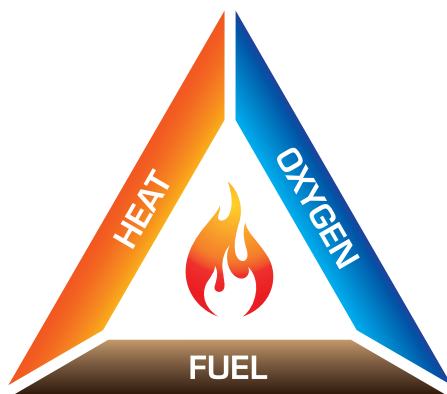


## FMI AB Celebrates 10 years in Dubai + 1,200 bus fire suppression systems at RTA in Dubai

Over the last ten years Fogmaker has supplied fire suppression systems to more than 1000 new buses as well as 300 retrofittings in buses operated by RTA in Dubai



Fogmaker "Triple action<sup>3</sup>"



Dubai skyline and traffic

## First fire suppression system to hold type approval certificate with regard to UNECE Regulation No. 107

*New International standard for fire suppression systems in buses and coaches:*

Fogmaker is already present, except in Sweden, in large cities such as Berlin, London, Washington D.C., Sydney, Istanbul, Hong Kong and Singapore. But now possibilities open for an even wider spread of Fogmaker's technology to protect vehicles, capital and especially human life.

From July 11th, 2019, all new coaches across the European Union will have a permanently installed fire suppression system in the engine compartment. From September 2021, this regulation also applies to road and city buses. This framework falls under UNECE R-107, and the requirements for this type of fire suppression systems are based on a test method developed by SP in Sweden.

The fire suppression systems are tested in a rig built to mimic a real bus engine bay, with different fire sources and with different circumstances such as varying fan speed. Fogmaker was the first fire suppression manufacturer to carry out the official tests with successful results.

**E5** 107 R - 06001



Fogmaker first FSS approved for R107

# Fogmaker Australia News: Harbour cranes

Firestorm has completed 4 installs on Liebherr harbour cranes for QUBE logistics across Australian ports. These installations include 3 x 280H, 2 x 420 and 1 x 550 model harbour cranes. Most cranes were installed with 12 x 7.5ltr Fogmaker cylinders, interconnected with the Liebherr multiplex system and also integrated with Liebherr's existing fire detection system.

Further mobile harbour cranes are due for installation in February in Darwin. The Fogmaker system has been well received on the ports with many installations taking place on reach stackers.



## Tunnelling Projects

The majority of tunnelling and underground machines in tunnelling projects in Sydney have Fogmaker fitted as standard. These machines include locomotives, drilling, construction machines and light vehicles.

## Bus Projects

Firestorm Fire Protection have been awarded a 2400 bus contract. All buses are to be designed to the "P" Mark standard. All 2400 buses are scheduled to be installed before the end of August 2017 which provides for an average of 266 installation per month over 9 months. These are all retrofit systems to existing buses ranging up to 22 years old.

All new buses delivered under government agreements in NSW, South Australia, Canberra and Western Australia all have Fogmaker systems fitted as standard. Many private operators are including Fogmaker as standard fitment on all new buses and where the risk of fire is high; are initiating retrofit programs.



*"The Fogmaker system increases safety" Kieran McHatton, Firestorm/Fogmaker Australia*

# FOGMAKER

## Installed more than 1,000 Mercedes Citaro

More than 1000 Mercedes Citaro's are now fitted with Fogmaker suppression system. The buses are delivered to the Singapore public transport system.

Our partner in Singapore is:  
Tyron Singapore Pte Ltd  
Contact: Patrick Ong, +65 628 488 78



## Hybrid buses in London

Transport for London currently has 800 Hybrid buses running in traffic with the Fogmaker Fire Suppression System installed.

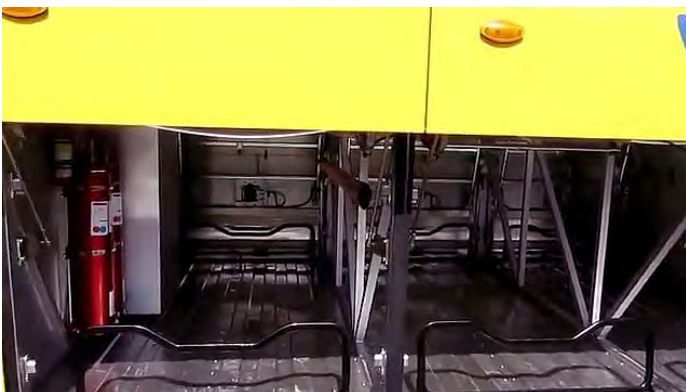
The Fogmaker partner in London is:  
PSV Transport  
Contact: Mr John King  
+44 1992 479950



## Fogmaker installations in Chile

Fogmaker Chile are currently fitting fire suppression systems in 1,300 coaches for the Pullman group. The project is ongoing.

For more information, contact:  
Fogmaker Chile, Mr. José Calla Carrasco  
+56 2 2880 2447 or [info@fogmaker.cl](mailto:info@fogmaker.cl)



*Fogmaker cylinders installed in a Pullman coach luggage compartment.*

## ISO Re-certification and ISO TS certification

Fogmaker International AB has received re-certification of Quality management system ISO 9001:2015 and Environmental management system 14001:2015 in Dec 2016.

During 2017 Fogmaker will start the certification for ISO TS 16949.



## FM approval ongoing...

FM 5970 approval is on the way for the Fogmaker system. The fire tests were approved in november 2015, now the component tests are ongoing.



Member of the FM Global Group

© FM Approvals

## Fogmaker International AB expands

Fogmaker International AB in Sweden builds new fire test laboratory, training and R&D facility.

We have constructed a test rig to perform test for SPCR-183, R107 and other international certifications.



Fire tests at SP

## Cylinder model 178 is now available

To better accommodate area variations when installing the Fogmaker system, a new model with a larger diameter of 178mm has been developed and is now released. A 27mm larger diameter than the standard diameter of 151 mm, allows for shorter length and/or fewer cylinders when installing the Fogmaker system.

The 178-cylinder model comes in two sizes of 6 and 11.5 liters.



Model 178 - 11,5 liter and 178 - 6 liter next to the four current cylinder sizes (151- 7,5 / 6,5 / 4 and 3,3 liter)