



1230 CLEAN AGENT SYSTEM

Rapid, residue-free fire suppression



An IMO-compliant, non-conductive clean agent fire suppression solution engineered for offshore and maritime applications. The clean agent evaporates rapidly to leave no residue, reducing cleanup costs and operational downtime.

BENEFITS:

- ✓ Compliance with SOLAS, class requirements and the IMO MODU code
- ✓ Unique nozzle discharge pattern for wider coverage using fewer nozzles
- ✓ No residue on sensitive electrical equipment
- ✓ Low-pressure liquid cylinders enable small footprint for space-constrained settings
- ✓ Immediate deployment – even in occupied areas – for rapid response and fire suppression



“ A clean and compact solution, ideal for sensitive equipment and confined spaces. ”

TRUSTED TO
PROTECT LIVES

1230 CLEAN AGENT SYSTEM



Compact, fast, effective

The Survitec 1230 Clean Agent system was designed specifically with speed, safety and efficiency in mind. All system components are engineered for optimal performance at sea. Unlike carbon dioxide (CO₂), the Survitec 1230 Clean Agent poses no immediate health or safety risk to people. This means the system can be deployed without delay, even while the space is still occupied, without risk of asphyxiation. These valuable time gains can make a significant difference to the effectiveness of fire suppression efforts and thus overall safety.

In addition, storage of liquid gas in low-pressure cylinders translates into a more compact footprint. This means that – unlike CO₂ – a dedicated cylinder storage space is not required. The unique discharge pattern of the innovative nozzle design further contributes to ease of deployment and cost efficiency as fewer nozzles are required to reach a wide area. Compact pipes further save installation space and weight, lowering total installed cost even more. All of which makes Survitec 1230 Clean Agent especially suited to space- or weight-confined deployments, such as in offshore service vessels (OSVs) and special operations vessels (SOVs).

The Survitec 1230 Clean Agent system is designed as a total flooding system for Category A machinery spaces, cargo pump rooms on tankers, gas carrier cargo compressor rooms and spaces on board vessels or offshore installations needing fire protection. It can also be used as a total flooding system for methanol fires.

Supporting the journey towards more climate-friendly alternatives

The Survitec 1230 Clean Agent system has a lower environmental impact than systems based on agents such as halon and CO₂, which makes it a popular choice for retrofits, especially as existing pipework can often be utilised. In addition, the design gas concentration required to effectively extinguish a fire is far below the level considered safe for human exposure.

A low design concentration of 4 to 6% in combination with a high No Observable Adverse Effect Level (NOAEL) of 10% gives a safety margin of up to 100%. The US EPA Significant New Alternatives Program (SNAP) classifies FK-5-1-12 fluid as acceptable for use as a total flooding agent in occupied spaces.

Applications

- Category A machinery spaces
- Cargo pump rooms
- Paint and flammable liquid lockers
- Control rooms
- High-/low-voltage switchboard rooms
- Computer service installations
- Cargo compressor rooms on gas tankers

APPROVALS

The 1230 Clean Agent system fulfils the requirements of IMO MSC/ Circ. 848 and MSC.1/Circ.1267, and is equivalent to fire extinguishing systems required by SOLAS 1974 as amended, Chapter II-2. The system can be applied on merchant maritime and offshore structures as its design is in accordance with SOLAS, class requirements and the IMO MODU Code.

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Extinguishing fires using the Survitec 1230 Clean Agent system

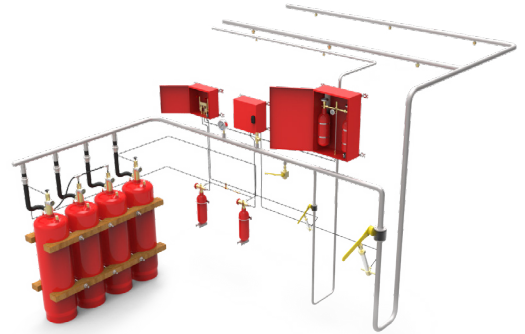
The Survitec 1230 Clean Agent system uses FK-5-1-12 fluid, supplied by Kidde, which is stored as fluid and discharged as gas. The system extinguishes fire by removing heat from the fire, absorbing the heat at its low boiling temperature.

Supply scheme

The FK-5-1-12 fluid is stored in steel cylinders, pressurised with nitrogen. The cylinder valve outlets are connected to distribution pipes with discharge nozzles via flexible hoses.

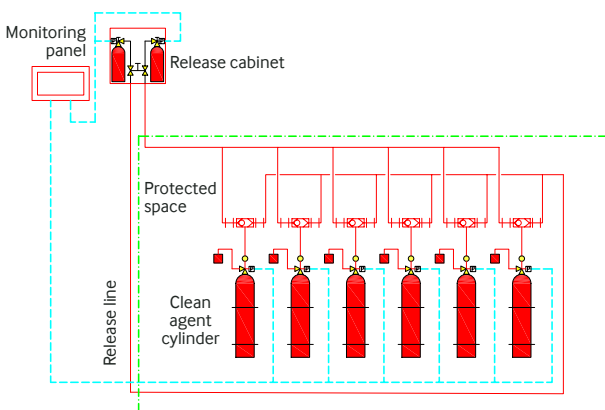
The cylinder valve assembly can be equipped with a supervisory pressure switch connection for monitoring cylinder pressure, a pressure gauge and a safety burst disc. The valves can be actuated electrically, pneumatically or manually.

Installation is flexible, depending on storage accessibility:



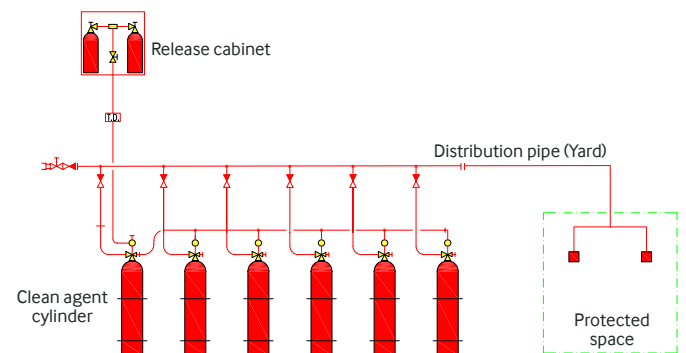
Modular system

- Cylinders can be installed directly inside the protected space
- Duplicated release lines connecting the cylinders are required



Central system

- Cylinders can be installed in a centrally stored bank outside the protected space
- Distribution valves and piping are provided for each space



Time delay and a predischarge alarm are provided in line with the applicable rules. The system is also compatible with our Safety Management and Rapid Response Technology Interface, SMARR-TI.

Maintenance

Regular servicing and maintenance is essential for all gas-based fire suppression systems, not only to extend service life but also to ensure that all components are free from wear and tear, have not been damaged and will deploy as intended in an emergency. As your OEM, Survitec offers annual safety inspections on all our installations. Our specialist fire safety service technicians check everything from fluid weight and cylinder pressure to correct functioning of release mechanisms and room integrity. They can also assist with fluid replacement, troubleshooting and ongoing system tuning and optimization. You can book your service appointment with your account manager or local sales office or by emailing info@survitecgroup.com.