

# **FIRE** INTERNATIONAL BUYER

**THE ACTIVE AND PASSIVE MARKET LEADER**

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**MAY JUNE 2020**

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*How the fire foam market continues to grow at a rapid pace*



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# WELCOME TO THE *LATEST ISSUE* OF INTERNATIONAL FIRE BUYER

**T**he world moves in very strange ways, but if you were to tell me a few months ago when I was writing this letter for the last issue of International Fire Buyer that things would have changed this much, I'd have struggled to believe it.

While we of course feared the impact of COVID-19, I'm sure many of us would have assumed it would be long over by now – but alas, this is not the case and the handling of the virus by those in the highest office in certain countries remains suspect at best.

However, one thing that hasn't been suspect is the way that the fire industry has clubbed together to do their bit. In these tough times, it has been heartwarming to see so many fire departments do things like giving hospitals excess PPE that is transferrable or find other ways to be of use.

This stretches to socially distance checking on vulnerable people and making sure they have everything they need and of course, still doing their main job as and when they are required. Even in lockdown, fires still take place.

They are also taking place all across America in a somewhat different way too, as the riots taking place in the aftermath of the police murder of George Floyd have also caused firefighters to be active in the line of duty.

In incredibly unfair circumstances, firefighters have occasionally been caught in the crosshairs of rioters and police, with a handful of officers having to dodge bricks

and smoke grenades while they carry out their task.

What did fill me with hope though, was the words of Deputy Chief Billy Goldfeder, who stressed that even at a time of civil unrest, the firefighter duty is to protect the public and that is something they must stick to at all times.

"There was a bumper sticker that was out in the '60s, printed up by the IAFF, which stated 'FIREFIGHTERS FIGHT FIRES ... Not people' – and it still holds true," Goldfeder said. "Our mission is clear and we are all about taking care of the public, but it gets fuzzy to some people during civil unrest. But it can't get fuzzy."

It would be easy for the fire departments to side with fellow first responders, but it's refreshing to see them maintain that the public comes first – it's just a shame that some of their blue colleagues aren't heeding their advice.

I hope that you enjoy this issue of International Fire Buyer and of course, stay safe.

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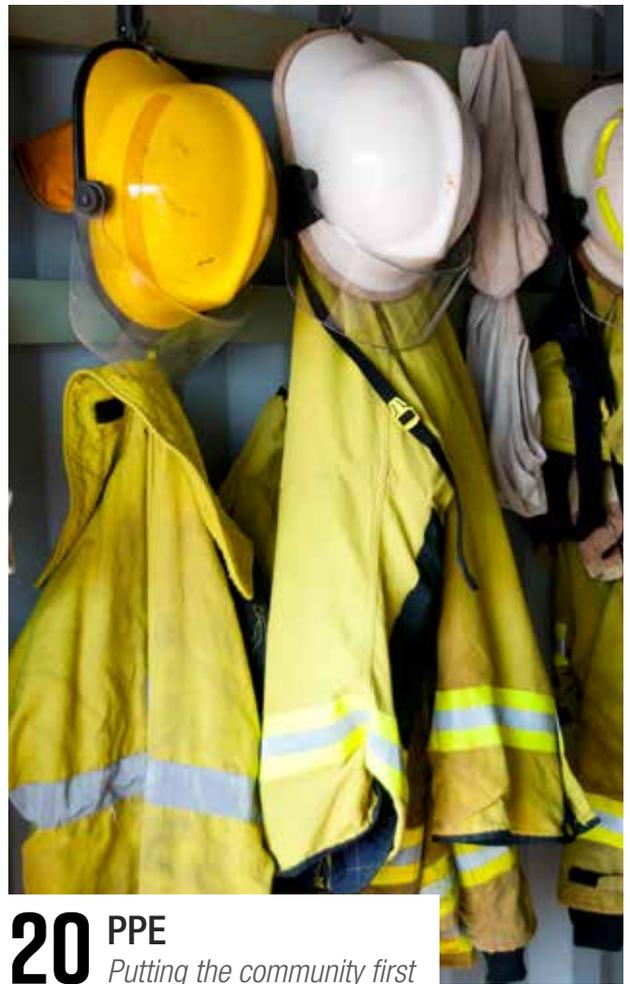
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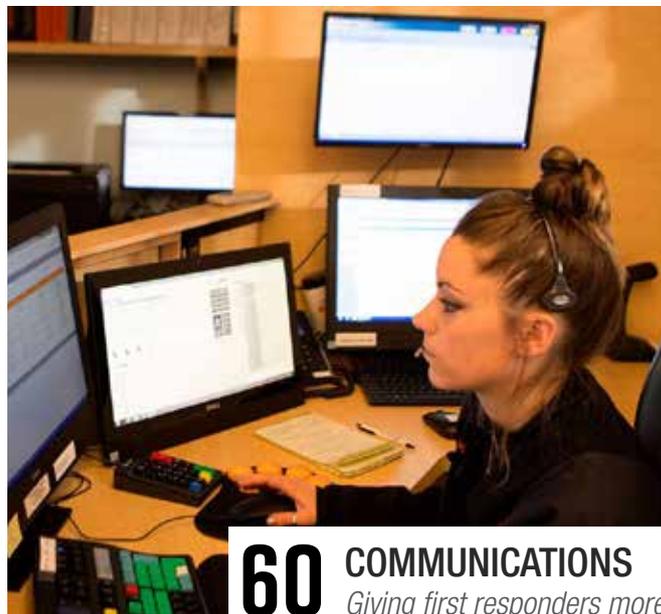
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## GET IN TOUCH WITH FIRE BUYER

Connect with us on LinkedIn, Twitter or Facebook, we look forward to hearing your thoughts and opinions on the latest topic in the industry.



### APOLLO FIRE

@APOLLOFIREEMEA

To help you fit education into your schedule, our webinars are now available on demand. If you can't attend the scheduled date, you can still sign up and we will send you a link to the recording afterwards!

### NITTAN

@NITTANEUROPE

Nittan Europe are proud to have its Evolution dual optical fire detectors installed into the NHS Nightingale Hospital Bristol.

### FIREANGEL

@FIREANGELSAFETY

Cleaning your #smokealarms regularly is as important as testing them! Using the brush attachment on your vacuum, clean around the vents. This will remove built up dust, and any spiders or insects from within, allowing the alarm to detect danger quickly.

### ROSENBAUER

No matter whether it's wind, rain or sunshine...

The HLF 20/16 on Mercedes Benz Atego of the Krefeld-Hüls Fire Department is equipped for firefighting operations and technical assistance in all weathers.

### STREAMLIGHT

We're excited to announce our FlipMate and Syclone work lights have been nominated for Professional Tool & Equipment News Magazine (PTEN)'s 2020 People's Choice award. Don't forget to vote for us now through July 31st in the Lighting category under Shop Equipment and Power/Air Tools

### HOLMATRO:

Besides easy battery management, the new Pentheon Series batteries last longer as well. This due to several big improvements like the use of extra large and powerful cells within the battery, heating up the battery in Pentheon tools much slower than regular batteries. Another feature entails the automatic start/stop system, which saves a lot of energy!



# TOOL MOUNTING IMPROVED

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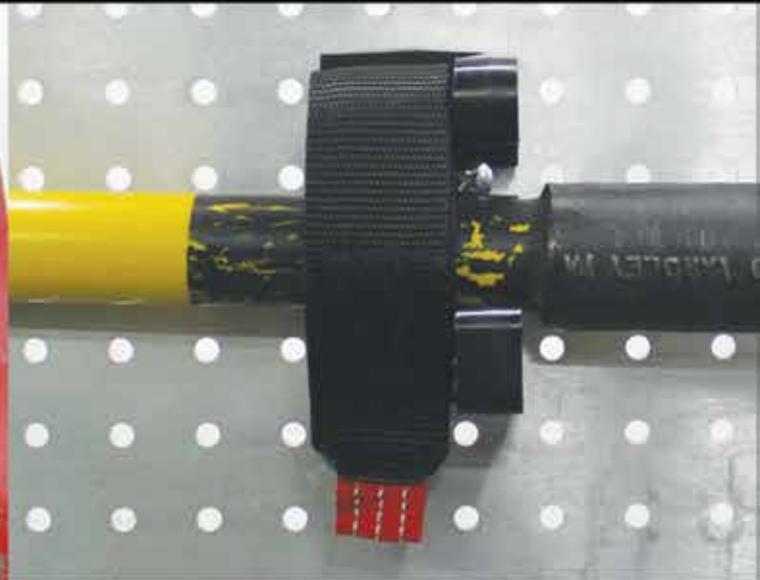
**EFFICIENT**—strap extends only slightly past the base, resulting in a smaller overall footprint and allowing you to fit more equipment in the same space.

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## Johnson Controls introduces TYCO Nitrogen Corrosion Solutions portfolio

Johnson Controls have recently announced that there is a brand new TYCO portfolio of corrosion solutions for fire sprinkler systems.

This family of products gives the fire protection industry a complete Johnson Controls portfolio that can significantly increase the lifespan of dry, preaction, and wet fire sprinkler systems.

The portfolio includes Model NG-1 nitrogen generators offered in wall-mounted, standalone and skid-mounted models. Using a patented fill-and-purge process, the NG-1 nitrogen generators remove corrosive oxygen and replace it with nitrogen to stop the corrosion process.

TYCO nitrogen generators are FM and CE approved and generate 98%-purity nitrogen, replacing nearly all oxygen in the pressure maintenance gas.

All equipment is installed in the sprinkler riser room, eliminating the need for remote equipment and extensive gas sampling lines, which simplifies installation and maintenance. The generators do not require a nitrogen tank or refrigerated dryer, making the reduced equipment footprint ideal for compact spaces.

"Corrosion in fire sprinkler systems can lead to reduced sprinkler performance and water leak damage that may reduce service life," said Gary Koellhoffer, global product manager, Johnson Controls. "We are excited to announce this product offering that reduces corrosion risk and increases service life for a water-based fire sprinkler system."

The portfolio also features a line of accessories, vents and nitrogen inerting devices designed to help fight or stop corrosion. This portfolio includes the TYCO In-Line Corrosion Detector (TILD), which monitors sprinkler systems and provides an early warning of corrosion.

The TILD can be monitored locally using the included Remote Test Station or remotely via the building monitoring system.



## Apollo reintroduces interface module due to popular demand

Following popular demand, Apollo Fire Detectors will be recommencing supply of their XP95 Three Channel Input/Output Module.

The XP95 Three Channel Input/Output Module (55000-588APO) was removed from the product portfolio in 2018 after the introduction of the Intelligent Interface range. After receiving feedback from customers, Apollo have taken the decision to reintroduce the product to their sales portfolio with immediate effect.

The product offers the benefit of using a single address for three individually-monitored inputs and three outputs, as well as cost savings compared to using a combination of single or twin Input/Output Modules, making it the perfect solution for the following applications:

- Lift bank control
- Fire door control
- Shop unit monitoring
- Smoke damper control

This product is an ideal solution to high complexity buildings that demand comprehensive systems to operate such as shopping centres and hospitals. Hospitals make use of multiple control systems such as, Access Controlled



Doors and Air Handling Units.

It is crucial that these systems integrate with the fire system and that they work cooperatively. The Three Channel I/O Module not only facilitates this integration but also offers additional space on the panel, maximising the amount of outputs available in a given area.

Apollo customers share their views on the product:

### Guy Briscoe, Director at Knox Fire

"The reintroduction of the 3 channel I/O is welcomed by Knox Fire. This product not only has the advantage of offering more channels on a single device compared to many of the competitor products but also critically the legacy systems can continue to be supported.

"The reintroduction of the 3 channel I/O will allow us to carry out repairs and 10-year product life cycle changes without the disruption of reprogramming the system for different devices."

## TFT release brand new High Rise Kits for the industry

TFT has introduced all new High Rise Kits that help eliminate cumbersome hose line setups and allow for easy visibility of the supply pressure at the standpipe.

The kits includes a heavy duty duffel bag, 2.5" angled waterway with in-line pressure gauge (valved and no valve options can be specified), two spanner wrenches, 2.5" x 1.5" reducer for use with a 1.5" coupled hose off of the TFT high rise solution, and 1.5" x 2.5" increaser for break and extend hose operations off of a ball valve shutoff.

TFT's standpipe valve solution is configurable at the time of order. The valve can be customized for a valve handle on the left or right or even spec no internal valve and utilise it as a standpipe elbow with pressure gauge.

Unlike competitors' solutions, it's a one-piece solution that you don't have to piecemeal together from three or four pieces. Simply connect the one-piece TFT high rise valve and it is ready to go.

For users that spec the valve version, TFT's unique half ball design is included,

which allows for easy valve movement under pressure to fine tune the desired supply pressure. The valve will not slam shut under pressure. The half ball allows for a true, 2.5 inch unobstructed waterway.

The one-piece angled waterway swivels 360 degrees and directs the hose away from the standpipe and the wall.

This allows for a simple, universal connection that works for almost any situation and reduces the chance of hose kinks.

The angled waterway also has a protected, encased, large display pressure gauge to easily read the pressure off the standpipe. An air bleeder is also integrated to bleed the air from the water supply.



## Cottenham firefighter rallies community to support hospice

A Cottenham based firefighter has rallied his local community to donate face masks to a hospice charity.

Crew Commander Roger Pake raised more than £2,000 to cover the cost of 700 N95 masks for staff at Arthur Rank Hospice in Cambridge.

Roger said: "I saw the plea from the charity on Facebook and felt I could help. I know people that have family members looked after by the hospice, plus my wife works there so I am fully aware of the great work they do. This is why I was very keen to do something to help."

Roger divides his time between running his own business as an electrician and being available to respond to emergencies as an on-call firefighter from Cottenham Fire Station.

He added: "I knew I could use contacts from my business to source masks for the staff at the hospice, so decided to see if my Facebook friends wanted to get involved and donate some money to fund them. I have been truly overwhelmed by the response and the generosity of people. I had no idea that I'd receive this much support."



Roger delivered the masks to grateful staff at the hospice last week.

Hospice Matron Carly Love added: "We are so grateful to Roger and all those who contributed to the collection and the purchase of 700 masks. This is vital equipment that the hospice currently needs to enable the excellent care that they deliver in the community to continue, and ensure that the patients that still need the help of the hospice continue to receive this vital service. We were truly touched by this generous donation, it really will make a difference."

## HAAS Alert Responder-to-Responder Alerts: V2V comes to key response

Recently, the nation's first vehicle-to-vehicle (V2V) communication network for first responders went live, powered by HAAS Alert's Safety Cloud - the only technology-agnostic vehicle communication service.

Haas have been delivering Responder-to-Vehicle (R2V) alerts to civilian motorists through our connected vehicle technology since our launch in 2015, but today, we've enhanced our service so that thousands of First Responder vehicles can alert other responding vehicles of one another in real time as they approach intersections.

Pierce Manufacturing announced the launch of a Responder-to-Responder (R2R) collision prevention solution powered by Safety Cloud.

This technology allows emergency vehicles to communicate directly with each other when they are en-route to an emergency for safer, faster response.

They join an ecosystem of emergency manufacturers relying on HAAS Alert for responder safety and protection including REV Group Inc., E-ONE, Ferrara Fire Apparatus, KME, and Rosenbauer America.

This is the first vehicle-to-vehicle safety



technology that is deployable globally without the need for roadside or municipal infrastructure for all responder vehicles regardless of brand, manufacturer, or type.

Police, Fire, and EMS departments are all enabled to communicate by sending a safety message that first responders are approaching or intersecting other Police/Fire/EMS vehicles.

Creating safety alerts isn't just about creating the alert, but how those responding are alerted - it's all about the alert mechanism ensures first responders, in their rush to a scene, are able to receive an alert with enough warning time.

Safety Cloud's Responder-to-Vehicle service leverages similar technology to warn motorists about nearby emergency response vehicles, tow trucks, DOT work trucks and other fleet vehicles with warning lights that impact roadway safety and mobility.

## News in Brief

### AMKUS Rescue Systems releases new tool lineup

Recently, AMKUS Rescue Systems introduced a line of high performance, battery powered and twin-lined rescue tools.

The cutters, spreaders and combi-tools are constructed from solid aluminium and are ready for service in the severe duty challenging first responders.

The new battery powered ION tool's onboard pump system delivers amazingly fast performance under both loaded and unloaded conditions.

The tools are compact to access tight spaces and require less room on apparatus. In addition, they utilise the DEWALT FLEXVOLT platform, so the affordable batteries can be shared with other fire rescue tools like saws, lights and drills.

A full line of FLEXVOLT fire rescue kits can be found at [AMKUS.com](http://AMKUS.com) or [ShopAmkus.com](http://ShopAmkus.com).

### Zico allow flexible control with new 1" QUIC-STRAPS

Zico continues to build on their popular, industry-leading utility mounting system with the addition of QUIC-STRAP 1" Variable Straps.

With five different lengths to choose from, this new, thinner line is an excellent choice for securing smaller equipment, shelf slots and compartment cubby-holes.

Constructed of the same heavy-duty materials as their wider 2" cousins, these hook and loop straps provide extraordinary holding power for their size.

Pliable nylon gets more of each strap against even the most oddly-shaped tools and equipment, increasing the active surface area for better, more secure retention at an extremely cost-effective price.

All-weather and UV-resistant, QUIC-STRAPS are able to withstand the harshest of conditions for years of dependable service both indoors and out. Available now. Each strap includes two 1" zinc Footman's Loops for easy installation.

## Nittan fire detectors help protect NHS Nightingale Hospital, Bristol

Nittan Europe is proud to have its Evolution analogue addressable fire detectors installed into the NHS Nightingale Hospital Bristol.

Built in less than three weeks at the University of West of England Frenchay campus, NHS Nightingale Hospital Bristol has the capacity to provide up to 300 intensive care beds for coronavirus patients, if local services need them.

The new facility is one of seven Nightingale hospitals to be set up around the country as part of a massive NHS effort to respond to the COVID-19 health emergency.

The Nittan fire detectors have been incorporated into Ramtech Electronics' WES wireless fire alarm system, which is designed to provide a simple, fast and secure method of communicating fire and medical emergencies in the complex environmental conditions of construction sites.

Whilst WES has been designed to provide temporary protection on construction sites, its ease of use, reliability and quality made it ideal for use in the temporary Nightingale Hospital.

Wireless fire alarm systems are ideal for temporary sites as they don't require specialist trades to set up, and any number of call points can be deployed in minutes and linked wirelessly to cover large or small sites. The signal passes through all commonly found materials including steel, concrete and stone.

Nittan Evolution EVC-DP dual optical detectors are incorporated into the WES system. These award-winning detectors feature dual optical technology to reduce false alarms caused by non-combustion products such as steam, dust and aerosols.

Unlike other conventional detectors on the market that claim to distinguish between smoke and non-combustion products, the EVC-DP effectively measures the actual particle size in the chamber via its combined IR and blue LED technology.

## Venari launches equipment department with major partnership confirmation

Venari Group has confirmed a major exclusive partnership agreement for the firefighting sector, with one of the globe's leading helmet manufacturers, SCHUBERTH.

SCHUBERTH is a famous, 90-year old, manufacturer of safety helmets for motorcyclists and motorsport, including Formula One. For decades, it has also been one of the most popular helmets among German motorcyclists. And having produced EN 443-certified firefighting helmets for over 50 years, the company has selected recently launched Venari Group as its UK and Ireland distributor.

Simultaneously, Venari announced on May 15 the activation of a new firefighting equipment sales, service, and customer support division, to drive product quality and aftercare into the challenging firefighting sector.

Venari Group CEO, Oliver North, said: "Pre-Venari, the team and I have supplied firefighting equipment to fire brigades since 2008, including over 80% of the current UK firefighter helmets. So, the partnership with

SCHUBERTH was a very natural one.

"The activation of our firefighting equipment department further solidifies our intention of being a high performing supplier to the UK fire and rescue market whilst continuing to build our emergency vehicle range to the highest quality possible."

SCHUBERTH is a company committed to researching and developing materials to withstand the toughest of environments.

