

Fire Suppression System



Protect Lives and Equipment

Material Handling

Pure Performance with Triple Action

Safety shouldn't be a Compromise

THE CHALLENGE...

Container and harbor operations are sensitive to unscheduled downtime. Reach stackers, container handlers, forklift trucks, cranes, terminal tractors, and similar equipment can be both difficult and expensive to replace.

Increased demands on reduced emission levels have led to higher fuel pressures and increased engine compartment temperatures. A leaking fuel line or ruptured hydraulic hose can lead to devastating financial and operational consequences. Most fires in machines with combustion engines start in the engine compartment - a place where a fire may not be discovered until it is a blaze and almost impossible to suppress with a hand-held fire extinguisher.

In battery-electric machines, both thermal runaway and components can be fire initiators, and research has shown 50%-60% of fires originate outside the battery itself. Fogmaker works through preventing a fire from reaching the battery. Machines with fuel cells have similar risks, and a fire can lead to a devastating gas explosion. Here too, proactive fire suppression is needed.

...AND SOLUTION

Fogmaker has decades of experience in detecting and suppressing fires, and the system will provide the best possible fire protection performance if there is an emergency. The system is tailored to each type of material handling equipment and energy source.

The specially formulated water-based mist protects engines, hydraulic components, and similar at-risk areas. The system is always active, fully automatic, and independent of electricity.

The Fogmaker system has a large number of international certifications and our new Eco1 Fluid is 100% PFAS free, and Greenscreen Certified at the silver level. Fogmaker International is a member of PEMA.

Find a distributor near you, or read more about the system and what we can do to help protect equipment in ports on our website: www.fogmaker.com

"From 870 °C to 136 °C in 10 seconds!"



Unique cooling effect; temperature reduction of 734 °C in 10 seconds!

Fire suppression test in a simulated engine compartment with a volume of 2,5 m³. The fire source consists of four 20 x 40 cm trays filled with diesel. Diesel spray is also applied at a rate of 2 liters per minute at a pressure of 5 bar. The heat effect reaches approximately 1,600kW. The pictures are taken with 2 second intervals. During the whole interval, 10 seconds, approximately 7 dl suppressant is used.



Fully automated, always active, and independent of electricity.

Fogmaker Benefits



Choice between several piston accumulator sizes for greater flexibility.



(M)

System monitoring - activity, low pressure, and fire alarm.



Easy installation.



Low Life Cycle Cost - annual inspection, 5 year service.



Simplicity - no power supply, position independent, and requires minimal space.



Quality and environmental certifications, IATF-16949.



Triple Action³ – attacks all three sides of the fire triangle.



Certified Partner and OEM training courses via Fogmaker Academy.



Automatic engine shutdown (optional).



Global network via certified partners.



Great cooling effect and long emptying time, which prevent re-ignition and down-time.



Free technical support.





ACTIVE 24/7

The system is always ready. No power supply needed for activation or system monitoring.



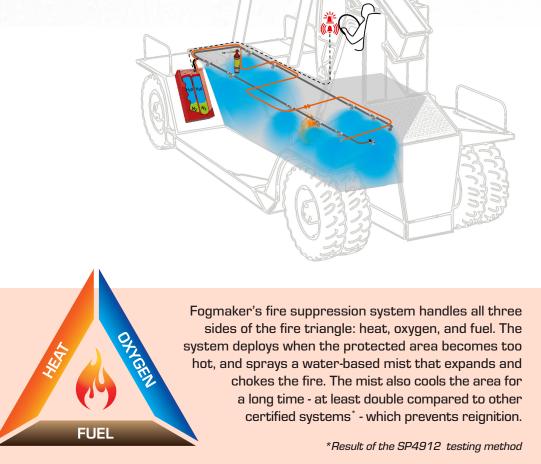
LESS DOWNTIME

Quick recharging for minimal downtime



INTERNATIONAL **NETWORK**

Global distributor presence and local knowledge



The system is tailored for

different types of Material

Handling machines. It is

important to us to make a risk

analysis with the customer prior to installation.

THE IMPORTANCE OF SERVICE

The Fogmaker Fire Suppression System is designed to save lives and protect property. The system is sturdy and reliable, but requires regular service to ensure it will be deploy when needed. Service can only be done by accredited technicians.

Service intervals can vary depending on type of machinery, but most systems require an annual service, a five-year service, and a more extensive ten-year service. Some systems installed in heavy-duty environments may need to be

serviced more often.

It is important to adhere to these intervals. If there is a fire, many insurance companies will not pay if the fire suppressing sytem hasn't been maintained. Also, Fogmaker gives a two-year warranty from the manufacturing date, but the warranty is void if the system hasn't been serviced.

Accredited technicians have gone through a

SERVICE SCHEDULE

The Annual Service

Must be performed the first time within a year ±2 months after installation date.

Five Year Service

Five years after the manufacturing date. The service includes replacement of fluids and pressure gauge.

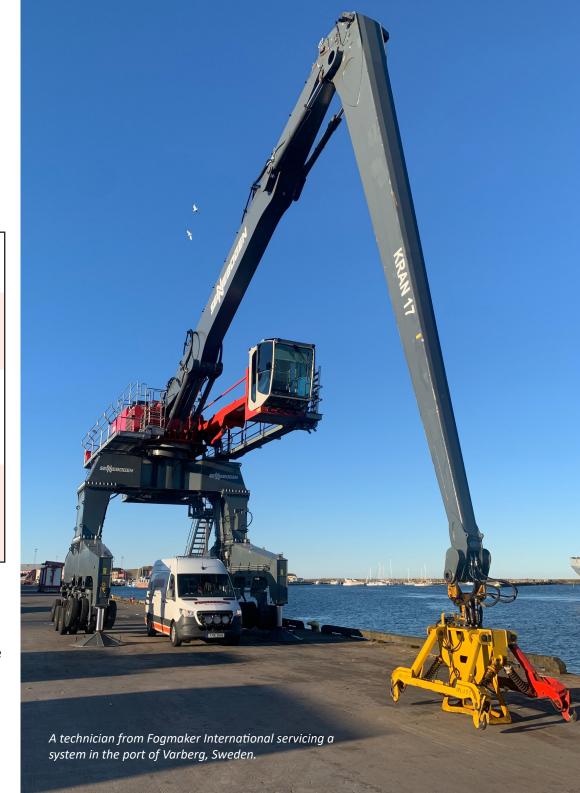
Ten Year Service

Ten years after the manufacturing date.
During this service, items like detector bottle and gaskets are replaced.

course at Fogmaker Training Academy, and will be able to show an ID card or a certificate. If you need help finding a technician, visit www.fogmaker.com to find our partner in your country. They can help you locate a technician near you.

The Fogmaker system has a low Total Cost of Ownership, and following the service guidlines will ensure that your system will last and be reliable for many years to come.

You can budget for service, but not for a fire!





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Proud Member of PEMA





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