



scandecon

Fire Service Decontamination Solutions
Backed By Science

VIMPEX

up to

97%

of harmful substances can be
removed from firefighting
equipment and PPE with the correct
handling and cleaning methods*

*When washing with a combination of H₂O
and CO₂ washing at prescribed temperatures/
detergent/rinse programs.

Scandecon - keeping our firefighters safe and healthy by taking a scientific approach to PPE decontamination

Scandecon by VimpeX provides the firefighting industry with detergents, equipment, machinery, know-how and ongoing support to contribute to healthier outcomes for firefighters.

With claims backed by science and years of successful application, products supplied by VimpeX Scandecon are being used to protect thousands of firefighters through effective cleaning and decontamination.



LEJON KEMI
Specialist Detergents



H₂O Washing Machines



CO₂ Washing Machines



Hose Cleaning Machines

Backed By Science

Protecting those that protect us

The International Agency for Research on Cancer, a World Health Organisation body, has declared that firefighting is a 'cancer risk occupation'.

UK Fire and Rescue Services are discovering that adopting an effective cleaning and decontamination process for turnout gear, clothing and equipment plays an extremely important part in keeping firefighters safe from increased risk of cancer, lung and other cardiovascular disease.

Vimpex are dedicated to improving firefighter health through the development of Scandecon - providing specialist detergents, equipment, consultancy and turnkey solutions aimed at improving our firefighters' health.

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No one should get ill from going to work, and firefighters deserve to go home at the end of their shift as safely and healthily as they began it.

”

Fire Brigades Union

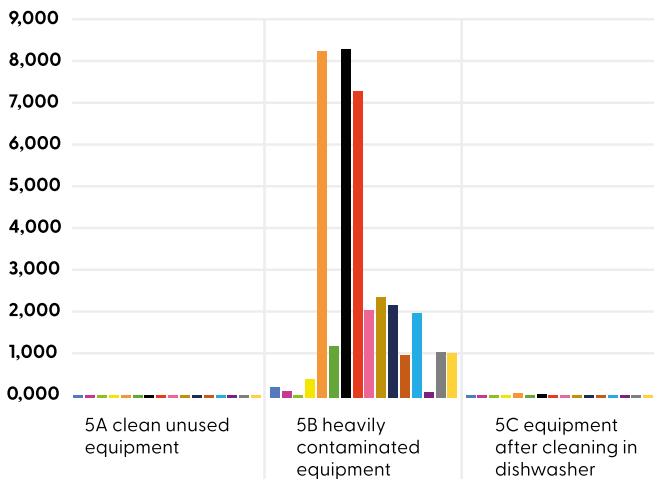
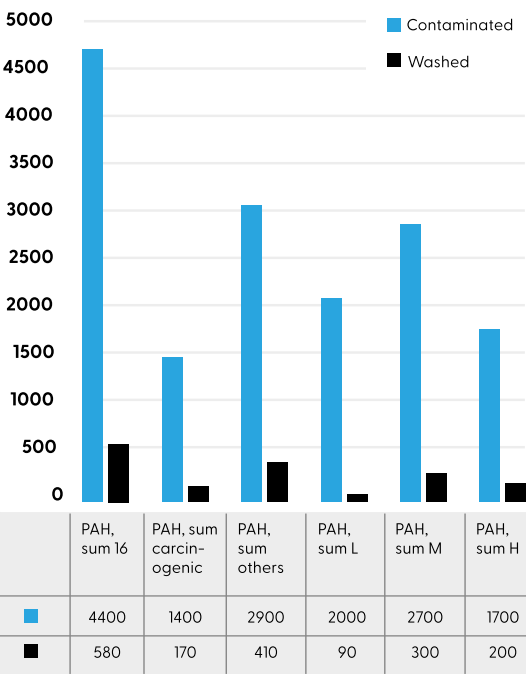
Backed by Science

By using higher temperature water washing, proven detergents and correct machine programming most PAHs (carcinogenic) substances can be removed.

