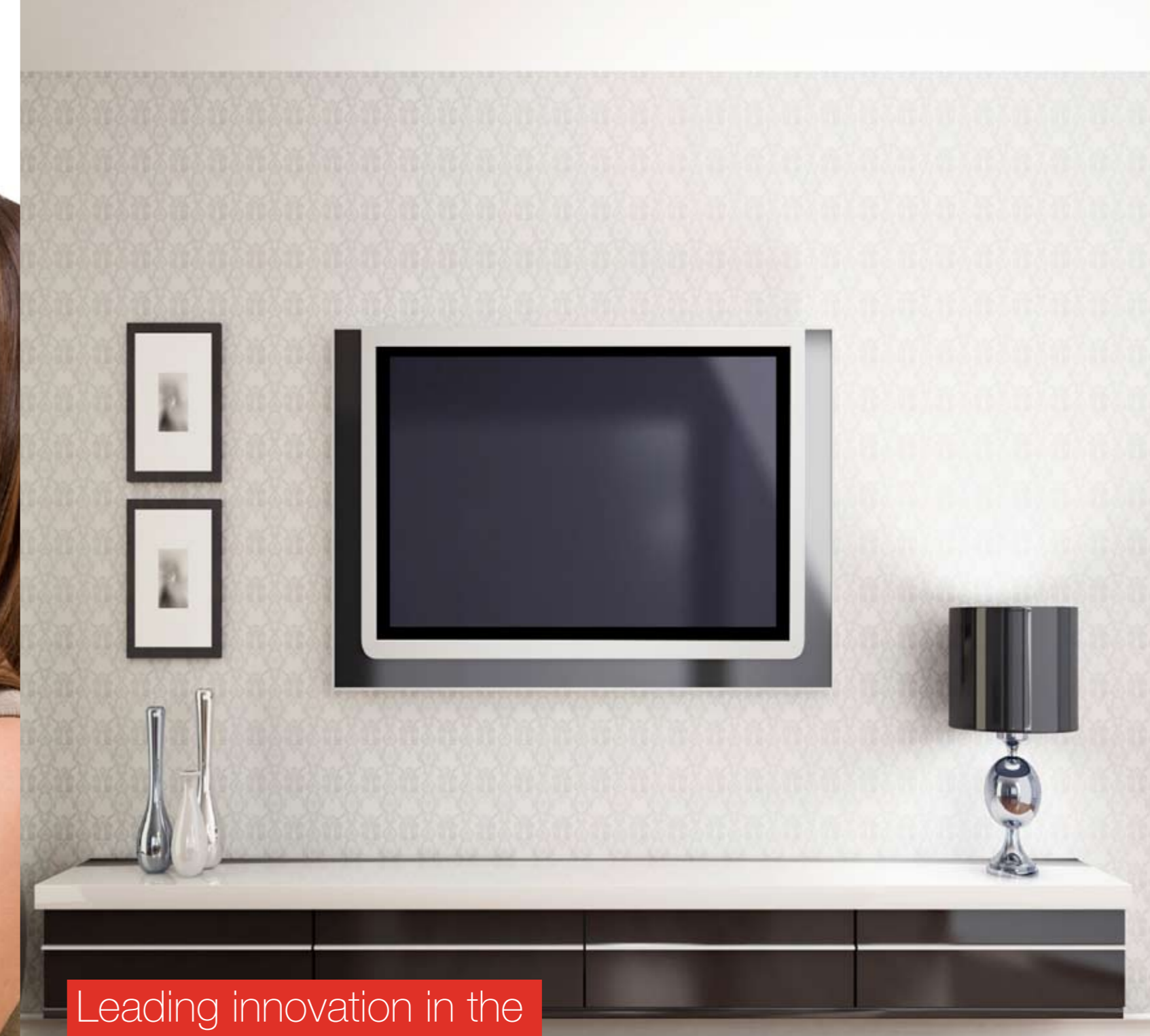




Thermal management for the ultra slim world



Leading innovation in the electronics market

Electronics manufacturers are constantly developing and advancing their products to stand out with improved functionality and accuracy of design. Consumers' requirements for high-quality performance, state of the art audio and graphics features and miniature design have become very demanding, with thinner and slimmer devices leading the market. Plasma TV's and portable DVD players have replaced cinemas and mobile phones and computers are now "all in one, on the go" business and entertainment centres with millions of different applications available to the user.

