



Van Ginkel Group

YOUR PARTNER FOR TOTAL FIRE PROTECTION



COMPANY

PORTFOLIO

Sprinklerservices Europoort BV
Sprinklerservices Europoort Projecten BV
Van Ginkel Concerns BV
Van Ginkel Concerns Projecten BV
VG Beheer & Onderhoud BV
VG Marine Service BV
NF Industrial Fire Pumps BV

Van Ginkel Group

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// WELCOME TO THE VAN GINKEL GROUP

At first we want to welcome you to the Van Ginkel Group. We hope that through our business portfolio you will get a good impression of our company, our working method and of course the “total solutions” that we can offer you in the field of fire protection, fire-fighting and associated fire / detection systems related service provisions and maintenance.

The company is located in “Vierpolders” near Brielle, a location just a stone’s throw from the **important petrochemical industrial areas** “Rotterdam-Europoort”, the “Maasvlakte” with its tank storages and transshipment companies and also the “Rotterdam-Botlek” area where the important petrochemical industry in the Netherlands.

Because of our unique location, we are regularly to be found in projects where work is being done on important safety related systems for complex petro-chemical industrial installations, such as fire protection and fire-fighting.

In addition to the Rotterdam port area, we work throughout the Netherlands and have carried out a variety of fire protection projects in recent years. Projects from small office buildings, warehouses and parking garages, to large and complex projects such as data centres, complete shopping centres and industrial complexes.

Our approach is that we can offer you the complete package from specifications, plan of approach, engineering up to and including the installation work, supervision, certification and the delivery of the project. After hand over we can offer a complete and certified maintenance of all delivered systems.



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COMPANY

Mission



Nora Ergüven
CEO

Van Ginkel's goal is to make a substantial contribution to the sustain ability of the world in which we live.

To achieve this, we have established our "mission & values" within our company.

This for both our own staff, subcontractors and our suppliers.

Van Ginkel works with sustainable technology wherever possible and thus meets both the needs of the customer and the market, but also that of society and government / regulations.

Our aim is to offer the most economical solution where the burden on the environment will be as low as possible without compromising the quality of the system.

Our values

Driven

Through determination and staying sharp and alert, we are constantly improving our performance and we continue to look for new and innovative but also cost-efficient solutions every day, considering into account a minimal impact on the environment and continuity of the production process.

Concerned

Van Ginkel wants to further contribute to a better world by supplying sustainable technology that actually makes the difference. We can only achieve this through mutual involvement and by keeping an eye on the constantly changing needs of our customers.

Bold

We are full of optimism in the present and use our courage, decisiveness and intelligence to build a better future. In doing so, we do not hesitate to take new paths and test and apply revolutionary technologies and solutions.

Connected

Teamwork is the cornerstone of our success. We help each other and seek each other to share knowledge and maximize the efficiency of our skills.

Mrs. Nora Ergüven
CEO



Proper protection against a possible disaster such as a fire can ensure that the economic damage but also the impact on the environment remains as small as possible.

Passing the earth on to the next generation



// OVERVIEW OF THE Business Units

Within Van Ginkel Group there are various “business units” that work together, where necessary, in close cooperation on projects and maintenance contracts where several specializations come together. Think of a fire detection system with the integration of a sprinkler fire-fighting installation and a sprinkler panel.

The two specializations “fire detection systems” and “sprinkler systems” are each housed in its own business unit, each with its own internal specialists for the various activities such as: project management, project / CAD engineering, calculation, assembly, testing & commissioning and subsequently our service & maintenance specialists.



Sprinklerservices Europoort

The engineering / design, delivery of the components, the assembly, the certification and testing and commissioning of sprinkler installations and gas extinguishing installations are placed with us at “Sprinklerservices Europoort”. For these systems we can execute the complete package from design, certification to delivery to the end customer.



Van Ginkel Concerns

Fire detection and alarm systems, evacuation alarm systems, sprinkler alarm systems, panel construction, but also the provision of training is housed at “Van Ginkel Concerns”. For these systems we can execute the complete package from design, certification to delivery to the end customer.



VG Beheer en Onderhoud

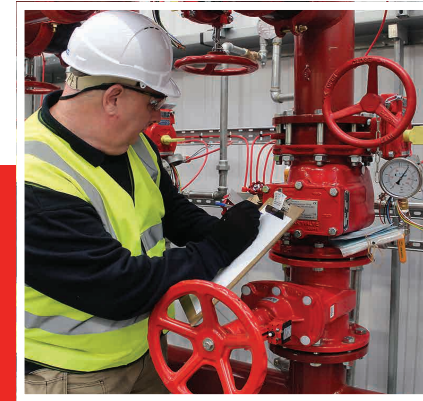
At “VG Beheer en Onderhoud” we have placed the current maintenance contracts for all E-related installations including fire alarm systems, intrusion systems, CCTV systems, evacuation alarm systems as well as Fire Protection systems. Where necessary, we perform certified maintenance on various projects.

Our business units are housed together at 1 central location, which means that internally it is possible to collaborate in a pleasant but particularly efficient way on projects where several different disciplines are working closely together.

Think of integrating a fire alarm system, a sprinkler system together with an evacuation alarm system and gas extinguishing systems and heat line detection systems with an overall graphic management system for visualizing of the several possible alarms.

Among other things, this cooperation has the advantage that the knowledge of the project can be quickly transferred in-house between the departments and this leads to a reduction in the lead time of the project. This also benefits the project budget.

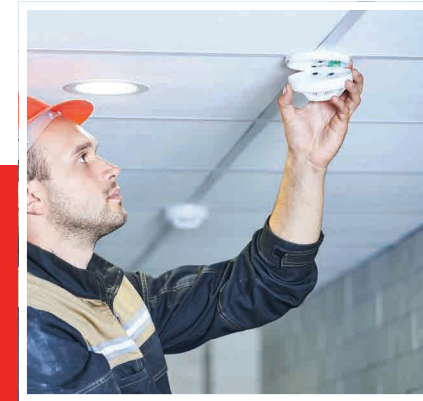
We also strive to appoint 1 dedicated contact person for your questions during the implementation of the project.



Service & Maintenance

Sprinkler Installations / Fire Extinguishing

For Service & Maintenance we have a special team in-house for this work. The reason for this is that the work is particularly specialized. In addition to sprinkler installations, we also maintain foam installations (AFFF), small extinguishing agents, extinguishing gas installations and other related components.



Service & Maintenance

Fire Detection & Evacuation alarm systems

For installations such as Fire alarm detection & Sprinkler alarm systems, we have a service department in-house which provides you with the necessary assistance in the event of an emergency or malfunction.

Our service is available 24 hours a day, 7 days a week.



VG Marine Service

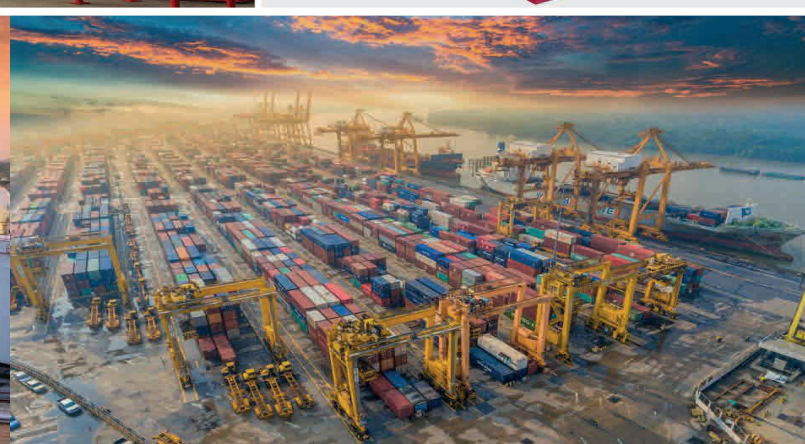
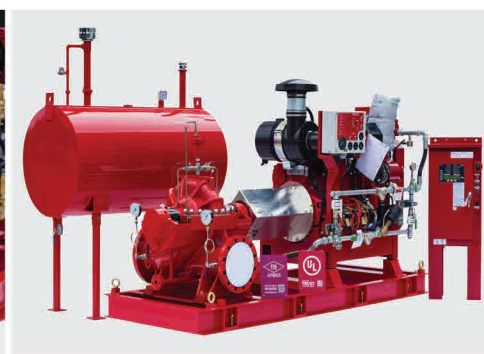
Fire/Gas detection & Extinguishing

For the marine & offshore industry we also have the complete package of fire protection from detection systems to fire extinguishing installations. This for delivery of new built systems, replacement work but also for maintenance and servicing of existing systems.



// Fire Water / Sprinkler pump sets

- Complete Firewater Pump Housings, Fixed installation of pumps or mobile units
- Vertical shaft turbine pumps
- End suction pumps
- Fire Water supply for, i.e. Sprinkler Installation / Fire Protection systems
- Powered by either a Diesel and / or Electric Engine
- Fully certified and 100% tested at factory and workshop
- Can be used for the Petro-chemical industry, Offshore, Utility, Logistics, etc.



NF INDUSTRIAL FIRE PUMPS



EN12845

✓ Engines from renowned manufacturers

✓ Pumps from renowned manufacturers

✓ Control panels from renowned manufacturers

✓ Clients specific (pre-) assembled

✓ Provided with UL and/or FM approvals/certificates

✓ Complies with the EN12845 regulations

✓ For the European market

✓ Short delivery times / competitively priced

// BUSINESS UNIT SPRINKLER SERVICES EUROPOORT



Our “Sprinklerservices Europoort” Business Unit is specialized in the design of Sprinkler systems and Gas extinguishing type of systems. We can perform these installations as a complete package from design and engineering up to and including assembly, certification and delivery.



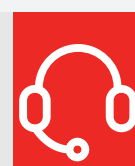
Sustain ability and the environment during the

For “Sprinklerservices Europoort”, the living environment and the environment in which we live are of great importance. That is why we strive for the maximum execution of projects with the smallest possible impact on the living environment and the environment. We hereby pay attention to the prevention of unnecessary waste of materials, energy consumption and all kinds of other forms of environmental stress.



Cost control and monitoring of the project

Cost control and monitoring of a project is of great importance both to you as the customer, but also to ourselves. We aim to execute the projects within the set budgets by regularly checking projects financially for work progress and costs. To guarantee this, we have a sound project management module within our ERP system where the costs are monitored from the start of the project, during the implementation up to and including delivery.



Project ‘Life Cycle’ Management

Within our company we use the four phases of “Project Life Cycle management”.

- First phase for initiating the project
- Second phase for project planning
- Third phase for project implementation
- Fourth phase for the completion of the project.

During these phases, various project tasks are discussed which must be completed at the right moments before the next task can be continued.



Fast response times during the project phase

Our goal is to respond to your questions quickly and adequately. The aim is to respond to your questions where possible within 24 hours (or faster). This ensures open and clear communication during the assignment and implementation phase of the project.

For each project we appoint a project manager as a fixed contact person for you as a customer for all your questions from order up to and including the delivery of the project.

- ✓ Certified KIWA sprinkler installation company
- ✓ Certified KIWA sprinkler maintenance company
- ✓ VCA** Certified
- ✓ ISO9001:2015 / ISO14001 Certified
- ✓ Internal project team experts
- ✓ Complete in-house scope of work
- ✓ Own internal service department

- ✓ Solutions for (Petro) Chemical industry
- ✓ Solutions for Transport and Logistics
- ✓ Solutions for Offices and Utility
- ✓ Solutions for Parking garages
- ✓ Solutions for Public Transport and Tunnels
- ✓ Solutions for Defence and Government
- ✓ Solutions for other industrial applications

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OVERVIEW

Sprinklerservices Europoort BV

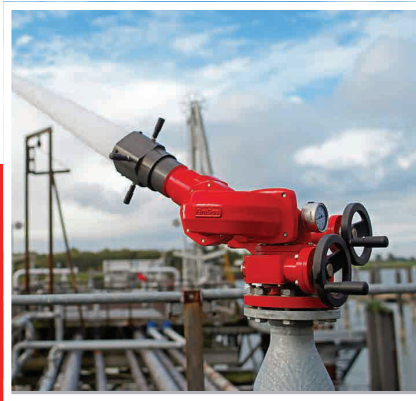
Our business unit “Sprinklerservices Europoort” is a recognized and VBB / KIWA certified sprinkler installation company and sprinkler maintenance company. As a result, we have the knowledge and capacity entirely in our own house to design, supply, assemble, and maintain sprinkler systems in a fully certified manner.

We can supply Sprinkler installations for all common objects from office / residential buildings, parking garages, storage halls, machine halls, waste processing installations, biomass plants, power plants to complex objects within the petrochemical industry.



Sprinkler Installations

- Dry sprinkler systems
- Wet sprinkler systems
- Pre-action sprinkler systems
- Ground pipes
- Deluge / Water mist installations
- Valve houses



Fire water Monitors Foam Systems

- Stationary fire extinguishing monitors
- Mobile / Controllable Fire monitors
- Water / Foam mix monitors
- Proportioners for water / foam
- Foam extinguishing systems



Mobile Emergency Unit / Fire Water Storage for rent

- Mobile (Trailer) & Quickly deployable
 - Internal foam tank('s)
 - Water / Foam monitor
 - Internal water pump & proportioner
 - Fire Water Storage units (each 61 m3)
- These units can also be rented.

