

Kemwell Flexi**Jet**

Jet Fire Rated Protection Systems

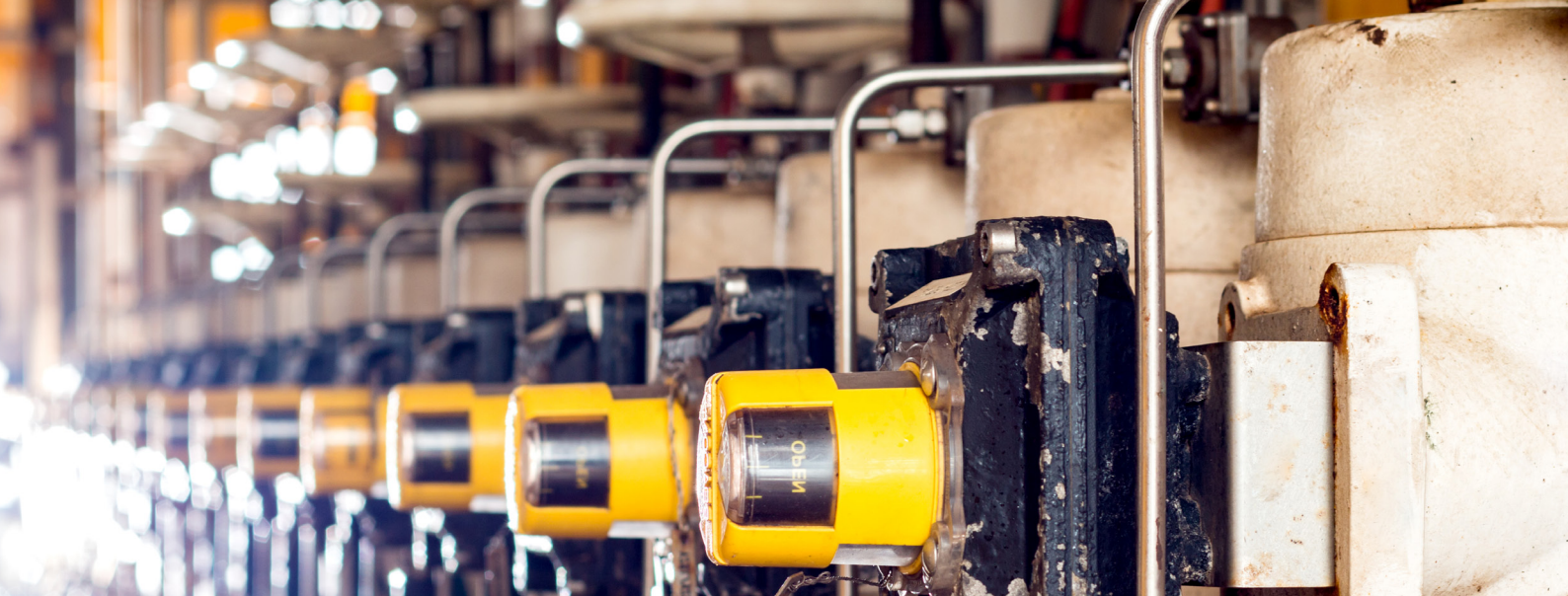
Protect and insulate equipment and instrumentation from the severest of fires



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PASSIVE FIRE PROTECTION

Specialists for the construction, infrastructure, transport, energy, industrial and commercial sectors.



Jet fire rated protection systems

Kemwell FlexiJet is an effective jet fire rated system that delivers protection of sensitive instrumentation and equipment from the destructive effects of a jet fire. It is a safe, versatile and cost-effective product that is easy to install.

Kemwell FlexiJet is tested in accordance with ISO 22899-1:2007 to exceed temperatures in excess of 1000°C and to maintain the full structural integrity of the equipment and is Lloyd's Register Assessed & Approved.

The single-tier jackets are highly flexible, providing easy access and maneuverability and protects a wide range of applications including ESDV's, actuator valve vessels, pipework and

instrumentation in hazardous areas on and offshore.

