

Terminal Air Conditioning

TROX UK Ltd

TROX has a reputation for developing innovative terminal air conditioning systems to satisfy the most challenging architectural and building service applications around the globe.

Chilled Beams

TROX is a market leader in the development, manufacture and supply of chilled beams. It offers a full range of recessed and exposed active and passive beams that can be incorporated into Commercial Office, Healthcare, Educational, Industrial and Hotel projects.

Multi Service Chilled Beams (MSCB)

MSCBs are highly energy-efficient systems that eliminate the need for suspended ceilings and reduce the building's minimum slab-to-soffit height to 2.8m. This means that a five-storey building can be built to the same height as a traditional four-storey building.

MSCBs encourage natural thermal cooling from the exposed mass of the concrete ceiling soffit, and have lower capital and whole-life costs compared to traditional fan coil systems.

They can accommodate future changes in space requirements, integrating easily with alterations to partitioning and layout.

The bespoke designed beams can incorporate; cooling and heating, lighting, public address system, smoke detectors, PIR sensors, BMS cables, voice and data cables, CCTV, smoke sensors.

The multi service chilled beam flexibility in design is enhanced by the fact that it is constructed from architectural extruded aluminium sections which interlock to provide an infinite range of shapes and apertures. With this flexibility virtually all lighting systems can easily be incorporated into the chilled beam.

TROX has in-depth experience of the latest developments in lighting technology, and works closely with its suppliers, to enable every innovative feature available in the market place to be incorporated in multi service chilled beams. In addition to designing its own lighting schemes for chilled beams, TROX works in close collaboration with the major lighting manufacturers in the industry to offer the widest choice of lighting solutions, combining aesthetics with energy efficiency, while complying with CIBSE Lighting Guide LG7.

Fan Coil Units

Traditional air conditioning terminal unit that combines with diffusers, for air conditioning offices, hotel rooms, shops and restaurants.

TROX guarantees noise levels, as well as thermal and aerodynamic performance, using a computer program that evaluates optimum selections for the most cost-effective fan coil systems.

For maximum energy efficiency, TROX offers variable air volume fan coil units with EC motors. These reduce the air and water volume as the required temperature is achieved making considerable energy savings.

Localised air conditioning units suitable for heating and cooling are offered with individual room and zone control. Water-side fan coil units designed to meet UK market requirements, and are available in a range of horizontal or vertical versions.

Air Distribution

Type SDW, high induction swirl diffuser. It is available with square or circular face plates.

Type VSD, a high-capacity, high-induction linear slot diffuser designed for perimeter office applications. Individually adjustable barrels ensure maximum induction.

Type ADT, a traditional louvre-faced diffuser with horizontal air discharge. A range of edge flanges ensures successful ceiling grid integration.

Type ISM, allows integrated ceiling design, with fittings that combine the air supply and lighting. PIR and movement sensors, as well as sprinkler heads, may also be included.

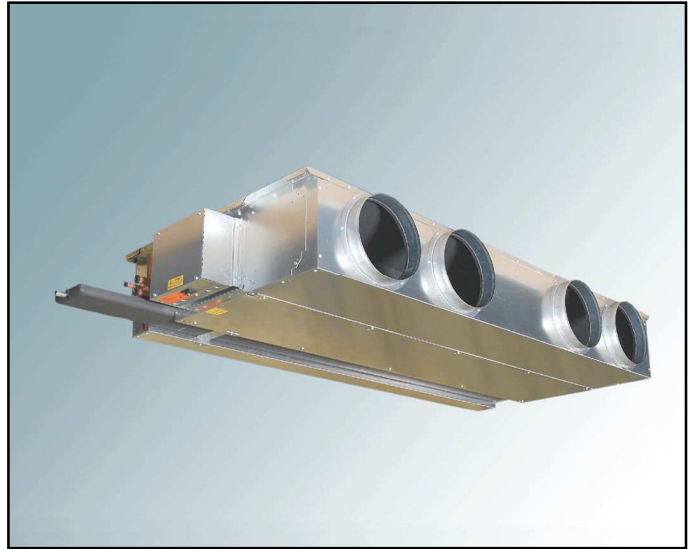
Technical Expertise

Drawing on over 50 years of experience within the construction industry, TROX's dedicated design bureau offers services ranging from initial briefing, outline proposals, detailed design, laboratory testing, design approval and guarantee through to construction implementation.

TROX involves architects, services consultants and contractors early in design process to ensure that the finished system will meet every requirement in terms of aesthetics, performance, installation and cost-efficiency.



Multi Service Chilled Beam installed at Newcastle City Library



3D image of Fan Coil Unit & Linear Slot Diffuser



Integrated ceiling design combining air diffuser, lighting, sprinkler head & smoke sensor

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