In addition to sprinkler systems, we also supply various other types of fire-fighting systems, including foam extinguishing systems and monitors. We can design and deliver these installations as a fixed (object) installation, for example, fuel storage tanks, but also as a mobile installation in a container. This allows the mobile installation to be deployed quickly on locations where it is temporarily needed during major maintenance work at the location concerned.

For fire-fighting in specific areas, such as a server room, LAB, Archive, Telecoms and the like, we design and supply various types of extinguishing gas installations, including Inergen, Novec 1230 and CO2 installations.

Inserting is a unique product and a safe extinguishing method in which a fire can be fought and at the same time the safety of any persons present in the same room is guaranteed.



Hydrants, Valves, Alarm valves, Pumps

- Hydrants for fixed locations
- Alarm valves sprinkler systems
- Section valves sprinkler systems
- Valves
- Sprinkler pumps
- Both for dry and wet systems



Small extinguishers and Powder extinguishers

- Hand powder extinguishers
- Hand foam extinguishers
- Hand CO2 / Gas extinguishers
- Fire blankets
- Mobile powder fire trucks
- Fire hose reels

Extinguishers can also be rented.



Extinguishing Gas System

- Inergen (Inert) Extinguishing gas systems
- Safe, fast and environmentally friendly
- CO2 extinguishing gas systems
- NOVEC1230 Extinguishing gas systems



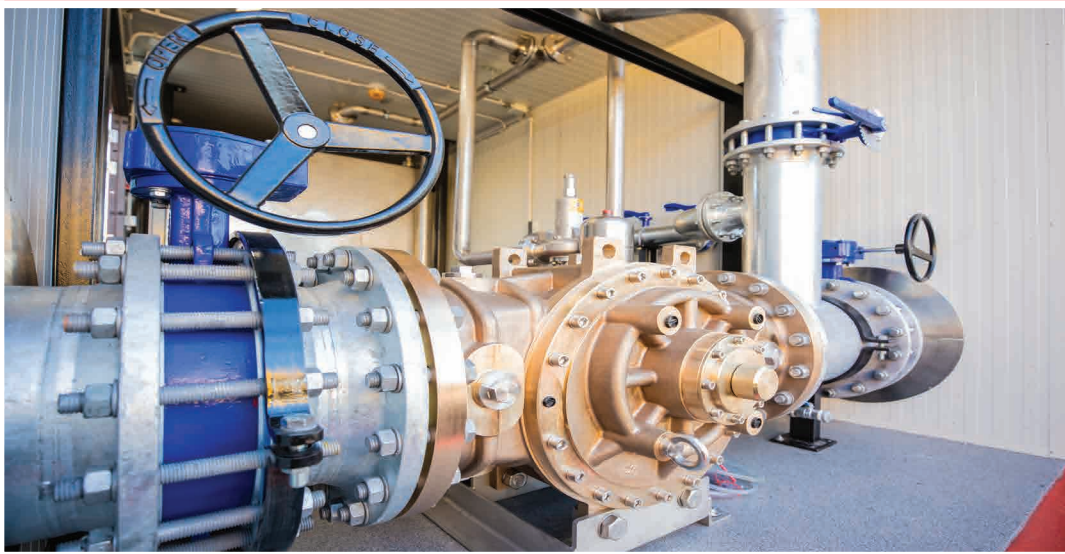
Water / Foam Monitors



Manifolds



Water / Foam Proportioners



Service Works



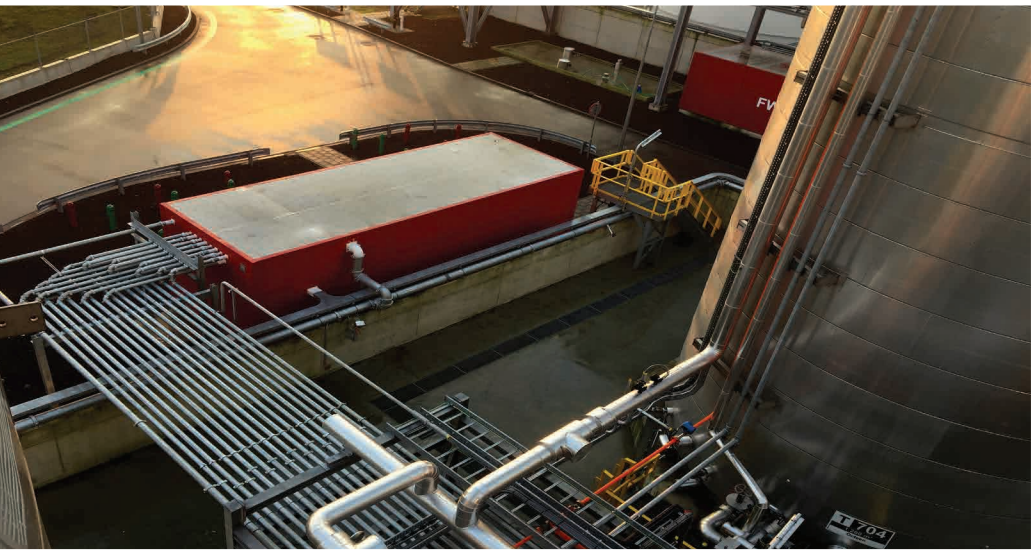
Design / Engineering



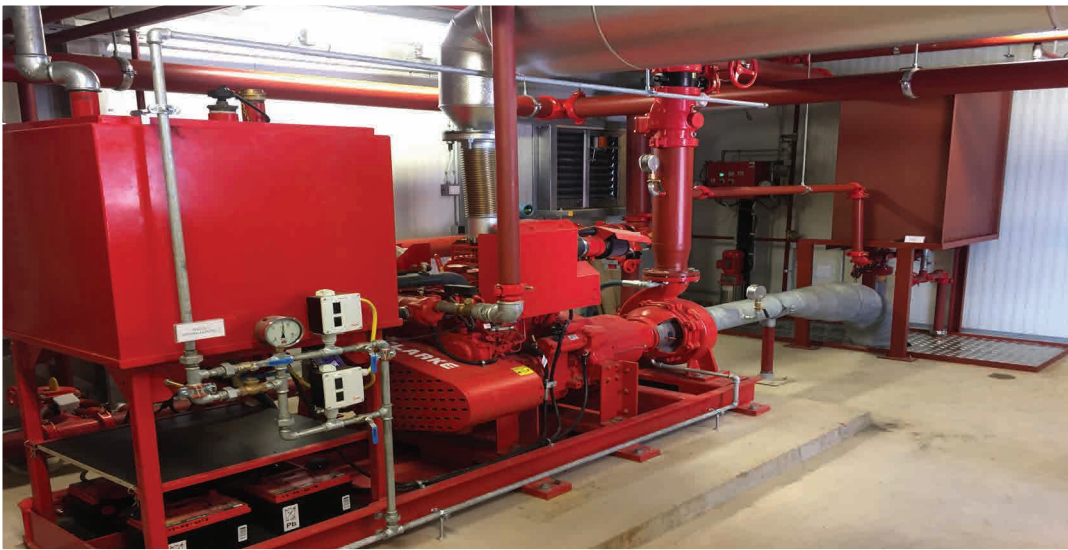
Installation works



Firewater / Pump Housings



Sprinkler Pump Rooms



Fire Water Storage Units





// MOBILE EMERGENCY UNIT FOR TANK STORAGE / PUMP PIT FIRE PROTECTION

The mobile emergency unit is a unique product that we have designed / engineered in-house.

The unit can be quickly deployed for petro-chemical sites and provides excellent fire-fighting with water by adding a foam-forming agent.

Fast and mobile fire protection on location for fire-fighting or protection during (major) maintenance work

The deployment of the mobile emergency fire protection unit is possible in the event of potential (fire) emergencies, or as used by Van Ginkel customers, as a preventative deployment during pre-planned work on fire extinguishing installations for example maintenance, upgrade or modification works.

The unit can take over a complete extinguishing installation or parts of the installation, whether or not temporarily, but also a targeted deployment of the monitor with an increased risk of fire. In joint consultation, a risk analysis is worked out with the customer and the size of the deployment of the Emergency Unit is determined in consultation with the regional government.

An optional integral fire pack in the mobile Emergency Unit provides for its own independent supply of sufficient (unlimited) fire extinguishing water at the location where this is required. The Emergency Unit therefore requires direct access to nearby surface water in the form of, for example, an existing river or water from the port. The unit can handle both fresh water and brackish water.

Key figures of the Emergency Unit



SABO Foam fire extinguishing agents

SABO Foam is one of the market leaders in the field of fire fighting through extinguishing foam concentrates. SABO conducts extensive research and has the technological knowledge that has made it a global player. In the emergency unit we apply the SABO Foam products tailored to the needs.



The Emergency Unit can be deployed quickly

Because the unit is already present at the location and is placed on a trailer / semi-trailer, the unit can be deployed quickly at the right place in the event of an emergency. If desired, the unit can be equipped with its own water suction pump for surface water (fresh or brackish water). In this case, an unlimited amount of water is



The Emergency Unit is a customized product and can be supplied to your custom specific requirements and wishes

Given that every location and package of requirements is different for every customer, the emergency unit is a customized product that can be fully tailored to the possible deployment at your location. This includes connection material / supply lines, self-supplying water supply, pickup trucks for fighting of fire emergencies, etc.



The Emergency Unit can be purchased or possibly rented to you for a short or longer period

The unit can be purchased by you, whereby we can perform the maintenance for you and the foam delivery for you. Of course it is also possible to rent the unit for a shorter period, for example during major maintenance. For a longer period, renting is possible in combination with maintenance.

A brief summary of the benefits and key figures of the emergency fire protection unit include:

- ✓ Very quickly deployable on location with little manpower
- ✓ No suction problems with the water, no heavy connection hoses required
- ✓ No Jetty or scaffolding required
- ✓ Transportable / mobile design on its own permanent trailer
- ✓ Can be started manually and / or auto start via a remote-control room
- ✓ Direct connection extinguishing system capacity from 1,000 lpm to 15,000 lpm
- ✓ Extinguishing medium: water or water with automatic 3% foam admixture
- ✓ Foam available on location according to need, e.g. 12 or 20 m³
- ✓ Steam nozzle throw length approx. 120 m at 10 bar / spray nozzle for water



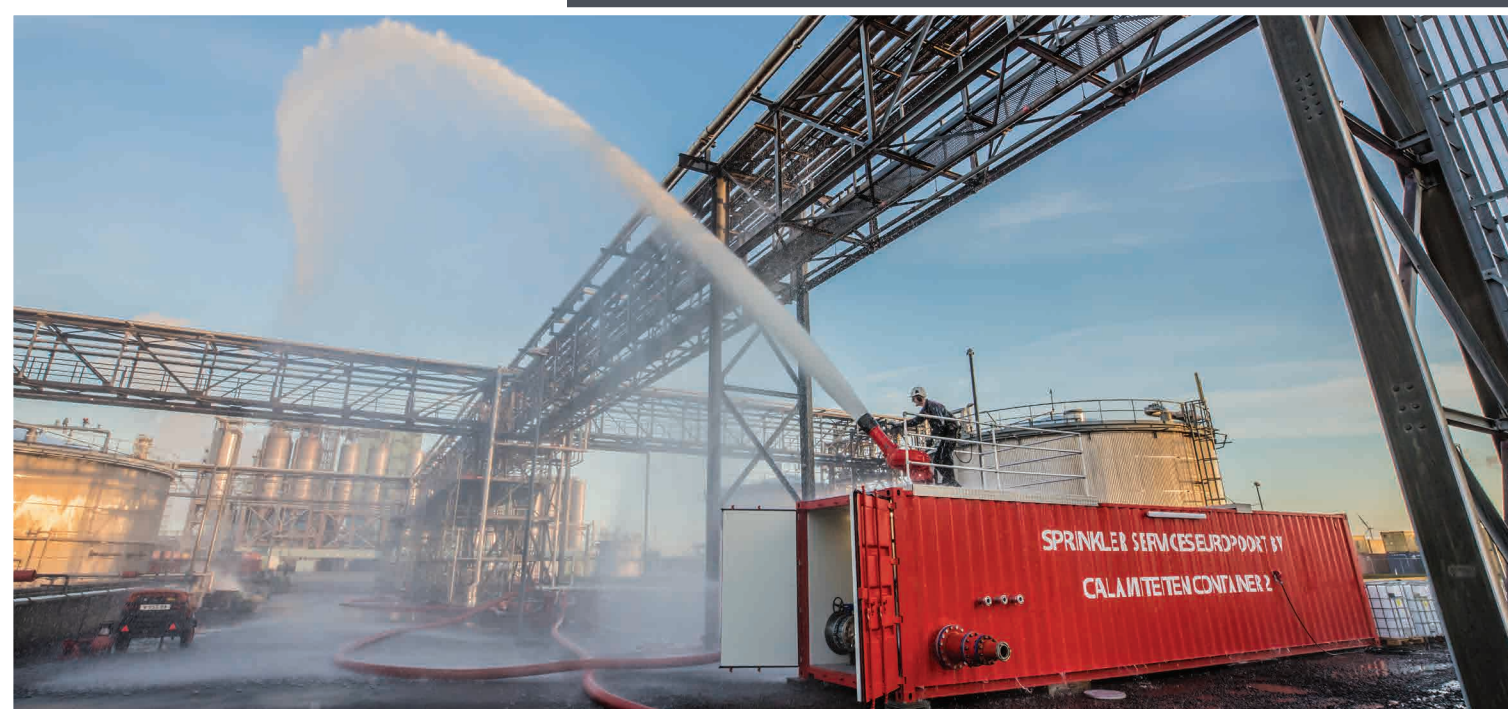
We are the official dealer within the Benelux of the foam-forming agent SABO Foam. Most types of fires from stored fuels can be combated with this type of foam.

