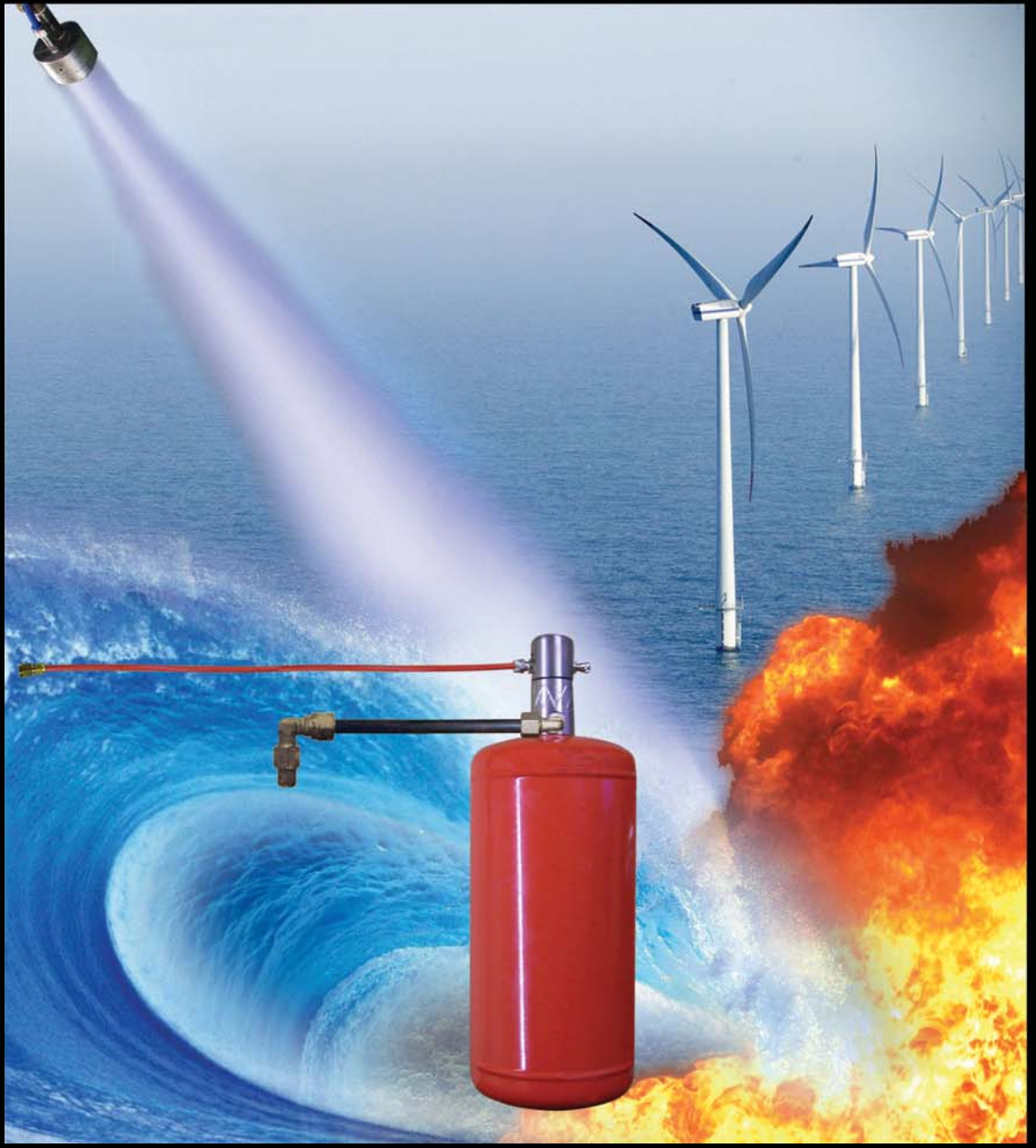


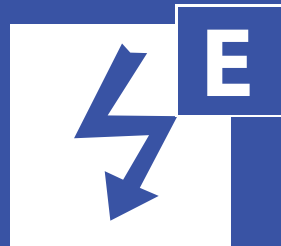
JEWEL[®] **FIRE SYSTEMS** **S - SERIES**