Oliver continued: "Our partnership will concentrate on SCHUBERTH's truly incredible F300 helmet. The UK fire and rescue service are equipped to a very high standard in terms of structural firefighting PPE, but with more frequent wildland firefighting, RTC's and water rescues, the F300 provides the ultimate flexibility as a rescue and wildland helmet."

Thomas Heinlein, head of BU Industrial Safety and Firefighting at SCHUBERTH added: "For us, Venari is the most exciting company in the British emergency services supplier market, so we are naturally delighted to have agreed on this truly exciting partnership with them."

## Ring announces local Fire Departments have joined Neighbors App

Neighbors, a free app by Ring designed to help community members connect and stay informed about local public safety incidents, recently announced that local fire departments are joining the app to share safety tips with the communities they serve and enable residents to more easily interact with their departments.

Fire departments across six states are now using Neighbors, including the Charlotte Fire Department (NC), Brownsville Fire Department (TX), Rogers Fire Department (AR), Franklin Township Fire District No. 1 (NJ), Indianapolis Fire Department (IN) and Aiken Department of Public Safety (SC).

In an effort to make neighborhoods safer, local fire departments can now share real-time, hyper-local safety updates with Neighbors users, including:

- Emergency preparedness tips such as what to do in the event of a wildfire or hurricane.
- Updates on critical incidents impacting the community.
- Safety tips like how to prevent residential fires.
- Community events such as blood drives



and sandbag pickup locations.

### Missing person announcements.

Fire Chief Gary Ludwig, IAFC President and Chairman of the Board spoke about Neighbors and how it can help keep communities safe: "The IAFC is committed to advancing the fire service through the use of technology to support our mission of protecting our communities. During this time of unique challenges, the IAFC is proud to partner with Ring. The Neighbors App offers local fire departments another important tool to connect with the communities they serve."

We've seen the impact Neighbors can have when communities share what's happening around them in real-time. In 2018, the Woolsey Fire devastated more than 90,000 acres across Los Angeles and Ventura counties in California. Many residents turned to Neighbors to keep each other informed with real-time updates and to support one another.

## The Security and Fire Excellence Awards finds new date

The Security & Fire Excellence Awards 2020 will take place on Wednesday 25th November 2020 at London Hilton on Park Lane.

For 2020, the show is again very closely aligned with IFSEC International and FIREX International exhibitions, which have the new dateline of 8-10 September 2020, again at ExCeL London.

The awards are asking that you ensure you register and don't miss the opportunity to attend. The entry deadline is July 13 at 2300hrs

Now in their 21st year, Security & Fire Excellence Awards has consistently broken new ground in highlighting the very best people, projects and processes that the security and fire sectors have to offer.

2020 will be no different, although you'll find that they have made a number of category tweaks this year to enhance the offering and

to make the event even more company, people, team and project focussed.

Their high calibre Judging Panel – including representatives from all areas of security and fire, the world of academia and the policing sector will once again determine this year's Finalists and Winners!

To be among their winners in 2020, then you need to check out the categories and entry criteria that is now online.

Every year, around 1,000 of your industry's foremost practitioners gather at London's prestigious Hilton Hotel on Park Lane to recognise and honour the magnificent achievements of their peers, at the sell-out event.

The awards very much hope that

## SECURITY & FIRE EXCELLENCE AWARDS

Supported by IFSEC & FIREX

WEDNESDAY 25 NOVEMBER 2020 LONDON HILTON ON PARK LANE

the current situation will improve and that they will be able to offer you a safe and relaxed environment to network and to socialise once again.

Last year, our host for the evening was the wonderful Tess Daly, whose professional and slick handling of the presentations helped to make the evening such a great success. Previous hosts have included Jimmy Nesbitt, Gabby Logan, Jimmy Carr and the late great Ronnie Corbett.

HFS **Hytrans Fire System**  
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Since 1988, Hytrans® Systems has developed and manufactured mobile water transport systems, which offer high-flow capacities and high-operating pressures. These high quality, high-performance modular units are enabling firefighters and emergency authorities all over the US, Canada and the world a more effective way to extinguish large fires, efficiently remove and control nuisance and hazardous wastewater and alleviate flooding.

Hytrans System's modular pumps offer capacities up to 45,000 lpm @ 12 bar (12,000 GPM @ 175 psi). The units feature portable hydraulically-driven submersible-floating pump(s), allowing quick access to any open water source. These innovative pumps can lift water (vertically) from as deep as 60m (200ft), without any draft and suction draft losses. Hytrans' unique system has been designed for emergency water supply, and deployed rapidly and easily, even during extreme conditions, with a minimum of manpower.



**Hytrans Systems**

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## Crowthorne Community Fire Station build complete

The rebuilding of Crowthorne Community Fire Station is now complete and firefighters will be serving the local community from the new station.

The facility becomes Royal Berkshire's second tri-service community fire station and will offer a shared location for Royal Berkshire Fire and Rescue Service (RBFRRS), Thames Valley Police (TVP) and South Central Ambulance Service (SCAS).

Councillor Colin Dudley, Chairman of Royal Berkshire Fire Authority, said: "I am delighted to bring this piece of good news at a very difficult time for our communities. I would like to share my sincere thanks to Wellington College for providing a temporary location for the local firefighters to respond from while works were completed, which enabled them to continue their vital work."

Despite many challenges posed by the COVID-19 outbreak, the main contractor, Knights Brown Construction Ltd, together with their subcontractors and local providers, worked tirelessly within Government construction industry guidelines to safely complete the project.

Councillor Angus Ross, Lead Member for Strategic Assets on Royal Berkshire Fire Authority, said: "Our thanks go to all involved for working tirelessly, under very difficult circumstances to complete this essential operational base for the three blue light services – Fire, Police and Ambulance. The rebuild of Crowthorne Community Fire Station is part of Royal Berkshire Fire Authority's plans to modernise the fire and rescue service's buildings over the next 15 years, providing suitable, fit for purpose, community-based fire stations across the County of Berkshire."

The rebuild follows in the successful footsteps of Hungerford Community Fire Station which opened in July 2017.

Tony Jell, Watch Manager at Crowthorne Fire Station, said: "We are pleased to have moved into the new station."

## The Fire Fighters Charity launch challenge to offset fundraising decline

We may all be locked down, but this spring and summer The Fire Fighters Charity is asking its supporters to embrace self-isolation and social distancing, by taking on the Fire Family Challenge.

Whether by themselves or with those closest to them – family, friends, watch mates, home working colleagues or socially distanced loved ones – the Charity wants its supporters to test their physical, mental or creative strength and raise vital funds to support the UK's fire services family over the coming months.

The Fire Family Challenge offers supporters and traditional event fundraisers an opportunity to set aside the disappointment of cancelled or postponed events, to test the lockdown limits of their personal space and come together as a fire family to support the thousands of fire service key workers on the coronavirus front line today.

The coronavirus pandemic has brought the Charity's traditional fundraising to a halt, with the cancellation or postponement of countless events and challenges across the UK and overseas. Furthermore, The Fire Fighters Charity does not meet the criteria

outlined by Government in regards to grant support.

With its donors and supporters usually raising around £10m a year to fund its health and wellbeing services, the Charity has estimated that it may only raise around 50% of its usual fundraising income during this lockdown period. The impact of this could curtail the Charity's ambitions and plans for the future, unless an alternate way to raise that income is found.

The Fire Family Challenge seeks to address this fundraising shortfall by encouraging supporters to take on a personal challenge or come together as a team to take on something special. The Charity has provided a host of ideas to support challengers; from garden Olympics to non-stop knitting and sponsored silences.



## Thermal cameras turn Unique heat on coronavirus

A protection services company in Dorset, UK has diversified into high-tech fever screening due to the Covid-19 pandemic.

Orders for the detection technology are being placed with Unique Fire and Security, for use in public spaces and workplaces.

Established 10 years ago, the family-run firm installs and integrates the thermal imaging cameras with existing CCTV systems.

Bradley Williams, Unique's Poole-based Managing Director, said: "There is strong commercial demand for fever screening technology as a result of the coronavirus outbreak.

"One of the most notable symptoms of the virus is a high temperature; 87.9% of people with coronavirus will experience this symptom. People entering buildings and busy areas want as much reassurance as possible that contact-free technology is detecting potential carriers of Covid-19.

"The technology has already protected the medically vulnerable – a locum GP at a surgery in Wales, due to see dozens of patients, tested positive for coronavirus



because a high temperature was spotted by camera in time. He was able to self-isolate in the nick of time."

When cameras detect a head temperature above bodily average, the person would be intercepted and isolated for public health reasons.

Bradley added: "At the start of this year, we had no idea we'd be installing fever screening solutions during a pandemic which has tragically claimed tens of thousands of lives in the UK since March.

"Employers are now under all sorts of moral and legal pressures to keep their staff and customers safe in buildings, including through social distancing, hand sanitiser stations, regular deep cleans and staggered work patterns.

## SkyeBrowse and W.S. Darley announce partnership

SkyeBrowse and W.S. Darley recently announced their partnership through which W.S. Darley will provide SkyeBrowse 3D modelling software in addition to its UAV offerings to first responders and public safety agencies.

Commenting on the partnership, Peter Darley, COO of W.S. Darley said, "As more and more agencies are developing UAV programs, there continues to be a growing need for mapping solutions. Partnering with SkyeBrowse will allow agencies to rapidly create 3D models utilizing their existing equipment with minimal training. Our team was blown away by the ease of use, low cost, and unmatched support of the SkyeBrowse product line. All of which are crucial for the public safety market."

Bobby Ouyang, CEO of SkyeBrowse commented, "W.S. Darley brings over 100 years of experience and a deep foothold in the public safety industry. We are glad to be partnering with a company that is dedicated to excellence and offers a diverse line of quality products and services through its



manufacturing and distribution. We look forward to working together with W.S. Darley and providing rapid 3D modelling services to public safety departments and first responders."

In the current unfortunate situation, first responders are at high risk from COVID-19 by being at the front lines. SkyeBrowse provides rapid 3D modeling software that allows first responders to make 3D models of scenes within just a few minutes without any prior drone or 3D modeling training. The announcement comes at a time when it is already a top priority for all first responders to spend as little time as possible on scene gathering information and evidence.

The SkyeBrowse app is available to download from the App Store, and licenses will be available for W.S. Darley customers starting immediately.

## New fireboat for Owasco Fire Department in New York State

Lake Assault Boats, part of Fraser Shipyards and a leading manufacturer of purpose-built, mission-specific fire and rescue boats, has delivered a 26-foot fire and rescue craft to the Owasco Fire Department in Auburn, New York. The boat was scheduled to be featured at the 2020 FDIC Expo.

"The Owasco Fire Department's protection area includes Owasco Lake, one of the iconic Finger Lakes in New York State and a very popular recreational body of water," said Chad DuMars, Lake Assault Boats Vice President of Operations. "We are proud to have the opportunity to engineer and manufacture a craft ideally suited for Owasco Fire Department's protection area."

The Owasco Fire Department's V-hull craft features a 9-foot, 6-inch beam and a carrying capacity of 3,500 lbs. It is powered by twin Yamaha four-stroke outboard engines (rated at 225 HP each). The boat is equipped with a walk-around pilothouse offering an interior clearance height of 76-inches. The ergonomic helm station and dash console includes a 12-inch Garmin touchscreen integrated with GPS, sonar with SideVu and DownVu, Chart Plotting,



and Forward Looking Infrared (FLIR).

Other features on the Owasco FD craft include a 1,250 GPM Darley fire pump powered by a dedicated 4.3 liter engine, stainless steel plumbing, a TFT monitor, three 2.5-inch discharges, and connections for a five-inch large diameter hose (LDH) to support ground-based firefighting operations. A proprietary sea chest design prevents cavitation and assures proper water flow.

Lake Assault Boats are born in a shipyard, designed for a mission, tested on Lake Superior, and custom engineered using technology and resources unmatched in the fireboat industry.

## News in Brief

### Sourcewell strike up a partnership with FireRescue GPO

Cooperative purchasing organisation Sourcewell has joined forces with the Western Fire Chiefs Association (WFCA), founder of FireRescue GPO.

This FireRescue GPO partnership with Sourcewell will provide an even greater opportunity to meet the cooperative procurement needs of the nation's fire service, as well as enhance FireRescue GPO's ability to serve the fire service. Revenue generated through FireRescue GPO is shared with fire chiefs' associations across the country including the International Association of Fire Chiefs (IAFC), its divisions, and state fire chiefs' associations.

"With this new partnership, we will significantly grow our fire service and public safety contracts to provide even more options to our public safety community," said Tom Perttula, Sourcewell manager of contract administration.

### IWMA release call for papers for IWMC

The International Water Mist Association (IWMA) have found – after having to discard the initial plans for October 2020 – a new date for THE worldwide water mist event and have announced that the 20th International Water Mist Conference (IWMC) will take place in Warsaw, Poland, on 21st and 22nd April 2021 at the Regent Warsaw Hotel. As such, the call for papers was released.

The deadline to hand in abstracts is 30th October 2020. The speakers will be notified by 23rd December 2020 about acceptance. The final versions of the presentations will be due on 7th April 2021.

Another important deadline is 30th December 2020. Until that day, young researchers who have dedicated their master thesis to water mist can submit a summary to the IWMA Scientific Council.

Also: From 15th July 2020 onwards, sponsors can book tabletops for the exhibition which will run alongside the conference.

## Packexe Ltd – 2020 recipients of a Queen's Award for Innovation

**A**warded a Royal Warrant in 2016 for supplying Packexe protection film to the royal household, Packexe Ltd are this year adding a Queens Award for Enterprise to their name.

Recognised in the category of innovation for their time-critical glass management tool, Packexe SMASH, the company have been supplying emergency teams across the globe with their innovative extrication tool for the last decade.

Founded in 1989 the company have over 30 years' experience creating protection films and as a result, continue to grow as a recognisable brand throughout a variety of industries.

Supplying their range of fully recyclable protection films to the trades, Packexe SMASH and Sharpwrap to the emergency services and infection prevention systems to healthcare, the company are forward-thinking market leaders with innovation at their core.

Identifying the limitations and dangers experienced during vehicle extrication following a road traffic accident, Packexe CEO Andrew Orchard developed SMASH to provide teams with an effective solution.

"Managing vehicle glass without a designed tool increased risk to an already challenging task" explains Andrew "with the addition of SMASH, time is saved and the risk of injury to all involved is reduced."

The product is comprised of a perforated film designed with a specially formulated adhesive that strengthens glass by up to 42% and a lightweight patented dispenser. Applying SMASH makes glass less likely to break and prevents shattered fragments causing further injury if the glass does break. The dispenser makes the tool easily operable by one team member and the efficiency at which the film can be applied saves valuable minutes in life saving scenarios, making SMASH an essential part of kit for fire teams in over 50 countries.

## New Evac+Chair International site at Blythe Valley Park

**U**K manufacturer, Evac+Chair International is investing to futureproof the business as it relocates to Blythe Valley Park (BVP) in Solihull, Birmingham, near junction 4, M42.

The move began on May 25 2020 and now Evac+Chair International have begun manufacturing and distributing its products worldwide from the new, 38,223 sq. ft site. The increased space will allow the manufacturer to continue to grow and develop its world-leading products.

Evac+Chair International is the parent company of both Evac+Chair – manufacturer of emergency evacuation solutions – and Paraid – manufacturer of medical patient transportation solutions.

Gerard Wallace, managing director, Evac+Chair International said:

"We've been based at our old site for over 35 years, so we are all extremely excited to be making the move to our new, much larger premises later this month.

"The current situation is undoubtedly challenging for every business, however by working closely with the NHS we have been able to continually support the healthcare sector, allowing the Paraid brand to flourish



and our new premises will enable us to expand this further.

"At Evac+Chair International, our core goal is to ensure safety, whether that be for building occupants in the event of an emergency or hospital patients during transportation. As we move to the new site, the safety of our team is our main priority. The increased space will enable us to ensure social distancing procedures are rigorously maintained at all times.

"The site will also bring a new and improved working environment for the whole team, including the 'Evac+Café', a new showroom for our product ranges, extensive meeting facilities and the potential to develop an on-site training academy in the future."

Located alongside a number of established technology businesses, Blythe Valley Park is the perfect location for Evac+Chair International to streamline the efficiencies of its manufacturing operations and continue its innovation into R&D and product development.

## New Rosenbauer face mask for firefighters and the public

**R**osenbauer has developed a face mask with which people who often come into close contact with others, even in times of the Coronavirus, can better protect themselves: employees in supermarkets, delivery personnel, as well as emergency services personnel, healthcare workers, etc.

Tried-and-tested components of the HEROS-titan firefighting helmet are used for the new face mask, the helmet harness system, in particular, has been adapted to current needs. It can be quickly adjusted in multiple directions without the need for tools, and precisely adapted to the individual's head shape. As a result, the Rosenbauer face mask can be optimally positioned in every direction, and will not slip. As with the original helmet, the head harness is adjusted using a rotary knob, and this adjustment can also be easily carried out while wearing gloves.

The large visor covers the entire face from the forehead to the chin and is shaped so that glasses wearers can use Rosenbauer's face mask without any difficulties. The complete unit can be easily cleaned and disinfected; the visor

is clipped on to the head harness and can be removed at any time.

Another advantage is the excellent ventilation afforded by the head harness, which enables long, fatigue-free periods of wear. In order to prevent the inside of the visor from fogging up, it is recommended that you apply a commercially available anti-fogging agent before use.

The adaptation of existing Rosenbauer helmet components has been facilitated by special supplier parts from Burg Design and Schöfer, both companies of the Kurz Group.

The Rosenbauer face mask is available now and can be ordered at a price of 20 EUR (plus VAT) under the order number: 15735008.



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# A slim, bright and extremely versatile product

Streamlight have released a brand new product in the shape of the Survivor, which they are describing as “the most trusted ATEX rated right angle firefighter light”

**S**treamlight offers a range of high-quality products built with precision and performance especially for law enforcement, fire & rescue and the military.

Trusted all over the world by multiple industries, Streamlight is defined by their innovation, delivering effective, efficient, high performance lighting solutions. These feature the latest technology, unmatched performance, incredible value and durability that you can depend on.

Based in Eagleville, PA, USA, Streamlight Inc. has more than 45 years of experience making tough, durable, long-lasting torches designed to serve the specialised needs of professionals and consumers alike.

Since 1973, the company has designed, manufactured and marketed high-performance flashlights, and today offers a broad array of lights, lanterns, weapon light/laser sighting devices, and scene lighting tools for professional law enforcement, military, firefighting, industrial, automotive, and outdoor applications.

The leading Survivor right angle, clip-on flashlight is depended on by firefighters for its toughness, compact size and reliability. Featuring a slim profile and a dependable clip/hook for more accurate light orientation, the Survivor has two interchangeable Smoke Cutter plugs to help create the preferred beam pattern.

The two plug choices include an Amber Smoke Cutter and a Black Smoke Cutter, both of which reduce peripheral light when inserted into the light’s optic.

Use of the Amber Smoke Cutter Plug also reduces the potential for glare in smoke conditions, while giving off a more yellow light that is easier on the eyes. The Black Smoke Cutter Plug provides a more concentrated beam appearance.

Possessing the latest in high lumen LED technology for extreme brightness, the Survivor® has 4 lighting modes that include high and low intensity, emergency flash, and a moonlight mode for low-level lighting that runs for 15 days. On high, the light delivers 175 lumens and 41,000 candela.

The light’s custom optic produces a narrow beam, ideal for cutting through smoke, fog and mist, whilst also providing optimum peripheral illumination to aid in navigation.

The light’s reinforced, built-in attachment D-ring and updated spring-loaded clip offer superior retention, conveniently latching to belts and harnesses.

Its super-tough nylon housing provides exceptional durability and the Survivor® is designed for easy operation even with heavy gloves.

All openings are O-ring sealed to resist moisture, including the light’s unbreakable, scratch-resistant



polycarbonate lens with silicone anti-scratch coating, assembled in a heavy-duty bezel. The light has an IPX4 rated design for water resistance and is impact resistance-tested to 2 metres.