We can offer the SABO Foam at very attractive rates and is also quickly available from our own stock.

This allows compliance with the regulations that require that foam be supplemented within 24 hours.

We can also store the foam-forming agent at your location if desired.

SABO FOAM



// COMPACT EMERGENCY UNIT FOR TANK STORAGE / PUMP PIT FIRE PROTECTION

Van Ginkel has designed several different types of compact Emergency Units for Fire Protection applications.

The compact units are specifically for quick and easy deployment during planned site works as maintenance or during an emergency to ensure reducing of the risk hazard and involved costs.

Compact Emergency Units for Fire Protection and Fire Fighting suitable for petrochemical and industrial applications

The compact version of the Emergency Units are pre-assembled units meant for fire protection. Van Ginkel offers several types of units for rental. These units are pre-fabricated to meet with general requirement for fire fighting and include a container sized unit with pre-assembled monitor and where needed a pre-mixing possibility to add foam concentrate to the fire water. If required the monitor can be operated manually (local) or remotely.

If the site's fire water net is not able to provide the required amount of fire water needed for the unit Van Ginkel we also have mobile fire pack pump units with which local surface water can be used this may be sweet or salt based water.

The units are also being sold by Van Ginkel for which the unit will be custom built according the specific client and site requirements.



Key figures of Compact Emergency Unit

- Compact design (equivalent to an 8ft or 10ft container unit)
- Suitable for most project site locations and applications
- Locally manual or Remote operated spray angle horizontal / vertical
- Steam nozzle of Spray nozzle with a very long throw length
- Option to pre-mix fire fighting foam concentrates
- High capacity monitor of up to 20.000 l/min or more
- Optional mobile fire pack (pump) unit available
- The unit can be purchased and will be custom made
- Standard units are also available to be rented / leased
- Suitable for surface water



FireDos®





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FIRE WATER STORAGE UNIT(S)

The mobile Water storage unit is an unique product that we have designed / engineered in-house.

The mobile water storage units can be quickly deployed to locations where a temporarily water storage is needed.

Due to the flexible design several units can be chain connected together to increase storage volume.

TEMPORARILY

Fire Water Storage Unit(s) are multi-purpose and suitable for a wide range of applications and projects.

Depending on used the fire water connection dimensions the available content of the Fire Water Storage Unit varies between 61 m3 (DN250 connection) and 63,7 m3 (DN150 connection). As the units can be daisy chained connected to each other the water storage volume can be increased to the required volume of fire water needed for the project site. The appendages as fire water hoses, connections, flanges, couplings, etc are available for rent as well.

Typical applications of the fire water storage units are:

- Temporarily water storage during an upgrade or a new built of a fixed water storage tank, fixed water storage basement or fixed water reservoir.
- During maintenance or inspection of a fixed water storage tank, fixed water storage basement or fixed water reservoir.
- In addition / combined with our Emergency Fire Water / Foam unit.
- In addition / combined with our Emergency Fire Water / Foam unit and addition of a mobile Fire Water Pump Unit.

Key figures of the Water Storage Unit(s)



Complete temporarily Fire Protection system when combining the Storage Units with the Emergency Fire Unit

Combining our fire water storage unit(s) with the mobile emergency fire protection unit offers a complete manual, semi or full automatic operated fire protection installation depending on clients requirements. Control of the system operated by an autonomous fire detection system based on control panel, detectors and IR flame detectors. Also as an option: Remote 24/7 control & monitoring



Fire Water Storage Units deployed on site within 24hrs/7days

Because we maintain the Fire Water Storage Unit(s) on stock for rent we are able to quickly deploy the units to project sites where they are needed to provide a temporarily water storage facility. In most cases we can deploy and install these units within 24 hours on the project site ready for use. We also rent the required fire water hoses, connections, flanges and other appendages.



The Water Storage Units are designed to be flexible and easily interconnected to increase the storage volume

Given the fact that every project site is different for every customer, the Fire Water Storage Unit(s) will be fully tailored to the possible deployment at your location. This includes all required connection equipment as supply lines, fire water hoses, flanges, couplings, etc. All the required items and parts can be rented from us.



The Water Storage Units can be rented for a short or longer period of time but also they are for sale

The units can be rented for a shorter period, for example during a maintenance. But also they can be rented for a longer period during modification and upgrade works. Renting is also possible in during the maintenance works performed on site by us.

Note: We sell and/or rent out the Water Storage Unit(s).

A brief summary of the main specifications of the Water Storage Unit:

- ✓ Storage Unit outer dimensions: 12200 x 2440 x 2900 mm (single unit)
- ✓ Storage Unit inner dimensions: 12020 x 2270 x 2730 mm (single unit)
- ✓ Inlet / Outlet flange connections: 2x DN250 / 6x DN150 (single unit)
- ✓ The Water Storage Units are Stack able
- ✓ The units are ABS tested / certified
- ✓ Weight: 6500 Kg (Tare) plus weight of the fire water volume (single unit)
- ✓ Water Storage capacity 61 m3 in case of DN250 Connection (single unit example)
- ✓ Water Storage capacity 637 m3 in case of DN150 Connection (10 units example)
- ✓ Flexible / interconnect able design
- ✓ Fire Water Hoses, Couplings, Reducers, Fire Water Pumps units available for rent





// FIXED FIRE WATER STORAGE UNIT(S)

To assure plenty of Fire Water is present on the project site a fixed fire water storage units is essential.

We are able to offer the complete scope from the engineering phase, the supply, the installation works as well as the maintenance services of any fixed Fire Water Storage unit.

Fixed Fire Water Storage Units are available as Fire Water Tanks, Fire Water basements or as Fire Water reservoirs.

Depending on the customer and/or regulation authority requirement the Sprinkler or other water based Fire Protection system may need it's own independent Fire Water storage facility.

We are able to supply different types of Fire Water Storage units depending on the available space on site as well as customer / regulation authority requirements there are several solutions available which we can offer:

- Solid (steel) constructed and efficient storage tanks with in liner for indoor use
- Solid (steel) constructed and efficient storage tanks with in liner for outdoor use
- Basement storage tanks based on concrete
- Solid (concrete) constructed storages
- Water reservoir solutions

The storage facilities are available in different sizes depending on the required

Key figures of fixed Water Storage Unit(s)



Fixed Fire Water Storage Units based on permanent installation on site

The fixed Fire Water Units are meant for permanent installation of the project site. We offer the full scope from site investigation, engineering phase, production, delivery on site, installation as well as the required maintenance for all storage units we are able to supply. The storage units are also including the required product certification in case this is needed for particular project sites.



Fixed Fire Water Storage Units quick design and delivery / installation on site

The Fire Water Storage units are where possible as much as pre fabricated during the production phase. This allows us to shorten the delivery time for the storage unit dramatically. Besides the storage facility we also are able to supply the fire water pump unit(s), manifolds, connection to the fire protection installation, etc.



The Water Storage Units are designed for low maintenance and durability

As the most of the production is pre-fabricated at the factory the quality of the materials and equipment is maintained. Due to this the storage units require low maintenance although the regulations of the local authority and site specific requirements must be followed as well to assure the storage unit stays in proper condition.



Upgrade of an existing Fire Water Storage Units

In case an existing fire water storage unit needs to be replaced by a new unit we can offer for a temporarily fire water storage, fire pump unit as well as fire protection unit in case these are needed for continuity of the works on site. All these are options we can offer in-house to our clients.

A brief summary of the fixed Water Storage Units specifications

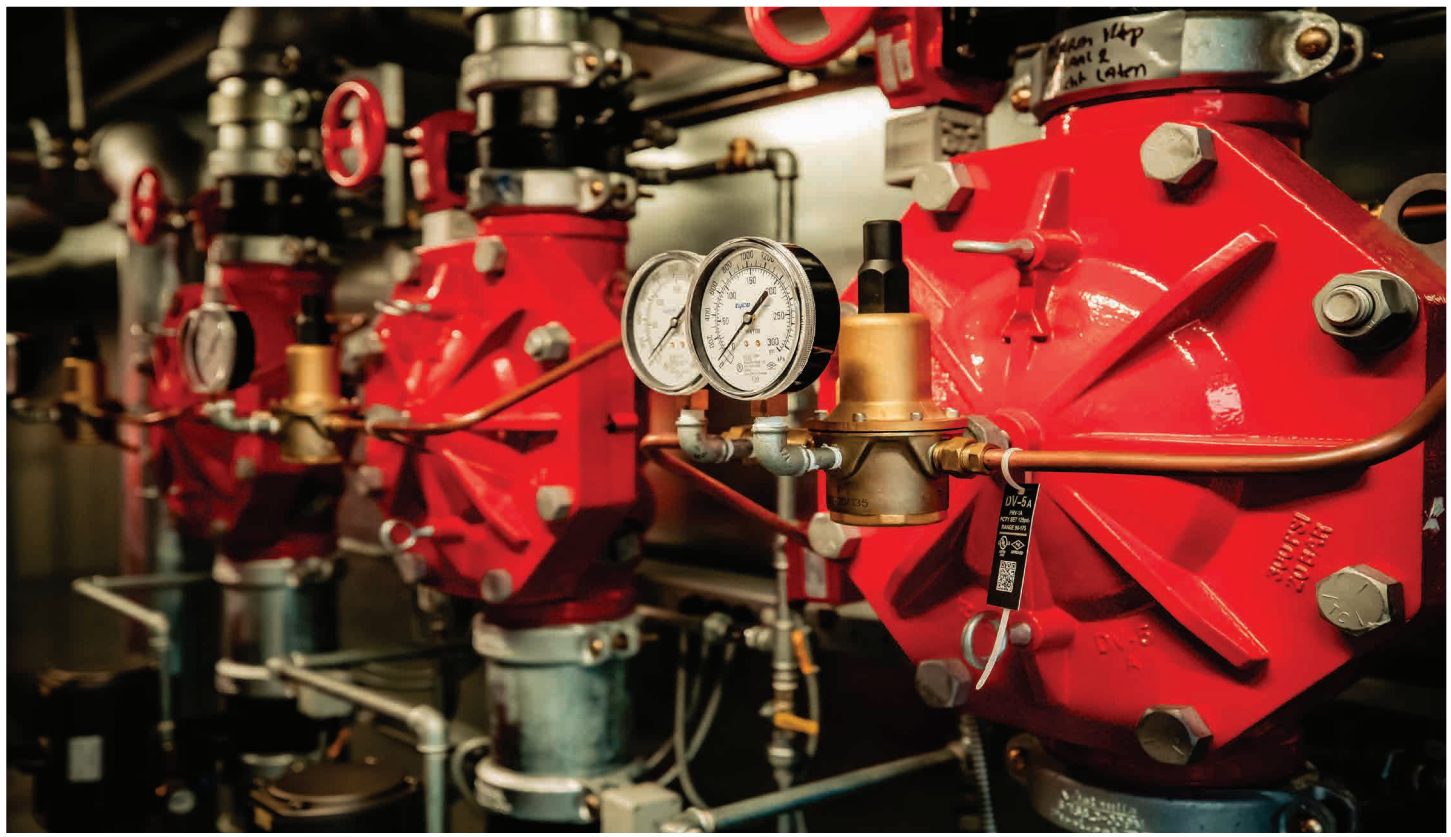
- ✓ *Storage Unit dimensions depend on the required volume*
- ✓ *Segment Tanks based on a steel construction and in liner options*
- ✓ *Indoor as well as Outdoor storage units are available*
- ✓ *If required we can offer frost protection as well*
- ✓ *The units are also available for FM approved or UL certification*
- ✓ *We can also provide a new / refurbished concrete base for the storage unit.*
- ✓ *Connections to existing Fire Protection systems are possible as well*
- ✓ *Storage unit volume measurement*
- ✓ *We also supply concrete based fixed Water Storage Units*
- ✓ *Fire Water Hoses, Couplings, Reducers, Fire Water Pumps units available for rent*



Fire Water Monitor Remote controlled



Fire Water Deluge Valves



Fire Water Valve Houses



Fire Protection Installations



//

HYDRAL NFF 3-3 FIRE FIGHTING
FOAM CONCENTRATE

SABO FOAM HYDRAL NFF 3-3 UL201 offers a newly developed foam concentrate which sets the new high standard for non-fluorinated Class B fire fighting. Produced in equipment fully free from the use of PFAS chemicals.

Complies with the (EU) 2017/1000 on PFOA and (EU) 2019/1021 POPs.

SABO FOAM

HYDRAL NFF 3-3 UL201 Re-defines Performance of Non-Fluorinated Alcohol Resistant Fire fighting Foam Concentrate

For decades Aqueous Film-Forming Foams (AFFFs) containing fluorochemicals have set the performance standard for Class B fire and vapor suppression.

Recently the industry has expanded foam concentrate offerings to include non-fluorinated products for Class B fuel fires, with the demanding challenge of delivering AFFF-like efficacy.

HYDRAL NFF 3-3 UL201 fire fighting foam concentrate is UL listed with various bladder tanks, proportioners, nozzles, and other discharge devices. Consult the UL listing for complete details.

