



FIXED EXTINGUISHING SYSTEM

WITH REEL  
AND HOSE

FIRE  
PROTECTION

# THE BEST SAFETY FOR YOUR EQUIPMENT



The fire protection requirements involve adapting the fixed extinguishing systems to the various needs of the hazard to be protected. In many cases it is necessary to have a robust firefighting system which can be **applied by personnel** trying to immediately control or extinguish the fire with utmost ease and safety.

The rapid and effective response of the extinguishing system is key for minimizing the damage caused by a fire in any space, with special emphasis on spaces housing very expensive equipment or machinery. Adequate protection of equipment and goods is critical to ensure the safety and continuity of your business.

# FIXED HOSE AND REEL STATIONS

Traditional hand extinguishers may not be sufficient to extinguish certain risks, so SIEX has developed this advanced CO<sub>2</sub> system.

It is more practical than portable fire extinguishers because users simply have to move the hose to the hazard.

This equipment can be used on delicate or critical hazards which require a clean extinguishing agent to extinguish or control the fire.

The system is installed in the room itself and is ready to be used quickly and easily at the first sign of fire.

**THE CAPABILITY OF A STATIONARY UNIT WITH TWO 67-LITRE BOTTLES IS EQUIVALENT TO 20 5-KG HAND EXTINGUISHERS.**

Release with this mechanism is carried out manually by a person at the hazard. It is very easy to use and requires very little effort. With very little basic training, it can be used safely.



# EXTINGUISHING EQUIPMENT

## CYLINDERS

For extinguishing agent storage, 40.2, 67 or 80-litre cylinders are available. These cylinders are installed with fastening hardware in the very enclosure of the hazard to be protected. They are designed for a working pressure of 140 bar at 50 °C and a test pressure of 250 bar. The cylinders are equipped with RGS-MAM-11/1 valves with burst disc and manual release (only the pilot cylinder).

The assembly also includes:

- Discharge manifold (of the appropriate diameter) with coupling.
- 1/2" FH-15CO discharge hose
- 1/4" FH-6PO flexible discharge hoses (only in the case of pneumatic actuation)
- 1/2" VALAN-15CO check valves

CYLINDERS CAN BE WALL-MOUNTED OR MOUNTED ON A CART WHEN MOBILE PROTECTION IS REQUIRED.

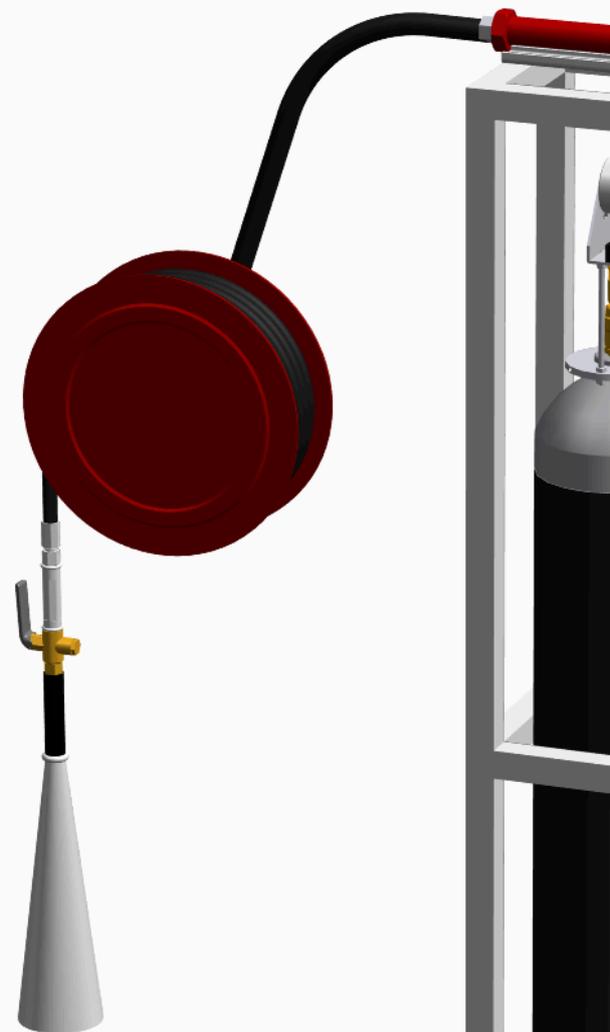
## ODORIZER

This safety feature gives a strong odour to the CO<sub>2</sub> allowing early detection of the presence of this gas to prevent accidents.

