



VULCAN

INFRA-RED EMITTERS APPLICATIONS AUTOMOTIVE INDUSTRY

Pre-Heating/Activation Of Adhesives

Vulcan have developed and built four compact infra-red ovens to soften soundproofing pyroplastic reinforcement material for use in the automotive industry.

When heated the material can be moulded around complicated shapes to form permanent soundproofed areas on cooling. In developing a suitable oven, Vulcan needed to find a way to make the material pliable by heating it all through rather than just the surface layer, but without overheating, and to activate the surface adhesive without burning the product.



The oven uses Vulcatherm fast-response medium wave infra-red quartz emitters, located at the top of the oven. The emitters' output temperature is directly controlled by an infra red optical pyrometer, positioned on the side of the oven and focused on the soundproofing material during heating.

A latching device senses material entering the oven allowing the emitters to be switched on and off when the material is put into the oven or taken out. The inner oven lining is made of thermally insulated stainless steel to minimise heat loss.

The oven is designed to operate on a single phase mains supply for portability.

DISCLAIMER

Any advice, opinion, recommendation or information is given to assist the use of the company's products but on the basis that the end user must ensure their suitability for the application intended.

In particular the company cannot accept liability for loss or damage which may arise from the incorrect use of its products or from poor workmanship on the part of the user.

Information is compiled from routine quality control testing and does not constitute a specification.

Information is provided in good faith and is subject to review whenever necessary and no guarantee or warranty is implied.

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