Multiple functions within a compact device generate a large amount of heat. Overheating can damage the most essential parts of a device, leaving the customer disappointed with the quality of the brand.

Heat is not a new problem for the electronics industry. However, with the rapid development of technology it has become more serious. The revolution in slim design has brought about the challenge to reduce the thickness and weight of thermal solutions within a device.

Scapa heat sink is approved by leading electronics manufacturers, as the ideal thermal solution for use in ultra thin electronic equipment. Its size efficiency makes it stand out from the thicker alternative technologies, ensuring the portability and light weight of devices.

Scapa heat sink allows manufacturers to compete on the durability and reliability of their products by solving heat dissipation problems.

For further information please contact your local distributor or Scapa customer care:

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Keeping technology cool

Freedom of design

Scapa heat sink successfully matches the 'slim and wide' concept, offering lightweight and convenient portability of electronic devices. The product can be manufactured in a style that meets the design requirements of the electronics industry. Heat sink saves on construction space, allowing greater freedom for manufacturers to create compact and ultra slim devices with a modern sleek design.

Thermal efficiency

Operational overload and state of the art applications in devices, challenge manufacturers with high heat fluxes. Scapa heat sink reduces the generated heat by up to 33°C.

High quality graphics for display devices

Reducing the temperature with Scapa heat sink adhesive helps to deliver high definition images to the end user, improving the colour performance of the screen.

Improved performance

Due to heat dissipation, devices can continue to perform without electronic errors. Brand credibility is enforced, as users enjoy uninterrupted performance from their device.

Extend product life

The ability to manage high heat fluxes extends a devices' product life. Scapa heat sink protects its core parts from overheating and increasing its overall durability. It helps to create a "reliable supplier" image, while users benefit from saving on repair costs.

A discreet but essential component

Scapa heat sink thermal solution transfers heat out of a device when placed on the top of a chip set, semiconductor or attached to a back light unit or the metal casing. The heat transfer enhances durability and helps to deliver long lasting performance to the device.



Scapa heat sink range

Depending on specific application and thickness requirements, Scapa offers flexible heat sinks and slim metal heat sinks.

Flexible heat sink is ultra thin film specially developed for super slim devices such as mobile phones, PCs and TVs.

Slim metal heat sink is an aluminium based heat sink available in different thicknesses to transfer the heat from slim electronic components.

Unlike other equivalent technologies, Scapa heat sinks are designed to revolutionise the lightweight and portability of state of art electronic devices.





Scapa Flexible Heat Sink

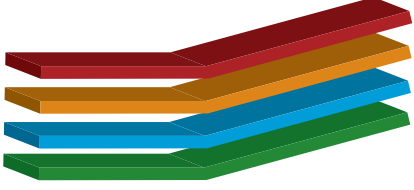
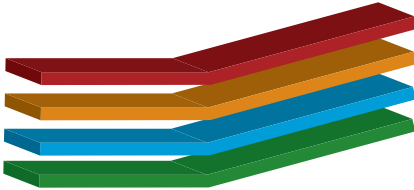
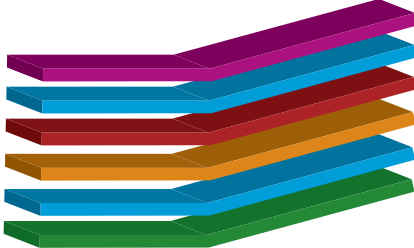
Scapa flexible heat sink has a thermal conductive adhesive base, specially designed to transfer the heat from compact and ultra slim electronic devices.

With a thickness of less than 0.2mm and a simple construction, Scapa's flexible heat sink can be exclusively customised for any application within the latest ultra thin devices.

