



Wall Channel and Stanchion Heating

Product sheet

Ice and condensation prevention systems for Wall Channels and Stanchions

V1.1 version

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Thermatek® is a registered trademark of Safeguard Electronic Systems Ltd.



Certificate No:253422016



Key features

- Ultra-low voltage system ensures maximum safety combined with high level of efficiency
- Based on 35 years of experience our technical team and consultants advise on the most cost-effective and reliable system for your project
- Individual transformers sized and made in the UK with the most popular transformer sizes always held in stock
- Our heating elements are made from 2.64 mm Stainless Steel coated wire designed to last longer than the lifetime of the coldstore / freezer. Projects engineered by Thermatek® have been in the ground for over 30 years
- Bespoke detailed design for each project is carried out and full drawings and installation instructions are supplied
- Thermatek® is a highly agile business ready to react to our customer's changing needs

Benefits

Custom solution

Bespoke designed and engineered solution matching your specific site requirement

Quality assurance

Quality is assured through our ISO9001 Certification

Quick response

Allows speedy response for projects with tight timescales

Durability

Safe in the knowledge that the most important part of our heating system, that which is inaccessible, is designed to last a lifetime, our customers need not be concerned with the future risk of ice forming

Efficient design

Installation is straightforward thanks to the detailed design drawing created for each project. The design will show exactly where to install the heating wires in the Wall Channel or Threshold

Timely delivery

We commit to meeting or exceeding project timelines to keep your work on track

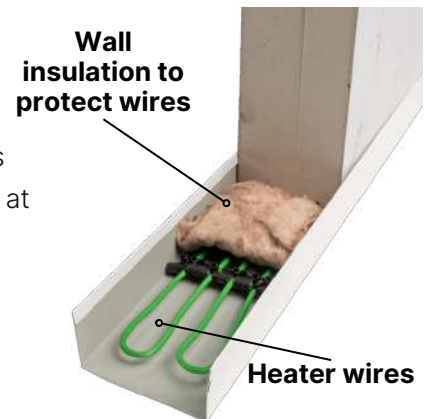


Product information

The edges, corners, and columns within cold stores and freezers are critical areas where condensation can form, potentially leading to ice accumulation or structural damage to adjacent rooms or spaces below. Thermatek offers reliable, ultra-low voltage heating solutions designed to prevent ice and condensation, ensuring the integrity and safety of cold storage facilities.

Wall Channel Heating

Thermatek® low- and ultra-low voltage wall channel heating systems are installed during freezer construction to provide targeted heating at the base of walls. Durable heavy-gauge stainless steel heating elements are placed within channels, beneath the walls, to deliver sufficient heat, keeping the lower wall sections and freezer edges frost-free while consuming minimal energy.



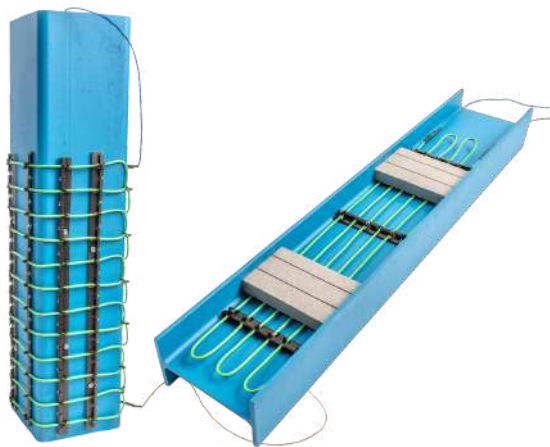
**Robust 2.64mm
Stainless Steel
heater wire**

Stanchion heating

Thermatek® stanchion heating systems prevent freezing along steel and concrete stanchions within cold rooms. Heating wires are strategically installed around or within the web of the stanchion, typically extending up to a height of 1 meter. This creates a thermal barrier that seamlessly connects with the frost heave prevention mat on the floor. By preventing freezing temperatures from traveling down the column into the subfloor, Thermatek® stanchion heating protects structural integrity and ensures optimal performance in cold storage environments.

Ultra-low voltage

Each system is powered by a custom designed Thermatek ultra-low voltage transformer, optimised to meet the specific heating requirements of the installation. This tailored approach ensures maximum energy and consistent performance.



*Stanchions kindly supplied by Pratley's Builders Beams

**Transformer
Housing**



Heater wire specification

ANNEALED & PVC COATED STAINLESS STEEL WIRE 1.4307							
C.	Si.	Mn.	P.	S.	Cr.	Ni.	N.
0,19	0,315	1,457	0,035	0,002	18,399	8,695	0,054

CORE SIZE	2.64mm
TENSILE	653N/mm2
ELONGATION	65%

You can find all the standards we adhere to in producing our products on thermatek.co.uk/standards



About us

Based in the UK, Thermatek® specialises in **bespoke frost heave and condensation prevention systems, designed and manufactured in the UK** to meet the unique demands of each client. With almost 35 years of experience, 14,000 installations and **ISO9001-certified** quality, our durable, ultra low-voltage systems are trusted by high-profile clients around the world. Our solutions offer unmatched fit-and-forget reliability ensuring cold stores run smoothly and carefree.

>14,000 projects



+2°C to -80°C



10sqM to > 9,000sqM



35 years



ISO 9001



International



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