- This foam is well-suited for use in applications such as:
- Municipal and Industrial Response for spill and limited scale Type III hazards
 - Foam systems with Type II discharge devices

UL 162 Test Protocol for Type III Hydrocarbon - Forceful Application	HYDRAL NFF 3-3 UL201 Foam Application Rates lpm/m ² (gpm/ft ²)			
	Hydrocarbon Fuel		Premium Gasoline Fuel	
	Test Rate	Minimum Design Rate	Test Rate	Minimum Design Rate
UL 162 Synthetic Foam Test	2.4 (0.06)	6.5 (0.16)		
UL 162 AFFF Test (Witnessed by Independent 3rd Party)	1.6 (0.04)	4.1 (0.10)	2.4 (0.06)	6.5 (0.16)

Key figures of Hydral NFF 3-3 Foam



Setting a New Standard for Foam Concentrate

HYDRAL NFF 3-3 UL201 foam concentrate has been verified by an independent, 3rd party to achieve control and extinguishment on hydrocarbon fuel fires at the same application rate as a UL 162 listed 3x3 Alcohol Resistant AFFF (AR-AFFF). This NFF concentrate has also been fire tested in accordance with EN 1568:2018 and rated 1A/1A for hydrocarbons, 1A/1A for acetone, and 1B/1A for isopropanol.



A new, non-fluorinated concentrate technology

Effective control and suppression on hydrocarbon fuel fires at expansion ratios as low as 3 to 1 - supporting utilization of standard, non-aspirated nozzles and hand-lines for many applications. Viscosity similar to a quality 3x3 AR-AFFF, enabling application with most properly-calibrated proportioning and discharge response devices and reducing the need for significant hardware changes.



Class-leading and Flexible response

Class-leading, cross-functional performance for fire knock-down and control; long-lasting foam blanket for extended post-extinguishment burnback resistance and vapor suppression. Flexible response with 3% proportioning in fresh, brackish, or salt water for both hydrocarbon and polar solvent Class B hazards.



Industry Leading Performance

The HYDRAL NFF 3-3 UL201 foam concentrate is rated in accordance with the EN1568:2018 standard as follows: Part 1 fulfilled, Part 3 1A/1A, and Part 4 1A/1A for acetone and 1B/1A for isopropanol. Like all non-fluorinated fire fighting foam concentrates, HYDRAL NFF 3-3 UL201 foam concentrate is UL 162 tested and listed as a Synthetic Foam. Per this UL standard, the minimum design application rate for this foam is 6.5 lpm/m2 for Type III hydrocarbon fuel fires.

A brief summary of the main specifications of HYDRAL NFF 3-3:

- ✓ Effective control and suppression on hydrocarbon fuel fires at expansion ratios as low as 3 to 1
- ✓ Use with standard, non-aspirated nozzles and hand lines for many applications
- ✓ Class-leading, cross-functional performance for fire knock-down and control
- ✓ UL listed with various bladder tanks, proportioners, nozzles, etc
- ✓ Compliance with Directives (EU) 2017/1000 PFOA and (EU) 2019/1021 POPs
- ✓ Viscosity similar to a quality 3x3 AR-AFFF, enabling application with most properly calibrated proportioning and discharge response devices
- ✓ Long-lasting foam blanket for extended post-extinguishment burn back resistance and vapor suppressions low as 3 to 1
- ✓ Flexible response with 3% proportioning in fresh, brackish or salt water for both hydrocarbon and polar solvent Class B hazards



In addition to the Synthetic Foam listing, this foam passed - under independent 3rd

party witness - the much more challenging UL 162 Type III test protocol for an AFFF.

This protocol utilizes a foam application test rate of 1.6 lpm/m2, which is 33% less than the application rate for the UL 162 Synthetic Foam test. Under this more challenging protocol, an AFFF with the same demonstrated performance as the NFF 3-3 UL201 foam would attain a minimum application design rate of 4.1 lpm/m2 for all Type III hydrocarbon fuel fires.

PFASfree



// AQUAMIST FIRE EXTINGUISHING SYSTEMS

AquaMist helps to keep people, property and the environment safe with high performance fire protection products.

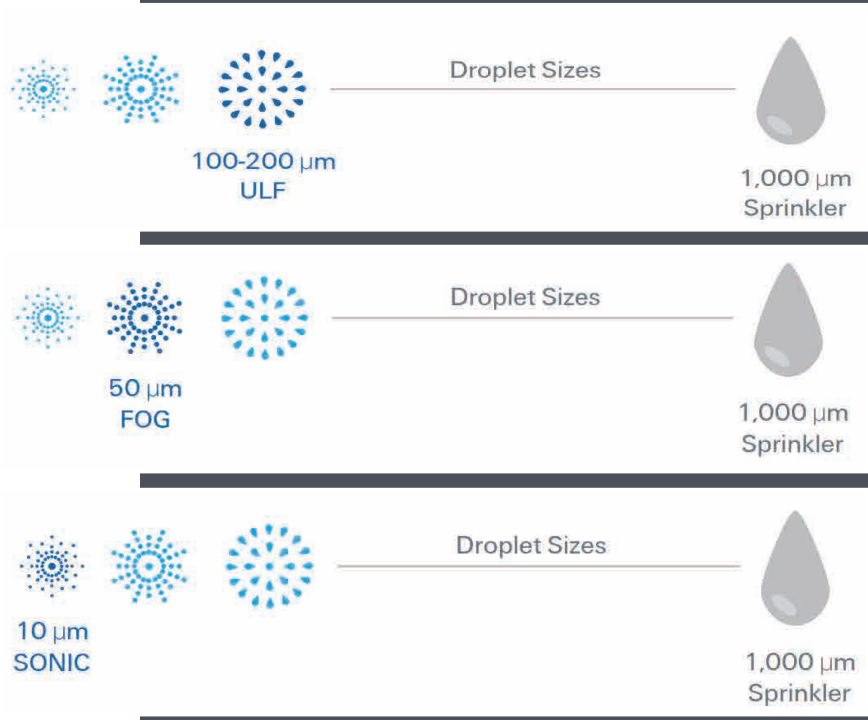
AquaMist offers a broad range of systems to help you find the most suitable fire suppression solution for a wide variety of fire risks.

Reducing fire risks with AquaMist Extinguishing Systems as well reducing the amount of water required

The fine water mist generated is designed to extinguish fires, or limit fire growth at an early stage, depending on the asset being protected.

AquaMist provides effective cooling and fire control on solid, deep-seated fires such as furniture, paper and cables (Class A). On fires such as lubricants or fuels (Class B) or cooking oils (Class F) AquaMist provides complete extinguishment and prevention of re-ignition. In all cases, AquaMist cools the surrounding area, limiting the spread of fire.

The AquaMist system benefits include a reduction of up to five times in the water required (when compared to standard sprinkler systems), while providing a superior fire fighting capability on applicable Class A, B and F fires.



AquaMist fire protection Key Figures



Versatile and highly efficient fire-fighting resource

AquaMist systems offer an innovative and easy to use water-based fire suppression solution which is dependable, safe and carries comprehensive industry approvals. All which have been tested by an independent third party.

Selecting the most appropriate Water Mist solution is not only about extinguishing the fire, it is about protecting the contents of the building and minimizing water damage.



AuqaMist ULF System low pressure Water Mist

Benefits of a low pressure Water Mist system include lower water demands, translating into lower pressure losses, smaller diameter pipes and lower installation costs when compared to traditional sprinkler systems. As the system uses only water without additives, it produces no adverse environmental impact. Working pressure of 7 to 12 Bar.



AuqaMist FOG high pressure Water Mist

AquaMist FOG systems are one of the best options when piping dimensions or pressure losses are critical, for example in applications such as heritage buildings, libraries and archives, where fragile structures require preserving from water damage. Working pressure of 70 to 200 Bar.

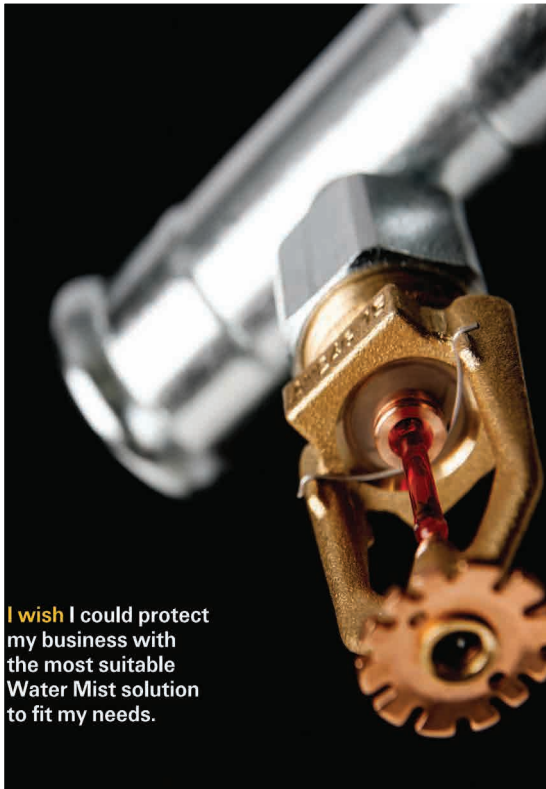


AuqaMist SONIC high pressure Water Mist

The system is fast extinguishing with high-volume, high-velocity discharge which quickly fills spaces. It is also more efficient and uses one-third the water of comparable high pressure systems. As operating pressure is under 8 bar, this proves that one does not need high pressure to generate the smallest droplet sizes. Working pressure of under 8 Bar.

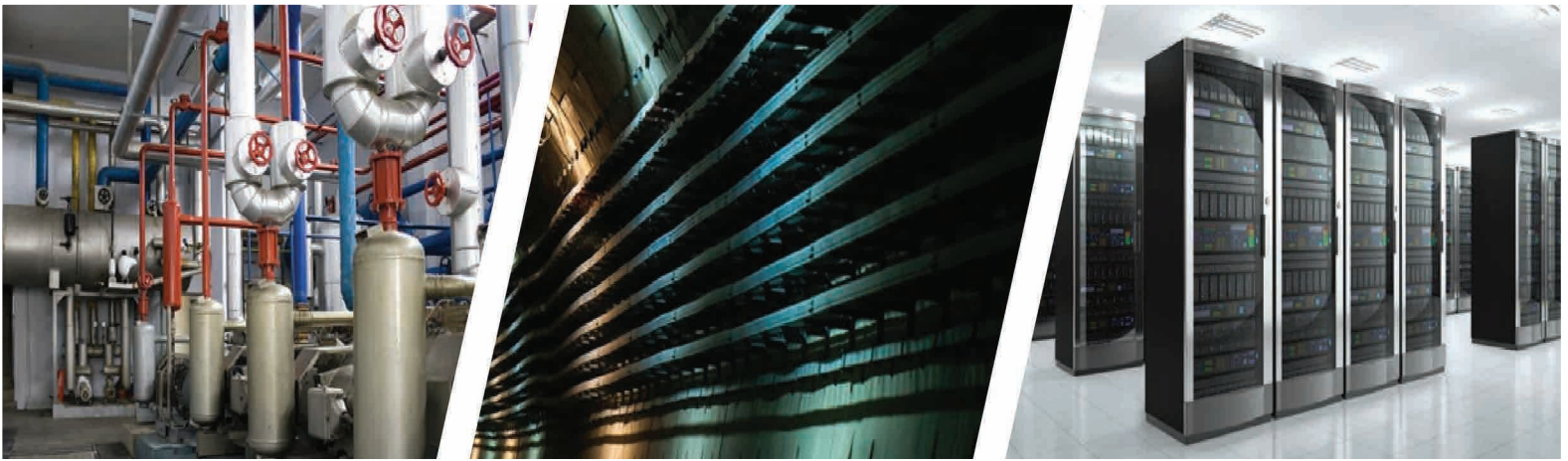
A brief summary of all the benefits and key figures of the AquaMist fire protection systems include:

- ✓ AquaMist offers a broad range of systems to find the best suitable fire protection.
- ✓ AquaMist is designed to extinguish fires, or limit fire growth at an early stage.
- ✓ AquaMist offers a 5 time reduction in water requirement compared to sprinklers.
- ✓ AquaMist systems are a versatile and highly efficient fire-fighting resource.
- ✓ AquaMist systems are water-based, safe and carries industrial approvals.
- ✓ AquaMist offers three different systems: ULF, FOG and SONIC.
- ✓ AquaMist cools the surrounding area, limiting the spread of fire.
- ✓ Suitable for hotels, data centers, heritage, cable tunnels, hospitals, machinery spaces, turbines, libraries, industrial fryers, offices



I wish I could protect my business with the most suitable Water Mist solution to fit my needs.

AquaMist systems are a versatile and highly efficient fire-fighting resource, featuring unique nozzles, which have been designed and rigorously tested to protect against a wide range of fire risks.



// SAPHIRE NOVEC 1230 GAS EXTINGUISHING SYSTEMS

The Sapphire Novec 1230 gas extinguishing system is a new generation of chemical fire extinguishing agent which has been put on the market as a successor to HALON 1301 gas extinguishing systems.

Novec 1230 is colorless and low-odorant liquid stored under pressure in cylinders.

The Novec 1230 System is designed for fire-fighting from liquid burning, gas burning and burning of electrical materials.

