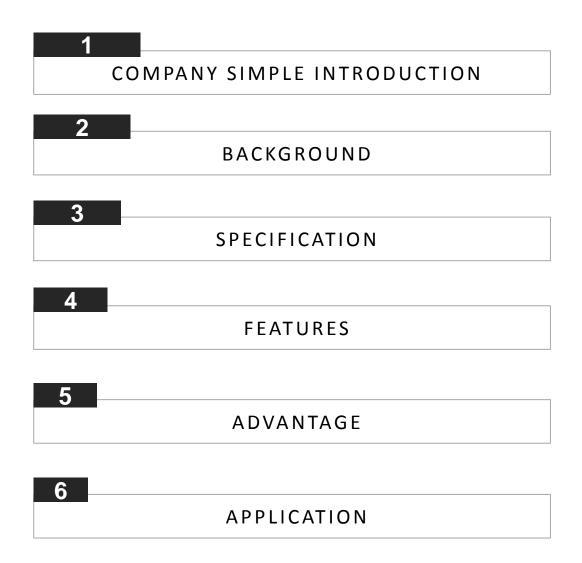




AUTOMATIC TUBE FIRE SYSTEM



CONTENTS





COMPANY SIMPLE INTRODUCTION

PART ONE

PRI-SAFETY was established in 2004, is professional manufacturer of <u>Tube Automatic Fire Suppression System</u>, <u>Cylinder Automatic Fire Suppression Systems</u>, <u>CAFS Fire Systems</u>, <u>Throwing Fire Extinguisher</u>, <u>Cooking Oil Fire Extinguisher</u>, <u>Fire Extinguisher</u>, etc.

Our products are mainly export to Europe, Middle east, America, South America, Africa, etc.

Most of our products are with approval of CE, EN3, EN671, UL, LPCB, MED, etc.

We produce high quality fire fighting products, and we supply one-stop purchasing service too.

















BACKGROUND

PART TWO



Vehicles Fire

Vehicles fires are a problem in the world, and the number of fires is increasing every year. Most car fires have its source in the engine room. The most dangerous sources of fire in the cabin include arcs, overloaded wires, hot surfaces, mechanical sparks, and power sources.



(PRI-SAFETY)

Vehicles Fire

13 Aug 2017



Driver praised for evacuating passengers after Largs bus fire

... driver whose **vehicle** caught **fire** in North Ayrshire has been praised after all...

News | Glasgow & West Scotland

15 Aug 2018



South Korea to ban some BMW vehicles over engine fires

... streets after a spate of the **vehicles** catching **fire**. The ban will apply to cars which...

News | Business

3 May 2018



Vauxhall Zafira fires face criminal investigation

..., no one has been seriously injured in one of the **vehicle fires**, In November 2015...A criminal investigation has been launched into Vauxhall Zafira **fires**..., the Driver and **Vehicle** Standards Agency (DVSA) has confirmed. A Transport Committee...

1 Mar 2018



Abergavenny vehicle depot fire 'started deliberately'

...A fire at a vehicle recovery centre is believed to have been started...

News | South East Wales

19 Dec 2017



Army vehicle catches fire on M1 motorway

...An Army **vehicle** has caught **fire** on the M1 at Dungannon in County Tyrone while... with the **vehicle fire** shortly before 07:00 GMT on Tuesday and the operation led to long.... "Firefighters liaised with PSNI and Army personnel in advance of dealing with the **fire**.

2 Sep 2015



Three vehicles on fire after crash in Birmingham

...Three vehicles burst into flames after a crash in Birmingham. A car is thought to have hit two other cars and a van, which were all stationary and empty, in Farnborough Road earlier, paramedics said. Two cars and the van were on...

31 Jan 2013



Annan vehicle fire spate investigated

...Police are investigating a spate of "suspicious" **vehicle fires** in a south.... The fire was put out by Dumfries and Galloway **Fire** and Rescue Service, but the **vehicle**...

News | South Scotland

16 Dec 2017



Recovery truck engulfed in flames on M6

... delays when two lanes were closed. It is not known how the recovery **vehicle fire**...

News | Birmingham & Black Country

29 Mar 2013



Multi-vehicle fire near Chawleigh investigated

...An investigation is under way into the cause of a fire involving four cars, two caravans and a large number of gas cylinders in Devon. Crews from Barnstaple, Chulmleigh, Witheridge and North Tawton were called to a field by the B3042...

