



**SIEX**

FIXED EXTINGUISHING SYSTEM  
with DRY CHEMICAL POWDER and FOAM

TWIN  
AGENT

**SIEX™ TA-SH**

LARGE-SCALE  
PROTECTION

THE MOST ADVANCED  
TECHNOLOGY FOR  
PROTECTING  
SPECIAL HAZARDS



Combining the high **efficiency of dry chemical extinguishing with the inhibitory effect of the foam** is, in many cases, the best option for implementing a firefighting strategy.

SIEX™ TA-SH fixed twin agent hand hoseline extinguishing is our company's market offer to improve the protection of people and property by enabling the extinguishing of fires that cannot be put out with systems that use only one agent.

Our system has been developed for combined discharge of the two agents to provide **optimal protection in hazardous environments or fires that are very dangerous due to a high fire load, critical use or the presence of multiple**

**hazards** (hydrocarbons, liquids, gases, chemicals, etc.). It is ideal in those cases where a highly specific agent needs to be used (in this case dry chemical) and, on the other hand, the need exists to prevent reignition or for an effective agent against **fires that cannot be extinguished with dry chemical**.

High efficiency in firefighting is obtained with the combined use of these two agents with the great autonomy for which they have been developed. In case of fire, an operator can extinguish it quickly by using a first pass with dry chemical to suppress the flame, followed by foam application. This makes it possible to **maximise performance in extinguishing the fire and prevent reignition**.

# APPLICATIONS

SIEX™ TA-SH fixed twin agent hand hoseline extinguishing systems have been developed to be used with maximum flexibility, **especially in protecting airports and heliports.**

They are also suitable for liquid fuel storage, chemical plants, refineries, oil & gas, petrochemical industry, wood industry,

mining industry, ships, LNG vessels, ports, logistics centres, industrial centres, fire stations, military bases, fuel supply areas, etc., and for all hazards where a fire protection system with **high capacity and flexibility in firefighting and maximum autonomy** is required.

- PORTS, AIRPORTS, HELIPORTS
- STORAGE OF LIQUID FUELS:  
HANGARS, FUEL TANKS, TRANSFER AREAS
- INDUSTRIAL PLANTS, FACTORIES
- PETROCHEMICAL INDUSTRY
- GAS TREATMENT, REGASIFICATION
- LOGISTICS CENTERS AND WAREHOUSES
- REFINERIES
- MILITARY APPLICATIONS
- MARINE AND OFFSHORE
- *ETC.*



# COMPONENTS

This equipment manages to integrate the benefits of dry chemical and foam extinguishing by discharging the two agents through a double hose with two nozzles, each of which is associated with their respective storage tanks. The propulsion of these agents is achieved using inert gas cylinders using SIEX's innovative "*Constant Flow Technology*", **optimising dry chemical and foam flow without generating overpressure**, as flow is constant,

enabling proper agent discharge so the operator can achieve **maximum effectiveness in firefighting**.

Our equipment is supplied with a variety of capacities from 18-770 gallons (85-3500 litres), so it can **fit our customers' needs perfectly**. These systems can be equipped with **back-up tanks so as to make them as self-contained as possible**.

## STORAGE TANKS

**With large storage capacity** for dry chemical and foam concentrate, available in 18, 22, 26, 55, 66, 110, 165, 176, 220, 330, 440 and 770 gallons (85, 100, 120, 250, 300, 500, 750, 800, 1000, 1500, 2000 and 3500 litres), or other capacities on request. This means our equipment can adapt to any requirement.

## REEL, HOSE AND NOZZLE

Its quick, easy use, combined with advanced design, enables rapid deployment of the double hose, meaning it can be ready in a few seconds for easy discharge of dry chemical and foam. A single trained operator can use it alone, choosing alternating or simultaneous agent discharge depending on how the fire is developing, thanks to the hose with twin pistols, each with its own trigger.





## PRESSURE CYLINDERS

The use of innovative **Constant Flow Technology**, with its constant pressure valve, optimises the flow of the two agents in both the storage tank filling and discharge phases, so making it possible to achieve the necessary propellant gas pressure and flow rate all the time and in every case.

## FILL CONTROL

SIEX™ TA-SH equipment can be supplied with gauges to allow visual checking of fill pressure of the propellant cylinders, but this can also be monitored by mechanical weighing, gauges with electrical contacts or pressure switches. In these cases, this gives a signal for real-time direct or remote control of the system.

## PRESSURE SWITCH

It is a device to confirm fortuitous or accidental activations, but it also reports when planned agent discharge is taking place. It incorporates local latching to prevent system activation going unnoticed.

## ACCESSORIES for explosive atmospheres

These items are usually used in locations where there may be gases, vapours or suspended particles that could cause a serious explosion in the presence of a small spark or overheating of electronic equipment. SIEX, aware of these needs, provides appropriate alternatives for hazardous atmospheres in accordance with the regulations applicable in each case (ATEX directive, UL, cUL, etc.).

In addition to hazardous atmospheres, all electronic devices can be provided with various degrees of either NEMA or IP standard protection.

The versatility and flexibility in configuration also makes them ADAPTABLE SYSTEMS to every need in any project. In order to meet the highest expectations of our customers, SIEX offers this product of the highest quality and efficiency, providing extraordinary security in the fight against fire.

# ADVANTAGES

## POSSIBILITY OF LOCAL AND REMOTE ACTIVATION



Our systems are designed so that activation can be manual, operated locally by a local actuator. Optionally, the system can be activated remotely through a control panel.

## EXTRAORDINARY STORAGE CAPACITY



SIEX™ TA-SH systems can be designed for high storage capacity, so making it possible to protect even larger hazards that need a large amount of the two agents, making it possible to adapt them to any protection.

## CONSTANT, OPTIMAL GAS FLOW



The use of SIEX's Constant Flow Technology enables extinguishing agent discharge at constant flow, so optimising the extinguishing capacity of the equipment.

## GREAT AUTONOMY



The high combined efficiency of dry chemical and foam used with this system, together with the high capacity and variety of dry chemical storage tanks means that lack of agent will never be a problem in firefighting.

## EASE OF MAINTENANCE



The system has components to make propellant agent filling easier by using a gauge, a pressure switch or mechanical weighing and duct and hose cleaning can be performed quickly and easily.



## POSSIBILITY OF SIMULTANEOUS OR SEPARATE DISCHARGE



Each of the double hose nozzles has a separate trigger so that a trained operator can decide whether to discharge both agents simultaneously or each separately, depending on his or her judgement and the evolution of the fire.

## WARRANTY AND DURABILITY OF THE EQUIPMENT



The heavy duty design and high quality finishes applied to our fixed hand hoseline dry chemical extinguishing systems ensure extended durability of these appliances, even when they are continually exposed to the elements or to bad weather.

## MAXIMUM RANGE RADIUS



The manual application hose fitted to this equipment ensures the maximum radius of action with the minimum pressure loss by providing the optimal flow rate and, as it is made from resistant materials and finishes, this gives the system maximum durability.

## LOCAL AND GEOGRAPHIC AVAILABILITY



The design of our fixed hand hoseline dry chemical extinguishing systems is aimed at ensuring easy transport not just within the premises, but to wherever it is needed, including elevation to great heights, thanks to its platform-based design.

## AVAILABILITY OF INERT GAS CYLINDER CLEANING (OPTIONAL)



To make returning the equipment into service after use as easy as possible, it has an auxiliary inert gas cylinder for quick cleaning of the hose and nozzle, easily removing any remaining dry chemical agent.

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