



FOGMAKER

South Africa

Automatic fire suppression system protecting Marine vessels

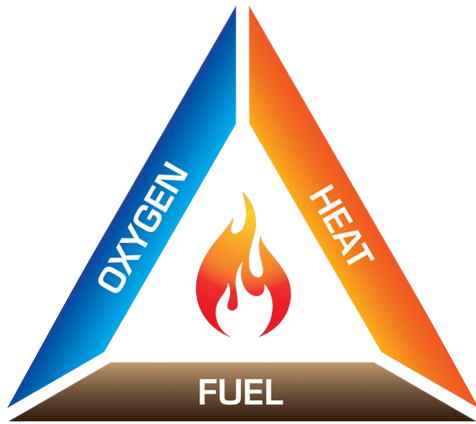


TRIPLE ACTION³

With high-pressure water mist.



THE FIRE TRIANGLE



FOGMAKER's fire suppression system effectively attacks all three sides of the fire triangle. We call this unique performance **Triple Action³**.

O Micro droplets of water-based extinguishant are generated by patented nozzles under high pressure. These droplets flood the area being protected and evaporate immediately on contact with heat. During the evaporation process, 1 litre of water will expand into 1700 litres of water vapour, which displaces air and stops the oxygen supply to the fire.

H During the vaporization process the water mist cools the hot gases and hot surfaces in the engine compartment. It takes 1 calorie to heat up 1 gram of water by 1°C, but 540 times more energy to evaporate the same amount of water. The cooling achieved by this vaporization reduces the risk of re-ignition.

F FOGMAKER's suppressant also includes, in low concentrations, an Aqueous Film Forming Foam (AFFF), which forms a protective barrier on the surface of any flammable material or fuel, thus preventing the fuel from being available for combustion.

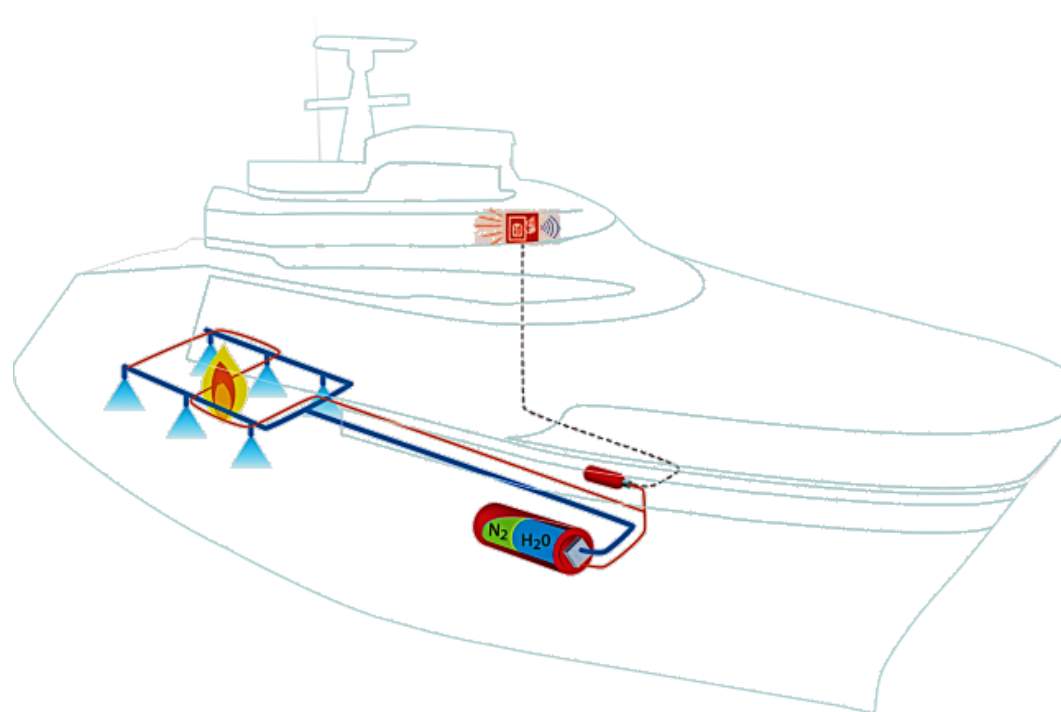
THE CHALLENGE

An engine fire on a boat may be catastrophic. At the very least a fire in an engine compartment might disable the boat's propulsion system and leave you stranded at sea.

