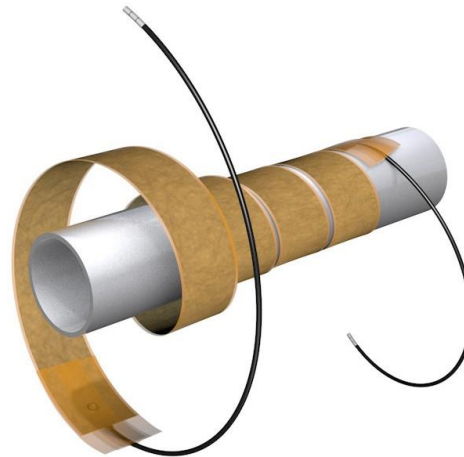


Data sheet

Heating Panels



Description:

Our CFH heating panels are made of insulated carbon fiber foil segments with incorporated copper tape conductors laminated onto a heat sink. They are connected to the grid via insulated cords, cables, sockets or connector blocks. The foil segments are manufactured according to customer's specification. Dimensions and shapes are adjusted to the specific requirements. Boreholes, clearances, attachment bolts or earthing rods are possible. Thanks to a special controller switch, the heating segments can be shunted for a faster heating-up and connected in series after reaching the set temperature in order to maintain it. This reduces the input power during continuous operation to 25% of the input for heating-up. A temperature sensor for temperature registration is integrated by default. Safety temperature limiters can be integrated according to customer's specification.

Technical Specifications:

Temperature range:	-40°C to +130°C
Operating voltage:	6 V to 690 V, DC or AC voltage
Specific heat output:	100 to 6000 W / m ²
Test voltage:	7,5 kV (1 min / +130°C)
Protection class:	IP 54, higher classes upon request
Electrical connection:	wire, cable, input jack or similar
Maximum length:	3000 mm
Maximum width:	1200 mm
Thickness:	0,8 mm (without heat sink)
Weight:	0,5 kg / m ² (without heat sink)
Fire protection classification:	S3, according to DIN 54837, quantifying to DIN 5510-2
Temperature control:	according to requirements
Fixing options:	adhesive bonding, pressing on or similar

Data concerning our products and devices, our equipment and processes are based on comprehensive research work and experience in technical applications. We share such results written and spoken to our best knowledge without taking any liability beyond the individual contract concerned and we reserve the right to apply technical changes based upon our ongoing product development. Moreover our application-technological service is available for further consulting or assistance in solving problems concerning manufacturing or applications. This doesn't however absolve the user from verifying in their own responsibility our indications and recommendations before applying them for their own use. The same applies – particularly with deliveries abroad – to the observance of protective rights of third parties and to applications or processes not explicitly indicated by us. In the event of damage our liability is limited to indemnifications of the amounts provided in our General Terms of Sale and Delivery in case of quality defects.