News | Devon

23 Feb 2010



M4 blocked following vehicle fire

... on the M4 at Port Talbot was temporarily blocked in both directions following a **vehicle**... **fire**. Queues formed between J39, Margam, and J40, Taibach, as recovery work got...

News | Wales

(PRI-SAFETY)

Vehicles Fire

6 Jul 2018



Cars set ablaze in third night of Nantes clashes

..., protesters set **vehicles** on **fire** in the streets. The clashes between protesters and police...

News | Europe

17 May 2018



Truck bursts into flames on motorway

... A dump truck in Texas caught fire after crashing into the central reservation. The driver escaped the scene uninjured....

News I US & Canada

1 Jan 2018



Liverpool Echo Arena car park fire destroys 1,400 vehicles

... away from the arena A huge **fire** has destroyed up to 1,400 **vehicles** in a multi... of the blaze: "Initial investigations indicate that an accidental **fire** within a **vehicle**...

29 Mar 2017



90 vehicles destroyed by fire at Haggardstown near Dundalk

...About 90 vehicles have been destroyed in a fire in a storage compound near...

News | Europe

7 Dec 2016



Vauxhall Corsa fires: Calls for national data sharing

... incidents involving Vauxhall models. BBC Watchdog has found details of **vehicle fires**.... The manufacturer said it would inspect any **vehicle fire** if the car could be made available.... In a statement, it said: "Better access to data about **vehicle fires**

1 Nov 2017



Ambulance explodes outside Glasgow hospital

... a Glasgow hospital. The **vehicle** caught **fire** near Stobhill Hospital at about 13:50...

News | Scotland

13 Sep 2016



Garvagh: Up to 600 vehicles damaged in fire at breakers' yard

... attended the scene. The NIFRS said its **fire** emergency support service **vehicle** was also... under control. "When we arrived there was quite a significant amount of **vehicles**... involved and we increased our **fire** appliances to six at the

1 Nov 2017



Ambulance explodes outside Glasgow hospital

.... The **vehicle** caught **fire** near Stobhill Hospital at about 13:50 on Wednesday. The Scottish...

News | Glasgow & West Scotland

29 Nov 2016

21 Feb 2018



Lorry fire and four-vehicle crash cause delays on A470

...A lorry **fire** and a four-**vehicle** crash have caused "severe delays" on the A470...

News | South East Wales



Blackwall Tunnel: Car fire closes tunnel in London

... coming from a silver **vehicle**. The London **Fire** Brigade said the cause was "not known...

News | London





Electrical equipments, such as electrical cabinets, fuse boxes, audio-video equipment or racks are all around us. Each of these small spaces poses a threat to the surrounding equipments and the building itself due to increased risk of fire. It is important to note that many fires start just because of a short circuit at the very moment when one is not present in order to intervene immediately.





1 Apr 2015



Holborn electrical fire causes mass evacuation

...An **electrical fire** under the pavement in central London led to some 5,000...

News | London

31 Jan 2017



Nottingham bus fire 'probably caused by electric fault'

...The driver was called a hero for ordering passengers off before the bus was engulfed in flames A huge fire that ripped through a bus and melted nearby traffic lights was probably caused by an electrical fault, investigators have said...

5 Apr 2011



Birmingham flats evacuated due to electrical fire

...A block of flats in Birmingham has been evacuated after an electrical fire

News | Birmingham & Black Country

8 Jan 2012



Electrical fire closes Banbury's Castle Quay Shopping Centre

...Shoppers were evacuated from an Oxfordshire shopping centre after **fire** broke... out in an **electrical** room. Firefighters were called to the Castle Quay...

26 Nov 2015



Clandon Park House fire 'caused by electrical fault'

...A fire that destroyed an 18th Century mansion started accidentally and was probably caused by an electrical fault, investigators have said. Clandon Park House near Guildford, which housed a collection of furniture, porcelain and...

30 Nov 2015



Cause of Balloch Primary School fire 'electrical'

...An **electrical** fault may have caused a **fire** in a room at a primary school...

News | Highlands & Islands

25 Jun 2015

24 Dec 2008

7 Dec 2015



Electric bus catches fire in York city centre

...Firefighters have put out a blaze on an electric bus in the centre of York. The fire started on the Park and Ride service, operated by First, after it broke down on Stonebow at about midday. No-one was seriously injured in the...

News | York & North Yorkshire

31 Mar 2009 Electricity fire 'not vandalism'

...A blast at an electricity substation in east Belfast was not caused by anyone tampering with equipment, NIE has said. Power was lost to 28,000 properties in the greater Belfast area after a small fire at the Manse Road substation. NIE...