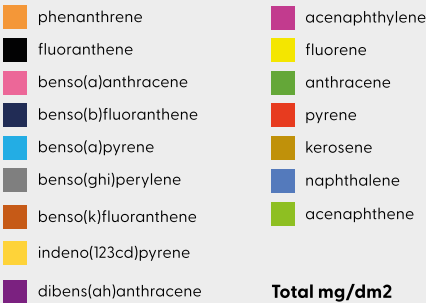
H₂O cleaning should be regarded as a 'system' - with the correct water temperature, specialist detergents and appropriate mechanical agitation and rinsing volumes all playing their part in effective cleaning.

All claims on wash test efficacy are backed by analysis by independently audited and accredited laboratories.

Washing turn out gear with FPG Wash from Lejon Kemi and a specially developed washing programme



Breathing apparatus decontaminated with Lejon Kemi cleaning products and dishwashing programmes.



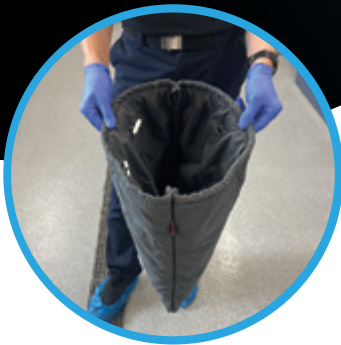
Levels of 16 different PAH on unused, contaminated and pre-treated equipment, and in breathing apparatus washed in a PPE dishwasher

Our Products & Processes

Scandecon can provide full turnkey solutions including advice on decontamination equipment, site survey, machine programming and supply of consumables. Clients can be assured of consistent cleaning outcomes via our Scandecon Service Packages.

40%

Firefighters are up to **40% more likely to contract cancers and lung, vascular and heart diseases** than their demographic. Scandecon is working to improve the health outcome for firefighters via verifiable and repeatable washing processes.



Remove Equipment

All clothing and equipment is placed into soluble or washable bags and placed in designated 'dirty' zone.



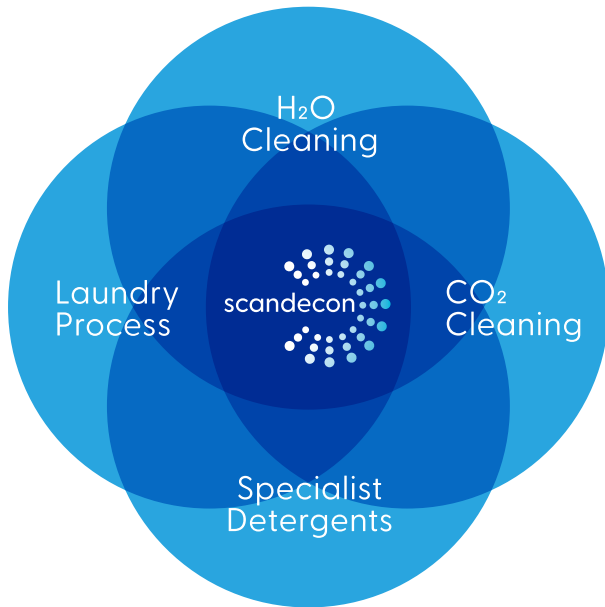
H₂O Washing

Clothing is loaded into washing machines with specialist detergents and controlled programmes to ensure reliable and consistent removal of harmful substances.



CO₂ Washing

Using CO₂ as a supplement to conventional H₂O washing can remove even more carcinogenic contaminants - the low surface tension of CO₂ allows it to reach deeply into suits and flush through membranes.



Scandecon represents the ultimate decontamination process, bringing H₂O and CO₂ cleaning methods together with specialist detergents and laundry rooms set up to deliver the best possible protection to firefighters.



PPE & Hose Cleaning

All PPE equipment including masks, helmets and hoses can be cleaned in our specialist PPE washers & Werma Hose Cleaning Machines.



Detergents

Using the right detergents is a crucial part of the process. Lejon Kemi products are independently verified to be more effective for firefighting equipment decontamination.



Drying & Storage

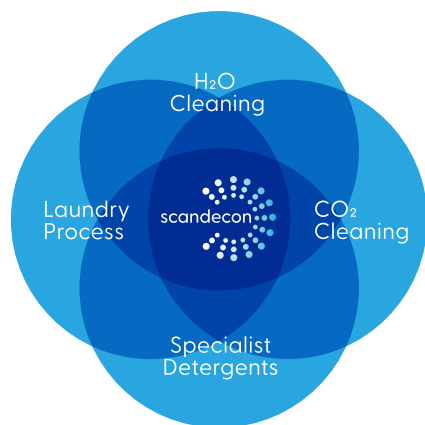
Scandecon provides the full package of drying cupboards, handling equipment and accessories.