Scapa Heat Sink	Metal Carrier	Conductivity W/m.K	Thickness (mm)	Temperature Reduction	Applications
THF035C	Cu	400	0.115	Up to 33°C	Display (LED TV), Semiconductor (CPU, DSP, GPU, Memory), Set Top Box, Telecommunication Equipment (Router, Repeater), Power Transformer
THF070C	Cu		0.150		
THF050A	Al	200	0.130		
THF080A	Al		0.160		
THF050016P	Al		0.161		
THF080016P	Al		0.191		

Unique Product Construction

Scapa flexible heat sink is a thermal radiant agent, coated with copper or aluminium and spliced with a thermal conductive adhesive. Unlike other technologies, Scapa's heat sink is an ultra slim solution, allowing freedom to design and produce lightweight, portable devices.

Product	Description	Structure
THF035C	0.035mm copper metal carrier	 <ul style="list-style-type: none"> Thermal Radiant Agent Metal Carrier (Cu) Thermal Conductive Adhesive Liner
THF070C	0.070mm copper metal carrier	
THF050A	0.05mm aluminium metal carrier	 <ul style="list-style-type: none"> Thermal Radiant Agent Metal Carrier (Al) Thermal Conductive Adhesive Liner
THF080A	0.08mm aluminium metal carrier	
THF050016P	0.050mm aluminium metal carrier with 0.016mm polyester film	 <ul style="list-style-type: none"> Polyester Film Thermal Conductive Adhesive Thermal Radiant Agent Metal Carrier (Al) Thermal Conductive Adhesive Liner
THF080016P	0.080mm aluminium metal carrier with 0.016mm polyester film	

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Scapa Slim Metal Heat Sink

Scapa slim metal heat sink, with a thermal radiant agent, is lighter in weight and simplified in shape compared to alternative aluminium pin or ceramic heat sinks.

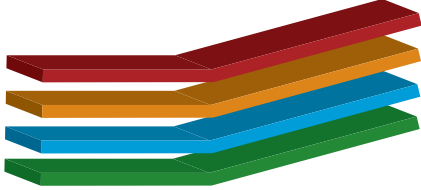
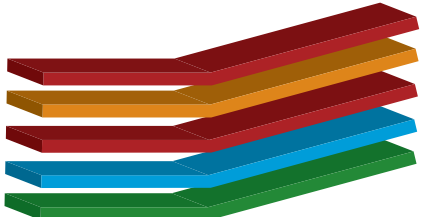
It comes in a wide range of thickness' and shapes, including flat, U shaped and Z shaped. It complies with the latest design requirements whilst solving the heat dissipation problems of modern electronic devices.

Scapa Heat Sink	Metal Carrier	Conductivity W/m.K	Thickness (mm)	Temperature Reduction	Applications
THMS60S	Al	200	0.88, 1.03, 1.13, 1.33	Up to 33°C	Display (LED TV), Semiconductor (CPU, DSP, GPU, Memory), Set Top Box, Telecommunication Equipment (Router, Repeater), Power Transformer
THMS60D	Al		0.91, 1.06, 1.16, 1.36		
THMS100S	Al		1.28, 1.43, 1.53, 1.73		
THMS100D	Al		1.31, 1.46, 1.56, 1.76		

Unique Product Construction

Scapa metal heat sink is an aluminium heat sink coated with a thermal radiant agent which is attached by a conductive adhesive.

It perfectly fits to the shape of the heat source, allowing more space and reduced weight, enabling greater freedom of design to the electronics industry.

Product	Description	Structure
THMS60S	0.60mm aluminium metal carrier with single sided coated thermal radiant agent.	 <ul style="list-style-type: none"> Thermal Radiant Agent Metal Carrier (Al) Thermal Conductive Adhesive Liner
THMS100S	1.00mm aluminium metal carrier with single sided coated thermal radiant agent.	
THMS60D	0.60mm aluminium metal carrier with double sided coated thermal radiant agent.	 <ul style="list-style-type: none"> Thermal Radiant Agent Metal Carrier (Al) Thermal Radiant Agent Thermal Conductive Adhesive Liner
THMS100D	1.00mm aluminium metal carrier with single sided coated thermal radiant agent.	

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