The Survivor® operates on a rechargeable lithium ion battery| can be recharged up to 1,500 times. The light also permits firefighters to insert a spare pack of four “AA” alkaline or four “AA” lithium batteries to reduce the likelihood of being caught in the dark with a spent battery.

Operating run times for the rechargeable battery range from 3.5 hours on High to 10 hours on Low, with 5 hours on the flash setting and 15 continuous days in moonlight mode.

|                 |   |
|-----------------|---|
| <b>Lumens:</b>  | High: 175 Lumens                                  |
| <b>Battery:</b> | AA Alkaline, AA Lithium, Lithium Ion Cell Pack    |
| <b>Size:</b>    | 7.06" (17.93cm) x 2.85" (7.24cm) x 2.87" (7.29cm) |
| <b>Weight</b>   | Alkaline: 13.70oz (388g)                          |
| <b>Colour:</b>  | Orange  |

# Rapid and easy to control – the new Pentheon Series from Holmatro

Holmatro have unveiled the new Pentheon Series of cordless rescue tools, which represents their fastest and easiest to control products to date, be it battery powered or otherwise

**U**nparalleled speed, ultimate control and battery management made easy: Holmatro have launched a new series of high-tech cordless rescue tools, designed to outperform all other tools on the market, regardless of whether these are battery-powered or connected to an external pump by means of a hose.

## Unparalleled Speed

The Pentheon Series offers a much higher speed than other rescue equipment. This is thanks to a new and patented mechatronic system inside these tools.

This system continuously optimises the motor and pump settings to deliver a maximised oil flow over the full pressure range.

Where all other rescue tools show a significant decrease in speed when switching to another stage to deal with higher loads, Holmatro Pentheon tools stick to the ideal stepless speed curve.

“Being much faster than previous generations of rescue tools, Pentheon tools are equipped with a two-mode control handle for ultimate speed control”

## Ultimate Control

Being much faster than previous generations of rescue tools, Pentheon tools are equipped with a two-mode control handle for ultimate speed control.

This enables rescuers, at any time during the rescue operation, to choose between the tools' high-speed and low-speed modes. Within these modes, the speed is still proportional to how far you turn the control handle to its left or right.

## Battery Management Made Easy

With Holmatro Pentheon tools battery management is as easy as just plugging it in. Thanks to On-Tool Charging you can charge the battery while it remains on the tool.

This means you don't need to swap batteries all the time. Simply connect the tool to the charger and the whole charging process will regulate itself.

The battery on the tool always has priority over the one on the charger, which will resume charging when the battery on the tool is 100% full.

Three chargers can be connected in series to be powered from a single outlet. This allows you to charge a total of six batteries without any management, whether placed on a charger or on a tool connected to it.

## Available Pentheon Tool Models

The Pentheon Series consists of the following rescue tool models: Inclined Cutter PCU50, Spreader PSP40, Telescopic Ram PTR50 and Combi Tool PCT50.

## New Extreme Grip Spreader Tips

The tips on the spreader have pointed teeth on both sides that bite into the material. The middle row of teeth is taller and offers instant grip.

The teeth on the outside alternately point in the opposite direction, which allows for a superior grip over the full spreading range. Finally, an interlocking profile results in reduced insertion dimensions.

## Smart Ram Extension

Another user-friendly feature of the Pentheon Series is the Smart Extension of the telescopic ram.

As soon as you connect the optional extension pipe, the ram will automatically adapt its force to the new maximum length of 1804 mm / 71 inches that can be achieved.

Thanks to this solution Holmatro can offer you one compact ram for all applications, including cross ramming over a large distance.

# Protecting firefighters without them even realising

The new B-VirusFree from BAUER KOMPRESSOREN has been designed to help eradicate any floating viruses at intake stage for firefighters and others who rely on respiratory equipment

**B**AUER KOMPRESSOREN have created a device that is highly effective breathing air protection against SARS-CoV-2 and other pathogens, which will come as tremendous news to firefighters who may unintentionally bring back things with them unwittingly.

The new patent-pending B-VirusFree virus filter offers highly effective protection against viruses, bacteria and moulds of all kinds for firefighters and disaster teams.

BAUER KOMPRESSOREN has developed B-VirusFree – a solution that eliminates viruses at the air intake stage.

The system is designed to protect firefighters, divers, pressure chamber operators and medical staff from these hazards whenever they require respiratory equipment for their daily operations.

The new B-VirusFree protective filter system reliably neutralises – depending on the charging rate of the compressor – up to 99.9% of the coronaviruses, bacteria and special moulds can be removed from the intake air.

For BAUER, protecting the health of breathing air consumers has always been paramount. The B-DETECTION PLUS online gas measurement system already provides accurate measurements of the commonest hazardous substances associated with breathing air, such as

CO, CO<sub>2</sub>, moisture and oil, and eliminates them using BAUER filter systems.

However, a new threat now lurks in the form of viruses like SARS-CoV-2, as well as bacteria and moulds. These new dangers are particularly insidious because they are invisible and highly communicable – and cannot be measured by sensors.

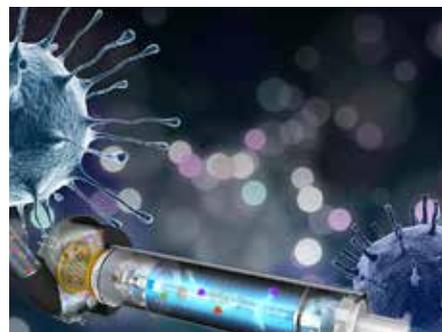
They can spread at lightning speed by contact or droplet infection. Inhaled in ambient air, they can pass through any commercially available standard air purification system.

Even the high temperatures and pressure levels of the compression process have little effect on them because of their short exposure to the process.

Brilliantly simple and wholly effective, the chemical- and ozone-free technology of the patent-pending B-VirusFree System uses a special UV light source to destroy pathogens in the intake airflow before they can reach the compressor.

The highly effective 254-nm UV wavelength is absorbed by the pathogens' DNA, where the photons destroy the bonds between the DNA strands of the viruses, bacteria and mould spores and effectively prevent them from reproducing.

B-VirusFree can be ordered alongside any new BAUER system and is also easy



to retrofit. The filter system is designed for flexible mounting to a wall and has a compact footprint for extra ease of handling and convenience.

Long maintenance intervals keep operating costs down. The filter does not require replaceable filter cartridges. The UVC light source has an extremely long service life of approx. 2,000 hours and is simple to replace.

The control unit reliably displays the filter functions and includes visual and acoustic warning signals for the event of a malfunction, e.g. in a power cut.

A standard 220/230V power outlet is all that is needed for operation. A version for regions with 110V power supply is also available.

BAUER KOMPRESSOREN offers state-of-the-art complete solutions for the field of sports & safety tailor-made to meet the needs of your application range. From compression to treatment and beyond to the distribution of air, breathing air and nitrox.

# A fully rugged tablet with industry leading processing power

The new A140 G2 tablet from Getac allows firefighters a 14" fully rugged electronic product that now has the best processing power in the entire fire industry

**G**etac has today announced the launch of its A140 G2 fully rugged tablet. The new device builds on the proven track record of Getac's popular A140 G1, offering professionals across a wide range of industries a powerful yet versatile tablet that excels in demanding work environments.

The A140 G2 delivers extraordinary processing power and responsiveness with no performance drop-off, even when running large numbers of applications simultaneously.

Integrated UHD graphics and an expansive 14" Lumibond 2.0 display – the largest in Getac's tablet range – allows users to see all of their information in rich detail on a single screen, without the need for unnecessary scrolling.

The A140 G2 is also MIL-STD 810H and IP65-certified, meaning it can withstand drops from up to 1.2 metres, as well as shocks, spills, vibration, dust, liquid and more.

An operating temperature range of -20°F to 145°F (-29°C to 63°C) ensures full functionality when it's needed most.

## Rugged technology that can be relied on in emergencies

The A140 G2's combination of rugged design, inbuilt 4G LTE/Wi-Fi/Bluetooth connectivity and industry-leading processing power makes it well suited

to use as a Mobile Data Terminal (MDT) for emergency services professionals.

For instance, firefighters can send or receive critical Site Specific Risk Information (SSRI), verify response plans and perform chemical data checking directly from the scene of an incident, boosting situational awareness and improving safety for the whole team.

The large touchscreen display can also be used in the rain and while wearing gloves, ensuring flawless operation in challenging emergency scenarios.

## Helping manufacturers achieve digital transformation

With many of the world's leading manufacturers already relying on Getac's A140 G1 to digitise their production processes, the A140 G2 is a natural choice for those looking to achieve smooth digital transformation of their own operations.

Its advanced processing power, deep functionality and rugged yet lightweight form factor means employees can easily perform complex tasks all over the facility with confidence, boosting individual productivity and overall operational efficiency.

"At Getac, we believe in creating products and solutions that work as hard as our customers do," says Chris Bye, President, Getac UK Ltd. "The A140 G2 incorporates the latest in computing

technology to create an extremely capable yet versatile tablet that's suited to various challenges and situations, no matter how big or small."

The A140 G2 comes with Getac's three-year bumper-to-bumper warranty, covering accidental damage as standard, providing workers with the confidence to operate with peace of mind.

It is also part of the Getac Select program, which combines pre-configured rugged devices, software, accessories, and professional services into a series of solutions optimised according to the needs of individual applications and user groups across various industries.

Each industry-specific solution draws on extensive customer feedback and Getac's in-depth experience to create particularly advantageous combinations of products and services that cannot be found anywhere else as a single offering.



# The Changing Face of Fire Service

As times change, so do the needs of firefighters on a daily basis. TenCate Protective Fabrics introduces new innovations to make sure their needs are met in 2020

**F**irefighters face a lot of challenges that do not involve fighting fires. Many instances that would force firefighters to wear full, heavy bunker gear can be avoided by ensuring that an alternative is available.

For car accidents, medical calls or even close-quarter extractions, firefighters need another solution.

NFPA 1951 certified technical rescue gear can lighten the load. In the modern fire service market, firefighters are beginning to understand that turn outs are not a one-size-fits-all solution.

By assuring that they have a broader range of choices, manufacturers can make the decision easier. TenCate Protective Fabrics offers a new, innovative tri-certified fabric for firefighters everywhere: Agility Tactical.

## Lightweight Protection and Comfort

Delivering adaptive protection, Agility Tactical offers relief from the weight firefighters must carry.

This lightweight fabric for Technical Rescue outer layers is designed to maximize protection and comfort and increase mobility — ideal for tight spaces and difficult extrications.

- **Modern Versatility.** Tri-certified, single-layer flexibility that's ready for the diverse conditions and

“When it comes to fighting fires in harsh environments, staying cool and dry can make the difference in firefighter safety”

environments firefighters face — from extrications to EMS calls to wildfires.

- **Protection and Durability.** Balanced thermal protection and abrasion resistance thanks to a unique fiber blend and integrated, patent-pending ENFORCE Technology.
- **Lightweight, Dynamic Feel.** Ultralight 5.0-ounce weight offers flexibility and comfort in a range of stressful environments and spaces.

The traditional three-layer composite that makes up a firefighter's turn out ensemble is well known to most first responders. The one layer of that ensemble that provides the most protection from thermal events is the thermal liner itself.

Usually consisting of two to three layers including a facecloth and batting material (either spun lace or needle-punch) the thermal liner is key to keeping firefighters safe.

Traditionally, thermal liners have been heavy and uncomfortable and firefighters need lighter weight options for better mobility and ease of wear.

By incorporating a slick facecloth, donning and doffing can be made easier and faster.

They have a job to do and anything that helps them do it better and faster is key to better performance. TenCate Protective Fabrics has addressed this need with the next level in thermal liners: Titanium.

## Delivering What Firefighters Want

Titanium offers what firefighters want in a thermal liner: fast donning and doffing, moisture management, and pilling-resistant longevity for increased thermal liner performance.

Titanium features COOLDERM Technology which delivers unmatched moisture management and will keep firefighters cooler on the job and help to reduce the risk of heat stress.

When it comes to fighting fires in harsh environments, staying cool and dry can make the difference in firefighter safety.

- **Dry, Cool and Comfortable.** Integrated wicking COOLDERM technology offers enhanced moisture management to



promote body temperature regulation and breathability.

- **Speed:** A redesigned face cloth for better-sustained, long-lasting slickness that slides on and off quickly and effortlessly.
- **Endurance.** Increased fabric durability stands up to repeated launderings, resists pilling, and stays slick longer.

A firefighter's outer shell is the first line of defense against a range of challenges and threats. It has to be strong, durable and highly flame-resistant. In the past, outer shells have been stiff and heavy, offering protection but little comfort.

In the modern fire service market, firefighters face serious risks such as heat stress and they need an outer shell that addresses not only strength and durability, but comfort and mobility as well.

Lighter weight fabrics that are highly engineered are the solution that firefighters need: better performance, better protection and comfort all in one package. TenCate Protective Fabrics delivers: PBI Peak5.

"A firefighter's outer shell is the first line of defense against a range of challenges and threats"

### The Apex of Performance

Engineered with the groundbreaking durability of patent-pending ENFORCE technology, this newly blended PBI / Kevlar outer shell offers firefighters dynamic mobility and durable protection that looks and feels as great as it performs.

- **Groundbreaking Durability.** ENFORCE Technology harnesses increased levels of fabric strength and abrasion resistance.
- **Uncompromised Protection.** PBI Peak 5 boasts the highest blend percentage of PBI on the market, giving unmatched thermal stability.
- **Lightweight Performance.** The thermal protection of PBI paired with the strength of Kevlar in an ultra-light 5.6-ounce package.

- **Feels Great Out of the Bag.**

A softer touch that's more comfortable yet unmatched in durability and range-of-motion.

As the leading global producer of protective fabrics, TenCate Protective Fabrics enables millions of people worldwide to be great at what they do. Generations of industry professionals — servicemen and women in fire, healthcare, military and police — rely on our fabrics for safety, comfort and confidence.

From the harshest working conditions, to the welcoming sight of home, we recognize the people we're protecting are unique individuals whose lives extend beyond work.

Supporting a world of evolving needs, our innovations lead the way in user-centered design, technology and sustainability.

At TenCate Protective Fabrics, we're proud to continue our 300-year-old manufacturing tradition as we design, develop and produce fabrics that bring out the best in professionals — in work, as well as in life.

# Covering first responders with additional PPE

Dinges Fire Company have been helping out local businesses in a huge way by teaming up with others and making sure fire departments and hospitals don't go without PPE

**D**inges Fire Company, a locally owned business in Amboy that sells fire, EMS and rescue equipment all across the Midwest, is "paying it forward" to local organisations and businesses during COVID-19 while also striving to source and deliver much needed PPE to healthcare systems across the Midwest.

Recently, Dinges Fire partnered with Raynor Garage Doors, Johnson Tractor and the Amboy, Sublette, Compton and West Brooklyn Fire Departments and loaded up 60+ hospital beds for KSB Hospital in Dixon Medical Surgical Floor.

The hospital is gearing up for an influx of patients in the coming weeks due to COVID-19.

As such, Dinges Fire announced it is teaming up with Kennay Farms Distilling in Rochelle and delivering hand bulk sanitisers to fire departments, hospitals, nursing homes, post offices, city government or businesses in general who are in need.

The Rochelle distillery announced recently it was temporarily changing its operations from making vodka and gin to mass producing a much-needed item, hand sanitiser.

The sanitiser is available in 5 gallon pails or 260 gallon totes. Dinges Fire is delivering sanitiser to organizations and businesses all throughout the

Midwest including Illinois, Wisconsin, Indiana, Iowa, Michigan and other states.

Additionally, Dinges Fire is doing all it can do to support local Dixon City Fire Department firefighter/paramedic Eric Bergemann who was recently diagnosed with Stage 3 cancer, amidst everything else that is currently happening in this world.

As such, Dinges Fire has coordinated a raffle to help Eric and his young family with funds as he fights his battle. Raffle tickets are a \$20 donation and individuals have the opportunity to win one of 20 items including fire and EMS equipment to a one week stay in Jamaica that includes a maid, cook and caretaker.

At the time of writing, Dinges Fire has raised more than \$5,000 from their charitable efforts and endeavours.



Lastly, Dinges Fire is making it a goal to keep 100% of its staff working, without any layoffs.

The company is abiding by the Stay Home ordinance and is all working from home. Due to COVID-19 and having 40+ team members as active firefighters and EMS professionals, the company is working hard to ensure that all local healthcare professionals have proper PPE.

Staff are sourcing and delivering much needed medical supplies and respiratory equipment all over the Midwest to ensure healthcare workers and patients are safe during this time.

"As a retired Rockford firefighter and current assistant fire chief of Sublette Fire Department, I know first hand how tough it is right now for all healthcare professionals," said Dinges Fire Company CEO Nick Dinges. "Our team members have all worked or been touched by the healthcare/fire/EMS industry one way or another.

"This industry is our passion and right now we're making it a goal to support as many local organisations and businesses as we can while also getting much needed equipment in the hands of our frontline heroes.

"We will get through these scary and stressful times, but we all must come together to help."

**READY  
RACK  
IS HERE TO  
SERVE FIRST  
RESPONDERS  
ACROSS  
THE GLOBE**



**WE  
THANK  
YOU**

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# 16 essential items to ensure fire safety at sea

Mohit Kaushik, a marine engineer for Maersk and also a contributor for Marine Insight, has put together an essential list all ships need to follow to ensure fire safety

Without doubt, one of the main causes of accidents onboard ships is fire. This is because of the presence of high temperature, excess quantity of flammable oil and other combustible materials.

A ship is approved to sail in international waters only if it is constructed as per Fire Safety System code and carries required Fire Fighting Appliances approved by the concerned authority.

A ship is fitted with various types of fire retardant and fire fighting equipments so as to fight any kind of fire and extinguish it as soon as possible before it turns into a major catastrophic situation.

In this article, we bring to you a list of important fire fighting equipments and measures present on board.

Following are the Fire fighting equipments which are used onboard ships:

## 1. Fire Retardant Bulkhead:

Different Class of bulkhead such Class-A, Class-B and Class-C are used on board ship for construction of bulkhead in areas like accommodation, machinery space, pump room etc. The main applications of such bulkhead are to contain or restrict the spread of fire in sensitive areas.

**2. Fire doors:** Fire doors are fitted in fire retardant bulkhead to provide access from the same. They are self closing type doors with no hold back arrangement.



“A ship is approved to sail in international waters only if it is constructed as per Fire Safety System code and carries required Fire Fighting Appliances approved by the concerned authority”

**3. Fire Dampers:** Dampers are provided in the ventilation system of cargo holds, engine room, accommodation etc. in order to block out excessive oxygen supply to the fire. For this, it is necessary that open and shut position clearly marked for fire dampers.

**4. Fire Pumps:** As per regulation, a ship must have main fire pump and an emergency power pump of approved type and capacity. The location of the emergency fire pump must be outside the space where main fire pump is located.

## 5. Fire Main Piping and Valves:

The Fire Main piping which is connected to the main and emergency fire pump must be of approved type and capacity. Isolation and relief valves must be provided in the line to avoid over pressure of the same.

**6. Fire Hose and Nozzles:** Fire hoses with length of at least 10 meters are used in ships. Number and diameter of the hoses are determined by the classification society. Nozzle of diameters 12 m, 16 m and 19 m used on ship are of dual purpose types- Jet and spray mode.

“As per regulation, a ship must have main fire pump and an emergency power pump of approved type and capacity”



**7. Fire Hydrants:** Fire hoses are connected to fire hydrants from which the water supply is controlled. They are made up of heat retardant material to get least affected from the sub zero temperatures and also to ensure that hoses can be easily coupled with them.

**8. Portable Fire Extinguishers:** Portable fire extinguishers of CO<sub>2</sub>, Foam and Dry Chemical Powder are provided in accommodation, deck and machinery spaces carried along with number of spares as given by the regulation.