## HOSE REEL

Stationary equipment for CO<sub>2</sub> manual extinguishing features a high-pressure reel with a wall bracket. Exterior elements are made of steel and interior elements of brass. It comes with a flexible hose (15 to 50 metres) rated at a test pressure of 420 bar.

The assembly also includes a pistol or nozzle with retaining trigger and local application horn, which ensures optimal agent discharge.



## CONTINUOUS WEIGHING

It is advisable to have continuous weighing on all CO<sub>2</sub> systems. These allow controlling cylinders' load at all times, issuing an alert in the event of leakage, which may otherwise go unnoticed, cause great potential danger and render the equipment unusable. These operate autonomously or mechanically, with continuous monitoring. **It is very reliable and has been approved by VdS, UL and FM.** Visual checking is very simple, and it also features an adjustable alarm mechanism for the control panel that warns when the bottle loses between 5% and 10% by mass of the gas fill.



## THE AGENT

Carbon dioxide (CO<sub>2</sub>) is a colourless, odourless, non-combustible, non-corrosive and clean gas since it leaves no residue after discharge. It does not conduct electricity and can be used to fight fires where there is live electrical equipment.

It is 1.5 times heavier than air. Being a pressurized gas, it can penetrate and spread to all areas of the fire area. It is easily liquefied by compression and cooling for storage, thus providing its own pressure.

Discharge occurs in the form of gas or a finely divided solid called "snow" or "dry ice".

### PHYSICAL CHARACTERISTICS

CHEMICAL NAME	CARBON DIOXIDE
CHEMICAL FORMULA	CO <sub>2</sub>
MOLECULAR WEIGHT	44.01
LIQUID DENSITY AT 20 °C	777 KG/M <sup>3</sup>
CRITICAL TEMPERATURE	31 °C
CRITICAL PRESSURE	73.82 BAR
VAPOUR PRESSURE AT 20 °C	57.1 BAR
MAXIMUM FILL DENSITY	0.75 KG/L
RELATIVE DENSITY VS. AIR	1.5
OZONE DEPLETION POTENTIAL	0
POTENTIAL GREENHOUSE EFFECT	1

## SHUT-OFF VALVE WITH ELECTRIC SIGNAL

Increases extinguishing system safety by preventing accidental extinguishing agent discharge when appropriate.

# 1, 2, 3, EXTINGUISHMENT

The immediate actuation in the event of a fire is essential to prevent further damage. SIEX-CO<sub>2</sub><sup>™</sup> Fixed Stations are designed to respond as quickly as possible. The equipment is configured to be easily activated by staff, which is safe for both people who are in the room and protected equipment.

Operation is very simple, similar to an ordinary hose station:

1

The gas cylinder valves are opened and the pistol is held by its retaining trigger

2

The hose is unwound as much as necessary to reach the fire

3

The pistol is pointed at the base of the fire and CO<sub>2</sub> is discharged by pulling the trigger

## APPLICATIONS



# BENEFITS

## SAFE FOR EQUIPMENT

Its chemical composition does not react with electrical or electronic components, so there is no risk of corrosion and thus damage is prevented to equipment near the fire. Its clean discharge **leaves no residue**.

## EASY TO USE

This system is characterized by its **simplicity of use**, which is essential when it comes to providing the most rapid and effective action.

## EASY TO REFILL

Using CO<sub>2</sub> as an extinguishing agent is very advantageous, since refills can be made anywhere in the world, at very low cost and without brand restrictions.

## COMPACT, RUGGED EQUIPMENT

The equipment can be placed anywhere. It **takes up little space** and at the same time covers a large hazard area. The components are designed to withstand the harshest working conditions, ensuring effective operation.

## ENVIRONMENTALLY FRIENDLY SYSTEM

Since it uses a gas which is present in the atmosphere, it does not harm the environment. It is **harmless to the ozone layer**, currently a much needed and highly valued feature.

## **SIEX**

**C. MERINDAD DE MONTIJA Nº 6  
P.I. VILLALONQUÉJAR 09001  
BURGOS (SPAIN)**

**TLFNO: +34 947 28 11 08  
WEB: WWW.SIEX2001.COM**

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