



**The smarter way
of fire fighting!**

Mobile Systems

Mobile FOGTEC System

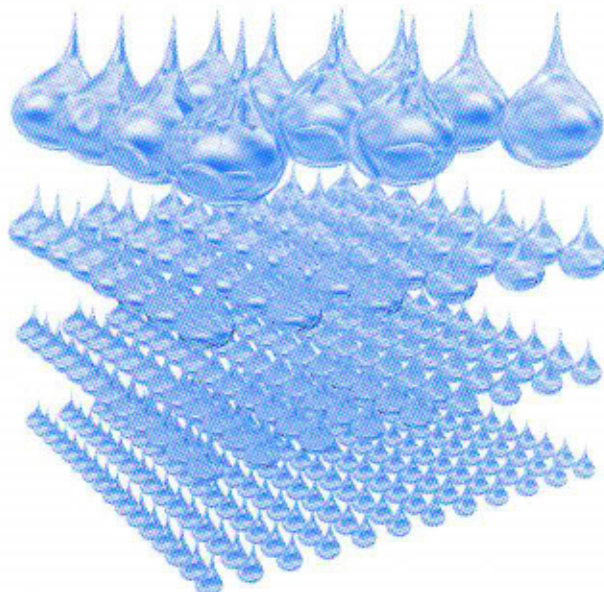
Highly effective-Environmentally friendly

Mobile FOGTEC systems are both highly effective and environmentally friendly fire fighting tools. Using pure water as the extinguishing agent enables the systems to be used for many diverse applications, even where once the use of water would have been totally unacceptable.



The Principle

FOGTEC systems use an advanced technique of fire fighting originally recognised in the 1930's. Up to date technology is utilised to apply water to the seat of the fire in the form of fine water droplets, this is essentially a water mist. As a result, the effective surface area of the water is greatly increased. The application of the water mist ensures that the heat is removed quickly and effectively from the fire. The fine droplets absorb a large amount of energy when they evaporate at the seat of the fire. The resulting water vapour has a volume 1640-times greater than that of the liquid state and this process drives out the oxygen necessary for combustion. The fine water droplets also suppress large amounts of soot particles and dilute water-soluble flue gases.



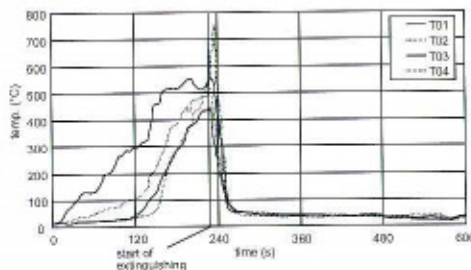
Small droplets, high impact:

Droplet Diameter	Reaction area per litre of water
1 mm	2 m ² (conventional technique)
0.1 mm	20 m ²
0.01 mm	200 m ² (high pressure water mist)



The FOGTEC Systems

FOGTEC systems represent a logical and progressive development of the water mist extinguishing technique. The well designed, modern components guarantee perfect results. FOGTEC systems operate at pressures of 80 to 120 bar. This is necessary to provide sufficient energy to break up the water into fine water mist and to ensure that the small fine water droplets penetrate the source of the fire.



Temperature curve in 1:1 full scale test.

ams friendly-Minimum water consumption



The FOGGUN

The FOGTEC FOGGUN represents many years of development and is at the heart of FOGTEC technology. It is available in a 5 or 2-jet format FOGGUN. Both models have special water mist jets, which create an especially fine fog. This makes particularly effective use of the benefits of water mist extinguishing and reduces the amount of extinguishing water required. The water mist created is so effective, that even fluid or dust fires can be extinguished without wasteful spraying. The fine water mist jets can be used in conjunction with a centrally located jet that creates coarse water mist. The central jet is used to achieve greater reach or to enable use of water mist on deep seated fires. Lateral jets protect the fire fighter from radiant heat. The operator can select the optimum spray pattern using an integral lever and thus adapt the extinguishing tactics to the behaviour of the fire.

The High Pressure Unit

FOGTEC high pressure units are available as standard devices with petrol or electric engine or for operation via an auxiliary drive unit. They have been developed in conjunction with specialist fire brigade personnel and as a result are particularly easy to use and robust. In addition to skid mounted units designed for inclusion into fire fighting vehicles, compact devices with integral hose reel and water tank are available as independent working systems. Appropriate additives such as AFFF can be used either as a pre-mix solution or by injection. A wide range of formats and options are available and it is possible, for example, to operate two FOGGUNS from a special high pressure unit, which demonstrates the flexibility of the system.



Standard high pressure unit



The Advantages:

- Minimised water usage compared with traditional methods
- Lowest level of consequential water damage
- Negligible production of contaminated water
- Safe for use on fluid and dust fires
- Continuous flow of water
- Selectable jet/water spray pattern
- Protection against radiated heat
- Suppression and dilution of soot particles and flue gases
- Lightweight and compact design
- Low-pressure losses - even in high rise buildings



Fine water mist



Water mist, medium range



Water mist, long range



Coarse water mist



Full jet

Mobile FOGTEC Systems

The Smarter Way of Fire Fighting!

6 wheel drive,
all-terrain
vehicle



Fire brigades

- As a standard removable system
- As an integral vehicle installation
- For advanced rapid intervention vehicles

Industry

- As an independent extinguishing unit for production and warehouse areas

Construction site protection

- As an independent fire fighting unit

Wall hydrants

- In production units
- In laboratory areas
- In offices



Standard fire truck



Rapid intervention vehicle



Pick-up truck as
extinguishing vehicle



Skid mounted standard unit



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The components shown in this brochure may differ from those actually installed.

