

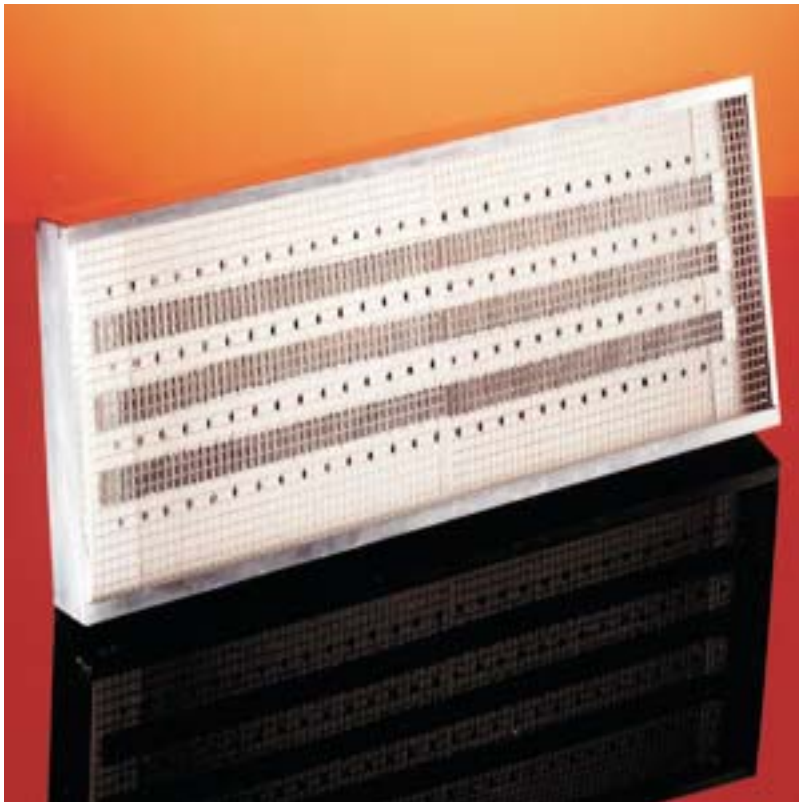


VULCAN

INFRA-RED EMITTERS APPLICATIONS COMPOSITES INDUSTRY

Pre-Heating Of Thermoplastic Composites

Pera has worked closely with Vulcan to develop a purpose-built three-zone oven incorporating Vulcan's FSA Series, which will heat the composite materials at 200° - 250°C. Vulcan has carried out special lab tests to determine the maximum efficiency wavelength for this application.



The first and second zones are used for pre-heating and soaking and are controlled by thermocouples. The third oven acts as a trim zone, and features an optical pyrometer with closed loop control which focuses on the material, measuring and adjusting the temperature as required.

Pera's requirement was for a fully controllable and consistent heat source, and rapid response times, reaching maximum operating output in just ten seconds.

FSA Series heaters used in the system are available to a maximum of 2500mm long, 600mm wide with a standard case thickness of 82mm. Outputs to 80kW/m² are achievable.

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.

THIS CD-ROM IS VALID UNTIL 31/12/2002 TO RECEIVE A CURRENT ISSUE PLEASE CONTACT VULCAN REFRACTORIES

Vulcan Refractories Limited

Tel. +44 (0)1538 752 238 Fax. +44 (0) 1538 753 349 E-Mail enquiries@vulcanrefractories.com Web www.vulcanrefractories.com