

# HVAC Insulation



HVAC / HIGH TEMPERATURE / INDUSTRIAL / FIRE PROTECTION / M&E FIRST FIX



## Kitsons, your trusted technical insulation partner

When your business demands more than just a distributor, choose Kitsons for stock, support, and technical insulation solutions.

Since the late 1800s, our name's stood for two things: thermal insulation and an ongoing commitment to quality. Because Kitsons is a name you can trust.

### More than a distributor

We're proud to be your local specialist with a national presence. Much more than a distributor, Kitsons not only guarantees the highest quality technical insulation products, suitable for a range of applications, but also subject-specific experience and logistics solutions applicable to a diverse range of sectors.

As a highly-valued industry partner, we work with a carefully curated network of manufacturers. Whether we're talking development and deployment or just seeing things from a new perspective, our industry experience enables us to offer impartial advice on the latest thermal insulation products and their technical applications.

# HVAC Insulation

HVAC Insulation is an important part of any heating, ventilation and air conditioning system. It plays a crucial role in the overall energy efficiency of heating and cooling systems by helping to reduce heat loss and energy waste.

Effective insulation is not only essential for maintaining the correct operating temperature of the system (be that hot or cold), it also has the additional benefit of helping to keep indoor temperatures stable to maintain a comfortable living and working environment.

HVAC Insulation not only improves energy efficiency for pipework and ductwork systems, it also protects them from the longer term impacts of condensation such as corrosion. These air conditioning and ventilation systems can also be loud so insulating them also improves acoustic performance, reducing disturbance from unwanted noise. The excess heat they produce could also pose a fire risk so proper insulation adds another layer of vital protection.

HVAC Insulation can be used in new buildings and refurbishments across large scale commercial and residential properties, high rise offices, apartment blocks, airports, hospitals, warehouses and other industrial facilities.

**Want to know more? Simply email [enquiries@kitsonsts.co.uk](mailto:enquiries@kitsonsts.co.uk) or speak to your local branch whose contact details can be found on page 12.**



# Our Expertise

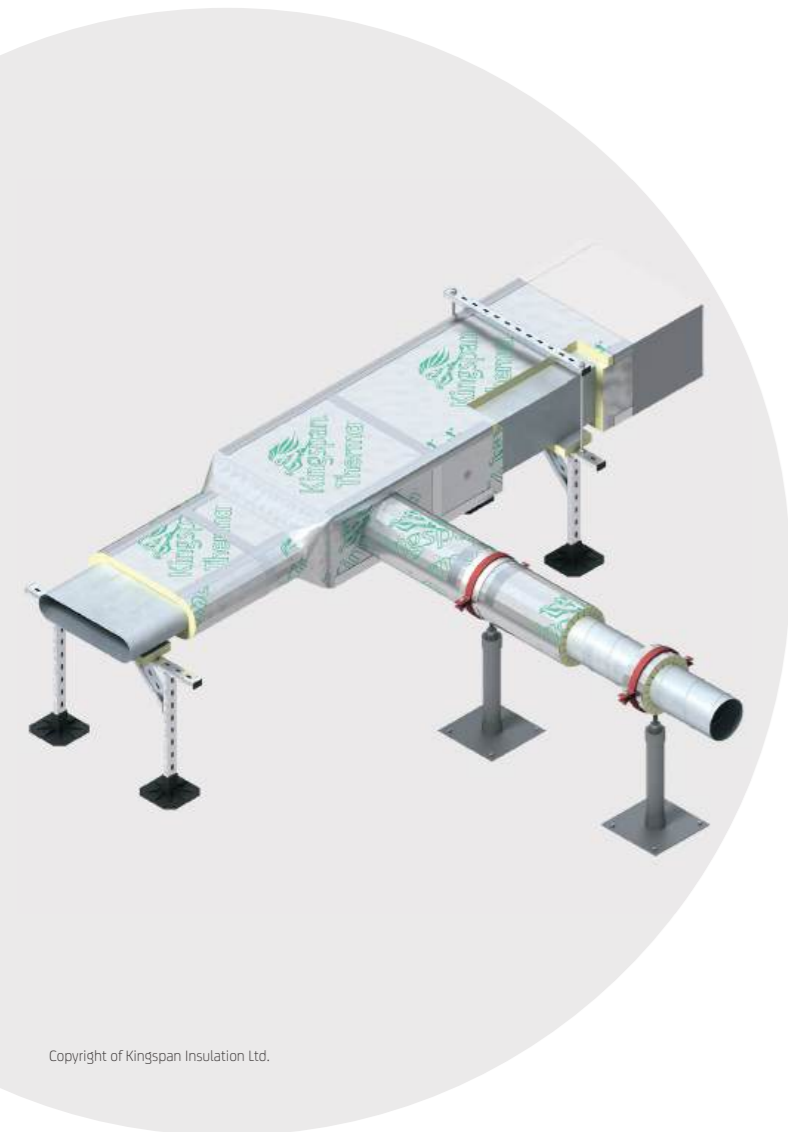
In order to achieve the maximum impact from HVAC Insulation, it is important to choose the right type of insulation for your specific HVAC system and needs.