**9. Fixed Fire extinguishing system:** CO<sub>2</sub>, Foam and water are used in this type of system, which is installed at different locations on the ship and is remotely controlled from outside the space to be protected.

**10. Inert Gas System:** The inert gas system is provided in the oil tankers of 20000 dwt and above and those which are fitted with Crude oil washing. The IG system is to protect Cargo space from any fire hazards.

**11. Fire Detectors and Alarms:** Fire detection and alarm systems are installed in Cargo area, accommodation, deck areas, and machinery spaces along with alarm system to notify any outbreak of fire or smoke at the earliest.

**12. Remote Shut and Stop System:** The remote station shutdown is provided to all fuel lines from fuel oil and diesel oil tanks in the machinery space and which is done by quick closing valves. Remote stop system is also

provided to stop the machineries like fuel pumps, purifier, ventilation fans, boiler etc. in the event of fire in the engine room or before discharging fixed fire fighting system in the E/R.

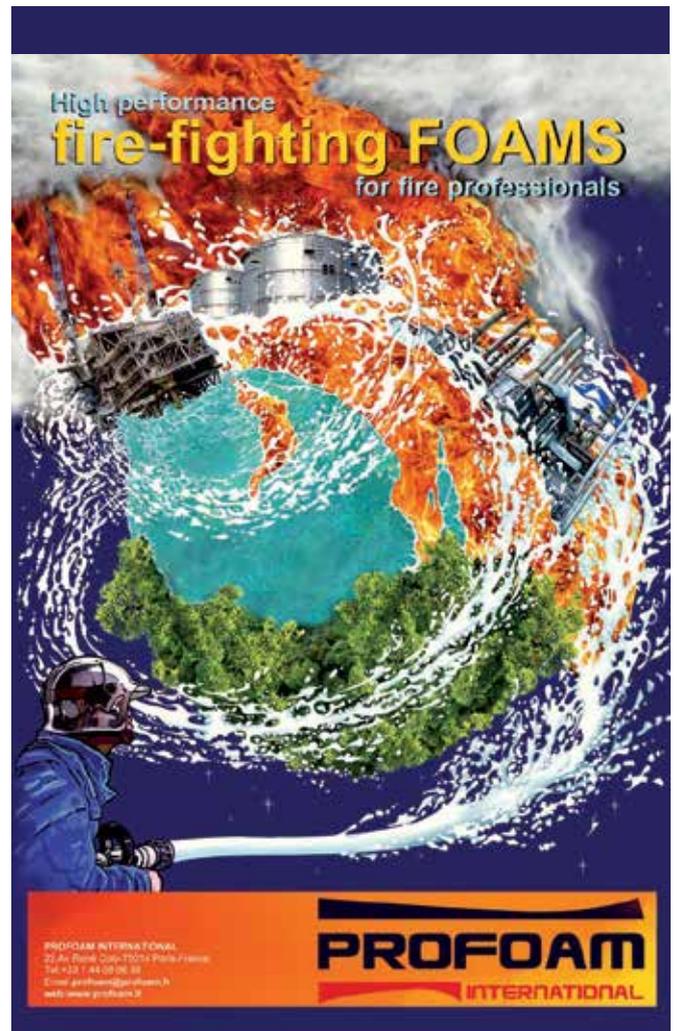
**13. EEBD:** EEBD (Emergency Escape Breathing Device) is used to escape from a room on fire or filled with smoke. The location and spares of the same must be as per the requirements given in FSS code.

**14. Fire Fighter's Outfit:** Fire fighter's outfit is used to fight a fire on the ship made up of fire retardant material of approved type. For a cargo ship at least 2 outfits and for passenger ship at least 4 outfits must be present onboard.

**15. International Shore Connection (ISC):** ISC is used to connect shore water to the ship system to fight fire when the ship fire pump system is not operational and is on port, lay off or dry dock. The size and dimensions are standard for all the ship and at least

one coupling with gasket must be present onboard.

**16. Means of Escape:** Escape routes and passages must be provided at different location of the ship along with ladders and supports leading to a safe location. The size and location are designed as per the regulation.



# The benefits of bi-directional fire testing

Austin Stone, Technical Director at Profab Access, explores the importance of specifying riser doors that have been bi-directionally fire tested for a number of key reasons

Following the release of Dame Judith Hackitt's Independent Review of Building Regulations and Fire Safety, the issues regarding fire doors and their consistency of fire-resistance performance was, and remains, a significant concern for the industry.

The report, along with subsequent amendments to Building Regulations Approved Document B (Fire Safety), prompted significant changes to the adequate testing of fire doors, particularly with regard to the way in which these building components are manufactured, tested, installed and maintained.

Focusing on the specification and fire safety of riser doors in particular, the sufficient fire testing of these products is paramount to ensuring the successful prevention of the spread of fire to other parts of the building via the riser shaft.

Whilst timber riser doors were traditionally popular among architects and specifiers, concealed steel riser doors offer superior fire performance, whilst also offering a range of enhanced aesthetics and security benefits.

Throughout the specification process, professionals should look to utilise steel riser doors that have been fire tested to BS EN 1634-1:2014+A1:2018 (as outlined in Approved Document B Volume 2) and BS476 part 22.



“If the industry is to drive a cultural shift in the specification of these types of passive fire safety products, architects should look to specify riser doors that have been bi-directionally tested, superseding current industry requirements”

The doors should also comply with BS 476-31.1 for smoke tests, BS8214 for the installation for fire doorsets and BS 9999:2017 for the Code of practice for fire safety in the design, management and use of buildings.

However, if the industry is to drive a cultural shift in the specification of these types of passive fire safety products, architects should look to specify riser doors that have been

bi-directionally tested, superseding current industry requirements.

As the riser door is physically tested in both directions, it offers the highest levels of fire safety as professionals can be confident the riser door will withstand exposure to fire and smoke from both directions for the allotted time period.

This adequately prevents the spread of fire throughout a multi-storey building as

the opportunity for the fire to enter the riser shaft through a riser door located in a corridor and exit through another riser door in a different area or floor of the building is entirely eliminated because both sides of the door have been successfully tested.

Professionals here should look to specify riser doors that have been fire tested by a certified third party, providing a clear audit trail of test evidence that confirms compliance with all relevant regulations by demonstrating the integrity of the riser door for the specified duration.

This includes the maintenance of the riser door's frame, limitation of the spread of fire and the transmission of radiant heat.

For many architects, the configuration of double or triple riser doors in a single unit is a popular choice due to the style of aesthetics they offer over individual riser doors that are spaced at specific intervals.

Professionals should here look to work with a manufacturer that offers bi-directional fire testing across a whole suite of configurations and complementary riser door products, successfully meeting the visual requirements of each individual project, without having to compromise on the fire safety of these elements.

Whilst bi-directional fire testing isn't a current industry requirement, this proficient approach to fire safety also futureproofs the building as the architect has gone above and beyond the current specification to meet the requirements and regulations of the future.

This step change in the specification of riser doors must be implemented from the very initial stages and, in order to be successful, professionals should choose riser doors that are supported by a wide range of BIM and CAD files, along with comprehensive fire test certifications.

This will aid the specification process and streamline the initial design stages, whilst also providing a clear audit trail of evidence and subsequent due diligence, supporting Dame Hackitt's 'Golden Thread' of true transparency and accountability.

The test certifications play a vital role in helping architects facilitate the 'golden thread' of information, which seeks to extend fire safety best practice beyond fire professionals into wider society, successfully communicating key information about a building and the components utilised throughout its construction.

As Dame Hackitt encourages the industry not to wait for legal changes to start the process of behavioural change with regard to fire safety within commercial and residential buildings, professionals within the public sector can continue to drive this shift change through the specification of bi-directionally fire tested riser doors.

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# A helping hand from technology amidst the pandemic

Maintaining services to bolster operational response will undoubtedly be a challenge for many amidst the pandemic, but the SFRS have had a huge helping hand from TechnologyOne

As the world's fourth largest fire and rescue service, the Scottish Fire & Rescue Service (SFRS) has faced maintaining a 24/7 emergency response during the current COVID-19 outbreak and Cloud based technology has played a significant role in ensuring they have maintained services to support their operational response.

Emergency Services around the world have been responding to the COVID-19 outbreak and have had to quickly and safely adapt to new remote working practices where possible.

Fortunately, the Scottish Fire & Rescue Service had launched a new digital first strategy in 2018 which was designed to place SFRS people at the heart of a digital community delivering a safer Scotland. The strategy focussed on themes including digitisation, security and resilience.

The Service has a long-term partnership with TechnologyOne initiated in 2013, and earlier this year, as part of the digital first plan migrated their core Finance solution to CiAnywhere, TechnologyOne's SaaS solution. John Thomson, Head of Finance & Procurement says.

"As part of SFRS's digital transformation strategy we continue to invest and exploit new technologies to improve our service and to future-proof our resilience by moving all systems to the Cloud. COVID-19 has proven this was the right decision.



"Our transition of our Finance systems to the Cloud with TechnologyOne was trouble free and enabled us to seamlessly move to remote working."

Stuart MacDonald, TechnologyOne's chief operating officer, says the ability to be accessed anywhere, any time and from any device, is an obvious benefit of a SaaS solution in a time of crisis such as with COVID-19 – but it is not the only one.

"With so many people experiencing disruption to their working and personal lives—unusual hours, unfamiliar working environments, a lack of face-to-face contact and also dealing with the needs of school aged children—teams productivity can suffer and human error increase.

"A SaaS-based system such as ours helps to mitigate that risk, providing access to real-time information at people's fingertips and the opportunity to automate regular and repetitive tasks. It's really the ideal foundation

for managing an organisation through a crisis like this," Mr MacDonald said.

TechnologyOne is one of Australia's largest enterprise Software as a Service (SaaS) company and also one of Australia's top 200 ASX-listed companies, with offices across six countries.

The company enterprise SaaS solution transforms business and makes life simple for their customers by providing powerful, deeply integrated enterprise software that is incredibly easy to use. Over 1,200 leading corporations, government departments and statutory authorities are powered by TechnologyOne software.

Their global SaaS solution provides deep functionality for the markets they serve: local government, government, education, health and community services, asset intensive industries and financial services.

For these markets we invest significant funds each year in R&D. We also take complete responsibility to market, sell, implement, support and run their solutions for their customers, which reduces time, cost and risk.

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# A welcome change in **passive** **fire protection** regulation

New regulations put in place by the government regarding passive fire protection have been met with open arms by the Fire Protection Association, but there can be no rest now

**T**he Fire Protection Association welcomes the new updates in relation to the approved Document B, making automatic fire sprinklers a requirement in all blocks of flats above 11 metres.

The government has announced the implementation date for changes to Approved Document B (ADB).

From 26 November 2020, all new build residential flats above 11 metres must be fitted with automatic fire sprinklers.

The Fire Protection Association (FPA) welcomes this decision in the residential sector given the increasing use of combustible materials in the structure, insulation and cladding of buildings.

## Not an exchange

However, this change must not allow for a reduction in passive fire protection measures within the residential environment or other safety management systems.

The fire protection and built environment stakeholders must seize this opportunity to allow passive and active measures to come together to protect people, property and the environment.

Work must now be done to improve the installation standards and approval schemes for residential sprinkler systems to reduce the likelihood of potential escape of water issues. Designers and



“Maintaining this resilience can only support the entire UK in future years”

installers must be third party accredited and trained, and approval schemes regularly reviewed.

Demonstrating the value and necessity for sprinkler systems has been challenging, and we would like the systems installed in residential buildings to be as resilient as those used for commercial protection, albeit with a life safety remit.

RISCAuthority, the UK research scheme administered by the FPA, has recently published a Technical Guidance Note for residential sprinkler systems to BS9251.

The document, which can be downloaded for free, was created to help improve residential sprinkler system performance and resilience, and reduce the likelihood of unwanted escape of water events.

## The importance of sprinkler systems

Dr Jim Glockling, technical director of the Fire Protection Association and RISCAuthority commented:

“In situations where occupant evacuation and fire service attendance might be delayed due to mobility or building complexity, sprinkler systems are known to save lives where smoke detection alone is insufficient.”

With fire sprinkler systems now becoming commonplace within the home, there is a need to embed best plumbing practice in to the Approved Document G [ADG] (sanitation) to sit aside



recommendations for household hot and cold water systems.

An insurer augmented version of ADG is due for publication in June 2020.

### Drop in incidents

The National Fire Chiefs Council (NFCC) have said that the figures covering the year ending 2019 were to be 'welcomed', but also warned that 'now is not the time for complacency.'

The NFCC discussed the recent statistics released by the Home Office, which covered all incidents as well as fire related fatalities and casualties.

Fires attended fell by 12%, while fire related fatalities fell by 10%, while there was a 4% decrease in incidents attended, and the total number of deliberate fires fell by 9%. Additionally, there was a 5% reduction in fatalities from dwelling fires.

Fires accounted for 28% of all incidents attended, with false alarms accounting for 41% and non fire incidents 30%. The NFCC noted that some of the figures needed to be 'viewed against the hot, dry conditions seen in 2018, 'where we saw a large spike in outdoor fires' and while it welcomed the findings, it warned that 'now is not the time for complacency, especially during the current COVID-19 pandemic'.

The pandemic has seen fire and rescue services (FRSs) undertake a series of 'nationally agreed additional activities',

while FRSs will also receive additional funding to 'support the ongoing response'.

On this, it pointed out that the funding boost was 'largely driven by NFCC's work in highlighting the need for [FRSs] to receive a fair share of the funding to help reduce the financial burden'.

### Not dropping the ball

NFCC chair Roy Wilsher commented: "While I am pleased to see the reduction in the number of incidents attended, it is vital we do not become complacent. [FRSs] are working in unprecedented times; at this stage, we do not know how COVID-19 will continue to impact our communities and the future numbers or types of incidents.

"It is clear however that the excellent prevention and protection work undertaken by fire and rescue services has contributed to these reductions, which must be recognised and praised. Unfortunately, we have had to draw back from a number of these activities to adhere to social distancing and other safeguards. We will not know the true impact for some time.

"While we are planning and modelling for a return to a 'new normal', COVID-19 has shown it is essential that we plan for risk, not just demand.

"We must be ready for infrequent high impact events, as well as the day-to-day activity. Maintaining

this resilience can only support the entire UK in future years.

"The stark reality is we need to ensure services can maintain a resilient response while planning for this new normality in unprecedented times. There are a number of unknown factors which we need to be able to respond to and understand.

"We also need to consider the role of [FRSs] services in future, incident command and responding to emergencies is in our DNA and I am sure there is much more to support UK resilience."

### Protecting the UK

The Fire Protection Association (FPA) is the UK's national fire safety organisation and is one of 28 similar national bodies worldwide. The organisation works to identify and draw attention to the dangers of fire and the means by which the potential for loss is kept to a minimum.

Since their formation in 1946, the organisation have attained an unrivalled reputation for quality of work and expertise in all aspects of fire including research, consultancy, training, membership, publications, risk surveying and auditing.

Their products and services are designed to assist fire, security and safety professionals achieve and maintain the very highest standards of fire safety management.

# Proving further that **sprinklers** **save lives** and properties

Towards the end of May in the UK was National Sprinkler Awareness Week and Nottinghamshire Fire and Rescue Service had a case that further highlights their importance

**B**etween May 18-24 was National Sprinkler Awareness Week in the UK and recently, Nottinghamshire Fire and Rescue Service had an incident where the sprinkler system saved both life and property at Winchester Court, Sherwood.

Crews from Stockhill and Arnold fire stations attended Winchester Court, Chestnut Walk, Sherwood following reports of a flat fire on the ninth floor.

Upon arrival one resident had self-rescued thanks to the early warning and activation of the buildings sprinkler and alarm system.

Nottinghamshire Fire and Rescue Service (NFRS) have worked collaboratively with Nottingham City Homes (NCH) by providing advice and guidance on the retrofitting of the sprinkler systems since the Grenfell Tower fire in June, 2017.

Following this tragic incident, sprinklers have now been retrofitted in all areas of Winchester Court and are being fitted in all Nottingham City Homes' high-rise blocks to ensure the safety of their residents from fire.

The sprinklers at Winchester Court activated, extinguishing the fire which is believed to have been caused by a portable heater being positioned too close to furnishings.

Swift action was taken by the crews to provide emergency first aid to the

resident and to access the stop valve and isolate the supply of water to further reduce damage within the property.

Due to the early extinguishing of the fire there was minimum damage to the property which was limited to the room where the fire started.

Nottinghamshire Fire and Rescue Service have also been looking closely at data which shows that suppression systems minimise the size of a fire before it spreads, premises with them present had 99.5% less damage compared to those without a system installed.

Where sprinklers were installed we found the damage to the premises never exceeded 50 sq/m; whereas premises without sprinklers, in some cases, exceeded 10,000 sq/m.

Business Education Advocate, Iona Loffman said: "Once again, this incident provides evidence to prove that 'sprinklers save lives'.

"Due to the hard work by Nottingham City Homes and Nottingham City Council in retrofitting sprinkler systems within all of their high-rise blocks, another life has been saved and another fire extinguished, reducing building damage and cost to Nottingham City Homes and the public purse.

"NFRS continue to support the National Fire Chiefs Council (NFCC) position on sprinklers

which save lives, reduce injury and protect firefighters, whilst limiting damage to property and the environment caused by fire.

"This is also an important reminder to be extremely careful when using portable heaters, particularly during the winter months. Remember to ventilate the room when the heater is being used, do not air or dry clothes over a heater and try not to place a heater too close to furniture, bedding or curtains.

"In the last five years, the Service have had no casualties or fatalities where suppression systems were present, which suggests having a system installed can not only save lives but can reduce the size of the fire to assist escape."

Nottingham City Homes' Interim Head of Health and Safety, Andrew Bruynseels, said, "This incident proves once again that sprinklers save lives, and our residents can rest assured that their safety is our number one priority as we near completion of our sprinkler install programme at all the high rises we manage across the city."

At NFRS, the department have recently updated their position statement on installation of suppression systems in accordance with NFCC guidance.

# Striving to **keep you safe** from **fire** in your property

Regardless of whether it's an older property or a new build, Hillmore Fire Protection have passive fire protection solutions to maintain your property is kept safe at all times

**H**illmore Fire Protection Limited offers a wide range of passive fire protection solutions for both, new build and refurbishment projects.

Their fire protection solutions provide comprehensive fire protection to the buildings, ensuring the complete safety of the occupants.

From supplying to designing to installing the fire protection solutions, their experts handle the complete process with high professionalism and attention to detail to ensure all the necessary measures are met, without failure.

The range of fire protection solutions that Hillmore Fire Protection offers include fire stopping, structural steel, fire doors, fire rated hoardings, surveys, cavity barriers, firewalls, and much more.

## Cost effective and reliable

All of these solutions are cost-effective, reliable and tailored to meet the different needs of the clients, from the nuclear sector through to the underground.

The professionals working with the company have extensive experience at the highest levels in the Fire Protection industry, and all key staff and site operatives are directly employed, 100% CSCS qualified and highly trained.

Speaking about the range on offer, a representative of Hillmore Fire



Protection Limited stated that Hillmore strive to give their customers the very best levels of passive fire protection possible and have done all they can behind closed doors to make their products compatible for both houses of an older generation, or new builds that are proving popular in the market today.

"The ethos and aim of Hillmore are to provide our clients with an un-rivalled service for the Design, Supply and Installation of all passive fire protection requirements," they said. "Be it within a new build, refurbishment or upgrading project, or as part of the change of use of a property."

## Aiming for the stars

A name that they are trying to make synonymous with excellence, Hillmore Fire Protection Limited supplies a wide range of passive fire protection services, and are accredited by several third-party certifier schemes in the UK.

They have been actively operating in the industry for years and over time have successfully completed a wide range of

projects across the country. It's as the result of their reliable solutions that today they have emerged as the leader in the industry and amassed a huge customer base throughout the UK.

Those looking for world-class fire protection solutions can get in touch with their professionals by completing a simple questionnaire present on their official website, [HillmoreFire.co.uk](http://HillmoreFire.co.uk).