News | Northern Ireland



Homes evacuated in electric fire

...People were evacuated from their homes in Liverpool after a **fire** involving... **electrical** cables . Firefighters tackled the blaze at 0710 GMT in Admiral Street...

News | Merseyside

Birmingham cinema fire sparked by electrical fault

...A fire at a cinema in Birmingham's entertainment district was caused by an electrical fault, firefighters say. Crews received more than 20 calls about the blaze at Cineworld in Broad Street on Sunday evening. Hundreds of people...



24 Jan 2015



Fakenham fire: Electrics blamed for Aldiss market place blaze

... A severe fire which destroyed an historic town centre building

and took around 100 firefighters to tackle, was probably caused by faulty electrics. Crews were called to the Aldiss building in

6 Apr 2018

16 May 2014

16 Aug 2016



Fire-hit Llandudno Junction station reopens

... an electrical fire on Saturday morning . The fire damaged a lift shaft, building structures...

News | North West Wales

13 Jul 2017



Electrical fire closes London Paddington station

Fakenham Market Square, Norfolk, on 25 May ...

... to an electrical fire at London Paddington. The station was cleared at 19:30 BST due...

News | London



Electrical fire strands liner Saga Sapphire off Isle of Mull

... of Mull after an electrical fire. An emergency was declared on the Saga Sapphire...

News | Glasgow & West Scotland

8 Dec 2011



GM Chevrolet Volt: Buyers spooked by electric car fires

.. Fear may not be rational, but it is always real and it always changes behaviour. US carmaker General Motors (GM) is feeling it right now, as potential customers' enthusiasm about its innovative Chevrolet Volt is cooling down. ...

31 Oct 2012



Deganwy fatal house fire: 'Electrical fault' caused blaze

... "This fire highlights the danger of electrical fires and their potentially tragic...A house fire which killed an elderly couple started due to an electrical fault..., the fire service has said. A man in his 90s and a woman in her 80s died following...

25 Jul 2015



Electrical fire caused Cotgrave industrial estate explosion

...An electrical fire was the cause of an explosion at an industrial estate... throughout the day, we can now conclude that the fire was an electrical fire caused...



Electrical fire at Saudi wedding kills 25

... At least 25 people have died and 30 others were hurt in a fire at a wedding in eastern Saudi Arabia, officials say. Hundreds were inside the courtyard of a home in the village of Ain Badr, in the Abgaig region, when the blaze began. A high...

News | Middle East

13 Jul 2017



Grenfell fire: 'Test electrical goods in tower blocks'

.. Electrical goods in tower blocks should be tested automatically to help prevent fires, a safety charity has said. Following the Grenfell Tower disaster in London, Electrical Safety First (ESF) said the Welsh Government should test

7 Oct 2012



Royal Cornwall Hospital electrical fire tackled

... at Treliske. A spokesman from Cornwall Fire and Rescue Service said the fire... was in an electrical room on the ground floor of the hospital's five storey Tower Block. No-one...

News | Cornwall

















Automatic Tube Fire Suppression System is a unique automatic extinguishing system that guarantees protection from fires before they spread.

It's effectively protect electrical spaces and stop the fire from spreading outside of the protected enclosure whereby preventing severe damage and losses.



SPECIFICATION

PART THREE





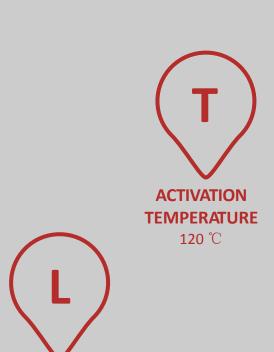
Tube Automatic Fire Extinguisher System helps to protect vehicle engine compartments and electrical equipments and vastly reduces the risk of fire spreading to other parts.

The tube consists of a heat sensitive tube which is sealed at either end with stainless steel fittings. The tube acts as both the storage medium and as the fire detector. The tube is unaffected by temperatures of up to 120 Degrees Centigrade but fire is of course much hotter and will cause the tube to burst, immediately extinguishing any nearby flames.

The detection tube is filled with clean agent which is almost odourless discharges as a liquid instantly dispersing in the form of a gas and leaves no residue. Importantly the fluid itself does not conduct electricity or cause thermal shock damage. Comparing with powder or foam agent, you get the additional benefit that after use there is no extinguishant residue and consequently none of the cleanup cost associated with foam and powder.

The system requires no maintenance during its entire working life. It can be installed by any competent individual, and thus no training is required for installation.