The Sapphire Novec 1230 gas extinguishing system includes a complete package of materials including the Novec 1230 gas extinguishing gas and signal red cylinders in various sizes from 8 liters to 180 liters. The Novec extinguishing gas is stored in liquid form under nitrogen pressure in the cylinders.

The Sapphire Novec 1230 is extremely suitable as a gas extinguishing installation for electrical switching rooms, server rooms, data storage rooms, etc. The gas is characterized as a colorless gas with a low odor content and a very high extinguishing speed. If activated, the gas will move within 10 seconds from the cylinder via the extinguishing pipe into the area to be protected and spread through a special nozzle in this area. During the extinguishing, the room will be foggy for a short time. However, this is for a short period so that any personnel still present in the relevant room still have time to leave it. The Novec gas absorbs the source of the fire through a combination of absorbing the heat and chemically influencing the flames. However, the gas will not displace the oxygen present in the space.

Novec 1230 Extinguishing Key Figures



Sapphire Novec 1230 and the environment

The Sapphire Novec 1230 extinguishing gas contains no bromide or chloride and is furthermore not harmful to the Ozone layer. It has also been shown that the gas is less toxic compared to the former HALON 1301 extinguishing gas. Novec 1230 in the atmosphere has a lifespan of 3-5 days, so the impact on climate change is negligible.



Sapphire Novec 1230 and safety

The Novec 1230 extinguishing gas decomposes at a temperature of around 500 °C. This makes it important to avoid contact with constantly warm objects / surfaces. Upon contact of the extinguishing gas with flames, the gas decomposes and forms halogen acids with a sharp odor. Toxicity studies show that toxins released in a fire are more dangerous, including carbon monoxide, smoke & oxygen content.



Sapphire Novec 1230 engineering and design

Sapphire Novec 1230 must be individually designed with suitable cylinder dimensions in accordance with hydraulic calculations which calculate the amount of extinguishing gas required. The parts are tested / suitable for ambient temperatures of 0 to 50 degrees Celsius. Each cylinder has a valve, siphon tube, safety system, pressure gauge.



Sapphire Novec 1230 Room integrity testing

The area to be protected with Sapphire Novec 1230 gas must be tested for leaks by means of a room integrity test. This test is for determining the amount of volume that escapes from the room if the Novec system is activated. This factor partly determines the amount of extinguishing gas that is needed to fight a fire.

A brief summary of the benefits and key figures of the Sapphire Novec 1230 include:

- ✓ Very fast "discharge" of the Sapphire Novec 1230 gas after activation (10 sec.)
- ✓ Sapphire Novec 1230 is colorless
- ✓ Sapphire Novec 1230 has a low odor level
- ✓ Sapphire Novec 1230 does not damage the ozone layer
- ✓ Sapphire Novec 1230 has a low decomposition time in the atmosphere (3-5 days)
- ✓ Sapphire Novec 1230 has a low toxic content compared to Halon 1301
- ✓ Sapphire Novec 1230 gas has little or no influence on climate change
- ✓ Sapphire Novec 1230 rapid extinguishing by absorbing the heat
- ✓ Sapphire Novec 1230 activation options: manual, pneumatic, electric



We are an official dealer within the Netherlands of the Sapphire Novec 1230 gas extinguishing system. This system is extremely suitable for, among other things, the automatic extinguishing of electrical fires in control cabinet spaces, server rooms, data centres. Possibly in combination with a fire detection system for the automatic control of the gas extinguishing system is possible.



// INERGEN INERT TYPE GAS EXTINGUISHING SYSTEMS

The Inergen gas type of extinguishing systems are based on a mixture of 52% nitrogen, 40% argon and 8% CO₂. As soon as Inergen is activated as an extinguishing gas, the gas in the room will react with air there to a mixing ratio of 67,3% nitrogen, 12,5% oxygen, 17% argon and 3,2% CO₂

The extinguishing gas resulting from extinguishing can be called unique. The source of the fire will be extinguished quickly while the environment keeps safe.

No other type of Inert gas has the unique ability to fight a fire quickly and at the same time provide a safe environment for everyone in the protected extinguishing areas by actually reducing the risk of heart problems and reducing blood oxygen supply and mental performance at low maintain oxygen levels.

Just as important, and unlike some chemical gaseous fire-fighting agents, INERGEN® cannot, and could never cause a reaction with a fire that could potentially create extremely harmful and toxic or corrosive by-products.

INERGEN has been widely used for over 16 years as a pre-eminently gaseous fire-fighting agent and is still the longest-standing Halon replacement system on the market to date.

Cost studies have shown that INERGEN cost is competitive compared to the most popular chemical agents on typical systems. INERGEN takes up little valuable floor space, because the cylinders can be placed at a distance from the protected area / space.

Key figures Inergen 300bar Extinguishing



Inergen extinguishing gas and people and the environment

The Inergen extinguishing gas contains no toxic by-products during the extinguishing of a fire which could be caused by the Inergen extinguishing gas. Furthermore, the extinguishing gas is based on types of gases that are naturally inhaled by people. The gas has no influence on climate change or the ozone layer.



Inergen extinguishing gas and safety

The Inergen extinguishing gas is an inert type of gas that works on the basis of displacing oxygen to fight the fire. During a fire-fighting there is no fog that could block escape routes in terms of visibility. The gas furthermore does not affect expensive equipment, artworks and the like which could be present in the space to be extinguished.



Inergen extinguishing gas systems engineering and design

There are various systems based on Inergen extinguishing gas. The premier Inergen 300 bar system for multiple rooms and automatically activated by fire detection. The conventional Inergen 300 bar system for 1 on 1 design. Inergen Direct Orifice which provides direct extinguishing on a mechanical basis. The correct system can be selected depending on the object to be protected.



Inergen extinguishing gas Room integrity testing

The room to be protected with inert gas must be tested for air tightness of the room. Overpressure grilles are required to allow the oxygen present in the room to escape during an extinguishing. The grilles must then be closed for a specific period of time during which the extinguishing is being carried out. We can test the room for the required air integrity through measurements.

A brief summary of the benefits and key figures of the Inergen extinguishing gas systems include:

- ✓ Extinguish very quickly by activating the Inergen gas
- ✓ Different Inergen gas systems, automatic, conventional, 1 on 1
- ✓ Full integration with activation through fire detection is possible
- ✓ Inert extinguishing gas does not damage the ozone layer
- ✓ Inert fire extinguishing gas causes no damage to equipment and the like in the extinguishing area
- ✓ Inergen extinguishing gas has no toxic content compared to Halon 1301
- ✓ Inert gas extinguishing gas has no influence on climate change
- ✓ Inergen extinguishing gas has a quick extinguishing by changing air composition



We are an official dealer of the Inergen gas extinguishing systems in the Netherlands. These systems are extremely suitable for, among other things, the automatic extinguishing of electrical fires in control cabinet spaces, server rooms, data centres. Possibly in combination with a fire detection system for the automatic control of the gas extinguishing system is possible.



// BUSINESS UNIT VAN GINKEL CONCERNS



Our “Van Ginkel Concerns” Business Unit specializes in designing fire alarm systems and evacuation alarms. We can offer these installations as a complete package from the execution of the design / engineering up to and including assembly, installation, certification and delivery.



Sustain ability and environment during project

For “Van Ginkel Concerns”, the living environment and the environment in which we live are of great importance. That is why we strive for the maximum execution of projects with a minimal impact on the living environment and environment. We hereby pay attention to the prevention of unnecessary waste of materials, energy and other forms of environmental stress.



Cost control and monitoring of the project

Cost control and monitoring of a project is of great importance both to you and the customer, but also to ourselves. We aim to execute the projects within the set budgets by regularly checking projects financially for work progress and costs. To guarantee this, we have a sound project management module within our ERP system where the costs are monitored from the start of the project, during the implementation up to and including delivery.



Project ‘Life Cycle’ Management



Within our company we use the four phases of “Project Life Cycle management”.

- First phase for initiating the project
- Second phase for project planning
- Third phase for project implementation
- Fourth phase for the completion of the project.

During these phases, various project tasks are discussed which must be completed at the right moments before the next task can be continued.



Fast response times during the project phase

Our goal is to respond to your questions quickly and adequately. The aim is to respond to your questions where possible within 24 hours (or faster). This ensures open and clear communication during the assignment and implementation phase of the project.

For each project we appoint a project manager as a fixed contact person for you as a customer for all your questions from order up to and including the delivery of the project.

- ✓ Certified Fire Detection company
- ✓ VCA ** Certified
- ✓ ISO9001: 2015 / ISO14001 Certified
- ✓ In-house project team experts
- ✓ Complete scope of execution of work
- ✓ Own service department
- ✓ Official dealer Tyco Fireclass fire alarm systems

- ✓ Solutions for the (Petro) Chemical industry
- ✓ Solutions for Transport and Logistics
- ✓ Solutions for Offices and Utility
- ✓ Solutions for Parking Garages
- ✓ Solutions for Public Transport and Tunnels
- ✓ Solutions for Defence and Government
- ✓ Solutions for other industrial applications

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OVERVIEW

Van Ginkel Concerns BV

Within "Van Ginkel Concerns" are the specialists who deal with the various electronic fire protection systems on a daily basis for projects in the utility, (petrochemical) industry, parking garages, offices, etc.

Possible installations that we can offer include:

- Fire alarm installations (including: Fireclass, Protec, Kentec and both addressable and conventional, wired / wireless)
- Evacuation of alarm system (integration with the fire alarm system is possible from alarm providers to spoken word)
- Sprinkler alarm panels (for reading in the status reports and controlling the sprinkler system)
- Smoke aspiration systems (highly sensitive smoke detection for server rooms, atrium, control rooms)
- Heat line & List systems (both linear heat line detection to highly sensitive and addressable heat detection on a fibre-optic basis)
- Graphic systems (complete range of LED mimics, remote panels to complete digital graphic panels)



Fire alarm installations, Evacuation alarm systems

We have in-depth knowledge of different brands of fire alarm systems. Among others: Tyco Fire Class, Kentec, Protec, Argus, Signalco PBS, Fast2000. We supply conventional systems for small applications and complex systems based on addressed detectors & modules. Both wired and wireless.



Sprinkler alarm Panels

For a complete overview of the status of a complex sprinkler extinguishing installation, we supply sprinkler alarm panels. The statuses of the alarm valves, section valves, etc are read in and displayed. Automatic controls are also possible. The system is completely tailor/custom made.



Smoke aspiration systems, Heat detection systems

Specific applications such as server rooms, control rooms, a high atrium, tunnels, etc. require a special approach to fire detection. For this we supply highly sensitive smoke suction / aspiration systems, but also heat line detection systems. Integration in a fire alarm system is possible.

For your project we can offer you the complete package to completely relieve you.

From design phase up to and including delivery to the end user, we can offer you our services such as specifications, PVE (program of Requirements), (pre)engineering, design & CAD drawing works, project management, implementation & installation up to commissioning & delivery to the end user.

After the successful completion of the project, we can also offer a complete program of training for the managers of the installation('s).

We also offer a complete package of service & maintenance for the delivered installation('s), with or without connection to the control room for quick follow-up of alarm messages and quick availability of a service engineer.



Mimic & Graphic panels, Networking & Visualisation

Mimic and Graphic panels provide a reliable and quick overview of the status of the fire alarm system. These panels (up to and including completely digital panels) are completely customized for the project.

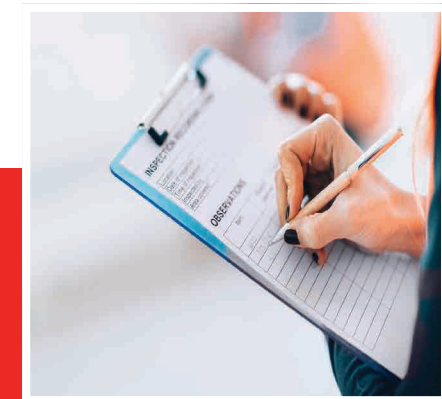
We also offer solutions for bringing the installations together in a copper or fibre optic network.



Sound levels, Test Fires, Door fan ventilation testing

Within our organization we have in-house specialists for conducting system testing:

- Test Fires (burn)
- Noise measurements (evacuation alarm)
- Air tightness testing of spaces



System Inspections & Certification

As a certified fire detection company, we can deliver our installations fully certified.

We also have the in-house knowledge for conducting inspections of the installations, re-inspecting and re-certifying the installations.





FIRE ALARM & DETECTION SYSTEM

TYCO FIRECLASS

The Fire Class product range is composed of a wide variety of products including panels, detectors but also accessories.

In terms of panels, there are conventional and addressable panels, but there are also control panels for extinguishing alarm systems.

Fire Class is a revolutionary new class of commercial fire detection products. With an extensive range of fully approved quality products designed and manufactured in Europe, Fire Class is designed to appeal to both the end user and the installer. It is the latest technology for fire detection, packaged as an easy-to-install, ready-to-use, digital open protocol solution. Designed and developed in Europe.

Our team of expert engineers and designers has a wide range of environments for fire detection solutions, from simple conventional systems to complex integrated systems for heavy industrial applications.

Expertise has been responsible for innovative solutions in recent years, including the first carbon monoxide fire detection technology for commercial environments and triple sensing technology. This expertise that has now been applied to Fire Class technology to offer you Fire Class - a new class of fire detection solutions designed to meet all your needs with a single supplier.

The Fire Class range includes conventional, addressable, gas detection control panels with a range of additional accessories, including detectors, signal devices, manual fire alarms and call points.