## A specialist

Hillmore Fire Protection Limited is a specialist contractor working across from the initial survey through to the design, supply and installation of a wide range of passive fire protection, be it within a new build, refurbishment or upgrading project, or as part of the change of use of a property.

Hillmore Fire Protection Limited is accredited by the largest running and most recognised independent third-party certifier schemes for passive fire protection installation in the United Kingdom - FIRAS, run by Warrington Fire Research Station.

# Joining forces to **protect vital buildings** during the pandemic

Apollo Fire Detectors have linked up with Detect Fire & Security Ltd to protect a former military rehab centre amidst the COVID-19 pandemic, with the partnership helping everyone involved

**T**eamwork, flexibility and a commitment to customer service have resulted in Apollo fire detectors being installed, commissioned and in operation in just four weeks at a former defence medical rehabilitation centre that is being transformed into a community-style hospital for use during the coronavirus pandemic.

To support the COVID-19 site, and despite the warehouse being closed for a stock take, Apollo Fire Detectors ensured the essential fire safety equipment was personally delivered the day after the order was placed.

Headley Court, in Surrey, will re-open and serve as a temporary community hospital for patients needing rehabilitation or convalescence, those receiving end of life care, as well as those who are recovering from COVID-19 and do not require critical or acute hospital care.

The Headley Court facility closed in 2018 and the existing fire systems were no longer viable. Detect Fire & Security Ltd were appointed by Corrigena Facilities Services to install a new fire system into nine buildings in just four weeks and chose the XP95 from Apollo Fire Detectors.

Joe Presswell Technical Manager from Detect Fire & Security Ltd explained: "The site was already configured with ward space and other clinical areas, so it was ideal to be converted for

"It took four weeks to complete the installation in nine buildings. In normal circumstances it would take around three weeks per building. This was a brilliant team effort"

use as a community hospital. Upon initial site survey, it was a relatively straightforward installation, simply swapping the equipment and reprogramming the system onto the new Advanced Electronics addressable fire panels.

"But the timescales were understandably hugely demanding. We were originally asked to work on three buildings, but this soon changed to nine buildings, with the order in which they were expected to be completed changing throughout the installation.

"Apollo were fantastic partners to work with, ensuring good stock levels at all times and accommodating all our requirements.

"It took four weeks to complete the installation in nine buildings. In normal circumstances it would take around three weeks per building. This was a brilliant team effort."

Nicolas Duke, Operations Director at Apollo Fire Detectors said: "The Apollo team has always prided itself on its level of customer service and flexibility. Working with Detect Fire & Security on the Headley Court project was a prime example of this.

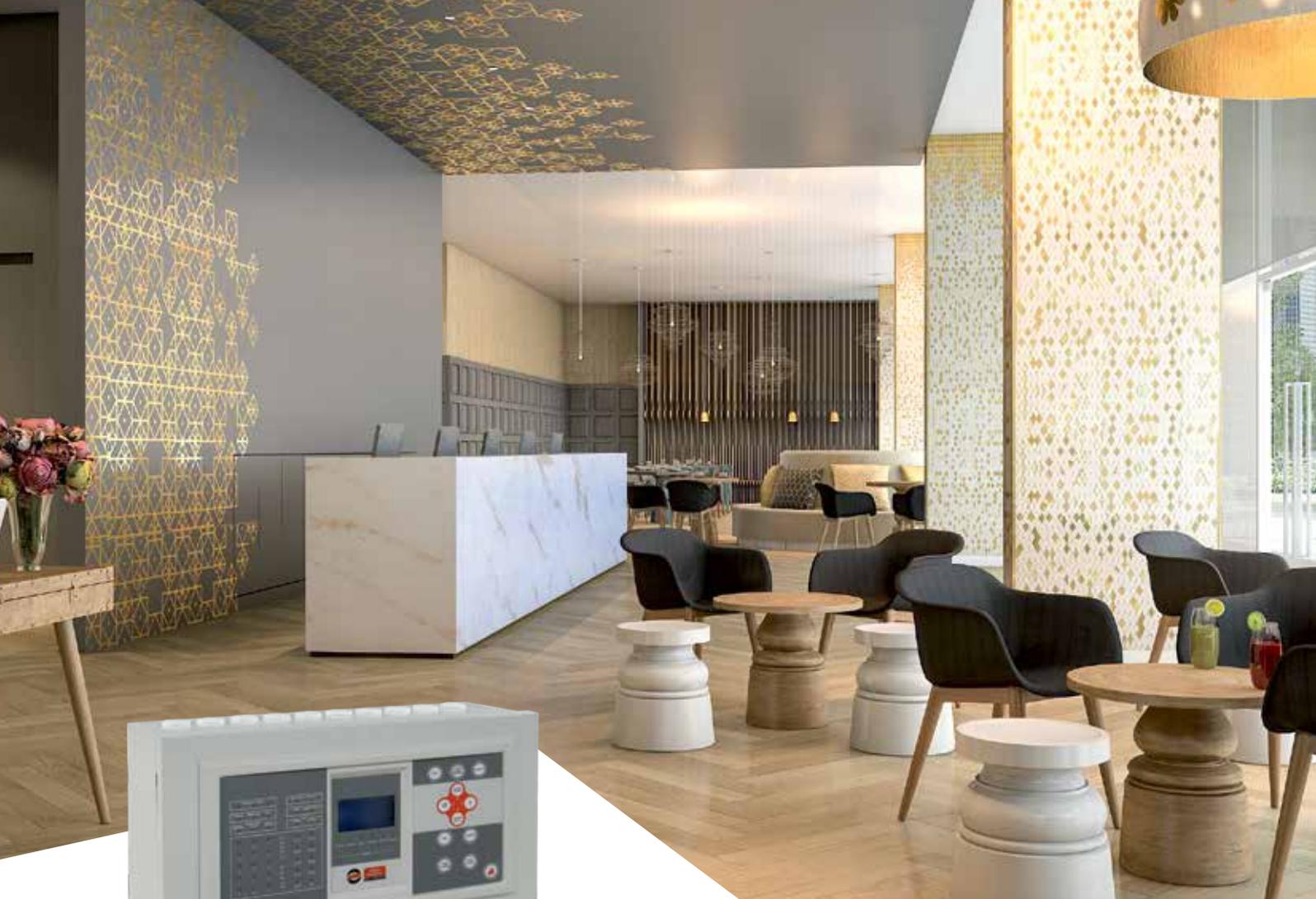
"Thanks to the fantastic support and dedication of our operations staff - continuing to work on our life saving devices through all of the coronavirus crisis - we were able to maintain our stock levels of key products.

"The first order arrived on a day when manufacturing was closed due to stock take, therefore it was actually packed and made ready for next day pick-up by the Apollo Leadership Team. We are all proud of the contribution that Apollo and our customers have made to the national response to the virus."

Mike Sutton, Sales Manager at Apollo Fire Detectors said: "Communication and teamwork were the keys to the success of this project.

"We really pulled out all the stops to help make this project come together so quickly. I personally delivered the first batch of products to site and our MD was packing boxes in the warehouse to ensure the project could start on time.

"We're delighted that the new facility is now fully protected, and patients can be cared for in a safe environment."



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# Strengthening their grip with fire retardants

Perimeter Solutions are a hugely prominent company within the fire industry and they have now got stronger after the acquisitions of LaderaTech and their fire retardant technology

**P**erimeter Solutions recently today that it has completed the acquisition of Colorado-based LaderaTech, a biomaterials company with commercial technology in wildfire prevention and the delivery of agriculture chemicals.

The acquisition includes LaderaTech's FORTIFY Fire Retardant technology and rights to associated intellectual property. The addition of FORTIFY technology – which is used in ground-based applications – complements Perimeter's industry leading PHOS-CHEK Fire Retardant aerial and ground technology.

LaderaTech President & CEO Wes Bolsen will be joining Perimeter Solutions as the Director of Wildfire Prevention in Perimeter's Fire Safety Solutions business.

According to Edward Goldberg, CEO of Perimeter Solutions, the acquisition of LaderaTech and FORTIFY is consistent with Perimeter's to bring the world's best fire safety technology to the market.

"Developing and discovering new, more effective fire safety products and technology is a passion at Perimeter Solutions. We saw the FORTIFY technology as an opportunity for us to deploy superior fire prevention and protection performance and to expand the number of places we can put our solutions to work helping to prevent and fight wildfires," he said.

"We are excited about the opportunity to have an entrepreneur with the expertise and experience of Wes Bolsen join our team – and continue our relationships with the other LaderaTech founders, Dr. Eric Appel, Jesse Acosta and Paul Franzia," he said.

LaderaTech was formed in 2018 and subsequently obtained global exclusive rights to patented firefighting technology developed by Stanford University and the Massachusetts Institute of Technology.

In early 2019, the company commercialized the FORTIFY Fire Retardant technology. It has seen use in ground-based applications by public utilities, state and federal agencies and municipalities.

According to Wes Bolsen, the opportunity to work with Perimeter Solutions and the company's ability to help FORTIFY technology reach its commercial potential was a good fit. "Perimeter Solutions is recognised around the world for bringing the best technology to the fire management industry.

"With the addition of the FORTIFY technology, they will add a durable, season-long proactive wildfire solution, as well as a platform for the delivery of agricultural chemicals to their already impressive portfolio of products," he said.

In the Fire Safety market, Perimeter Solutions is world's leading

comprehensive supplier offering products, equipment, personnel, logistics and service.

Perimeter Solutions operates as the largest global producer of fire-fighting chemicals with a broad product offering across fire retardant and fire suppressant foam applications.

Perimeter Solutions is the only company with fire retardant products qualified for use by the USDA Forest Service (USFS).

The company manufactures and markets major brands including PHOS-CHEK and FIRE-TROL retardant, foam and gel products; AUXQUIMIA foam products, SOLBERG foam products/systems hardware; and BIOGEMA extinguishing agents and retardants.

Headquartered in St. Louis, Missouri, Perimeter Solutions operates as a leading specialty chemicals business, producing high quality lubricant additives and firefighting chemicals with a broad product offering across fire retardant and fire suppressant foam applications.

Perimeter Solutions is the only company with fire retardant products qualified for use by the US Forest Service (USFS). Perimeter Solutions produces major brands known throughout the world like PHOS-CHEK and FIRE-TROL retardant, foam and gel products; AUXQUIMIA and SOLBERG foam products; and BIOGEMA extinguishing agents and retardants.

# A growing market despite the pandemic

The flame retardant protective wear industry is still very much on the rise despite the increasing implications of COVID-19, as per a brand new Research Dive finding

The global flame retardant protective wear market forecast will be \$4,891.0 million by 2026, at a CAGR of 6.8%, and is increasing from \$2,890.1 million in 2018, according to a new report published by Research Dive.

Stringent government regulations and growing workplace safety factors are driving the growth of the flame-retardant protective wear market, owing to rising demands from the end use industries for worker's safety and comfort at work environment.

The Occupational Safety and Health Administration (OSHA) in 2012, released a memo that demands all workforces in the oil & gas manufacturing to wear flame retardant protective wear to prevent injuries.

The instruction by OSHA is predicted to increase the usage of flame-retardant protective wear. Increase in the technological improvements are projected to enhance the flame-retardant protective wear market growth in projected timeframe.

The manufacturers are attempting to integrate longer-lasting capabilities and better assets into their fire-retardant materials. For commercial and residential furnishings, in the automotive & transportation industry, flame retardant protective wear is also needed to mitigate the incidence of ignition hazards.

The flame-retardant protective wear market is restrained by cost volatility and availability of raw materials. This leads to high investments on R&D activities to minimise the production cost.

Technical advancements and improvements in the current manufacturing process of flame retardant protective wear and rising workplace safety protocols are predicted to enhance the flame retardant protective wear market in the coming years.

Manufacturers are accepting eco-friendly materials for the production of fire retardants to minimise expenditure on production.

Based on product type, the market is segmented into treated and inherent. Treated product type segment generated the highest market share and is projected to reach \$3264.0 million in 2026. Inherent product type will experience noteworthy growth and is anticipated to grow at a 9.5% CAGR during the estimated time.

On the basis of material type, the market is divided into knitted, woven and non-woven. The non-woven type held the evident flame retardant protective wear market size in the 2018, and is expected to register \$1,817.2 million in 2026, and growing at 5.5% CAGR in the projected timeframe.

When the non-woven type is subjected to fire, it will minimise the distribution speed of the fire. Due to unique features of non-

woven fabrics, the non-woven flame-retardants materials are widely used in households, automobiles and aircrafts for interior furnishing applications. These factors are projected to drive the growth of the market size in the coming time.

Based on clothing type, global flame retardant protective wear market is divided into durable clothing and disposable clothing.

The market for durable clothing generated \$2,129.1 million in 2018 and is expected to register a revenue of \$3,404.9 million and at a 6.0% CAGR in the projected time period. The durable material provides protection from ignition and chemicals and displays higher strength; these factors are anticipated to raise the market growth during forecast period.

Based on end use, the oil & gas industry accounted for evident market size in the overall industry and is anticipated to account for \$817.5 million in 2026 at a CAGR of 4.8% in the coming years.

This is mainly due to extensive use of flame retardant protective wear in the oil & gas industry for protection from extreme temperatures and pressures.

The flame retardant protective wear market for automotive & transportation sector is projected to account for \$736.7 million by 2026, at a CAGR of 7.5% in the forecast period.



# Prioritising the well being of America

The National Fire Protection Association (NFPA) have been very busy in recent months to make sure that the citizens of the United States are being kept safe

The National Fire Protection Association (NFPA), the official sponsor of Fire Prevention Week for more than 95 years, has announced “Serve Up Fire Safety in the Kitchen” as the theme for Fire Prevention Week, October 4-10, 2020.

NFPA’s focus on cooking fire safety comes in response to home cooking fires representing the leading cause of U.S. home fires, with nearly half (49%) of all home fires involving cooking equipment; unattended cooking is the leading cause of these fires.

“Cooking continues to be a major contributor to the home fire problem,” said Lorraine Carli, NFPA vice president of Outreach and Advocacy. “The good news is that the vast majority of these fires are highly preventable. This year’s Fire Prevention Week campaign works to better educate the public about where potential cooking hazards exist and basic but critical ways to prevent them.”

“This year’s Fire Prevention Week campaign works to better educate the public about where potential cooking hazards exist and basic but critical ways to prevent them”

Carli notes that this year’s focus on cooking safety is particularly timely. “As the public may continue to avoid restaurants for some time and opt instead to do more cooking and entertaining at home, the potential for home cooking fires will likely increase as well.”

Key messages around this year’s Fire Prevention Week campaign,

“Serve Up Fire Safety in the Kitchen” will include the following:

- Keep a close eye on what you’re cooking; never leave cooking unattended
- Keep anything that can catch fire — oven mitts, wooden utensils, food packaging, towels or curtains — at least three feet away from your stovetop.
- Be on alert. If you are sleepy or have consumed alcohol, don’t use the stove or stovetop.

For more information about Fire Prevention Week and this year’s theme, “Serve Up Fire Safety in the Kitchen,” along with a wealth of resources to help promote the campaign locally, visit [fpw.org](http://fpw.org).

## Examining current health

The NFPA Fire & Life Safety Policy Institute has also recently released

the 2019 Fire & Life Safety Ecosystem: Year in Review report. The new report, which highlights a number of U.S. and international life safety incidents, looks at the circumstances that led to each tragedy and examines the current, overall health of the global fire and life safety system.

According to the report, each incident serves as a painful reminder of a current safety system that repeatedly fails to protect the public and first responders; taken together, they represent a catastrophic failure of the Fire & Life Safety Ecosystem, a framework the National Fire Protection Association (NFPA) developed in 2018 that identifies the components that must work together to minimize risk and help prevent loss, injuries, and death from fire, electrical and other hazards.

“In today’s fast-paced society, our changing infrastructure, new technology, evolving risks, and competing priorities all put pressure on maintaining strong fire and life safety protections,” said Jim Pauley, president and CEO of NFPA. “The Fire & Life Safety Ecosystem framework helps tie together all of the essential elements that keep people and property safe in our modern world.”

The Fire & Life Safety Ecosystem consists of eight components that are interdependent. When calamities happen, the cause of these situations can often be attributed to a breakdown in one or more of the elements of the safety ecosystem.

The examples referenced in the “Year in Review” report point to the gaps, cracks, and weaknesses in the Ecosystem that otherwise should protect communities.

“By examining the incidents in the report, communities will not only see the fault lines that enabled each calamity, but they can use the examples to help address fractures in their own fire and safety ecosystems to create safer areas to live,” said Pauley.

The free 2019 Year in Review report, in addition to other resources and information about the NFPA Fire & Life Safety Ecosystem, can be found on NFPA’s Ecosystem webpage.

### A safer conference for another day

The National Fire Protection Association (NFPA) recently announced that they have cancelled the 2020 NFPA Conference & Expo, initially scheduled for June 15-18 in Orlando.

“At this time, the world continues to be significantly impacted by COVID-19 and we no longer believe it is possible to host and conduct this event in Orlando in June,” said NFPA President and CEO Jim Pauley. “NFPA is a safety organisation and we would not hold an event where the well-being of staff, attendees and business partners could be compromised in any way.”

Pauley said that from day one the organisation’s intent and singular focus was to hold the 2020 NFPA Conference & Expo only if it could be done safely for all involved. Extensive monitoring of countless date and information sources led to the decision to cancel.

“We did not arrive at this decision easily or without an abundance of consideration. The conference is

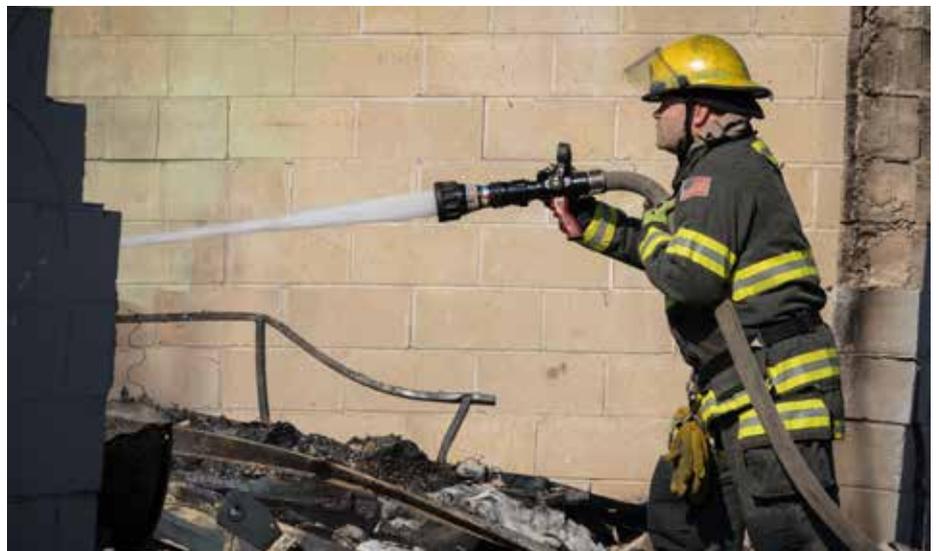
important to us as it is important those who participate in one way or another,” said Pauley. “Just as it has been for more than 100 years, our annual event is a key catalyst to advance fire, life and electrical safety across the globe,” he continued.

This meeting is where new and updated codes and standards move forward, results from the latest research are revealed, products and services that support prevention and protection are showcased, and attendees are provided one of the most productive opportunities to network with peers who share the same commitment to reducing loss.

There are some activities that occur at the event, in particular the Association’s Annual Meeting and the election of directors to the Board as well as the codes and standards technical meeting that NFPA holds.

The 2021 NFPA Conference Expo will be held the week of June 21st, at the Mandalay Bay Convention Center in Las Vegas, Nevada. It will be the 125th anniversary of NFPA.

For additional information on the cancellation, see the conference website.



# Fusing lifesaving foam with next level robotics

Making the future a reality are Milrem Robotics and InnoVfoam, who have combined the use of superb firefighting solutions and next level robotics to create a robot firefighting system

**M**ilrem Robotics and InnoVfoam are developing robot firefighting systems to assist or even replace firefighters in the most hostile environments.