LENGTH 100MM 200MM 400MM















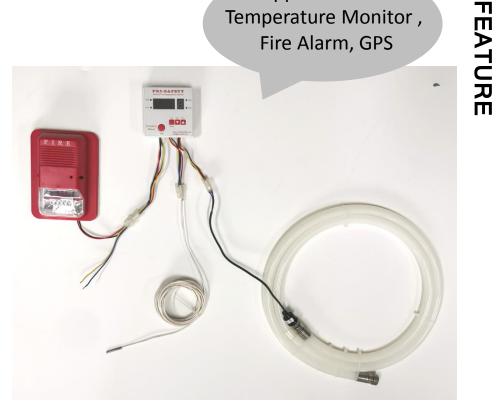
CODE	TFS-0.5	TFS-01	TFS-02	TFS-03	TFS-04	TFS-05	TFS-06
Length x Dia	0.5mx18mm	1mx18mm	2mx18mm	3mx18mm	4mx18mm	2mx18mm	2mx18mm
Agent Capacity	100g	200g	400g	600g	800g	1000g	1200g
Protection Space	0.1 ~0.125m3	0.2~0.25m3	0.40~0.50m3	0.60~0.75m3	0.8~1.0m3	1.0~1.25m3	1.20~1.50m3
Agent Type	FM200 (HFC-227ea) / FE-36(HFC-236fa)						
Material	Polyamide Tube						
Pressure at 20			2~6 Bar	/	1~4 Bar		
Pressure at 100° C	19Bar / 15Bar						
Burst Temperature	100° C± 10 ° C / 120° C± 10 ° C						
Working Temperature	-40° C~+90° C						
Shelf life of Systems	5 years						



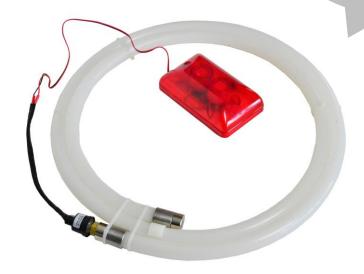
FEATURE

PART FOUR

Opptional with Temperature Monitor, Fire Alarm, GPS



Opptional pressure switch with alarm system.





APPLICATION

PART FIVE



1.SYSTEM INSTALLED

How it works?



5.FIRE QUENCHED



2.FIRE BREAKOUT



4.EXTINGUISHING



3.FIRE DETECTION



The Tube Automatic Fire Systems are used to protect the enclosed space, including but not limited to:



- Engine Compartments of Boats and Yachts.
 - Electric Panel, Switch Board, Sever Panel, .Control Box, etc.
 - Engine Compartments of All On-Road Vehicles and Off-Road Vehicles: Car, Van, Bus, Mini Bus, Truck, Rally Car, Mining Machine or Construction Machine, etc.



INSTALLATION

PART SIX



Installation Precautions:

- 1) Do not use metal fastening materials for installation (steel clips, metal wires, etc.).
- 2) The installation shape of the pipe is irregular. According to the protection space, ensure that all spaces can be protected.
- 3) The automatic fire extinguishing tube installed in the engine room should not be close to the high temperature place in the engine room.
- 4) The minimum bending radius is 25cm. When installing, do not bend excessively.
- 5) Please do not move the accessories of the fire extinguisher tube at will, such as the pressure gauge and the plug at the end.
- 6) If you find that the pressure gauge is a little loose, please tighten it in time. Do not deliberately loosen or force the pressure gauge and the plug at the end.

(PRI-SAFETY)

There are two installation Method:



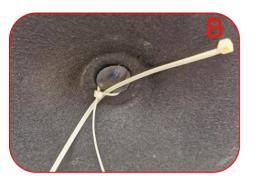
Method 01 (Install on the hood)



A. Use tools to loosen the cable tie on the fire tube and plan a suitable installation location according to the length of the tube.



C. Tie the fire tube to the hood in turn.



B. On the hood, find a suitable position, tie two cable ties on the soundproof cotton buckle, Secure the second cable tie with the first cable tie, fix the tube with the second cable tie.



D. Cut off the tail of the cable tie to complete the installation.

(PRI-SAFETY)

There are two installation Method:



Method 02 (Install on the engine)



A. Use tools to loosen the cable tie on the fire tube and plan a suitable installation location according to the length of the tube.



C. Tie the fire tube to the engine compartment with cable ties, and cut off the excess tail of cable ties.



B. Next to the engine, find a suitable location, tie the cable tie, for fixing the fire tube.



D. Finally complete the installation.



THANKS