

S M O K E & F I R E S A F E T Y



## Are you effectively addressing the dangers?

When it comes to fire and smoke safety in hospital ventilation systems there is one company which has a proven track record...



**Safeguard Systems**  
THE DAMPER SPECIALIST COMPANY

[www.safeguard.ie](http://www.safeguard.ie)

## Hospital Smoke/Fire Damper & Control Systems

Safeguard Systems have been the market leaders in this area of life safety offering a complete solution in their market leading 'Smoke/ Shield' dampers combined with the 'V3' intelligent damper control & monitoring system.

This combination offers both the Consulting Engineer and the Hospital facility manager alike a comprehensive solution to the complex control requirements of modern fire safety strategies and a user friendly tool for monitoring and regular testing of smoke/fire dampers. It ensures damper reliability and functionality throughout the life span of a Hospital building.

The V3 damper control and monitoring system incorporates a graphical user interface providing live status of all activities with complete clarity of information.

With hundreds of projects successfully undertaken, Safeguard Systems have built up a wealth of Hospital specific understanding and practical experience which has been incorporated into V3's continuous product development programme insuring V3 will continue to meet and anticipate the trends and demands of the future.

### Intelligent Damper Control

It is common knowledge that in the event of a fire detection, ventilation shut down and building evacuation is not an option for a hospital, or at least not until all other options have been exhausted. It can be difficult, dangerous and even fatal to attempt to move or evacuate patients and is only considered in extreme cases. It is therefore essential that the intelligent control of dampers to initially contain and control the spread of smoke and fire be used.



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# DAMPER AND CONTROL SYSTEMS

The source and extent of the fire can then be established/extinguished and only as a last resort building occupants can be moved or sideways evacuated away from the affected areas. This containment strategy enables the remainder of the building to be kept 'Operational' and with minimal disturbance to patients, staff and the critical work of a busy Hospital.

## The V3 System

Unlike conventional control systems V3 is unique in that it has practically unlimited capacity to accommodate high numbers of dampers and the complexity of 'cause and effect' scenarios common to hospital projects. Being PC based it can also easily handle 11th hour changes such as additional damper numbers, zones, inputs/outputs, strategies etc, from the PC on site. No additional programming required.



## Routine testing

Intelligent control is also a critical feature during routine testing, which is now becoming an increasingly important issue, with BS9999 and various insurance bodies strongly recommending quarterly testing of all dampers. As yet, these are only recommendations; however, new EU legislation currently being prepared will demand frequent testing and certification of all 'life safety' dampers.



Without an intelligent control and monitoring system, this will prove to be an extremely costly, disruptive and laborious ask for building and safety managers.

Given the potentially fatal consequences of a damper failing to close in the event of a fire, or indeed open to provide smoke extraction, Safeguard has always promoted the concept of regular testing to ensure proper damper functionality and has made provision for scheduled, automatic damper testing and logging on the V3 system.

## STANDARDS

Safeguard dampers are fully compliant with the latest International, European & BS standards (ISO10294-1, EN1366-2 & BS ISO 10294-1) and are LPCB approved (Loss Prevention Certification Board) meaning 3rd party regular re-assessment/audit testing to ensure quality of product & service are maintained.

The V3 damper control & monitoring system is CE and LPCB approved.

## SAFEGARD SYSTEMS OFFER THE FOLLOWING DAMPER INTERFACES:

<b>SFDI</b>	Motorised spring return for smoke containment/extraction
<b>3PSFDI</b>	Position Balanced motorised spring return for smoke extraction
<b>SDI</b>	Smoke Motorised on/off for smoke containment/extraction
<b>FDI</b>	Fire Electrical release or monitoring only for fire containment
<b>HDI</b>	Hot 300°C for 1 hour for smoke containment/extraction

## FOR FURTHER INFORMATION CONTACT SAFEGARD SYSTEMS

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## SOME HOSPITAL PROJECTS BY SAFEGARD SYSTEMS

### IRELAND

ALTNAGELVIN HOSPITAL  
BEACON COURT HOSPITAL  
BELFAST CITY HOSPITAL  
BON SECOURS CORK  
GALWAY CLINIC  
JAMES CONNOLLY HOSPITAL  
MID-WESTERN REGIONAL HOSPITAL  
MUCKAMORE HOSPITAL  
MULLINGAR HOSPITAL  
OUR LADY'S HOSPICE  
ROYAL VICTORIA HOSPITAL  
SANTRY CLINIC  
ST FINBAR'S HOSPITAL  
ST JAMES HOSPITAL  
ST VINCENT'S HOSPITAL  
TEMPLE STREET HOSPITAL  
WEXFORD GENERAL HOSPITAL  
WHITFIELD CLINIC

### UK

ABERDEEN CHILDREN'S HOSPITAL  
CHARING CROSS HOSPITAL  
CHELTENHAM GENERAL HOSPITAL  
EVELINA CHILDREN'S HOSPITAL  
GOLDEN JUBILEE HOSPITAL  
KINGS COLLEGE HOSPITAL  
KINGS CROSS HOSPITAL  
LEICESTER ROYAL INFIRMARY  
LONDON CANCER CLINIC  
NOTTINGHAM CITY HOSPITAL  
NORTHAMPTON GENERAL HOSPITAL  
NUFFIELD HOSPITAL  
PERTH ROYAL INFIRMARY  
PRINCE PHILLIP ELDERLY SERVICES HOSPITAL  
QE HOSPITAL BIRMINGHAM  
QE HOSPITAL GATESHEAD  
QUEEN ALEXANDER HOSPITAL  
PORTSMOUTH ROYAL FREE HOSPITAL  
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SOUTHAMPTON HOSPITAL  
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