The jointly developed firefighting solutions combine Milrem Robotics' unmanned ground vehicle (UGV) Multiscope Rescue and InnoVfoam's various firefighting systems, specifically foam proportioning systems and fire monitors.

The firefighting robots are remotely operated by firefighters who remain in a safe distance while receiving a complete overview of the operation area via various cameras, i.e. thermal and infrared, and sensors onboard the robot that can additionally detect gas or chemical leaks.

The fire monitors can be operated independently from the UGV thanks to separate cameras on the UGV and the monitors allowing the vehicle to change position while maintaining a perfect overview of the fire. The system can also be complemented with additional preventive and repressive systems and autonomous functions.

"In addition to fires in urban environments there are large scale forest and landscape fires every year that endanger the environment, the lives of inhabitants and especially firefighters. The systems we are developing with InnoVfoam can alleviate dangers firefighters face and help contain fires faster," said Kuldar Väärsi, CEO of Milrem Robotics.



The Multiscope Rescue has a maximum payload capacity of 1200 kg and pull force of 21 000 N allowing it to be equipped with a variety of firefighting specific payloads including foam or water tanks, but also tethered drones for better situational awareness.

Robot firefighters can also deliver heavy firehoses to reach areas and enter structures that are inaccessible with bigger vehicles or may collapse on top of firefighters. In case of forest or landscape fires the robot firefighters can be airdropped to start limiting the spread of fires.

InnoVfoam's fire monitors can dispense water and foam from 2000 up to 20 000 liters per minute.

The first joint product will feature InnoVfoam's fire monitor skid unit Hydra on the Multiscope Rescue.

InnoVfoam is an independent specialist in foam extinguishing technology, serving many European customers from its branches in the Netherlands, Germany and Denmark. Knowledge, quality

certificates and safety protocols form the basis of our activities.

InnoVfoam has its own product line consisting of foam concentrates, foam makers, foam proportioners and fire monitors. Furthermore, InnoVfoam has its own demonstration centre, service department and laboratory to perform foam analyses. When it comes to firefighting and safety protocols, reliability is essential. Therefore, InnoVfoam only collaborates with internationally established partners.

Meanwhile, Milrem Robotics was established in 2013. The company's mission is to provide innovative robotic solutions for challenging environments. They believe that their cutting-edge robotic solutions fulfil a higher purpose – enabling more meaningful lives.

Respect for the value of human life being their top priority, Milrem aim to retrieve people from danger areas and liberate them from dirty, dull and dangerous tasks.

Through their products and services, Milrem seek to increase human safety and labour efficiency in a number of targeted industries, particularly in defence, agriculture, forestry, municipal services, rescue and mining.

By sparing and protecting human lives via innovative technology, Milrem promote the idea of dedicating time for the realisation of one's true potential.

# Worldwide demand fuelling firefighting foam growth

According to a new report from Allied Market Research, economies such as China and Australia are getting involved with firefighting foam, which is a boost for the industry

**R**ecently, Allied Market Research published a report titled, "Firefighting Foam Market by Type (Aqueous Film Forming Foam (AFFF), Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF), Protein Foam, Synthetic Detergent Foam, and Others), and End-Use Industry (Oil & Gas, Aviation, Marine, Mining, and Others): Global Opportunity Analysis and Industry Forecast, 2020-2027".

According to the report, the global firefighting foam industry was pegged at \$856.3 million in 2019, and is projected to reach \$1.14 billion by 2027, growing at a CAGR of 3.6% from 2020 to 2027.

## Major motivators of the market

Increase in demand from end-use industries and government rules and regulations regarding fire safety have boosted the growth of the global firefighting foam market.

However, ban on fluorinated firefighting foams hamper the market growth. On the contrary, innovations in fire extinguisher products is expected to create lucrative opportunities in the near future.

"Increase in demand from end-use industries and government rules and regulations regarding fire safety have boosted the growth of the global firefighting foam market"

The aqueous film forming foam (AFFF) segment dominated the market

Based on type, the AFFF segment held the largest share in 2020, accounting for around one-third of the global firefighting foam market. The segment would dominate the market throughout the forecast period.

In addition, the segment is expected to register the fastest CAGR of 3.9% by 2027. The aqueous film forming foam (AFFF) can be used in both class A and class B fire cases, which drives the growth of the segment.

The market also analyses segments including alcohol resistant aqueous film forming foam (AR-AFFF), protein foam, and synthetic detergent foam.

## Oil & gas to manifest highest CAGR through 2027

By end user, the oil & gas segment is anticipated to register the highest CAGR of 3.9% during the forecast period. Moreover, the segment held the largest share in 2020, accounting for nearly one-third of the market.

This is due to wide use of firefighting foams in the oil & gas industry, as the

sector is prone to fire outbreaks. In addition, the oil & gas companies need to comply with several stringent rules & regulations regarding fire safety, which drives the growth of the segment. The market also analyses the aviation, marine, and mining segments.

## Asia Pacific held the lion's share, North America to grow gradually

The market across Asia Pacific held the largest share in 2020, accounting for nearly one-third of the market. In addition, the region is expected to manifest the fastest CAGR of 3.9% in between 2020 to 2027.

This is owing to the demand from emerging economies such as China, India, Australia, and South Korea. On the other hand, region across North America is expected to register the fastest CAGR of 3.2% during the forecast period.

## The market also offers an in-depth study of regions including LAMEA and Europe.

Allied Market Research (AMR) is a full-service market research and business-consulting wing of Allied Analytics LLP based in Portland, Oregon. Allied Market Research provides global enterprises as well as medium and small businesses with unmatched quality of "Market Research Reports" and "Business Intelligence Solutions."

# The foam preventing crude oil fires

Crude oil storage is incredibly vital given the chemical nature of the oil itself, so the DryFoam technology from Trelleborg comes as a near essential product for many

**T**relleborg's applied technologies operation supports hydrocarbon storage with DryFoam, a proven UL certified non-water fire prevention solution, specifically designed to suppress up to 98% of vapors, protecting people and property from fire.

Trelleborg's DryFoam technology is completely passive, working with most flammable liquids including crude oil, gasoline and alcohol.

Robert Kelly, General Manager of Trelleborg's applied technologies operation in Boston in the US, comments: "With crude oil storage increasing and oil tanks filled to capacity, our DryFoam passive fire protection technology not only safeguards people, products and places, but also facilitates safe trading and provides peace of mind."

A proven lightweight alternative to traditional vapor and fire suppression systems, DryFoam is easy to transport and apply and can remain in place for up to 10 years with minimal maintenance. The fire prevention solution can also be applied to an internal floating roof to provide additional protection and peace of mind in the event of a sunken roof situation.

DryFoam engineered spheres are applied directly to the surface of a liquid, where they float and continuously suppress vapours.

It can prevent a full surface fire and slow down evaporation rate, removing the need for costly flare burning; something that has a substantial impact on the environment.

When exposed to intense heat from above the coating on the DryFoam beads swells up. This creates an insulating barrier, preventing ignition of the flammable liquid and a consequential full surface fire.

Kelly, continues: "DryFoam is a non-water-based fire protection system specifically designed for high vapour pressure flammable liquids. The material can be applied in virtually all climates, including extremely cold or hot conditions, where obtaining a water-based or 'wet' fire suppression is challenging."

DryFoam is UL certified, having undergone extensive testing. This certification covers buoyant media intended for protection against full-surface fires in fixed flammable and combustible liquid tanks and repositories that operate by providing a thermal barrier between the surface of a liquid and potential sources of ignition.

Trelleborg's UL listed DryFoam is a passive fire protection system designed for vapor suppression and fire prevention of flammable liquids including crude oils, gasoline and alcohols.

When deployed, DryFoam suppresses vapors over 90%. If exposed to intense heat from above the flammable liquid, the spheres have a coating that intumesce, creating an insulating barrier which prevents ignition of the flammable liquid.

DryFoam is comprised of easily deployed spheres that can be applied directly onto the flammable liquid creating a floating bed where it can remain for 10 years.

Alternatively, it can be applied onto an internal floating roof to protect in the event of a sunken roof. The beads contour to any shape tank reducing the risk of fires. DryFoam is completely passive and works without water and is temperature rated -40F to +140F.

Trelleborg's Applied Technologies operations can trace its roots all the way back to 1905 when Henry Dunker founded Trelleborg Gummifabriks AB and turned it into Scandinavia's leading rubber production company.

The inception of Trelleborg Applied Technologies in 2016 followed a 20-year period of market consolidation of well-known brands such as Advanced Engineering Materials, Ambler Technologies, Emerson and Cuming, CRP, OCP, Tyco, Polyurethane Products Limited and Unitex.

Today, Trelleborg Applied Technologies continues to be a world-leader of specialised, customisable material solutions.



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# Keeping the **capital** **city of England** secure

The role of the firefighter has been altered somewhat with the current pandemic, but the London Fire Brigade is still helping its residents in the best way it can

**F**irefighters are continuing to step up to prevent the spread of coronavirus, this time by delivering medicines, care packages and food to vulnerable Londoners who are being shielded from Covid-19.

Fire crews are collecting prescriptions from pharmacies and delivering them straight to the door of those being advised they should have very limited social interaction during the current pandemic.

Food and care packages are also being transported to people's homes. These include food parcels made for patients discharged from Whipps Cross Hospital and food bank packages for example delivered in Croydon by firefighters. While delivering vital medicine and food, crews are also giving fire safety advice at people's front doors, while social distancing.

The Brigade's Deputy Commissioner and Director of Operational Delivery and Assurance, Richard Mills, said: "I never doubted for one minute that our staff would step up and adapt to the new and significant challenges our capital is facing due to Covid-19.

"I'm immensely proud that they are making sure vulnerable residents are getting vital medicine and food delivered to their door and that they are not only delivering, but producing essential PPE for the health workers.

"London is working together in helping prevent the spread of Covid-19 and as well as maintaining a full emergency service, we're prepared to assist other partners to help those in need taking every safety precaution necessary to protect our communities and our staff"

"London is working together in helping prevent the spread of Covid-19 and as well as maintaining a full emergency service, we're prepared to assist other partners to help those in need taking every safety precaution necessary to protect our communities and our staff."

Firefighters are getting vital protective equipment to frontline health staff. The Brigade's Operation Seacole has so far helped deliver over two million items of essential personal protective equipment (PPE) and local arrangements between London fire crews and the NHS are assisting those in hospitals and care homes.

The Brigade's specialist Chemical, Biological, Radiological and Nuclear (CBRN) team, alongside Lambeth crews have made over 17,000 protective face shields for hospital staff to date and 29 boxes have been received by Central and North West London Trust (CNWL).

Claire Murdoch, CNWL Chief Executive said: "I want to thank the kind hearted

Lambeth firefighters for this generous donation! I'm really blown over by their kindness, and to the group Shield NHS for making these for the NHS.

"We will use it wisely and it will help us to protect our staff who are on the frontline, working hard to care for our patients."

Staff at Heston and Richmond fire stations have made over 13,000 PPE packs. Each pack consists of two aprons, a pair of gloves and a face mask, all in a bio hazard bag. They have been made for Hounslow and Richmond Community Healthcare NHS Trust for use by community staff who are visiting vulnerable residents in need of medical care."

## Delivering PPE for the frontline

Firefighters are helping in the fight against Covid-19 by delivering over two million pieces of vital personal protective equipment (PPE) to frontline health and social care workers.



The Brigade have transformed a former Brigade Distribution Centre in South London into the Operation Seacole distribution hub delivering masks, gloves and eye protection to 33 local authority centres and London partners including Police services and Transport for London.

The Brigade receives orders from the health service, care homes, doctors surgeries and mortuaries who need PPE for their staff. The following day the orders are processed and agreed by London Resilience Partnership. Once agreed they are loaded onto a range of Brigade vehicles and distributed across London.

London Fire Commissioner Andy Roe said: "Our incredible teams are stepping up again, using their logistics skills to support the distribution of PPE to health workers who are working so hard during the pandemic. As well as maintaining a full emergency fire and rescue service, staff across the Brigade are working hard to prevent the spread of Covid-19 and assist our emergency and health partners.

"Throughout our 150-year history London Fire Brigade has played a key role in times of crisis and this is the same today. I'm extremely proud of our staff who are going above and beyond to protect the capital."

The LFB started distributing PPE following a request from the London Strategic Co-ordination Group and Deputy Chair of London's Strategic Coordination Group, Eleanor Kelly, said: "The Strategic Coordination Group is bringing together London's emergency services, local authorities and other critical partners to tackle the impact of Coronavirus in the capital.

"By helping to deliver the most vital equipment to London's frontline workers in this pandemic, we not only protect key workers by allowing them to continue to deliver their critical work, but no doubt we are helping to save lives."

### Helping for more than one

As hundreds of firefighters across London approached the end of their second month working alongside medics as part of a new blue light partnership to boost the response to the pandemic, many have had some memorable shifts.

Firefighter Ian Tobin was given a hands-on introduction to his secondment with the London Ambulance Service when he had to stop the ambulance he was driving and helped deliver a baby just 200 metres from the entrance of the maternity ward.

Ian, who is currently stationed at the St Helier Ambulance base in south west

London, was working with Paramedic Richard Teare when they were called to a pregnant woman who had gone into labour.

Ian said: "We were only two and half miles away from Croydon University Hospital so we thought we would be able to get the patient there to be checked over in the maternity ward."

With paramedic Richard in the back of the ambulance with the expectant mother, Ian drove on blue lights towards the hospital. He added: "As we turned into the hospital grounds, I had a call from the rear of the ambulance to take it nice and slow.

"Not 30 seconds later I was told to stop and get in the back. We were 200 metres from the entrance of the maternity ward when a baby girl was delivered in the back of the ambulance.

"I was there to offer a pair of hands and both mother and baby were safely taken in to the delivery unit."

Ian joined the Brigade three years ago and decided to volunteer to assist on the ambulances to play his part in the emergency response to the pandemic and bolster his confidence with delivering immediate emergency care. He said: "In this prolonged period of uncertainty and on my first shift with Richard, I found this to be a particularly uplifting and memorable incident."

The Brigade's Deputy Commissioner, Richard Mills, said: "I am very proud of the work that our firefighters have been doing over the last few months to support the London Ambulance Service. In a particularly troubling period, it's great to hear such positive stories like this.

"Our work with partners throughout the pandemic has provided us with even more opportunities to support Londoners in a number of different ways. We will continue to support our communities and provide a full emergency response for London."

# Protecting the county in troubling times

With the pandemic going on, fire departments are exercising their duty to help the public in other ways, with the Kent Fire and Rescue Service doing so brilliantly

**K**ent firefighters are supporting their blue light colleagues in the fight against Covid-19 by lending their services to the wider community.

Crews and staff at Kent Fire and Rescue Service (KFRS) are working alongside South East Coast Ambulance Service (SECAmb) to help meet the growing demand on medical response across the county, as a result of the worldwide pandemic.

Not that long ago, firefighters underwent training before being deployed to drive ambulances, while other KFRS employees have been helping to deliver medical supplies and equipment, as well as prescriptions and medicines to those most in need.

Mark Rist, Assistant Director for Response at KFRS, said: "Here in Kent, we are fortunate to already have a mature and established relationship with SECAmb. Our firefighters have interchangeable emergency skills and are trained to a SECAmb standard and we also share properties with the ambulance service, so this is an obvious role extension for us during this pandemic."

Recently, KFRS began driving five large vehicles to-and-from SECAmb's distribution centre in Kent, so larger quantities of medical supplies can be delivered to paramedics and hospitals, seven-days-a-week.



Mark added: "For non-operational staff who are unable to continue with their usual day job, such as our response vehicle driving instructors, this is an opportunity to provide essential work and assist our communities.

"We all want to help where and when we can and to unite Kent together."

## Act responsibly

With warmer weather on the way, firefighters are urging the public to enjoy bonfires and barbecues responsibly.

This comes following an increase in the number of bonfire-related 999 calls and incidents Kent Fire and Rescue Service has dealt with, compared to the same time in previous years.

The rise is believed to be due to more people being at home due to Covid-19 isolation, and opting to have bonfires in

the fine weather. It could also be linked to the closure of household waste sites across the county.

And with warmer temperatures forecast soon, it's expected even more people will have controlled outdoor fires in the form of bonfires, fire pits and barbecues.

Kent Fire and Rescue Service's Assistant Director for Resilience, Lee Rose, said: "We are monitoring what impact the current Covid-19 isolation situation is having on the type of incidents we are attending and it's clear there has been more bonfires across the county, and more people noticing them in recent weeks.

"With lots of people staying home in line with government advice, we're getting more calls from concerned residents seeing smoke – those unaware that it's coming from a controlled burn.



“We all want to help where and when we can and to unite Kent together”

“So, we’re asking that if you plan to have a bonfire or light a fire pit, please let your nearby neighbours know to avoid concern, and to help reduce the number non-critical 999 calls we receive.”

The fire service may not respond to call outs regarding bonfires where the burning is taking place in a controlled and responsible manner.

Anyone having a bonfire is urged to take care and follow fire service safety advice:

- Remember to build your bonfire well clear of buildings, garden sheds, fences, hedges and overhanging branches.
- Keep it to a manageable size and make sure it is evenly built so it collapses inwards as it burns.
- Always have a bucket of water or hosepipe nearby in case of emergency. If the bonfire becomes out of control and catches foliage or property alight, call 999.
- Be sure not to leave bonfires unattended and dampen them down fully once you’re done.

Those enjoying barbecues are also urged to do so safely, keeping cooking well

away from fences, foliage and buildings even if there are no flames, because radiated heat alone can cause nearby plants or structures catch fire.

Please, stay home and stay safe, remembering not to travel out of your local area to enjoy the nice weather, and avoiding parks, country parks and coastal areas.

### A community touch

Firefighters are helping two young girls to spread a little positivity across their community by flying their homemade flag.

Crews at Tunbridge Wells Fire Station were presented with the colourful rainbow flag by sisters Kitti, 12 and Iris, 10. The duo, with the help of their dad Rupert, came up with the ‘together apart’ message, with the use of three linked rainbows.

Rupert said: “We created a flag to encourage social distancing and to celebrate how we can all still be together, even if we are apart from each other.

“We think it’s a great way to support a good cause and send a really important message.”

The girls added: “We wanted everyone to be able to see our rainbow and to bring people some happiness, so we’re really excited to see it up outside the fire station.”

The flag will be hoisted in time for tonight’s Clap for Carers at 8pm,

in support of the NHS and other frontline workers.

Since the outbreak of Covid-19, Kent Fire and Rescue Service staff have been working to support those in need and partner organisations.

Crews in parts of the county have been working in collaboration with councils, by collecting parcels of essential food and household items from community hubs and delivering them to those in need. While others are delivering prescriptions to those who aren’t able to get to the chemist themselves.

And it’s not just operational staff who have rallied round to lend a hand. Corporate fire service staff are also volunteering their time to help in the community.

Our teams are continuing to work with Age UK to deliver hundreds of hot meals to people living in Faversham, Sittingbourne, Ashford, Hythe, Lyminge, Maidstone, Margate, Ramsgate, Broadstairs, Snodland and Medway.

Chris Colgan, Director of Operations at KFRS, said: “We have a great team of people who want to help and contribute in any way that they can.

“Therefore, it is fantastic to see so many people from KFRS being able to support the Kent community in a variety of ways and in some circumstances, outside of their usual day-to-day role within the service.”

# Supporting all areas of the local community

The topic of care homes is a controversial one in the UK for a number of reasons, but Cleveland Fire Brigade staff are doing their bit to help

Cleveland Fire Brigade staff are currently offering to work with local partners to support care homes in the fight against COVID-19.

This new move follows a national agreement led by the National Fire Chiefs Council (NFCC), the National Employer and the Fire Brigades Union (FBU).

Where there is a need this will include delivering training to staff on how to use and wear PPE properly, supporting staff on testing and training on infection prevention and control.