If this fire is not immediately contained this could rapidly spread throughout the vessel threatening the lives of crew and passengers, requiring you to abandon the boat and possibly losing your asset. Help might be hours if not days away.
















By choosing FOGMAKER's automatic fire detection system and fire suppression solution to protect your boat's engine compartment, you will restrict the fire damage, safeguard your valued assets and save lives.

We are approved by Bureau Veritas for engine compartments up to 96 m3.



A PROVEN FIRE SUPPRESSION SOLUTION

FOGMAKER is the holder of several global and local certificates and approvals.

- 
FPASA
 (Fire Protection Association of Southern Africa)
- 
ISO 9001 and 14001
 (Quality and Environmental Management System)
- 
AS-5062
 (Australian Standards)
- 
IATF
 (International Standard for Automotive Quality Management Systems)
- 
UL listed 1384
 (American Standard for Mining Equipment)
- 
FIA
 (International Automobile Federation)
- 
UNECE
 (UN R-107 Vehicle Regulation)
- 
SBF 127
 (Certified for Logging and Construction)
- 
SBF 128
 (Certified for Buses and Coaches)
- 
SPCR 197 / 183
 (Swedish Fire Protection Association)
- 
SAMSA
 (South Africa Maritime Safety Authority)
- 
BV
 (Bureau Veritas - Marine and Offshore)
- 
RINA
 (Certification for Ship's Components and Accessories)
- 
SMA
 (Swedish Maritime Administration)
- 
FM
 (Worldwide Standards for Manufacturers - pending)

ASSET PROTECTION

WHY FOGMAKER ?

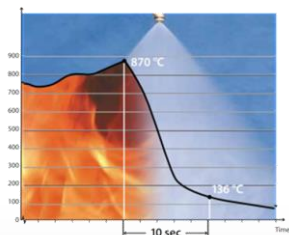
Mitigating the risk of an **engine fire** with **FOGMAKER's automatic fire suppression system** is the best way to protect your fleet of valuable assets from the **threat of fire**. **FOGMAKER** is fast becoming the **fire protection solution** of choice, and is trusted by many owners of heavy **vehicles** and **mobile industrial machinery** to safeguard their machines, save operator lives and protect the environment in which they are working.

The **FOGMAKER** fire suppression system is developed and manufactured in Sweden. **FOGMAKER** has a successful global track record in Europe, Australia, North and South America, Middle East and Africa – with over **200,000 units installed worldwide** since 1995.



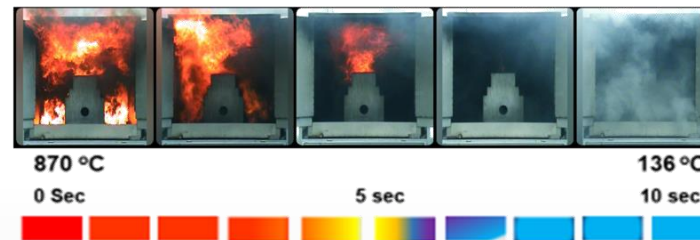
- **Extremely effective** - Triple Action³ fire suppression system attacks all 3 sides of a fire triangle.
- **Automatic fire suppression system** - using loss of pressure (LOP) technology. No electric power required.
- **Simplicity** - Minimal obstruction, low weight and orientation independent.
- **Easily installed** - within one working day by our **FOGMAKER** Field Engineers.
- **Low life-cycle cost** - Periodic inspections and major service every 2 years (MHSA) or 3 years (PER).
- **System monitoring** - including low pressure and fire alarm.
- **Automatic engine shut down** - optional.
- **Easy clean-up and quick recharge** once system has been triggered.

Fire suppression test in a simulated engine compartment with a volume of 2.5 m³. The fire source consists of Four 20cm x 40cm trays filled with diesel. A spray fire is then simulated by applying diesel at a rate of 2 litres per minute at a pressure of 5 bar, which engulfs the engine. The combined heat output of the fire is approximately 1600 kW



