

Carbon Dioxide CO₂

Fire Systems

Prevent Fire | Detect Fire | Contain Fire | Escape Fire

Product

Fixed CO₂ Fire Fighting System

Carbon Dioxide is an excellent extinguishing agent which extinguishes fires by reducing the oxygen level below that which will sustain combustion.



System Benefits

CO₂ is clean

CO₂ is a colourless, odourless, dry, inert gas and is a naturally occurring gas. After extinguishing a fire it vapourises fully leaving no residue. There is no mess, nothing to clear up, no water damage. It is non corrosive and will not contaminate foodstuffs. It is non-conductive and so can be used on electrical equipment. It is safely used to protect delicate electrical equipment, antiques or archive materials.

CO₂ is versatile

With the versatility of electrical, pneumatic or mechanical actuation, CO₂ systems can be designed to suit any fire hazard, which is why it has been successfully used in a variety of applications including Transformer stations, Paint spray booths, Flammable liquid storage areas, Printing presses and other process machinery, Floor voids, Turbines and generators as well as numerous marine applications. CO₂ is not advisable in manned areas as it is toxic at the concentrations required to extinguish fire

CO₂ is cost effective

Carbon dioxide is a naturally occurring gas and a standard commercial product with many other uses and it is readily available throughout the world. It can be obtained cheaply and this is an important consideration when frequent recharging of storage containers is necessary.

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Summary

Advantages

- Zero Ozone Depleting Properties
- Global Warming Potential seen to be negligible as CO₂ used in extinguishing systems is recovered from processes where the CO₂ would normally be discharged to atmosphere
- Excellent extinguishing properties
- Non-conductive, non-corrosive and odourless
- No clean up required
- Low agent cost
- No decomposition products

Disadvantages

- Slower discharge time than some other extinguishing methods
- High storage space requirements
- Toxic at the concentrations required to extinguish fire
- Elaborate safety measures required for intermittently occupied or occupied areas
- High storage pressures for high pressure systems
- Elaborate and bulky storage requirements for low pressure systems

Technical Data

■ Chemical formula	CO ₂				
■ Weight	varies according to design concentration				
■ Volume	varies according to design concentration				
■ Operating pressure	low pressure and high pressure systems available				
■ Minimum design concentration	30%				
■ Minimum discharge time	<60 seconds				
■ Extinguishing mechanism	Oxygen depletion and physical				
■ Ozone Depleting Potential	N/A				
■ Global Warming Potential	100				
■ Atmospheric Lifetime	Naturally occurring gas				

Chubb Fire, helping you to:

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call 0800 32 1666 or visit www.chubb.co.uk

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