Tyco Fire Class key figures



Fire Class includes a wide range of certified products

The Fire Class products are tested and certified to be used in fire detection systems. The products are entirely designed and manufactured in Europe. New products are regularly added to the range, which guarantees technological progress.



Fire Class is a product developed for the installer and end user

Fire Class products have been developed with an eye for the installer. The products are therefore easy and quick to install at the project. This prevents unnecessary delays during project implementation because unnecessary complex issues can be prevented.



Fire Class includes an extensive range of products

The Fire Class range of products includes: fire panels, smoke detectors, multi-sensor detectors, heat detectors, manual fire detectors, alarm devices and side panels both conventional and addressable. We also have a range of Beam smoke detectors, smoke aspiration systems, test equipment, etc.



Fire Class design and engineer

We can design the complete Fire Class fire alarm and alarm system for you on the basis of the specifications, plan of requirements and applicable regulations. We have a fire detection solution for every application.

Fire Class fire alarm systems have a wide range of applications including:

- ✓ Care centers
- ✓ Retail applications such as shopping centres
- ✓ Schools of primary schools and with complete campus
- ✓ Healthcare institutions, hospitals, medical centers
- ✓ Hotels
- ✓ Utility such as offices, service centers, call centers
- ✓ Warehouse, Storage and Assembly / Manufacturing
- ✓ Heavy industry such as the Petrochemical industry
- ✓ Data centres



We are the official distributor within the Netherlands of the Tyco Fire Class fire alarm system.

Within the Fire Class product group there are various solutions for conventional systems for the smaller applications and the addressable systems for the large and complex applications.

Van Ginkel Concerns can provide you with the complete package, from design, engineering, drawing, execution and installation to commissioning and delivery of the system.



// FIRE DETECTION SYSTEM VESDA SMOKE ASPIRATION

The VESDA (Very Early Smoke Detection and Aspiration system) is a highly sensitive smoke detection system. The system comprises a smoke suction unit equipped with a laser smoke analyzer / detector which draws air from the protected objects or rooms by means of a permanently installed sampling tube network.

Vesda is one of the pioneers in the field of the highly sensitive smoke detection system based on smoke extraction in combination with a laser smoke detector. The system is characterized by the extremely fast and effective detection of smoke that arises in a fire. This allows the system to generate an alarm message at a very early stage.

A smoke aspiration system is made up of a central smoke detector that contains the smoke suction, smoke detector and I / O electronics for the alarms. In addition to the detector, a network of smoke suction tubing is required.

Depending on the detector type, this can be 1 tube, but possibly also several tubes where necessary. These tubes ensure that an object or possibly several objects can be monitored in the relevant room. This can be in the form of room monitoring, but also in the form of pure object protection of, for example, switch boxes or a combination of both.

The system is extremely suitable for fire detection in:

- Server / data spaces
- Difficult spaces such as a high atrium in a building
- Spaces where hidden detection is needed (aesthetic)
- Spaces where normal smoke detectors cannot function properly

Key figures Vesda smoke detection



The Vesda systems have various certificates

The Vesda products are tested and certified to be used as part of a fire detection system. The products are designed in Europe. New products are regularly added to the range, which guarantees technological progress.



A Vesda smoke aspiration system is a system that must be designed by trained engineers

Vesda products are special products in which engineering plays an important role. The system must be designed for a specific application. With the help of special design software, the system can be designed in advance of the installation and you can see in advance whether the system can function properly after installation.



Vesda comprises an extensive range of products

The Vesda range of products includes: smoke detectors, tubes / pipes, bends, suction points, both standalone and networked. In addition, we have solutions for spaces / objects in the range where ordinary fire detection is not applicable or cannot detect smoke quickly enough.



Design and engineer of Vesda smoke detection systems

We can design the complete Vesda smoke aspiration system for you based on the specifications, plan of requirements and the applicable regulations. For almost every application we have a solution in the field of aspiration fire detection.

The Vesda smoke aspiration product range includes an extensive range of detectors and accessories:

- ✓ Various Vesda detectors, stand-alone, network, 1 or more channels, ATEX, etc
- ✓ Integration possible in existing fire alarm systems
- ✓ Large range of pipes, bends, couplings, mounting brackets, etc
- ✓ Different smoke extraction points, concealed, surface mounted, cabinet mounting, etc
- ✓ Complete package of engineering software for system design
- ✓ Possibilities to combine with extinguishing gas installations
- ✓ Also available in a waterproof IP66 housing
- ✓ In addition to low-cost detectors, there are also extensive more channel detectors



We are a dealer within the Netherlands for Vesda aspiration systems.

Our engineers, commissioners and service engineers are trained to design, commission and maintain aspiration smoke detection systems. This allows us to optimally design and maintain the system for you.

Van Ginkel Concerns can supply you with the complete package, from design, engineering, drawing, execution of work and assembly to commissioning and delivery of the system.

VESDA®



// HEAT LINE DETECTION SYSTEM LIST THERMAL SENSOR CABLES

The LIST Sensor cable system is a very high-quality and fully programmable heat line detection system. The system comprises a fully closed sensor cable which is equipped with thermal sensors in combination with addressing modules. The temperatures are requested through a control unit.

The control unit of the cable which periodically requests the various measured temperatures measured by the various heat sensors in the sensor cable are also compared with previous measurements. For example, fire development is observed at an early stage based on the temperature rise('s). In addition to this thermo-differential measurement, the system also has a maximum measurement whereby, despite a very slowly rising temperature, the system will still generate an alarm at a certain (programmable) moment as soon as the maximum value is exceeded.

The sensor cable looks like normal cabling and is therefore very suitable for installation in public places.

The system is extremely suitable for fire detection in:

- Parking garages both private garages and public garages
- Cable Trays for early detection of electrical fires
- Food industry, hygienic areas, fridge / freezer areas
- Industry / Dirty & Polluted environments including production/assembly lines
- Tunnels for cars, bicycles, pedestrians, metro and stations
- Windmills (shafts, cabling, generator) / Solar panels
- ATEX Explosive environments (zone 2 + 22 areas)

LIST SENSORKABEL

Key numbers List Sensor cable



The List Sensor cable systems have various certificates

The List Sensor cable products are tested and certified to be used as part of a fire detection system. The products are designed in Europe. The system has a VdS certificate, EN54-5 and can therefore be used in certified fire detection systems.



The List Sensor cable system is a system that must be designed by trained engineers

List products are special products in which engineering plays an important role. The system must be designed for a specific application. With the help of special design software, the system can be designed in advance of the installation and you can see in advance whether the system can function properly after installation.



The List Sensor cable system includes a range of different for various applications

The List Sensor cable system includes various products and control units for the various applications. As for ATEX explosion hazardous environments, special product variants are available that meet the product requirements set for equipment used in ATEX zone 2 (+22).



Design and engineering of the List Sensor cable systems

We can design the complete List thermal Sensor cable system for you based on the specifications, plan of requirements and applicable regulations. For almost every application we have a solution available in the field of heat line detection systems.

The List Sensor cable product range includes an extensive range of detectors and accessories:

- ✓ Fully waterproof sensor cable types, different sensor distances
- ✓ Full integration possible in the existing fire alarm systems
- ✓ System is insensitive to dust / smoke, makes it suitable for dirty environments
- ✓ Sensor cable for use in public spaces, looks like normal cabling
- ✓ Very low risk of unwanted alarms even in polluting rooms
- ✓ Control unit can be placed outside the detection area
- ✓ Also available in an ATEX version for EX Zone 2 (+22)
- ✓ Sensor distances available optionally 1, 2, 3, 4 or 5 meters
- ✓ Programmable system, localization of fire alarm is possible



EN54-5



VdS



We are a dealer within the Netherlands for List Sensor cable systems.

Our engineers, commissioners and service engineers are trained to design, commission and maintain these systems. This allows us to optimally design and maintain the system for you.

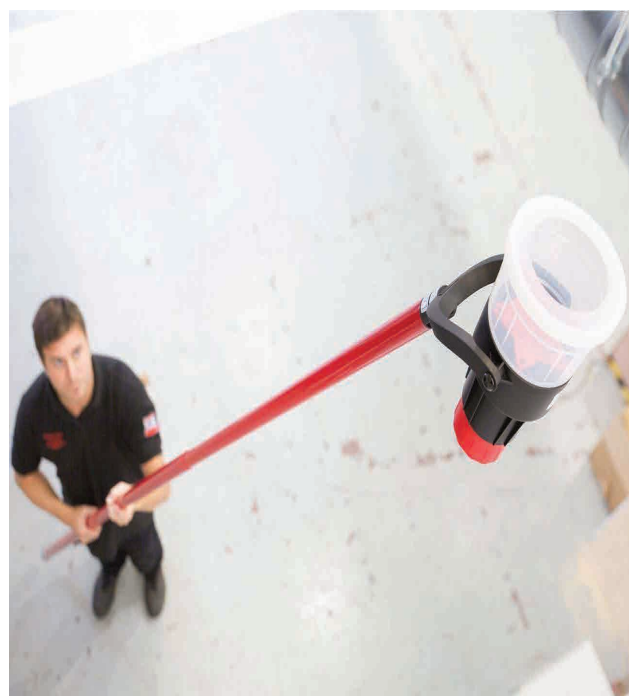
Van Ginkel Concerns can supply you with the complete package, from design, engineering, drawing, execution of work and assembly to commissioning and delivery of the system.

LISTEC
Lineare Sensor Technik

//

BUSINESS UNIT

VG BEHEER & ONDERHOUD



Our “VG Beheer en Onderhoud BV” Business Unit specializes in maintaining fire alarm and evacuation alarm systems. We also maintain sprinkler systems for the entire process from maintenance up to and including certification.



Sustain ability through increasing efficiency

Within the organization of “VG Technisch Beheer en Onderhoud” we integrate different disciplines that intervene in the maintenance of fire protection systems including fire alarm systems, evacuation alarm systems, sprinkler alarm panels. But also the integration with other systems. This is to perform the maintenance work in the most efficient way possible. By taking a project-based approach and following a tight schedule, we avoid wasting time unnecessarily.

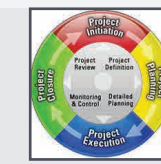


Cost control and monitoring of the project

Cost control and monitoring of a project is of great importance both to you and the customer, but also to ourselves. We aim to execute the projects within the set budgets by regularly checking projects financially for work progress and costs. To guarantee this, we have a sound project management module within our ERP system where the costs are monitored from the start of the project, during the implementation up to and including delivery.



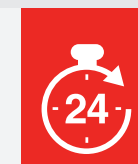
Project ‘Life Cycle’ Management



Within our company we use the four phases of “Project Life Cycle management”.

- First phase for initiating the project
- Second phase for project planning
- Third phase for project implementation
- Fourth phase for the completion of the project.

During these phases, various project tasks are discussed which must be completed at the right moments before the next task can be continued.



Fast response times during the project phase

Our goal is to respond to your questions quickly and adequately. The aim is to respond to your questions where possible within 24 hours (or faster). This ensures open and clear communication during the assignment and implementation phase of the project.

For each project we appoint a project manager as a fixed contact person for you as a customer for all your questions from order up to and including the delivery of the project.

- ✓ Help desk available 24 hours a day / 7 days a week
- ✓ Own maintenance staff employed
- ✓ Maintenance of third-party systems is also possible
- ✓ Service organization with short lines so quick follow-up
- ✓ Both for preventive maintenance and corrective
- ✓ Performing zero measurements
- ✓ Supervising inspections and certifications

- ✓ Maintenance for the (Petro) Chemical industry
- ✓ Maintenance for Transport and Logistics
- ✓ Maintenance for Offices and Utility
- ✓ Maintenance for Parking garages
- ✓ Maintenance for Public Transport and Tunnels
- ✓ Maintenance for Defence and Government
- ✓ Maintenance for other industrial applications

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OVERVIEW

VG Beheer & Onderhoud BV

“VG Beheer en Onderhoud BV” handles the current maintenance contracts within our company. Within the maintenance branch there is still close cooperation with the project implementations of “Van Ginkel Concerns” concerning fire detection and evacuation alarm systems and also with “Sprinklerservices Europoort” concerning sprinkler systems.

Close collaboration helps ensure that the correct information from the various fire protection systems delivered is adequately transferred to the maintenance branch. As a result, it is quickly clear to the maintenance team which systems and components the installations are made of.



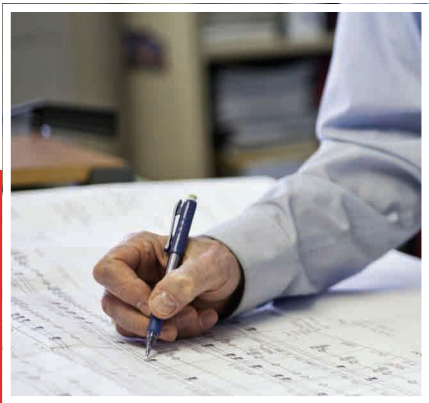
Fire Class, Kentec, Protec Fire Alarm installations

We carry out maintenance on various brands and system types of fire alarm systems. Whether or not combined with an evacuation alarm system. We can also carry out maintenance where an integration is provided with a sprinkler installation such as through a sprinkler alarm control panel.



Burglary & CCTV Installations

Where necessary and requested, we can also include any existing and linked systems such as CCTV camera systems or Burglar alarm systems in the maintenance package for regular fire alarm maintenance.