Chief Fire Officer, Ian Hayton, said: "This initiative means Cleveland Fire Brigade will be working with local partners and care home staff, assisting in the fight against COVID-19. This agreement means we can ensure those who need help, receive it."

"Care homes remain a cause of concern in relation to COVID-19 cases. The Brigade's' knowledge, skills and capabilities mean we have a lot of expertise to offer and can play a significant role in helping care homes through training staff to increase their confidence and knowledge, while helping keeping residents safe.

"Once again, this shows Cleveland Fire Brigade staff are ready, willing and able to take on additional duties and help wherever support is needed during times of crisis. This support and

assistance is in the DNA of fire staff and shows their dedication and commitment to helping those who need it."

The national agreement will be underpinned with a robust risk assessment to support those carrying out the work and to keep them safe.

This will include appropriate training, appropriate PPE and high standards of hygiene, with social distancing in place.

Jean Golightly, Tees Valley Clinical Commissioning Group Director of Nursing and Quality said: "When we went to the LRF with our offer of an Infection Prevention and Control "Train the Trainer" programme to support our Care Homes, Cleveland Fire Brigade was one of the first organisations to step forward with personnel to support.

"This fantastic response is CFB's typical way of working; Teesside people supporting Teesside people, and helps us all to deliver on challenging tasks."

The fire and rescue service support will see, where needed, the delivery of pre-designed training packages on Infection Prevention and Control, including hand, hygiene, PPE use guidance and procedures, supporting the care

home staff testing, for example training care home staff to train others, according to the principle of 'train the trainers.'

This support to care homes comes in addition to activities already offered including: the assembly of single use face shields for the NHS and care work front line staff; packing/repacking food supplies for vulnerable people, transfer of patients to and from Nightingale hospitals; Assisting in taking samples for Covid-19 antigen testing; driving non-blue light ambulance transport; driving instruction; face fitting masks for frontline NHS and clinical staff; delivery of PPE and other medical supplies; assisting the ambulance service with driving and patient/ambulance support; moving deceased people and supporting the most vulnerable through deliveries.

The activities are in addition to the Brigade maintaining its response to emergency incidents and carrying out core duties such as prevention and building safety based on risk.





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# Transforming the **future of fire safety** for social housing

Nick Rutter, Chief Product Officer at FireAngel, explores the latest innovations available to architects that will help social housing providers and provide intelligent connected solutions

**A**s social housing providers across the UK look to maximise asset protection whilst simultaneously providing the highest standard of safety for tenants, connective technologies are presenting a new proactive approach that offers unlimited opportunities for data access across multiple property portfolios.

From struggling to gain access to properties, to overcoming issues regarding the adequate measurement and management of property risk, social housing providers across the UK are facing increasing pressures, specifically regarding fire safety.

There are a number of complications associated with missed tenant appointments and the difficulty engineers experience when trying to gain access to properties to conduct necessary maintenance and repairs. This is resulting in not only a reduction of the level of protection potentially provided, but ultimately costly consequences, particularly with regard to the expensive cost of repair following a fire.

However, architects and specifiers can work closely with clients from the initial design concepts to implement preventative fire safety measures that utilise connected technologies to remove the physical barriers many providers traditionally face. This will enable housing providers to ensure full compliance across their entire housing stock, whilst understanding and meeting fire safety requirements of the future.

## Ensuring long-term efficiency

Following the Hackitt Review, architects and specifiers are proactively adopting its principles to ensure the long-term efficiency of properties with regard to fire safety. While specifying smoke and heat alarms that quickly and effectively respond to all types of fires is essential, professionals can go above and beyond legal requirements by choosing advanced solutions that react in real time to potential or actual fire events.

While ionisation sensing technology was traditionally a popular choice due to its low price point and outstanding ability to detect fast-flaming fires, the concerns regarding its potential radioactivity and sensitivity quickly began to outweigh its benefits.

To ensure the quickest response times are ensured for all types of fires and maintain compliance with current standards and regulations, including the 2019 revisions to the British Standard 5839-6, multi-sensing or optical alarms should be specified throughout circulation areas, including landings and hallways. This provides a basis for ensuring all minimum requirements with regard to fire safety are met, whilst also following the guidance of the UK Fire and Rescue Services.

However, there are a wide range of connected technologies currently available to aid professionals in taking this compliance one step further,

supporting them in adopting a proactive approach that ensures the long term safety and suitability of their properties, whilst complying to an LD1 Specification.

While Scotland takes significant strides in improving the energy efficiency of its social housing stock through EESSH2, providers across other areas of the UK are also looking to supply solutions that not only offer the highest levels of protection, but actively improve the long-term sustainability of their operations.

Typically, a smoke alarm spends 99.9% of its time in standby, dissipating the unused energy through heat, which is extremely inefficient. Once the alarm is activated, a significant increase in power is utilised, which is commonly provided by 'dropping' the voltage from the mains power supply.

## Technological advancements

However, latest developments have led to the creation of mains-powered, low carbon footprint ranges that are Smart RF compatible and feature an intelligent 'step down' circuit that monitors the active state of the alarm to adequately manage the power available.

This ensures the alarm uses just 10% of the energy when compared to the average AC alarm, significantly improving the long-term efficiency of the alarm throughout its 10-year lifespan.

For social housing providers with all sizes of housing stock, the potential to have a running cost as little as 6p per alarm over 10 years can lead to significant reductions in energy output and subsequent savings with regard to operating costs.

As the range is Smart RF compatible, it also provides professionals with the adaptability to futureproof their properties to meet the specific needs of future residents and comply with future legislations. Offering the benefits of both Thermoptek and Thermistek sensing technology to adequately respond to all fire types, it supports the adoption of a flexible mixed system that interlinks hardwired mains and battery powered alarms.

### Mixed system

A mixed system (also known as a hybrid system) not only provides the opportunity to adopt both 230V mains AC 50Hz and DC battery alarms, but also offers the ability to include Smart RF ready alarms.

This provides enhanced flexibility as additional smoke, heat, CO and specialised assisted living products (such as a wireless alarm control unit and strobe and pad), can be wirelessly added or removed to a network, dependent on the specific needs of a tenant and their level of risk.

This enables architects and specifiers to support social housing providers in achieving a higher standard of fire protection throughout an entire property, where previously a hardwire interlink may not have been possible.

Smoke, heat and CO alarms can be wirelessly meshed together on a private network, so when once alarm sounds, they all sound to immediately notify individuals of a potential fire or CO event, aiding a safer and quicker exit. A faster response can also minimise the potential fire damage to the property.

As the alarms are Smart RF compatible, professionals have the flexibility to upgrade the system by fitting a Smart RF radio module into the alarm. This allows wireless interlinking of up to 50 alarms within one network, enabling the opportunity to also access vital information including current status, alarm history, replacement dates and network health through the activation of a cloud-based connect gateway.

### Bridging the gap

By utilising a connect gateway, which uses a unique algorithm and features patented Predict technology to identify and highlight high-risk patterns of behaviour with regard to fire safety, it bridges the gap in communication by instantly notifying necessary individuals in the event of an alarm activation.

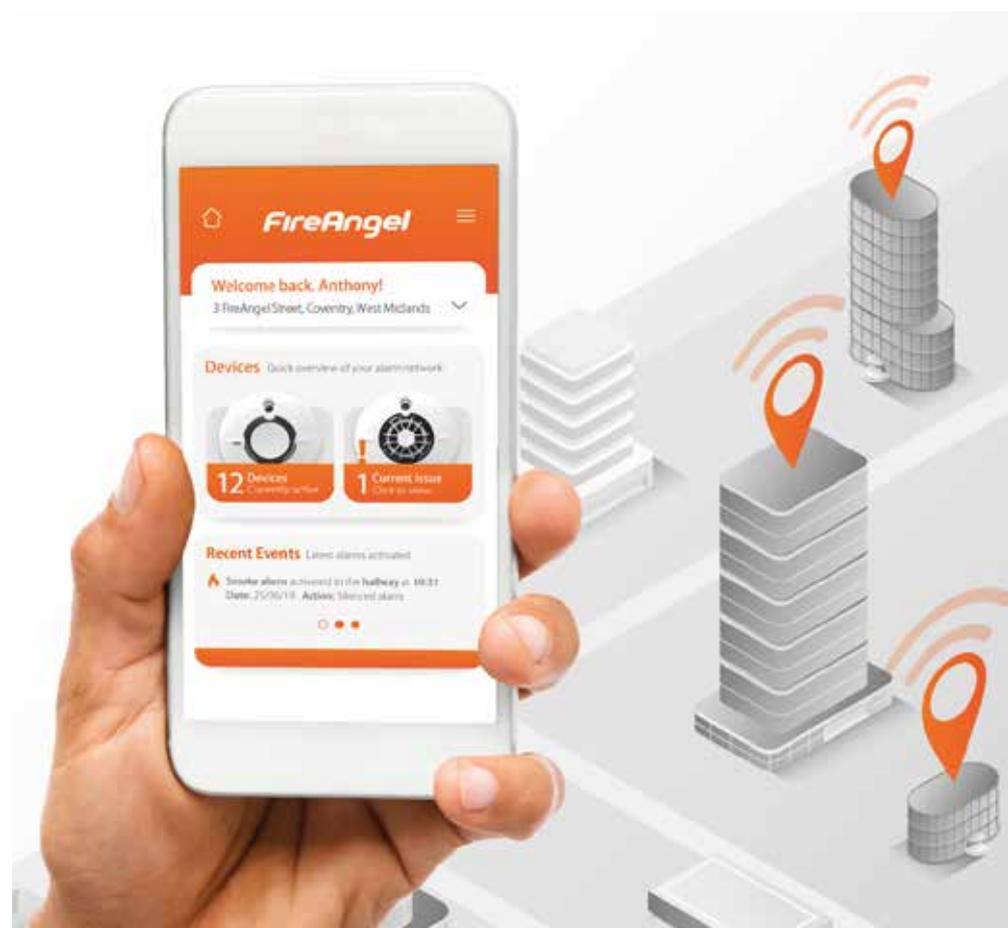
For example, high risk or vulnerable individuals, such as those living alone, anyone hard of hearing or living with dementia, who may leave the hob on after cooking a meal, can be remotely overseen in real time as the connect gateway sends live updates to designated individuals regarding

the status of the smoke, heat and CO alarms installed throughout the property.

By adopting a proactive and connected approach to the fire and CO protection systems being specified across an entire housing portfolio, architects and specifiers can not only ensure social housing providers will be compliant with all current legislations, but sufficiently safeguard their tenants and properties for years to come, and future proof against any upcoming changes to relevant building regulations or changes to an individuals needs.

The adaptable technology also offers the opportunity for professionals to easily upgrade the fire protection systems installed throughout their entire housing stock at a later date, subsequently reducing the potential asset management challenges and associated costs they may have previously experienced.

The remote monitoring capability that connected technologies offer also provide a revolutionary approach to preventative fire safety that delivers the highest standards of protection in the most cost-effective way.



# Providing fire safety protection for Nottingham students

Nittan Europe have been cherry picked to help keep students in Nottingham, England safe and secure, which they are currently doing with their very latest technological advancements

**N**ittan Europe has had its Evolution analogue addressable fire detection system installed into a new student accommodation development in Beeston, Nottingham.

The system was installed by Nottinghamshire based integrated safety and security solutions provider, TIS.

Dagfa House is a unique development of townhouses, clusters and studios adjacent to The University of Nottingham campus.

It provides accommodation to 229 students and a range of leisure and study amenities. At the heart of the development is a Grade two listed building that dates back to the 18th-century and was converted into a school in 1948.

This latest development has been undertaken by the Cassidy Group, which has over 30 years of experience in construction and property.

One of the key fire safety challenges posed by the Dagfa House development was the mix of accommodation blocks, with some being relatively small.

A cost-effective fire detection system was required that could potentially evacuate each site in the event of a fire and that would also be future proof, with spares readily available.

A Nittan Evolution analogue addressable fire alarm system, comprising two individually networked systems, each utilising eight Evolution1 panels and Nittan devices was chosen as the solution.

Chris Mills, Head of Fire Division at TIS explains: "TIS carried out market research of a number of fire alarm manufacturers before finally settling on the Nittan Evolution panel with Nittan devices, which provided a single source approach while providing a cost effective and reliable solution."

Evolution is Nittan's advanced, premium fire system. Evolution uses ASIC technology in the sensors and sophisticated detection algorithms, combining extremely reliable fire detection together with a very high degree of protection against unwanted false alarms.

Its advanced, highly flexible protocol allows for substantial amounts of information to be transmitted at high speed and is not affected by the number of devices on the loop.

At Dagfa House, the Nittan Evolution1 Panel was selected because of its built-in network connectivity, making it extremely cost effective, plus its ease of installation and cause & effect configuration.

For the primary detection in the majority of locations, Nittan's EV-PYS Optical

Detector with built-in sounder was selected for convenience, due to the reduced cost and time required compared to installing separate detectors and sounders, as well as the combined detector/sounder providing a more aesthetically pleasing solution.

In the open areas, such as the cinema room, games room, common room and the communal garden terrace, Nittan EV-HIOP-SB High Output Sounder Beacon VADs were installed.

These devices provide high volume sound, EN 54-23 compliant visual alarm and are waterproofed to IP65, making them suitable for the outdoor areas.

One of the most important devices in any fire alarm system is Manual Call Points, which are strategically located in the Dagfa House development at points of evacuation.

Nittan EV-MCP2-SCI Call Point with built in short circuit isolators were chosen to ensure the loops were adequately protected, so the system remains compliant even under short circuit fault conditions.

Each Call Point was also fitted with a hinged front cover for compliance with BS-5839-1: 2017, the code of practice for designing, installing, commissioning, and maintaining fire detection and alarm systems.

# Channeling a top product into the UK

The SmartCell wireless fire detection platform by EMS has been a huge hit in the global markets and now thanks to Chubb, will also get a chance to shine in the UK

Chubb has been appointed the exclusive UK distributor, installer and service provider of SmartCell, a complete wireless fire detection platform by EMS.

The platform provides customers with smaller commercial sites and properties complete control of their fire safety systems' performance and strategy.

Chubb and EMS are part of Carrier and EMS' new product range, SmartCell, comprises all elements required in a fire safety solution, including an EN-certified control panel, detectors, manual callpoint, sounder (with visual alarm), a dual input/output device and contact transmitter.

Designed with the ability to expand as required, the system can accommodate up to 32 wireless fire and a variety of information devices.

A notable feature of SmartCell, and an innovation in the marketplace, is its built-in communications capability, which not only enables remote diagnostics (to identify and remedy potential issues), but also allows all event notifications to be sent to mobile devices via a dedicated Chubb mobile app.

This enables customers to have total visibility of their fire system performance, anytime and anywhere.

It is also Alarm Receiving Centre (ARC) ready – enabling potential



fire alarms to be remotely monitored by a third party, as well as having the ability not only to monitor fire but also floods and potential issues with heating/cooling systems.

Making maximum use of EMS' technology, a market-leader in wireless and hybrid fire detection systems, Chubb has limited exclusive access to the SmartCell system for four months.

"With integrated signalling and intelligent cloud-based communications and notifications, the system offers users the ultimate convenience in accessing their fire safety information," said Richard Drew, FD&A technical and product manager, Chubb. "Compact and with an aesthetically pleasing design, it is quick and simple to install. Its flexibility makes it a user-friendly, commercially-attractive solution for a wide variety of customers and applications."

Whether as a business owner looking for a complete new system, retrofitting or expanding your existing system, SmartCell offers an easy to install, flexible solution.

Chubb Fire & Security has roots dating back to 1818 and the demand for 'security' resulting from the impact on society of the industrial revolution.

Factory production gave rise to the modern city, and with increased urbanisation came increased crime.

Two enterprising brothers, Charles and Jeremiah Chubb, invented what was called the 'Detector Lock' – the first and original secure lock mechanism whose design and construction has remained largely unchanged for nearly 200 years.

The patented lock was advertised in the 1820s for use on 'iron doors and frames, chests and bookcases' and in the first century of Chubb's existence, more than two and a half million locks were made.

After the invention and patenting of the Detector Lock, Charles Chubb opened a factory in Wolverhampton and concentrated on the manufacture and sale of locks, as well as the development of further security products.

By 1827 Chubb was supplying wrought iron doors, safes and boxes, to order, with locks. In 1835 a patent was taken out for a burglar-resistant safe and by the mid 1840s Chubb had become a household name, even appearing in playbills and popular verses of the time.

As such, Chubb has been protecting people and assets worldwide for 200 years. A global fire safety and security solutions provider, the company work to make the world a safer place by providing end-to-end service to ensure our customer's peace of mind.

# Releasing new innovations despite setbacks

The postponement of INTERSCHUTZ 2020 left many companies unsure as to what to do with their plans, but ZIEGLER have decided to go ahead with their ideas regardless

**D**ue to the rapid spread of coronavirus, the world's leading trade fair INTERSCHUTZ has been postponed to 2021 and naturally, this meant that a number of companies who had things planned for the event, have either had to rush them through or hold off.

However, despite the event being postponed, ZIEGLER are still going to go ahead as planned with their respective launches and what they had planned, with the intention of showing these off at the next INTERSCHUTZ.

The motto, “#whateverthechallenge”, that has been proclaimed for this event however still remains as guiding principle for ZIEGLER. The company now presents the latest innovations in the context of the “Innovation Rollout 2020”.

After the ALPAS of the latest generation has been introduced to the market, the rollout now continues with the presentation of the new operating concept.

## Z-Control – Benchmark among the operating concepts

Z-Control was presented in 2010 at the INTERSCHUTZ in Leipzig. Over the following 10

years, Z-Control has established itself in the market and is now the leading technology in the industry.

Clearly arranged, logical, easy to understand and simple to use even while wearing protective equipment and gloves. These are the demands for operating elements in firefighting vehicles. Z-Control meets them all – without restrictions.

No matter whether adjustably arranged on the vehicles' dashboard or ergonomically positioned as pump control panel: the Z-Control convinces the user with a very clear and user-friendly structure.

On the control panel, the operator has an overview of all functions. Large



“One of the main tasks was the analysis and optimisation of the current user-friendliness.

User surveys, field studies and rapid prototyping were used for this purpose”

buttons allow the easy operation even while wearing gloves. Of course, all other components such as a light mast or generators can be operated via Z-Control as well.

### If the product is already excellent – why is there still room for improvement?

One of ZIEGLER’s promises is the consistent development and improvement of its products.

This presupposes that even successful products and systems have to be questioned and improved constantly. It is very important for ZIEGLER to meet or even exceed the current and future needs and requirements of customers worldwide.

There, ZIEGLER has not even stopped at the proven Z-Control. Nowadays topics such as operating safety and the ease of learning also come into play in the development.

The construction and design team of the ZIEGLER Group has taken Z-Control up to the next level, taking into account practical experience, customer feedback and incorporating the latest trends and technologies.

The development process was accompanied by careful application analyses, operating logics and internal and external test procedures. In several workshops the requirements for a new control concept were developed by taking care of different interest groups.

One of the main tasks was the analysis and optimisation of the current user-

friendliness. User surveys, field studies and rapid prototyping were used for this purpose.

### Exceeding standards – both at home and across the globe

In addition to meeting customer requirements, our main focus was also not only to meet but also to exceed current national and international standards.

For you as user and customer this means that you acquire a tested HMI system that has passed all practical tests with flying colours.

Furthermore, sustainability plays a special role for us. Z-Control can be configured differently at any time as it is exchangeable and expandable.

The modules of Z-Control can be networked with each other as well as with the “operator”, the mission control centre, the fire station and – if desired – with the ZIEGLER Customer Service Center in the future.

Of course, the new Z-Control has some advantages over the previous Z-Control. Which exactly these are, will be clearly shown in the following 10 points:

### 10 good reasons for the new Z-Control:

1. Identical user interface for all vehicles and components of the ZIEGLER Group: for the Ultra Power as well as for the Z-Class, for a standard vehicle as well as for a turret.
2. Safe operation, glove-friendly and

intuitive user guidance (through light color and light animation): only the functions that can be activated will be visible on the interface.

