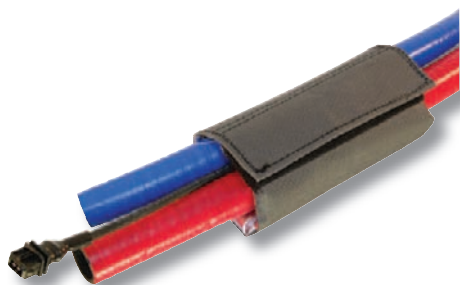


## Heating sleeve HFH Special

120 °C



This heating design - which features a special electronic temperature control unit - enables the utilisation of diesel motors which must be started or operated under -20°C.

This type of heating prevents the condensation of gases and liquids at temperatures under

-20°C. The heating is switched on through an outdoor sensor when an optionally selectable lower temperature falls short of the setting. A timer releases the heating power only after start-up of a dynamo in order to prevent the battery from being emptied. A second integrated control mechanism adjusts the operating temperature. It turns off if the outdoor temperature exceeds -20°C. In addition, the heating has excess temperature protection.

The outer protection material consists of PTFE-walled glass silk fabric which can withstand very rough conditions of utilisation.

At customer request, this heating with invisible, built-in control unit can be supplied as a collar with Velcro fastening or as a structural flat mat.

## Heating sleeve for tubes and cartridges

250 °C



The heating sleeve is a special physical form that can be adapted to the specifications of tubes and cartridges. Conventional dimensions as well as special shapes for one or more casks can be realised. The finished heater consists of a heated inside tube, thermal insulation and an outer jacket. These are available in a diverse array of high-quality materials that can be selected to match the application. The compact design with self-regulating PTC heating elements or standard heaters with integrated regulation guarantee optimal functionality and the highest level of safety.

<b>Operating temperature:</b>	max. 250° C
<b>Betriebsspannung:</b>	230 V AC/DC (andere auf Wunsch)
<b>Material Innenrohr:</b>	aluminium or stainless steel
<b>Dimensions:</b>	to specification
<b>Heating element:</b>	PTC heating technology, alternatively resistive heating
<b>Temperature detection:</b>	(resistive heating) PT100
<b>Integrated regulation:</b>	(resistive heating) HT54 temperature regulator
<b>Connector type:</b>	Euro safety plug or per specification
<b>Protection grade:</b>	ab IP 40, IP 54 (EN 60529) je nach Vorgabe
<b>Protection class:</b>	I