INERGEN® System with iFLOW Technology

Proven clean agent

- Naturally-occurring gases
- Nontoxic: approved for occupied spaces
- No vision-obscuring fog upon discharge
- No ozone depletion potential
- No global warming potential

Delivery system technology

- Regulates discharge pressure
- Reduces agent storage footprint
- Flexibility in design and installation
- Multiple hazard protection
- Remote storage location
- Reduces venting requirements
- UL listed and FM approved

Using iFLOW delivery technology, the INERGEN® Clean-Agent Fire Suppression System provides a regulated agent discharge into the protected hazard area.

A Superior Fire Suppression Solution

INERGEN agent is composed of naturally-occurring gases found in the air we breathe. Unlike other inert gas agents, INERGEN agent includes a small percentage of carbon dioxide which enhances its ability to sustain life in a reduced oxygen atmosphere.

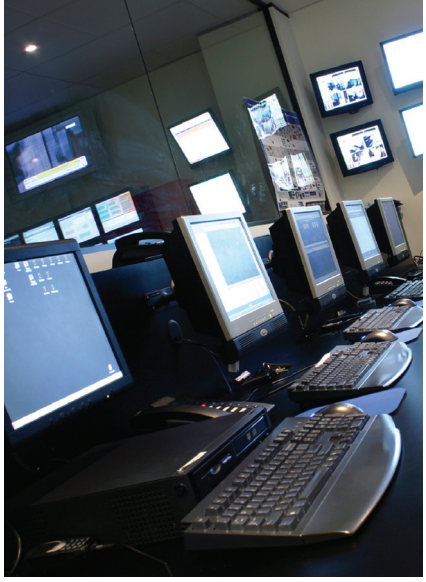
INERGEN agent is nontoxic, does not produce corrosive decomposition products when exposed to fire and is designed to protect valuable or sensitive assets that could be damaged by conventional agents. When discharged, it will not produce a fog, so escape routes will remain visible. And in the aftermath of an incident, the agent simply returns to the atmosphere in its natural state causing no environmental impact.

iFLOW System Technology

During a typical inert gas system discharge, peak pressure and flow spikes occur. It is these peaks that are used to determine the pipe size specification and venting requirements. The iFLOW system reduces pressure spikes in the distribution pipe network during discharge. This allows for the use of smaller diameter, lower pressure-rated piping and reduced pressure relief venting requirements.

An enhancement to the proven agent technology, the iFLOW system is based on three main elements:

- The iFLOW valve reduces the peak pressure and regulates the flow at a nominal pressure of 60 bar (870 psi) in the 300 bar (4350 psi) system, while maintaining the ability to achieve 95% of the system design concentration within 60 or 120 seconds.
- The iFLOW horizontal check valve minimizes installation time by facilitating the interconnection of containers and, in many cases, eliminates the need for a discharge manifold.
- The iFLOW matrix system offers design flexibility and adaptation to complex architectural spaces. When compared with traditional racking, the matrix system allows storage containers to be positioned in traditional rows or around objects providing more flexibility during installation and quicker removal of containers from the bank during recharge and maintenance.



APPLICATIONS FOR THE INERGEN iFLOW FIRE SUPPRESSION SYSTEM

- Air traffic control towers
- Archives
- Art galleries
- Clean manufacturing
- Computer rooms
- Cultural/historical sites
- Data centers
- Health care facilities
- Libraries
- Machinery spaces
- Mass transit control rooms
- Mining/motor control centers
- Museums
- Offshore facilities
- Power generation facilities
- Refineries
- Subfloors
- Switchgear rooms

The iFLOW system can be actuated by detection and control equipment for automatic system operation along with providing local and remote manual operation as needed. Accessories are used to provide alarms, ventilation control, door closures or other auxiliary shutdown or activation functions.

The Ultimate Fire Suppression Solution

The ANSUL brand promises a full range of quality fire protection solutions – from automatic detection and suppression systems to a complete line of wheeled and hand portable fire extinguishers and more. Plus, our extensive network of Authorized ANSUL Distributors provides factory-trained professionals to serve our customers virtually anywhere in the world.

A Passion for Protection

Dedicated customer support. Extensive product portfolio. Engineering excellence. Trusted, proven brands. Johnson Controls offers all of these attributes, plus a passion for protection. It's what drives us to create solutions to help safeguard what matters most – your valued people, property and business.

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