Modifications of existing installations

Previously delivered installations require small or larger adjustments in the long run, for example due to renovations on site. This type of system adjustment can be carried out by our maintenance team up to a certain level. We would be happy to discuss the options with you for this.

We can maintain various security systems for you, including the fire alarm system, the evacuation alarm system, the sprinkler system, but also where necessary the burglar alarm and CCTV system.

During maintenance, we coordinate the work in consultation with you as a customer in such a way that the impact of the maintenance has a minimal effect on your business operations.

In addition to maintenance, the team also carries out work

which may emerge during or after maintenance work such as rest points. We will discuss these with you as a client before you follow them up quickly so that the remaining points can be resolved.

We can also provide you with guidance for inspections and certification. And of course we can perform the periodic Operator Management Tasks for you so that this is correctly performed in accordance with the regulations.



OP Operator Tasks

Regulations require the execution of various administrators OP tasks and the recording of this work in a log book. If you do not want to do this yourself or you do not have a trained person, we can take this work off your hands and take it as part of the maintenance contract.



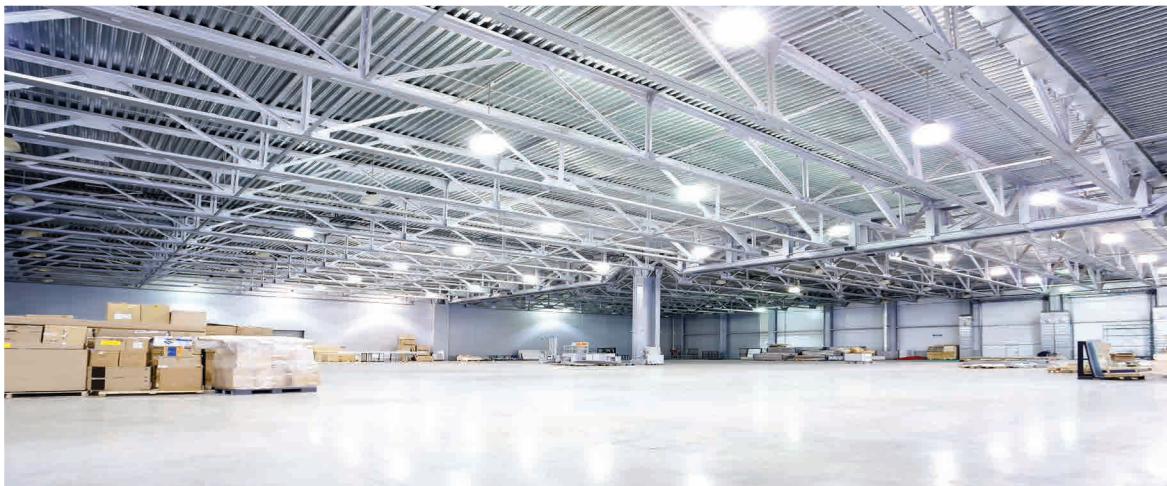
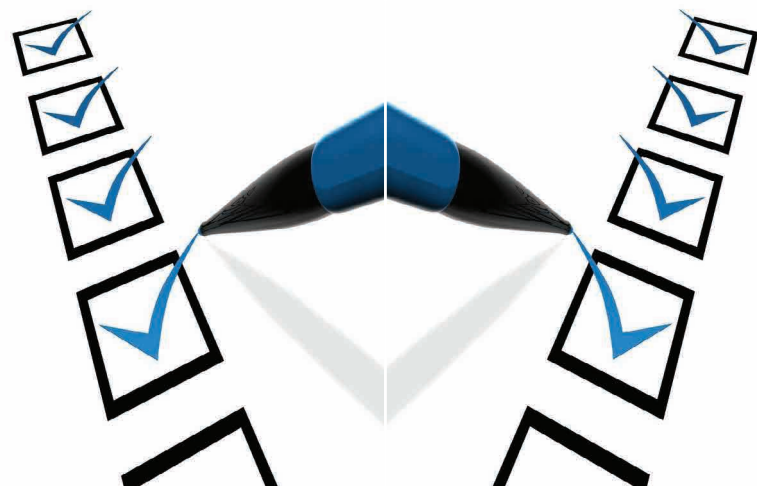
Training, Courses and Education

For the owner or user of the location, a manager must be appointed to perform the periodic OP Operator Tasks. We offer various training courses, instructions and trainings for this. Please contact us for this and we will be happy to discuss this with you.



Inspection & Certification

For existing systems that are having in maintenance, we can also take care of the supervision for inspection and certification. We also maintain the contacts with the inspection authority or certification body.



// BUSINESS UNIT VAN GINKEL MARINE SERVICE



Our “Van Ginkel Marine Service” Business Unit specializes in designing fire alarm and gas detection installations for the marine and offshore markets. We can supply these installations as a complete package from design and engineering, delivery, assembly, installation and delivery.



Sustain ability through increasing efficiency

The Marine and Offshore is a market that takes place in a fragile and expensive environment, namely the world's seas and oceans. It is important for us to keep the impact on this environment as low as possible in order to protect and maintain it. This is the reason why we provide fire safety systems for Marine and Offshore applications where the design is such that the chance of inflicting major damage is kept to a minimum.



Cost control and monitoring of the project

Cost control and monitoring of a project is of great importance both to you and the customer, but also to ourselves. We aim to execute the projects within the set budgets by regularly checking projects financially for work progress and costs. To guarantee this, we have a sound project management module within our ERP system where the costs are monitored from the start of the project, during the implementation up to and including delivery.



Project 'Life Cycle' Management



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For each project we appoint a project manager as a fixed contact person for you as a customer for all your questions from order up to and including the delivery

- ✓ Certified fire detection company
- ✓ VCA ** Certified
- ✓ ISO9001: 2015 / ISO14001 Certified
- ✓ Technicians with the required offshore papers
- ✓ Complete scope of execution of work
- ✓ Own service department
- ✓ Official dealer Tyco Fire Class fire alarm systems

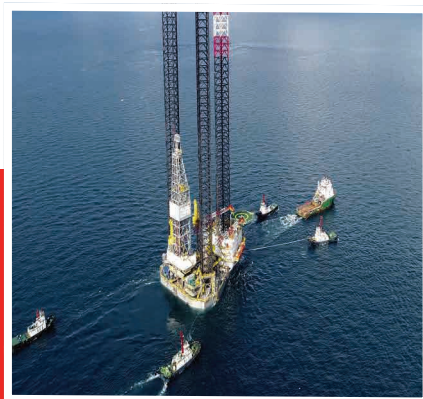
- ✓ Solutions for the Offshore Oil & Gas industry
- ✓ Solutions for the Offshore Wind Energy industry
- ✓ Solutions for Inland shipping
- ✓ Solutions for International shipping
- ✓ Solutions for Yacht building
- ✓ Solutions for replacing of existing systems
- ✓ Solutions for modifications and extensions



OVERVIEW

Van Ginkel Marine Service BV

Within the Van Ginkel Group there is a special business unit that deals with the marine and offshore industry. Within marine and offshore complex issues are dealt with including projecting the right detectors, applying the right equipment suitable for the often explosion hazardous environments and also integrating all Fire & Gas detection components into a completely integrated system. The system can be built based on an integrated fire detection and gas detection panel as well as on the basis of a PLC System. Depending on the required numbers of I/O (inputs / outputs) and Cause & Effect logic, our engineers are designing the best solution for your project. The system can be designed with an interface to an existing management system or provided with its own graphic management system. The implementation of this will be executed in close collaboration with you as the client.



PBS Signalco / FAST 2000 Fire Detection Systems

At the locations where, for instance, PBS Signalco and / or FAST2000 type fire alarm system are installed, we can modify/extend, maintain or completely replace these systems. Of course we also have the possibility for supplying other manufacturing systems.



PLC Systems with full system integration

We have the in-house knowledge to engineer projects based on a PLC system. For example the Siemens S7 PLC system. PLC systems are very suitable for the more complex projects with a lot of I/O and associated logic and controls.



Fire & Gas detection systems and detectors

For the Oil and Gas industry both onshore and offshore, but also in the petrochemical industry, Fire & Gas systems are common. As a company we offer an extensive range of solutions for the detection of gases and fires including gas detectors, flame detectors, heat detectors, etc.

For our Marine & Offshore projects we use equipment from the manufacturers who specialize in the manufacture of very solid and top quality products. This is to guarantee that the system that we design will meet the high standards and requirements that are set for safety systems for fire and gas detection.

It is of great importance to protect both the safety of the personnel at the project location and the installations present in the event of an emergency.

Then it is literally of vital importance that a possible fire or gas leakage is detected as quickly as possible.

We supply flame detectors, gas detectors, manual detectors, alarm devices, signalling units and panels from various renowned brands including: Tyco, Det-tronics, Spectronics, Simtronics, MEDC, Siemens etc. We supply new installations but also extensions to existing installations with applying of the existing makes as well.



Fire Protection / Fire extinguishing systems

Novec 1230 is a clean type of extinguishing gas and also very suitable for use in the marine and offshore market. The gas does not damage the ozone layer and does not damage electronics. The extinguishing capacity of Novec is considerably greater than standard CO2 gas. And Novec needs less installation space. Ideal for the engine room.



Offshore / Shipping Maintenance service

We offer a high level of service for the shipping, marine and offshore market. Hereby we have various specialists who are provided with the required papers to perform offshore works for you as a customer. We can perform service / maintenance work for both Fire and Gas detection systems and many other systems.



Acoustic gas leak detection on an ultrasonic basis

The acoustic gas leak detectors are a special category of gas detectors. The detectors respond to gas leaks and the unique sound that produces a "gas under pressure" leak. An acoustic gas leak detector can be used both onshore and offshore. These detectors are, for example, insensitive to the wind direction and respond accurately.



//
OUR
CUSTOMER SERVICE

We offer comprehensive customer service for all our customers. It is of great importance to us that you as a customer receive proper assistance. Both in the case if you are a new customer with us with a new project, but also if you are already an existing customer with a problem about a previously delivered project. We are well aware that the systems that we provide are safety systems intended to protect both your employees and your business interests.



For you as a customer, the continuity of your business operations and processes is an important issue. It is of great importance that these are guaranteed and one of the parts that is important here is to keep safety systems operational such as fire and gas detection, evacuation alarm, sprinkler installation, but also the associated inspections and certifications must all be in good condition to be.

Proper service delivery for these systems is therefore a “must” to prevent major calamities with safety. And in the event of an emergency, you want it to be dealt with adequately and professionally so that you can quickly continue with daily operations.

Our service departments have short internal lines within the organization, so that action can be taken quickly to resolve the calamity quickly and to your satisfaction.

Probably have you ever had an issue where a large organization with large separated departments had to contact you and it was particularly difficult to get the right contact person? We want to prevent this so that you will be served quickly and adequately.



Goal oriented

In order to guarantee good customer service for you as a customer, you must work in a targeted manner to obtain the right advice / solution. An extensive internal business process is arranged to this achieve the goal orientation.



Collaborate

Working with you as a customer is very important to us that this will be dealt with correctly. In addition to you as a customer, we have processes to achieve optimum cooperation, both internally and with third parties.



Discipline

We ask our staff to apply adequate discipline when dealing with customer service issues. Following the right processes is of great importance in this, so that you as a customer will be assisted quickly.



Confidentiality

We treat all data and documents you provide with the greatest possible care. We mark this data as confidential documents which are only accessible to the parties involved.



Innovative

We strive for progress in both project implementation and service issues. In cooperation with you as a customer, we hope to optimize the processes so that they are carried out efficiently.



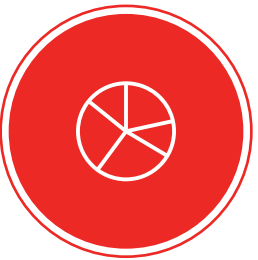
Creative

For difficult and specific issues, it may be necessary to act creatively with “out of the box” solutions that are applicable within the required regulations. We are happy to help you with this.



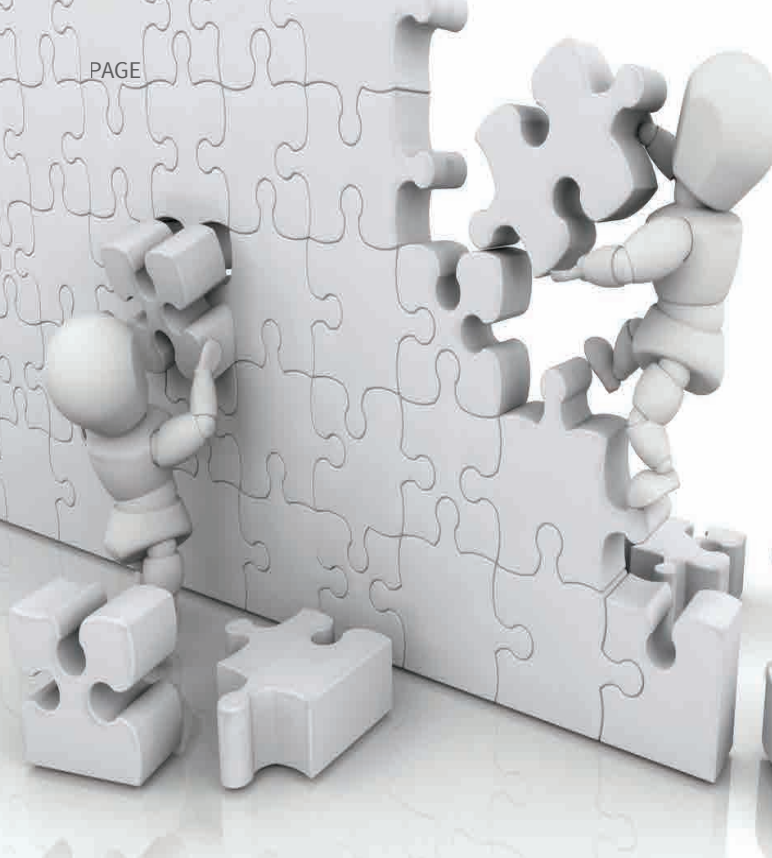
Thoughtfully

The service must be carefully picked up and implemented. In our system we schedule service requests as completely as possible in order to minimize the chance of issues and / or delays.