LEJON KEMI

Decontamination Detergents

Used by hundreds of fire departments, thousands of firefighters and tens of thousands of pieces of equipment and clothing throughout Scandinavia, The Nordics and wider Europe, Lejon's detergents are specifically developed for the decontamination of firefighting clothing and equipment.

Independent and verified laboratory analysis shows that Lejon detergents produce truly excellent results, removing up to **95% of cancer-causing contaminants**. Tested and approved by independent laboratories in Sweden and Germany, Lejon consistently out-performs competitors in wash tests for both soft clothing and hard materials such as face masks and helmets.



The only detergent
specifically designed
for washing
firefighting gear

Backed By Science



FFE Cleaner

Specially developed for cleaning breathing apparatus and other hardware in PPE dishwashers.



FPG Wash

Excellent results in conventional washing machines for face masks, clothing, gloves and smoke hoods.



SRP Defoamer

Defoaming agent & surface protector agent for use in PPE washers.



Fire Hose Cleaner

An alkaline water-based detergent optimised for soaking fire hoses prior to washing.



SPC Impregnant

PFAS-free, long-acting agent for impregnation & surface protection resistant to water, oil, soot & dirt.



Cleanox

Highly effective disinfectant additive against a wide range of bacteria, fungi & viruses.





H2O Laundry Solutions

Scandecon are Strategic Partners to Electrolux Professional and can therefore supply the full range of laundry solutions to UK Fire Services. We can advise on and supply a full package of PPE washers, washing machines including barrier machines, drying equipment and all accessories. Thanks to our unique partnerships and specialist network, we can provide proven washing programmes with proven and repeatable decontamination outcomes.



Barrier Washers

These machines allow you to optimise your laundry processes. Dirty garments are loaded on one side of the machine, while the clean laundry is safely unloaded in a separate clean area.



Dryers and Drying Cabinets

Drying solutions protect impregnated clothing. Effective drying is vital to ensure full performance post cleaning. Our driers monitor heat, humidity and provide optimum reactivation of surface impregnators.



Personal Protecting Equipment (PPE) Washer

Washes, decontaminates and sanitises PPE including masks, helmets, boots and hoses. Effectively removes oily substances, gas residue, toxins & hazardous substances.

H2O

Vimpex are able to provide precisely designed programmes for the majority of professional washing machine manufacturers including:



Ask us for our support.



CO₂ Washing machines

From the original inventors of CO₂ cleaning technology

Whilst specialist detergents, machine selection and correct programming get most of the grime off firefighting kit, data suggests that by using CO₂ as a supplement to conventional H₂O washing, more contaminants - particularly carcinogenic-harbours oil and grease, polyaromatic compounds and non water-soluble elements - can be removed*.



Cleans all layers of clothing

CO₂ in liquid form acts as a solvent. It is able to penetrate and clean all layers of clothing including breathable membranes.

Kind to clothing

CO₂ is kind to clothing thanks to the reduced need for mechanical agitation.

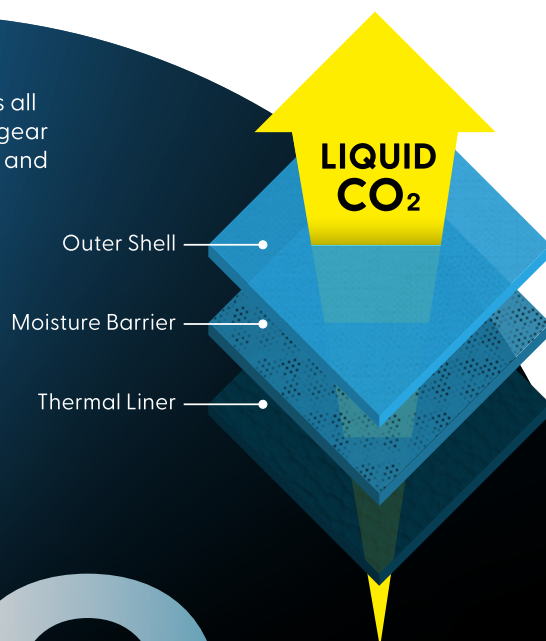
Low temperatures

CO₂ washing is particularly effective for decontaminating equipment and clothing that can't be cleaned above +50°.