3. Assistance system for warnings, errors, status displays and other information.

4. Training mode possible – the entire system (the vehicle) optionally can be set on training mode and the operator can perform for example a simulated foam application.

5. The housing consists of one shell each (in contrast to two shells before) and are sealed with the operating foil. Therefore the operating units are absolutely waterproof in both vertical and horizontal positions.

6. Maximum flexibility in the combination of functions through modules that can be combined individually in various housings or in operating control panels. These can be used in standard or special vehicles and in the dashboard of the new Z-Class.

7. New series of mobile intelligent control units such as Plug’n’Play or Multi-Connect interfaces are available on products and vehicles in a variety of ways.

8. Ergonomic attachments to ensure that the control unit sits comfortably in the hand.

9. Integrated telematics function for future access to all important data.

10. Flexibly expandable according to customer requirements – if necessary, many functions can be changed, exchanged or added later.

The new Z-Control is available from now on for every type of vehicle and will already be used in the first vehicles, which would originally have been presented at INTERSCHUTZ. Of course, ZIEGLER will also report on the first vehicles with the new Z-Control.

# Producing **aerial fire ladders** for the Polish fire departments

Known all over the world for their fire vehicle expertise, Rosenbauer were recently tasked with strengthening the capabilities of the Polish state fire departments with their aerial ladders

**T**he state fire department of Poland (Panstwowa Straz Pozarna – PSP) ordered 20 Rosenbauer aerial rescue devices at the beginning of March, which will be produced and delivered this year.

The vehicle fleet consists of seven L32A-XS 3.0 aerial ladders and thirteen L42A-XS 3.0 aerial ladders.

The procurement is co-financed by the European Union using funds from the cohesion fund, with the vehicles being stationed at fire departments across 14 of the 16 voivodeships – the top-level administrative divisions of Poland – and are therefore distributed practically throughout the entire country.

## State-of-the-art

Rosenbauer aerial ladders with XS technology are currently one of the best complete package aerial rescue solutions on the market and thanks to their special articulated technology, can be set up in very tight spaces.



The vehicles for Poland are built on MAN two-axle chassis with total weights of 15.5 or 18 tons, respectively.

They are fitted with powder-coated, five-part ladder sets with tiltable cage booms, which can be raised and swivelled fully automatically (CAN bus).

They are equipped with safety platforms and modular equipment compartments. Horizontal and vertical jacking systems, which can be extended up to 4.85 m, ensure a secure footing.

## Multi-functional workstations

The rescue cages act as multi-functional workstations, with power and water connections as well as a removable, remote-controlled water/foam monitor (RM15 with up to 2,000 l/min) for immediate extinguishing assaults.

The cage provides space for five people and has a live load of 500 kg, with a working height of either 32 or 42 meters.

All aerial ladders are fully equipped with LEDs, from front flashing lights, through scene lighting to high-performance headlights on the base ladder section.

In addition, numerous automatic functions make handling the

devices easier, for instance, the ladder set being automatically returned to the stowage position or moved to one of several pre-stored positions (Target Memory System) at the push of a button.

## The Polish fire department

The state fire department is the centrepiece of fire services in Poland. It has more than 500 operational units across the country and employs more than 30,000 professional firefighters.

The network is so effective that the fire departments are able to arrive at the scene of the emergency within 15 minutes in over 90% of all operations.

In addition, the main Polish fire services organisation works very closely with the approximately 15,700 voluntary fire brigades, as well as airport and company fire brigades in the country.

At least 5,100 professional firefighters with around 5,200 vehicles are ready for operation in Poland every day, in addition to the numerous volunteers with around 10,000 vehicles.

Rosenbauer manufacture systems for firefighting and disaster protection and for more than 150 years, the name has stood for significant innovations and ground-breaking technology in the manufacture of firefighting vehicles and extinguishing systems in accordance with European and US standards.

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# Gathering crucial safety information from the skies

Even in lockdown when no-one is outside, it's imperative for emergency responders to get a feel for the area, hence why Estonia have started utilising Frequentis' drones

**E**stonian Air Navigation Services, (EANS) has enlisted the support of unmanned aerial systems (UAS) manufacturer, Thred Systems and safety-critical technology provider, Frequentis, to support Estonian blue-light forces (fire, police and health) with a series of essential drone operations during the COVID-19 lockdown.

The operations are supporting Estonian emergency services with medical transport and information gathering.

Thred Systems, an innovative Estonian UAS manufacturer, was approached by Estonian public health organisations and the Police and Border Guard Board.

Frequentis, a renowned air traffic management (ATM) and unmanned traffic management (UTM) systems provider, who worked with EANS on its SESAR Gulf of Finland (GOF) unmanned airspace (U-space) trial in 2018 and 2019, was contacted to again provide its flight information management system (FIMS) which provides the Common Information Services (CIS) function to the operation.

In several regions of the country, the Police, together with the Estonian Academy of Security Sciences, has used drones to inform the public of the lockdown rules and to monitor activity. Local authorities also require support with transporting medical supplies to remote or island locations.

"Severe movement restrictions were implemented for Hiiumaa with the mainland of Estonia, among other islands, during the lockdown to stop any virus spread", explained Mikk Murumäe, Co-Founder and Lead Software Engineer at Thred Systems.

"Thred Systems set out to support local authorities with medical and other urgent transport to the mainland, including forwarding COVID-19 test samples.

"This served as a very successful proof of concept to provide an alternative and relief to manned emergency airlifting services, which are urgently required elsewhere during these types of situations."

## One airspace for all users

EANS continues to safely and reliably operate Estonian airspace, providing services to manned flights and international manned COVID-19 relief flights, but the need to safely integrate drones for this special mission meant reactivating the Frequentis FIMS from the previous drone trials.

The FIMS provides real-time situational awareness to air traffic controllers, enabling both manned flights and Thred drones to safely share the same airspace, providing controllers with the complete air situation picture.

"We gained extremely positive experience from all parties during the SESAR GOF

U-space trials during 2018 and 2019 and therefore feel very well-prepared to appropriately respond to the challenges during COVID-19 times," noted Maria Tamm, GOF Project Manager for EANS and now UTM development lead in Estonia.

"In order to enable the safe and secure integration of unmanned and manned aviation, all parties who use the airspace, must be aware of each other."

EANS is currently developing the concept of operations for accelerating the roll-out of Estonian U-space.

These drone operations supporting public safety during lockdown were another step closer to outline the roadmap for enabling safe and secure integration of unmanned and manned aviation into Estonian airspace.

"We had experienced the professionalism of EANS and Thred Systems during the GOF demonstration and were pleased to provide enhanced situational awareness for this operation and allow these essential drone flights to take place.", says Hannu Juurakko, Frequentis Vice President ATM Civil and Chairman of the ATM Executive Team.

"The Frequentis FIMS infrastructure uses the Frequentis integration platform MosaiX, and several modules of field-proven ATM-Grade Products, all hosted virtually using a cloud infrastructure in Vienna, Austria."

# Keeping Tennessee safe with nine pumpers

The Dyer County Fire Department in Tennessee, America contacted Pierce Manufacturing in regards to their equipment and ended up the happy owners of nine new pumpers

Pierce Manufacturing have recently announced that it has secured an order for nine pumpers built on a Freightliner chassis from Dyer County Fire Department located in Northwest Tennessee.

Sold through Pierce dealer for Tennessee and Arkansas, Emergency Vehicle Specialists, the order for nine pumpers is the largest in the department's history and will be distributed among each of its nine fire stations to replace aging apparatus.

"Our current fleet of Pierce fire trucks was purchased in 1993 and has served us well," said James Medling, Fire Chief and Emergency Management Director for Dyer County Fire Department. "When considering our needs for new fire apparatus, keeping a 100 percent Pierce fleet was an easy decision.

"We've been impressed with the performance and lifespan of our

Pierce pumpers, as well as the easy accessibility to regional service support."

The Dyer County Fire Department's nine new Pierce Pumpers will feature:

- Freightliner M2-106 commercial chassis
- Cummins 360 hp engine
- Hale 1,250 GPM pump
- 1,000-gallon water tank
- TFT deluge gun
- Dump valve in rear of apparatus
- 1,500-gallon portable tank on the top hose bed

"Particularly in rural communities like many of the ones we serve, trust and longtime relationships are critical elements of our business," said Bob Dudley, sales representative for Emergency Vehicle Specialists and incoming president of the Tennessee Fire Chief's Association. "We've been honoured to support the Dyer County Fire Department for nearly 30 years.

"We are grateful to once again work collaboratively to not only put the best fire trucks into service for the community but also provide expanded service support and parts inventory."

Dyersburg/Dyer County is located 75 miles north of Memphis, Tennessee and is the hub of a 10-county region. The Dyer County Fire Department covers a service area encompassing 550 square miles, 40,000 residents and an extensive manufacturing sector, large agri-business base, and regional shopping mall.

To best serve the department's diverse needs among nine stations, the new Pierce Pumpers will serve dual purposes as both pumpers and tankers.

Additionally, the benefits of selecting Pierce's commercial chassis include an economical and streamlined engineering and production process – which is often an ideal option for rural departments.

Chief Medling continued, "We are grateful to our county commission representatives who were gracious in their support of our new apparatus purchase, as we secured financing through grants for rural communities and low-interest financing through strategic procurement resources.

"They will join us in our celebration, along with the Dyer County community, as we welcome the new pumpers into service with delivery planned to take place in April 2021."



# Celebrating 45 years serving the fire and EMS community

Recently, Leader Emergency Vehicles marked a major milestone as it celebrated 45 years since its inception – meaning 45 years of aiding first responders all across America

Leader Emergency Vehicles (LEV), part of REV Group and a manufacturer of premium fit and finish Type I, Type II and Type III ambulances, is celebrating its 45th year serving the cities and communities in Los Angeles (L.A.) county and throughout California and has appointed Gary DeCosse as the organisation's General Manager.

## Rooted in Southern California

An established California company, Leader began its production of emergency vehicles in South El Monte in 1975. As of today, 95% of Leader's customers are California public and private departments; and 60% of these are in L.A. County.

Leader designs vehicles for the California market, informed by years of collaboration and feedback from the California Fire and EMS community. That tradition of customer engagement includes design reviews, maintenance seminars and product evaluations.

Leader's focus is on quality design and materials which ensure long-lasting, easy to maintain emergency vehicles. Materials are locally sourced from over 100 suppliers based in L.A. County, suppliers with which Leader has long-standing partnerships and represent hundreds of jobs in the community.

Leader's facility spans 100,000 square feet on a two-acre campus,

which includes a complete chassis modification and fab shop, ambulance body repair as well as remounting and reconditioning services.

A team of over 100 employees, many who have been with the company over 30 years, help to design, craft, and deliver the vehicles, as well as service and remount older vehicles so they can continue to serve the needs of their communities.

## Enduring leadership

In shaping the plans for Leader's future, REV Ambulance Group recently promoted Gary DeCosse from Director of Operations to General Manager.

A veteran of the ambulance industry, Gary began his career at Road Rescue, also a subsidiary of REV Group. Gary had graduated with a fine arts degree and Road Rescue was hiring artists to assemble their ambulance interiors.

Following this role, Gary held several positions at the company as Engineering Supervisor, Research and Development Specialist and Sales and Marketing Coordinator.

He moved to Los Angeles and joined Leader as the Operations Manager in 2006. Gary was mentored by Leader's founder Gary Hunter, who started the business with one other employee, hand-crafting van Type II's and modular Type III's.

"Leader has always stood for good people working together to make a great product we are proud to stand behind. We make stunning, highly-crafted ambulances built for resiliency on L.A. roads and highways," said Gary DeCosse, General Manager of Leader. "I'm excited to put Leader on a path that will keep it moving forward for years ahead and maintain its position as an important manufacturer and employer in L.A. County."

## Experts in customisation for today's world

Leader has previously designed ambulances to help support during infectious disease outbreaks such as the Ebola crisis and natural disasters such as Hurricane Katrina, as well as supplying High-Risk Infection Control ambulances for the Los Angeles County Department of Health Services and Norcal Ambulance.

With the ongoing Covid-19 pandemic, Leader will be rolling out an interior package this summer, which includes an anti-microbial coating on every surface.

They are also looking at different coatings and non-porous materials, to further fight Covid-19 and future easily spread viruses. For other specifications, Leader is nimble enough to answer detailed customisation requests that might not be possible with other manufacturers.

# Delivering a critical vehicle for New Hampshire

An E-ONE Bronto Skylift F135RLX was successfully delivered to the Manchester Fire Department in New Hampshire, which has come as a huge boost for the department

**E**-ONE, a subsidiary of REV Group and a leading manufacturer of fire apparatus, is pleased to announce the delivery of an E-ONE Bronto Skylift F135RLX for the Manchester Fire Department in New Hampshire.

This truck features the newest configuration of a Bronto Skylift in North America, the F135RLX, featuring an industry leading 135' of vertical reach.

It also includes an all new platform design that is larger with walk-through front double gates and an integrated front deck for enhanced rescue operations.

Other key features of Manchester's E-ONE Bronto Skylift F135RLX include:

- Articulating boom design with up-and-over rescue capability and below ground level reach of 15'
- Up to 88' of horizontal reach
- Variable jacking (operational envelope will adjust based on the amount each outrigger is extended)
- 1275 lb max platform load (1000 lb personnel plus 275 lb equipment)
- 1250 GPM waterway flow
- E-ONE Cyclone extruded aluminium cab
- Cummins 600 HP X15 engine
- Modular extruded aluminium body
- Enclosed ladder storage for 99' of ground ladders

- 8 kw Harrison hydraulic generator
- AXIS Smart Truck Technology

"The RLX family of aerials is a proven product for Bronto Skylift outside of North America. As done with the F116RLP, we worked closely with Bronto engineering to develop the new F135RLX articulating platform for North American applications," said Joe Hedges, E-ONE Product Manager. "A majority of the collaboration with Bronto centred around designing a versatile platform with a wide walk-through front gate."

This marks the third E-ONE Bronto for Manchester over the last 20 years. And it's the second of two Bronto Skylift aerials recently delivered to E-ONE customers. Miami-Dade Fire Rescue recently took delivery of an E-ONE Bronto F116RLP+, featuring 116' vertical reach, up to 87' horizontal reach, variable jacking, 1500 GPM waterway flow, 2000 GPM pump, 300-gallon water tank and SideStacker hose bed.

E-ONE is a worldwide designer and manufacturer of fire trucks with more than 28,000 vehicles in operation around the world. Headquartered in Ocala, Florida, E-ONE claims to be an industry leader in product innovations, new technologies and exceeding customer expectations.

E-ONE is owned by the REV Group, a manufacturer and

distributor of specialty vehicles and related aftermarket parts and services serving fire and emergency, recreational vehicle, commercial bus and mobility markets worldwide.

REV Group meanwhile are a designer, manufacturer and distributor of specialty vehicles and related aftermarket parts and services. The company serves a diversified customer base, primarily in the United States, through three segments: Fire & Emergency, Commercial and Recreation.

REV Group provide customised vehicle solutions for applications including essential needs (ambulances, fire apparatus, school buses and municipal transit buses), industrial and commercial (terminal trucks, cut-away buses and street sweepers) and consumer leisure (recreational vehicles and 'RVs').

The company's diverse portfolio is made up of well-established principal vehicle brands including many of the most recognisable names within their industry.



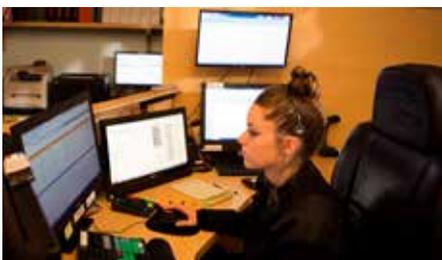
# Helping the nation with additional service

In light of the pandemic, Motorola Solutions have given all first responders a major boost by including three more cloud-based offerings to its CommandCentral software suite

**M**otorola Solutions recently announced the addition of three cloud-based offerings to its CommandCentral software suite: CommandCentral 9-1-1 Smart Transcription, CommandCentral 9-1-1 Citizen Input and PremierOne Cloud CAD.

These offerings provide emergency call handlers and the computer-aided dispatch (CAD) operators who dispatch 9-1-1 calls to police, fire and emergency medical services with the ability to streamline workflows and improve the monitoring and integrity of information in a secure government cloud environment, all while supporting the continuity of public safety operations.

“Our job is about seconds saving lives, and us saving seconds,” said Raymond Chiozza, Director of the Shelby County 9-1-1 District in Memphis, Tenn. “We’ve been a Motorola Solutions’ VESTA 9-1-1 customer for years and its features have helped us to significantly reduce our call times, so when we were asked to participate in a focus group to develop the features and functionality of the company’s cloud-based Smart



Transcription solution, we jumped at the chance to help shape the product.

“It’s exciting because it is a hosted environment, which allows people not tied to the public safety answering point (PSAP) to see inside the PSAP.

“For example, our office of emergency management chief and triage nurse can actually see COVID-19 unfolding on the screen via 9-1-1 calls, as the transcript highlights keywords from callers like ‘Coronavirus’ and ‘shortness of breath.’”

## Specifically, the three new solutions include:

- **CommandCentral 9-1-1 Smart Transcription.** Smart Transcription is a cloud-based service that can be enabled remotely and integrates with existing VESTA 9-1-1 or CallWorks CallStation call handling platforms. It takes the voice audio from a 9-1-1, non-emergency or administrative call and transcribes it in real-time into a searchable text transcript.

This provides a comprehensive way to verify caller information, monitor calls in real-time and store transcripts in CommandCentral Vault for post-call analysis, as well as to maintain the chain of custody of evidence.

- **CommandCentral 9-1-1 Citizen Input.** Citizen Input integrates with existing VESTA 9-1-1 and CallWorks CallStation call handling platforms.

It is a cloud-based service that allows citizens to send live streaming video, photographs and recordings to the PSAP in a controlled, permission-based procedure. The media can optionally be viewed as it is received and is stored in CommandCentral Vault for post-call analysis, as well as to maintain the chain of custody of evidence. The service can be implemented remotely.

- **PremierOne Cloud CAD.** Cloud CAD is a cloud-based service that leverages proven PremierOne CAD technology, tested and trusted by agencies worldwide, to streamline the capture, correlation and real-time distribution of mission-critical information for improved dispatch decision-making and increased responder awareness and safety.

It provides CAD leadership with reporting and the ability to conduct remote monitoring. It also provides agencies the technical capability to establish remote workstations for their dispatchers, consistent with their agency policy and in compliance with Criminal Justice Information Service (CJIS) requirements, governing public safety information and data security.

The new solutions are powered by the CommandCentral Cloud platform and offer customers seamless adoption of next-generation user experiences and end-to-end integrations, all securely enabled and run in the cloud.

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# WHAT'S ON?

Our latest round-up of recommended shows and exhibitions

## September 2020

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**FIREX International**  
8-10 September  
London, England  
[www.firex.co.uk](http://www.firex.co.uk)

**The Emergency Services Show**  
22-23 September  
Birmingham, England  
[www.emergencyuk.com](http://www.emergencyuk.com)

**The Fire Safety Event**  
22-23 September  
Birmingham, England  
[www.firesafetyevent.com](http://www.firesafetyevent.com)

**FeuerTrutz**  
30 September–1 October  
Nuremberg, Germany  
[www.feuertrutz-messe.de](http://www.feuertrutz-messe.de)

## October 2020

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**INTERSCHUTZ USA 2020**  
13-17 October  
Pennsylvania, USA  
[www.interschutzusa.com](http://www.interschutzusa.com)

## January 2021

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**Intersec 2021**  
24-26 January  
Dubai, UAE  
[www.intersec.ae.messefrankfurt.com](http://www.intersec.ae.messefrankfurt.com)

## April 2021

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**FDIC 2021**  
19-24 June  
Indianapolis, USA  
[www.fdic.com](http://www.fdic.com)

## June 2021

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**INTERSCHUTZ**  
14-19 June  
Hannover, Germany  
[www.interschutz.de](http://www.interschutz.de)

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