Flexible

Sometimes it may be necessary to be extremely flexible with specific service requests. This can disrupt current schedules. However, we want to be flexible for all our customers and to investigate all possible solutions.



// COMPLETED PROJECTS

Every year we carry out works on a wide variety of projects, from smaller projects such as an extension to an existing system to large and very complex complete new projects built from start. We are active in various industries from Petrochemical to Utility and Marine & Offshore. On these pages a short overview of different types of project that we have recently carried out.

Because we work in various disciplines such as industry, petrochemicals, utilities, but also in shipping and offshore, we have now successfully completed a large number of projects in recent years.

Given our scope of supply of fire alarm systems, evacuation alarm systems, gas detection systems, sprinkler systems, extinguishing gas systems, extinguishing agents, but also the associated service and maintenance, we can supply a wide variety of systems as well as services.

As a result, we have carried out a wide variety of projects throughout the Netherlands, but also at “sea” for the offshore industry.

We briefly explain several project types in this portfolio. In this document it is not possible to place a complete overview of these projects if you would like further explanation, that is of course possible. Please contact us for this.

On request we can send you a detailed overview with project references.

Botlek / Europoort - Petrochemical

We have supplied fire detection, sprinkler and foam extinguishing systems to a large number of locations in the Botlek / Europoort area.

At these locations we also carry out the complete maintenance package for the maintenance and service of the fire alarm installations, the sprinkler / foam installations, extinguishing agents up to the extinguishing gas installations. During maintenance, requested modification works and corrective maintenance are expertly and quickly picked up by us at all times in close collaboration with the customer.

Server / Data centres

Within the Netherlands we have provided various data centres with a complete fire alarm / evacuation alarm system. These systems provide fire protection for the entire building. The systems are based on fire alarm systems with an addressable loop protocol, also in combination with extinguishing gas installations.

There are various data server rooms equipped with the latest technological solutions for fire safety. This in order to be able to act quickly and adequately in the event of an emergency. It is of great importance that the system gives an alarm very quickly, but only in the event of a real calamity.

Campus

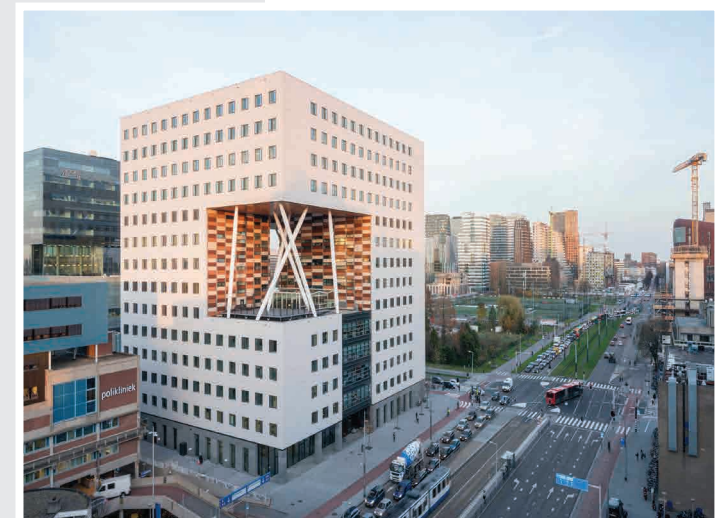
Campus New construction complexes have been built at various university campuses. In these complexes we have provided an overall fire alarm / evacuation alarm system for fire protection. This together with a sprinkler system and where requested based on the lightweight CVPC Blazemaster system for fire protection.

With a building that needs to be built in the lightest possible version, the Blazemaster system is a solution to be able to save as much weight as possible compared to traditional steel-type sprinkler installations.

Offshore platforms

We perform also complete Fire & Gas maintenance on board offshore platforms for various offshore operators. We have also carried out upgrades on board at several platforms to improve, replace or extend the safety systems on board.

This includes Fire & Gas Detection systems, evacuation alarm systems, high sensitivity smoke detection systems, gas detection, gas extinguishing systems, etc.

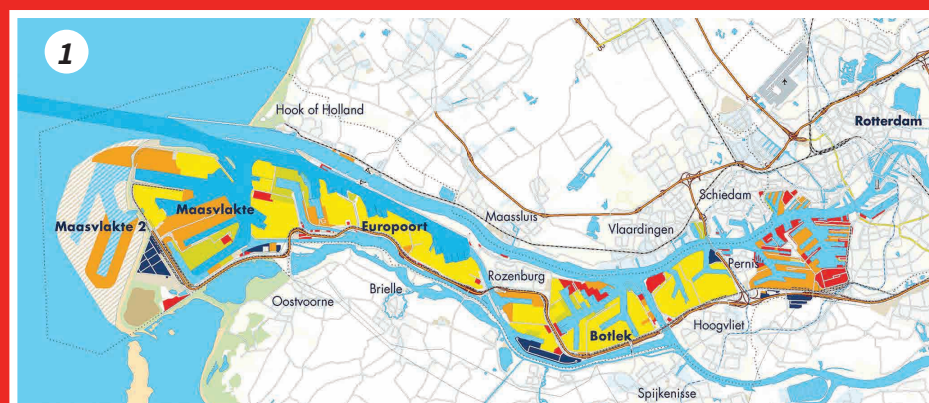


OUR Work Area

Our technicians work throughout the Netherlands but also at various offshore locations in the North Sea. Depending on where the projects are located, we provide the right technicians on site.

Work Areas

- ✓ Rotterdam area for the petrochemical industry
- ✓ Dutch territorial waters for offshore
- ✓ Groningen / Eems for fire alarm, sprinkler and gas extinguishing maintenance
- ✓ Nationwide for service and maintenance of installations
- ✓ Amsterdam region for utility and industry
- ✓ Utrecht region for shopping centres and utilities
- ✓ The Hague region for government institutions, data centres



The Netherlands can be called a small country on a global scale. However, due to the densification in certain areas and the busyness of the roads, the travel time can increase considerably if the travel routes run through these busy areas.

As a result, we have technicians in different regions within the Netherlands, so that wherever possible travel time can be limited as much as possible.

Below are a number of core areas where we often work.

- 1 Rotterdam, Europoort / Botlek / Maasvlakte**
The heart of the (petrochemical) industry is in the port area of Rotterdam. Our office is strategically located in the vicinity of this area so that we can act quickly in the event of an emergency.

- 2 Amsterdam area**
In the Amsterdam region we work on various projects and we also carry out service / maintenance.

- 3 Groningen-Friesland-Drenthe / Eems area**
Near the Eems we have a long-term project and maintenance contract for various fire detection and sprinkler installations.

- 4 Utrecht area**
We have various fire detection and sprinkler projects in progress in the province of Utrecht.

- 5 Offshore / North sea**
On the North Sea we carry out work on fire and gas detection systems for various offshore operators. We also have maintenance contracts in place for maintaining the safety systems on board platforms.



Our common working area is the Rotterdam region where the important petrochemical industry can be found. Our technicians work daily in this area.

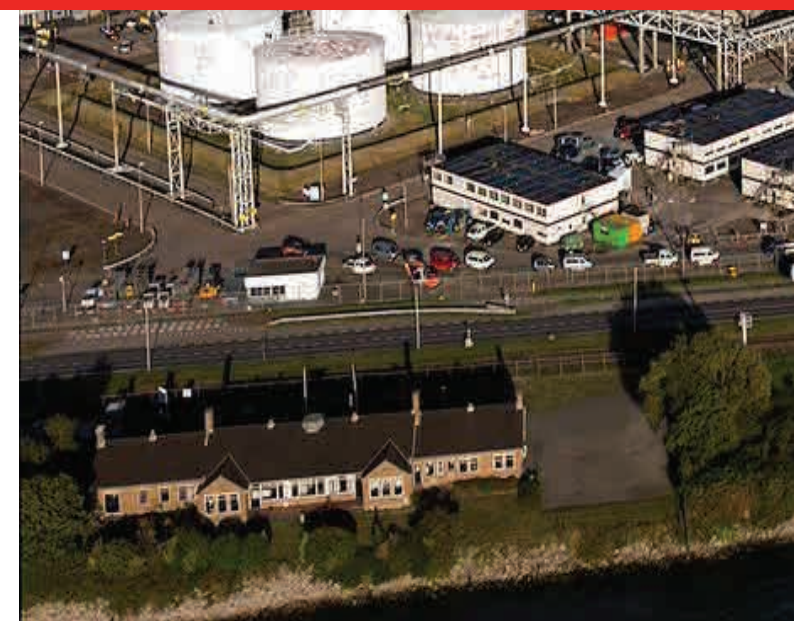
Outside the Rotterdam region we have a number of important regions where we have major projects or maintenance contracts in progress.

In addition to onshore works, we also work for the oil and gas industry at the various offshore locations that are located within Dutch territorial waters.

The technicians usually fly via the Den Helder airport to the offshore installations.

On request we adjust our working area according to the demand, the duration and the project location.

Please contact us to discuss the options.



// WHAT WE OFFER

Certifications

To meet the legal requirements and regulations, certifications apply to various fire protection installations in order to demonstrate and guarantee proper function.

As a certified fire alarm system / sprinkler system supplier, we are periodically assessed by a recognized certification body. The certification body ensures that our products or services meet the requirements set and that we continue to meet the criteria described in the certification scheme ('s).

An accreditation body supervises the certification body.

1 **Fire Alarm Systems - CCV Regulation / NEN2535**

As a certified fire detection company we can take care of the certification, inspection, re-inspection for the fire alarm system for you. Hereby we work together with an independent inspection body and provide the necessary guidance to obtain a certified system.

2 **Evacuation Alarm System - CCV Regulation / NEN2575**

As a certified evacuation alarm company we can take care of the certification, inspection, re-inspection for the fire alarm system for you. Hereby we work together with an independent inspection body and provide the necessary guidance to obtain a certified system.

3 **Sprinkler / Foam Systems - VBB Regeling / NEN12845**

As a certified sprinkler installation company we can take care of the certification, inspection, re-inspection for the fire alarm system for you. Hereby we work together with an independent inspection body and provide the necessary guidance to obtain a certified system.

4 **Gas extinguishing systems - NEN12094**

As a Gas extinguishing system installation company we can take care of the certification, inspection, re-inspection for the fire alarm system for you. Hereby we work together with an independent inspection body and provide the necessary guidance to obtain a certified system.

5 **OP Operator Tasks**

As the owner of a building / user of a location you must make provisions so that the management of the OP Operator Tasks are performed at the right intervals. We can of course perform this work for you as part of a maintenance agreement. Both for fire alarm, evacuation alarm and sprinkler systems.

Certified fire alarm system according to CCV

We as a company work according to the certification scheme "Fire Alarm Installations", with which we demonstrate that we deliver, install and / or maintain proper fire alarm installations. Because of this we are aware of the laws and regulations. As a customer you receive customized advice so that the fire alarm system matches your situation. If all requirements are met, a certificate will be issued upon delivery or after maintenance of the fire alarm system. You can submit this certificate to the municipality, fire brigade or insurer if they request it.

Certified sprinkler installation according to

Similar to the fire alarm systems, we can also deliver certified sprinkler extinguishing systems. With this we show that we deliver, install and / or maintain a good sprinkler system to you. If all requirements are met, a certificate will be issued upon delivery or after maintenance of the sprinkler system. You can submit this certificate to the municipality, fire brigade or insurer if they request it.

// ASK OUR ADVISORS

Certification of a fire alarm and protection installation requires thorough knowledge and expertise of these kind of installations in order to obtain successfully a certified installation

The certification must be carried out by an independent party and we provide the required assistance with this process.

If you have questions regarding the certification of an existing fire alarm, evacuation alarm, sprinkler or extinguishing gas installation, we can advise you on how we can take this process off your hands.

As a certified installation and maintenance company, we have already delivered many certified installations.

We also guide the process of periodic inspections, re-inspections, corrections and re-certifications.

The benefits for you as an owner / customer

- ✓ We are a certified for fire alarm / sprinkler installations
- ✓ We perform the assistance during the certification process
- ✓ Certified installations (fire alarm, evacuation, sprinkler) are often a requirement of the local government
- ✓ We work together with independent inspection bodies
- ✓ We also supply new certified installations
- ✓ We have our own maintenance experts
- ✓ We have internal audits conducted annually
- ✓ We have a certified process for supplying but also for maintaining installations
- ✓ We have our own internal certification experts
- ✓ We also assist with installations where the certification has expired to arrive at a certified system
- ✓ We are ready for your questions regarding the inspection / certification of the fire protection installation





Van Ginkel Group



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