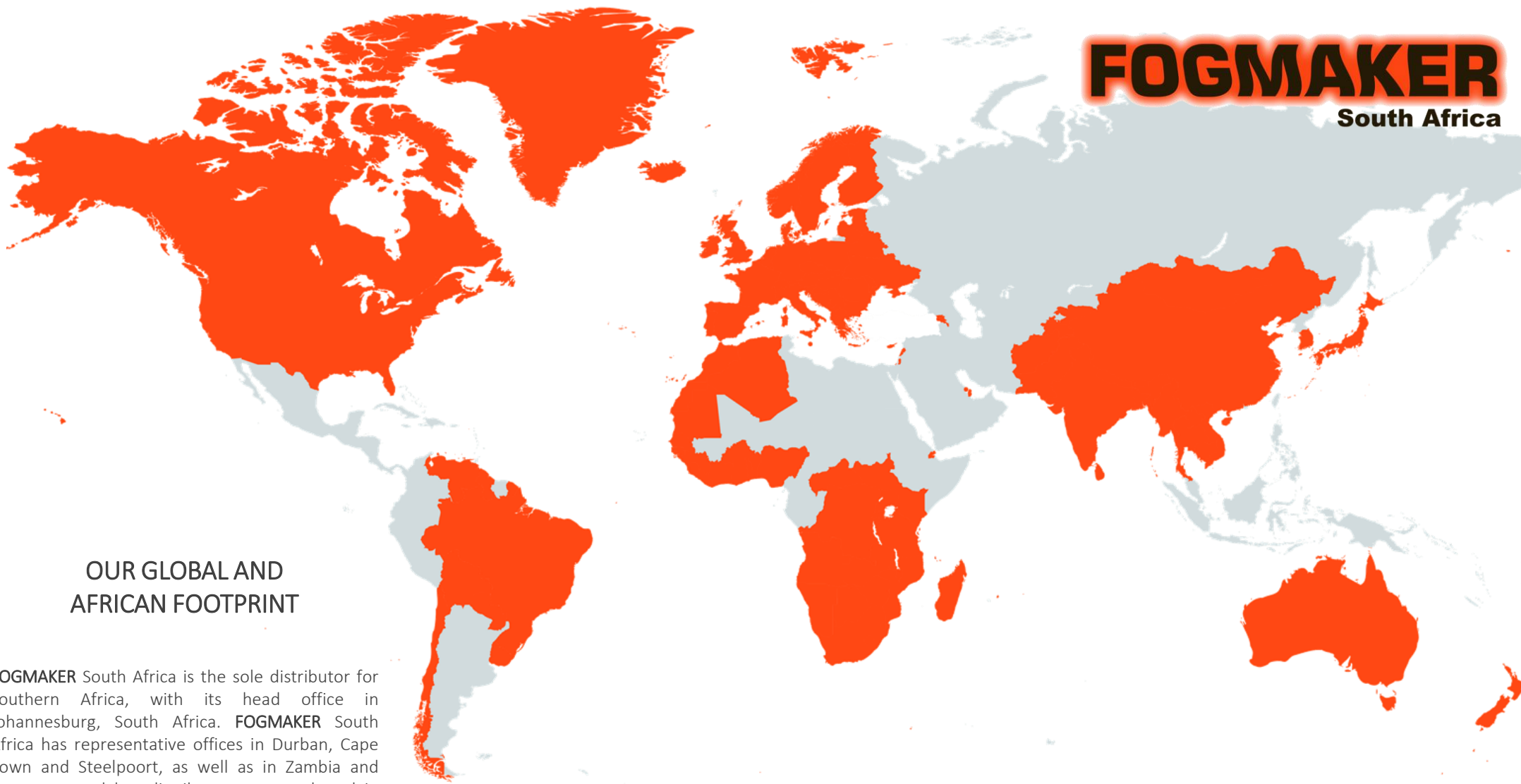
Temperature of burnt gases

“From 870 °C to 136 °C in 10 seconds!”



In this simulation the fire is allowed to burn for more than 20 seconds. The burnt gas temperature increases to 870 °C at which point the **FOGMAKER** system is activated manually. In 10 seconds the temperature of the burnt gases decreases to approximately 136 °C. In addition to the rapid extinguishing the risk of re-ignition is minimized. This means reduced repairs and downtime.





OUR GLOBAL AND AFRICAN FOOTPRINT

FOGMAKER South Africa is the sole distributor for Southern Africa, with its head office in Johannesburg, South Africa. **FOGMAKER** South Africa has representative offices in Durban, Cape Town and Steelpoort, as well as in Zambia and Botswana, and has distributor partners based in Ghana, Nigeria and Togo.

At the heart of **FOGMAKER** South Africa are an amazing team who are passionate about our product and the customers we service. What truly differentiates us from our competition is our approach to risk mitigation, our tailored system design, our speedy installation and excellent after-sales service. Our mobile technical consulting team are available to visit you on-site to conduct fire risk assessments, installations and servicing.

FOGMAKER Southern Africa

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