A jet or spray fire is a turbulent diffusion flame resulting from the combustion of a fuel continuously released with some significant momentum in a particular direction or directions. Jet fires can arise from releases of gaseous, flashing liquid (two phase) and pure liquid inventories.

Jet fires represent a significant element of the risk associated with major accidents on offshore installations. The high heat fluxes to impinged or engulfed objects can lead to structural failure or vessel/pipework failure and possible further escalation. The rapid development of a jet fire has important consequences for control and isolation strategies.

SERVICES

Our project team provides expert support services throughout all stages of any industry-wide project, including:

- Technical advice
- Supply of data sheets and certification
- Product selection and application consultation
- Site-visits
- Installation advice
- Educational Seminars
- Benefit from years of industry knowledge and experience

We understand the complex and stringent requirements of the building, construction, transport and marine industries and our products provide engineers, designers, developers, and contractors with adaptability and performance benefits to enable safe and innovative designs to be easily realised.

Please contact us to discuss your project or requirements further.

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APPLICATIONS

- 'A' class and IMO HSC steel, aluminium and PVC composite bulkhead and deck insulation in high-speed craft
- Upgrading of fire performance of composite panels to meet IMO room corner test requirements



You can specify Kemwell FlexiJet systems with confidence.



- H class and A-class steel bulkhead and deck fire protection for ships and offshore platforms
- Hydrocarbon and jet fire protection of process pipes
- Hydrocarbon and jet fire protection of vessels
- Infill to fire doors and cladding panels
- Construction joints
- Cellulosic and hydrocarbon fire protection of structural steelwork

SECTORS

- Offshore Oil & Gas
- Petrochemical
- Power generation
- Marine
- Defence

FEATURES



Fire Resistance

Tested in accordance with ISO 22899-1:2007 to exceed temperatures in excess of 1000°C and maintaining the full structural integrity of the equipment.



Hydrocarbon Protection

The system has been subjected to rigorous testing including various hydrocarbon tests and jet fire flame impingement tests. The jet fire test involves a sonic release of high pressure natural gas at a flow of 0.3 kilograms per second.



Easy Workability

Kemwell FlexiJet is easy to install by site personnel without the use of special tools or equipment. For ease of maintenance, each unit can be easily disassembled and reassembled by site personnel.

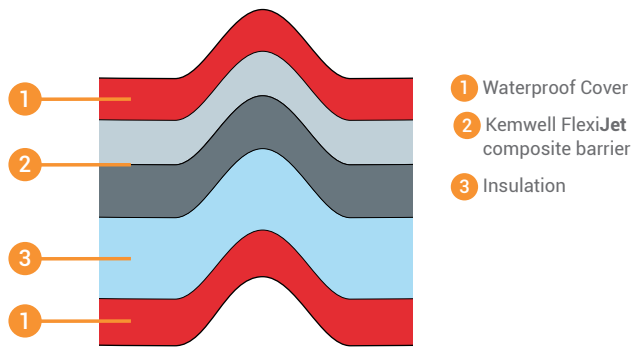


Durability

Kemwell FlexiJet jackets are constructed from a combination of innovative materials that provide exceptional resistance to temperature and erosion qualities of a jet fire.



THE SYSTEM



TECHNICAL SUPPORT

Designs and initial proposals of both hydrocarbon and jet fire soft enclosure systems offered by Kemwell are based upon the duration of protection required, flame temperature, size, and mass of equipment to be protected and limiting temperature on the surface of the equipment.

The enclosure systems have been independently tested to the hydrocarbon and jet fire time/ temperature fire curves and as a result approved by Lloyd's Register of Shipping.

Each system is designed to specific project/client requirements which may include removable access panels and venting within the enclosure. Standard features would include entry points for cable and service lines.

A site survey by a Kemwell Engineer is recommended to assess the equipment and the area local to the equipment. This is followed by a CAD generated drawing for client approval, prior to commencement of manufacture.



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