



## iFLOW Fire Suppression System

### Proven Agent Technologies

- Naturally occurring gases
- No fogging upon discharge to obscure escape routes
- No ozone depletion potential
- No global warming potential

### Innovative Delivery System Technology

- Regulated discharge pressure
- Reduces storage space requirements
- Flexibility in design and installation
- Multiple hazard protection
- Remote container storage location
- Reduces venting requirements

Using innovative technology, the iFLOW Fire Suppression System is a state-of-the-art delivery system that provides a regulated and effective discharge of inert gas clean agent. Inert gases are colourless and odourless, safe for people, the environment and cause no damage to property.

### A superior fire suppression solution

The use of inert gases is a proven method for suppressing fire, using naturally occurring gas(es) in areas where people may be present or where valuable or sensitive assets could be damaged by conventional agents.

During a typical inert gas system discharge, a peak pressure and flow spike occurs. It is these peaks that are used to determine the pipe size specification and venting requirements. The iFLOW system eliminates this pressure spike by providing a controlled flow during discharge. This allows for the use of smaller diameter, low pressure piping and reduced pressure relief venting requirements.

### An innovation in fire protection

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

- The iFLOW valve eliminates the peak pressure and regulates the flow at a nominal pressure of 60 bar in the 300 bar system and 40 bar in the 200 bar version, whilst maintaining the ability to achieve 95% of 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. It also serves as a safety device, preventing loss of agent, in the event the containers are removed from the system during maintenance.
- The iFLOW matrix system offers design flexibility and adaptation to complex architectural spaces. When compared with traditional racking systems, the matrix system incorporates a distinctive design that provides more flexibility during installation and quicker removal of containers from the bank, during recharge and maintenance.



## Applications for the iFLOW Fire Suppression System

Air Traffic Control Towers  
Archives  
Art Galleries  
Clean Manufacturing  
Computer Rooms  
Cultural/Historical Sites  
Data Centres  
Health Care Facilities  
Libraries  
Machinery Spaces  
Mass Transit Control Rooms  
Mining/Motor Control Centres  
Museums  
Offshore Facilities  
Power Generation Facilities  
Refineries  
Subfloors  
Switchgear Rooms  
Telecommunications

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

No other fire suppression brand promises the full range of solutions or the quality of Johnson Controls from automatic detection and suppression systems to a full range of wheeled and portable extinguishers and more. Johnson Controls are backed by a worldwide network of factory trained distributors, the largest and best qualified in the industry.

### 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.