100% Environmentally friendly
Low pressure Dry Mist System
www.JewelFireSystems.com



Designed For:

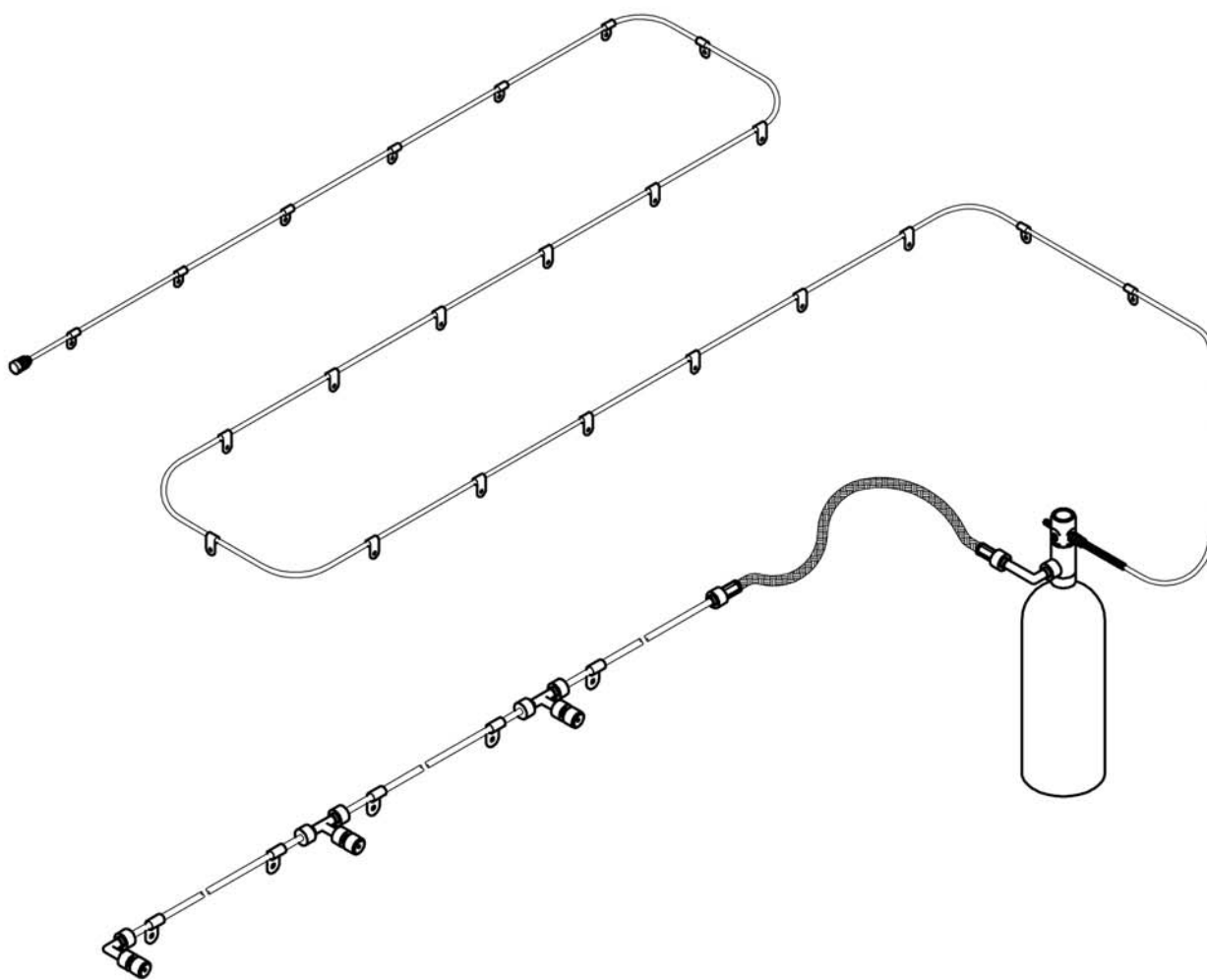


S SERIES Indirect

The S-Series, a 'Small Space' System: neat, simple and compact in design; for known risks, in defined areas. A versatile and adaptable system, the S-Series suits a vast variety of applications, with fully tailor-able configuration options.