CO₂ is recycled

Almost all of the CO₂ is recycled back into the system, leaving contaminants and the used detergents as a small amount of concentrated residue.

Liquid CO₂ cleans all layers of turnout gear without the wear and tear of H₂O



CO₂

* CENTXBEL Report 18.03183.02



Hose Cleaning Machines

Decontamination should be seen holistically and not isolated only to clothing and wearable items. Why grab a dirty contaminated hose having perfectly washed your turnout kit?

As the exclusive UK distributor for Swedish Hose Machines, Werma, we can offer UK fire services full hose cleaning capabilities. Werma's machinery unwinds, scrubs, cleans, tests and dries fire hoses ready for next deployment.

- ✓ **One man operation. Continuously clean up to 14 hose lengths per hour.**
- ✓ **Wash, test, dry and reel fire hoses from 25mm – 76mm up 30 meters in length.**
- ✓ **PLC control with 10" graphic touch screen enables automatic workflow with indication of each cleaning stage.**
- ✓ **Hose pressure testing according to EN norms is carried out with warm water which facilitates the drying process.**



Laundry Solutions

Mobile and Fixed Laundry Supply, Installation and Service

Our vision is to work in partnership with fire services, clothing and PPE manufacturers and existing laundry providers to deliver effective decontamination systems.

Thanks our strategic partnerships, Scandecon can perform site surveys, advise on appropriate equipment, including manual and automatic dosing systems, installation, service and maintenance of your decontamination facilities. Ask us about our semi-permanent or our mobile deployable system concepts.



Decontamination Equipment

Detergents, materials & accessories

From simple spray bottles for manual application of our detergents to dosing pumps and sophisticated machinery, Scandecon can provide fully turnkey packages or just componentry.

Decontamination Options

Accepted and proven wisdom shows that a combination of high temperature water and excellent detergents can deliver extremely good decontamination outcomes.

For those clients wanting an even deeper clean or where clothing and PPE manufacturer specifications require lower temperature washing, CO₂ can provide very effective supplementary decontamination.

H₂O Wash and Protect

Use suitable water temperature and our excellent Lejon detergents to deliver excellent decontamination outcomes.

- ✓ 50-60 degree water delivers the best H₂O results.
- ✓ Our detergents are proven to be the best specialist products available.
- ✓ Scandekon detergents users can access special washing programmes to ensure consistent results.
- ✓ Proven performance from H₂O decontamination system.

CO₂ Clean & Green

Liquid CO₂'s extremely low surface tension allows it to deeply penetrate clothing layers and membranes.

- ✓ Only CO₂ can remove some residual forms of carcinogenic compounds.
- ✓ Environmentally friendly with very little waste residue.
- ✓ Gentle washing process extends clothing life span.
- ✓ SiOX machines are compact, easily installed and supported by Scandekon.

Combined Protection

Habitual H₂O and CO₂ combination cleaning provides the Gold Standard of decontamination.

- ✓ We believe that clothing and PPE should be decontaminated after every carbonatious fire.
- ✓ Use of CO₂ and H₂O delivers optimum outcomes.
- ✓ Consider periodic deep cleaning for affordable CO₂ treatment benefits.
- ✓ Deep clean leather gloves and boots with CO₂ cleaning.

Ask about our mobile CO₂ Decon Unit Concept.

We can deliver CO₂ cleaning capabilities to allow for deep cleaning on a periodic or needs-based basis.



See the process in action

Our networks in Sweden and Europe mean we can provide you and your clients with case studies and project experience from those that have been through the evolution in cleaning and decontamination you are embarking on.

By consulting with our overseas colleagues, we not only learn from their successes but we can benefit from learning from their challenges to accelerate UK Fire Services towards truly effective, provable and repeatable decontamination.

Come and see our processes in action, speak to us about a site visit to one of our European partner sites.



Backed By Science

Vimpex Scandekon – protecting our
firefighters with cleaner, safe to use clothing
and equipment with science-based and
verifiable decontamination solutions.





vimpex.co.uk/scandecon

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