There are many different types of pipework and ductwork insulation, each offering their own unique benefits.

Our dedicated technical insulation specialists will work with you, project by project, offering expert advice and guidance from the initial meeting, through every stage of the project, conducting on site visits where required, until completion.

Our aim is to source the right HVAC insulation products to ensure your project's successful completion. With dedicated nationwide branches stocking a wide range of HVAC insulation products, we provide quick access to the materials you need for efficient system insulation.

All products supplied by Kitsons are in accordance to BS 5422.\*



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\*BS 5422 is a British Standard that provides guidance on thermal insulation of pipework, ducting, and storage vessels in buildings and industrial applications. It specifies insulation thicknesses to control heat loss, condensation, and energy efficiency.



## Our Partnerships

Our specialist technical insulation team are experienced in working with manufacturers, specifiers and contractors on complex HVAC installations.

Working hand in hand with the leading manufacturers in this field, we are on hand to offer you technical support and guidance on all our products. Our partnerships with these manufacturers ensures we can confidently source products that offer the most suitable solution for the project.

## Our Range

Our partnerships with the leading product manufacturers in HVAC insulation and our unbiased, impartial approach means we have access to thousands of products so are able to find the perfect solution to meet the performance requirements of the project.



# Product Range



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Working with leading providers of HVAC Insulation enables our team of specialists to source bespoke solutions for projects. Some of our key product areas include:

## Duct Insulation

Duct insulation is essential for HVAC system performance, ensuring energy efficiency, temperature control, noise reduction, and, in some cases, fire protection. We offer a wide range of insulation solutions for both thermal and fire-rated applications, helping to improve system efficiency and safety in various environments.

### Thermal Duct Insulation

Effective HVAC systems rely on thermal duct insulation to maintain consistent airflow temperatures and minimise noise transmission.

We supply a range of thermal duct insulation products for both internal and external ductwork. Our selection includes duct slabs and duct wrap - available in phenolic, nitrile, rock and glass materials to suit different application needs.

### Fire-Rated Duct Insulation

Fire-rated duct insulation plays a critical role in fire safety by containing and preventing the spread of fire and smoke within a building. It helps maintain the integrity of HVAC systems in fire-rated zones.

We supply a range of fire-rated duct insulation solutions, including Rockwool FireDuct Slab, Rockwool Ductrock Slab, Isover Uprotect, and Knauf Fire-teK DuctProtect.

These products not only provide essential fire resistance but also contribute to thermal and acoustic insulation, ensuring compliance with fire safety regulations while enhancing overall system performance.

## Pipe Insulation

Effective pipe insulation in HVAC systems is essential for maintaining thermal performance and controlling condensation to enable them to function properly and achieve a long lifespan. Pipe insulation reduces the workload on HVAC systems, leading to lower energy consumption.

We supply a range of pipe insulation products from leading brands including Mineral wool, Glass wool, Phenolic & Nitrile insulation.

## HVAC Insulation Accessories

We offer a comprehensive range of technical insulation ancillaries suitable for industrial, HVAC, marine, and offshore applications. Our products, supplied by leading brands like Armacell, Bostik and Protech Global, include aluminium pure foil, PIB sheeting, tapes, fixings, and duct & pipe ID signage.

## Pipe Supports

Pipe supports are designed to provide structural stability and thermal insulation for piping systems, ensuring efficient operation. These supports help control pipe movement, reduce mechanical stress, and mitigate damage caused by thermal expansion and contraction.

Engineered to meet industry standards, they are available in various materials and protective finishes, offering different levels of corrosion resistance for diverse environmental conditions. Pipe supports also help maintain proper load distribution and system integrity in accordance with regulatory requirements.

Here at Kitsons, we have a team of specialist experts across a number of different areas who all work together to ensure the success of your project.



**HVAC Insulation specialists**



**First Fix M&E experts**



**High Temperature applications**

Simply visit our website to learn more about these areas or drop us an email to: [enquiries@kitsonsts.co.uk](mailto:enquiries@kitsonsts.co.uk)



# The Benefits of insulating HVAC systems

Our wide range of solutions for the insulation of HVAC systems provide a number of benefits to keep these systems running efficiently for longer, and to minimise the impact they have on the rest of the building.



## Condensation Protection

Cold water pipes tend to become wet when in a moist atmosphere due to condensation. This occurs when moist air is cooled to its "Dew Point", the point at which the water vapour in the atmosphere turns to liquid water. As the cold water pipes are normally at a lower temperature than their surroundings, this water tends to condense onto the pipe, leading to corrosion.

