST & CAF SYSTEM + SCBA KIT



This combination provides not only effective fire suppression but also enhanced safety for the user, allowing for safer operations in environments filled with smoke or hazardous gases. It is the perfect solution for first responders, ensuring they can approach and tackle fires efficiently while staying protected in challenging conditions.



SCBA - Self-Contained Breathing Apparatus

 **SPECTRA FIRE SYSTEMS PVT. LTD.**
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