NEW: Low Pressure Dry Mist Technology

Based upon patented Dry Water Mist the S-Series is unique in the protection against fire. Using advanced Dry Water Mist Technology the system not only extinguishes fires but also prevent re-ignition. The use of Dry Water Mist ensures no flooding or collateral damage to the source area.



Technical Summary

Design & Specification

The S-Series System is a flexible, modular design and is specified by the following actions:

1. Definition of risk and temperature
2. Selection of agent
3. Calculation of the agent quantity to ensure extinguishing, cooling and to prevent re-ignition
4. Specification of tube based upon the identified risk, temperature and conditions

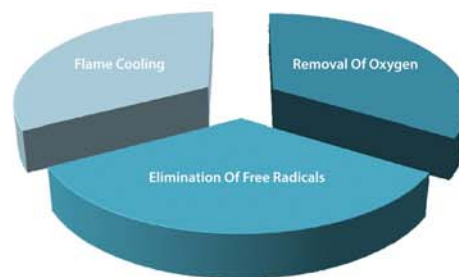
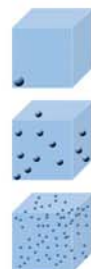
The system modularity means that we can offer System Specification and Installation Training for sites where frequent systems usage and installation are required

Agents

Low Pressure Dry Water Mist

Our unique patented Dry Water Mist operates at low pressure*. Atomising water into billions of droplets from as small as 25 microns in size. Designed to maximise fire fighting time and using a minimum amount of water, the S Series reduces down-time and collateral damage. The NEW technology turns the water, through the Mist-System into fog; at the point of contact with the risk source, the fog turns to steam, evaporating and becoming dry in the event of a fire, significantly reducing damage to the risk area.

- A B C Powder
- B C Powder
- Monnex Powder
- Metal Powders
- AFFF Foam
- Alcohol Resistant Foam
- Wet Chemical
- JFS-500
- FM200
- Novec



Diameter Of Droplet	# of droplets in 1 liter of water	Total cross section in 1m3	Total Surface Area in 1m3
0.12 (12cm)	1	0.0125	0.05
0.0006 (600 Microns)	8841941	2.5	10
0.0001 (100 Microns)	1909859317	15	60
0.00005 (50 Microns)	15278874537	30	120
0.000025 (25 Microns)	122230996295	60	240
0.000015 (15 Microns)	1909859317103	150	600

* System Mechanics

System specification range:

25-100 Micron

Overall system operating pressure:

4-16 Bar

Technical Summary

System Activation: The S-Series is a pneumatically activated system, which is totally self-contained. The 'Heat Triggered' Detection Line detects the fire, bursting at a pre-defined temperature; releasing the pressure and activating the valve. The valve activation triggers the discharged of the 'agent' onto the fire source, extinguishing the fire and preventing re-ignition.

Self Powering: The S-Series is a stand-alone system; independent of any form of power sources.



Burst Bulbs

Detection Tube

Fusible Link

Valves & System Mechanisms

- Indirect differential valve
- Manual cable with Burst Bulb Technology (mechanically and pneumatically operated)



Differential Valve



Manual Cable Activation

Installation & Maintenance

The S-Series system installation follows a structured pathway:

1. Configuration of components to design specification
2. System installation and set-up; following manufacturer approved procedures
3. Fitting and installation carried out using manufacturer approved and supplied parts



Installation of the S-Series is a fast and efficient process due to the system modularity and a minimal number of parts.



Maintenance should be carried out in accordance with the manufacturer's warranty guidelines; which are defined according to the system and the risk.

Applications

'Clean Room' Environments (Laboratories)

Catering & Food Production Environments

Commercial and Public Buildings

Cultural & Heritage Protection

Hazardous & High-Risk Environments (Chemical)

Hospital & Healthcare Environments

Information Technology Locations (Server Rooms)

Marine & Offshore Applications

Mechanical, Machinery & Production Environments (Industrial)

Off-Road / On-Road Vehicle Protection

Public Transportation & Transportation Environments (Rail, Bus & Stations)

Specialist Power and Energy Generation Facilities

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Newstead,
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