Appropriate HVAC insulation can help control condensation by limiting the temperature differential between the pipe surface and the surrounding air. By maintaining the insulation surface temperature above the dew point, correctly specified and installed insulation reduces the likelihood of surface condensation.



## Fire Protection

Ducts require fire protection for a number of reasons, notably to prevent the spread of fire between the different building elements they connect, or for smoke extract purposes. The main job for fire protection systems is to provide stability, integrity and insulation to steel ductwork in the event of a fire, for various periods depending on the system design.



## Energy Efficiency

Insulation of air conditioning and heating ductwork improves energy efficiency, controls temperature, and prevents condensation.

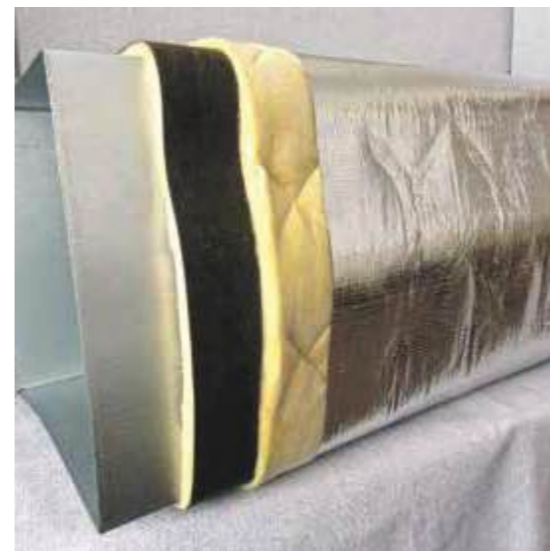
Air conditioning ducts operate below ambient temperatures. Without appropriate insulation, these ducts are susceptible to surface condensation, which can contribute to corrosion and mould growth.

Insulating heating ducts reduces heat loss and improves efficiency. Common materials include Mineral Wool (Stone & Glass), Ductwrap, Phenolic Slabs, and Nitrile Rubber, providing both thermal and acoustic benefits.



## Personal Protection

Insulating HVAC systems is essential for protecting personnel from hazardous surface temperatures on ductwork and piping. Proper insulation helps prevent burns from high-temperature surfaces and cold-related injuries from chilled pipes. By maintaining controlled surface temperatures, insulation enhances occupational safety, reduces the risk of accidental contact injuries, and supports regulatory compliance in HVAC system installations.



## Indoor Environmental Quality

Acoustic insulation is crucial for HVAC installations and plays an important role in enhancing indoor environmental quality (IEQ) across a wide range of occupied spaces.



# Product Performance and Compliance

Complete peace of mind, when you need it most

At Kitsons, we aim to offer our customers complete peace of mind when working in complex and high pressure environments. That's why all our products...

- Meet legislative requirements
- Are fully traceable
- Come with legally compliant documentation

As part of SIG, our wider team of compliance specialists work in conjunction with and support suppliers to ensure all products meet essential regulatory compliance standards, including:

- ✓ UKCA/CE Marking
- ✓ REACH
- ✓ Safety Data Sheets
- ✓ UKTR/EUTR
- ✓ Poisons & Explosives Precursors
- ✓ Psychoactive substances
- ✓ Modern Slavery
- ✓ Biocidal products regulation (BPR)
- ✓ Restriction of hazardous substance (RoHS)
- ✓ Conflict Minerals
- ✓ Nuclear sector accreditation

For a full list, visit [sigassured.co.uk](http://sigassured.co.uk)

SIG Assured will continue to evolve to meet new legislation and product changes.

We conduct rigorous assessments against regulatory standards, offer full product traceability, and are committed to working towards greater consumer confidence in product safety and compliance going forward.



## Code for Construction Product Information



Kitsons Technical Supplies are a key part of the SIG UK business, who have passed the Code for Construction Product Information (CCPI) Assessment for Merchants and Distributors. This enhances customer confidence through accurate product representation and contributes to raising product information standards across the industry as a whole.

As a specialist technical product and insulation distributor, we understand the importance of product information clarity and compliance especially within regulated industries and recognise our customers need assurance that they are getting the correct product for their specific requirements.

Having met the requirements set out in the CCPI Merchants and Distributors Code Vision, this confirms that we have the necessary product information processes and systems in place to uphold the standards and values of the CCPI.

## Supporting Building Services



Kitsons are proud members of the Thermal Insulation Contractors Association (TICA) and work closely with them to help support the industry and ensure a highly skilled workforce and an industry fully equipped to provide ever increasing energy efficiency.



We are proud members of ADCAS (Association of Ductwork Contractors and Allied Services), demonstrating our commitment to industry standards, quality, and innovation in HVAC solutions.



We are proud to be an affiliate of the Building Engineering Services Association (BESA), renowned for its role in shaping standards and best practices across the industry.

# Contact your local Kitsons branch to find out more



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