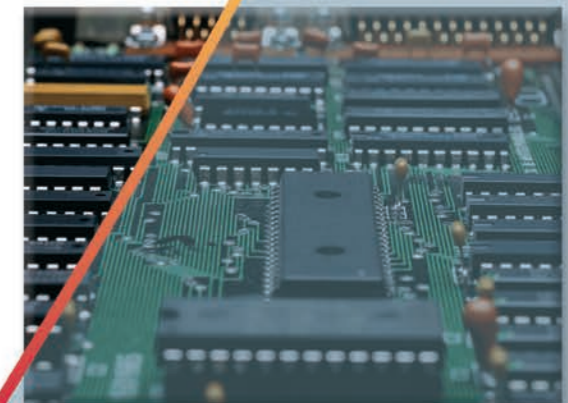




ARGONITE

300 bar inert gas
extinguishing system



Kidde has developed the 300 bar Argonite system as an alternative to the well known 200 bar inert gas system. It offers a 30% reduction in the number of extinguishing agent cylinders.

Tested and approved by regulatory bodies throughout the world, Argonite is effective against fires in almost all combustible materials and flammable liquids. Argonite is especially suitable for use in areas where the use of water, foam or powder would be unacceptable.

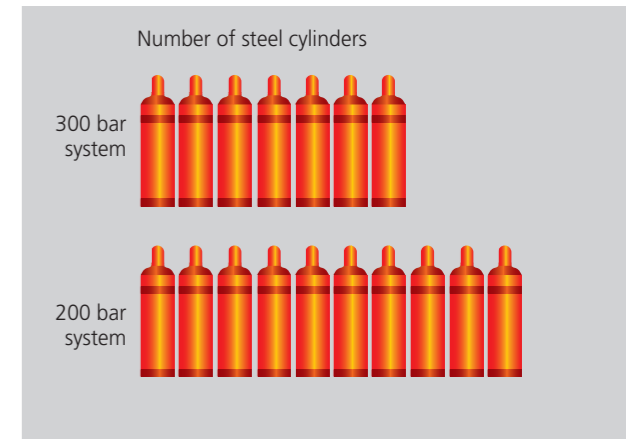


Argonite systems consist of one or more high pressure steel cylinders connected via a common manifold. System actuation is manual or automatic by a fire detection system. The gas is distributed in the protected room via a distribution pipe system with nozzles. The inerting and extinguishing properties of Argonite act quickly to eliminate the fire.

If there is more than one area to be protected in a building it can be designed as a multiple system. The quantity of extinguishing medium will be calculated for the largest area. The necessary number of Argonite cylinders for the respective area will be opened by quantity controlling valves. The extinguishing medium is distributed to the respective area by section valves.



Provided there is no danger at any time that another area in the same building may be on fire, the costs of the fire protection system can be reduced considerably.



The use of the 300 bar Argonite system can reduce the number of steel cylinders by 30%. This results in more space for alternative uses or a reduction in building costs. Fewer cylinders also mean lower costs for transport, installation and maintenance as well as a smaller cost for replacing the cylinders after a discharge. The extinguishing system is brought into operating conditions quickly and cost effectively.

Argonite systems are ideally suited for the protection of fixed equipment and plant. They have been specially designed for the protection of high-value risks where fires can have devastating consequences far beyond the cost of damage and lost production.



Applications

- EDP centres
- Computer installations
- Telecommunication facilities
- Archive stores
- Petrochemical plants
- Offshore oil and gas installations
- Gas turbines
- Control centres

Advantages

- Fast-acting and effective against nearly all fire risks
- Space saving compared to 200 bar inert gas systems
- Environmentally neutral - zero ODP and zero GWP
- No post-fire residual extinguishing agent or damage to protected equipment
- Electrically non-conductive
- Safe for occupied areas
- Automatic or manual release
- Suitable for room flooding or local protection systems



System Design

The Argonite fire extinguishing system uses a gaseous mixture of 50% Nitrogen and 50% Argon. It reduces the oxygen concentration to a level at which human exposure for short period is acceptable. It extinguishes the fire quickly and effectively without any harmful effects on people.

Knowing the size and complexity of the area to be protected, the existing fire risks and the requirements of the local approval authority, a special computer program is used to evaluate the size and geometry of the Argonite system hardware.

Valves for Argonite

The construction of the valves allows the re-filling of the extinguishing agent cylinders worldwide without the need for replacement parts.

An easy-to-read gauge enables convenient inspection of the agent pressure and a pressure switch is fitted as standard to allow remote monitoring of the system's integrity.

Approvals

The extinguishing medium Argonite is approved in Germany by the Saxon State Ministry of Affairs and the relevant Ordinance applicable to each one of the other Federal States of Germany to Kidde Brandschutz GmbH under the approval No. SP 52/04 for plastic fires and for the fire classes A and B according to DIN EN 2.

Argonite systems are approved and/or certified by eminent international boards and certifying associations. These are NFPA, DNV, Lloyds Register, Bureau Veritas, the Loss Prevention Certification Board, CNPP, EPA and VdS Schadenverhütung.