

## Electric High-Voltage Heater (HVH)

The High-Voltage Heater is a heating system for plug-in hybrids and electric vehicles. It converts electricity with DC voltages up to 450 volts into heat without loss. The heat output is infinitely variable from 0.2 to 7 kW. The overall product size has a volume of 1,700 cm<sup>3</sup>, with a weight of 2 kg therefore is more easily packaged in vehicle.



The innovative coolant heater for hybrid and electric vehicles in the passenger car as well as commercial vehicles segment.

Technical specifications:

	HVH
Heating capacity (kW) at $T_{med} = 60^{\circ}\text{C}$ , 500 l/h	7.0
Controllability (W)	200 - 7.000 40 W steps/400 Hz
Range of supply voltage (V DC)	up to 450
Max. loss of pressure (mbar) at $23^{\circ}\text{C}$ , 500 l/h	40
Temperature range during heat mode ( $^{\circ}\text{C}$ )	-40 to +90
Coolant- and ambient temperature ( $^{\circ}\text{C}$ )	-40 to +120
Weight (kg)	2
Dimensions (mm)	284 x 200 x 54
IP type of protection	IP 6K9K IP6K7
BUS system integration	LIN 2.1/CAN
Dielectric strength (V DC)	3,010
Insulation resistance ( $\text{M}\Omega$ )	50
Lifetime (years)	15
Heating time (h)	7,500

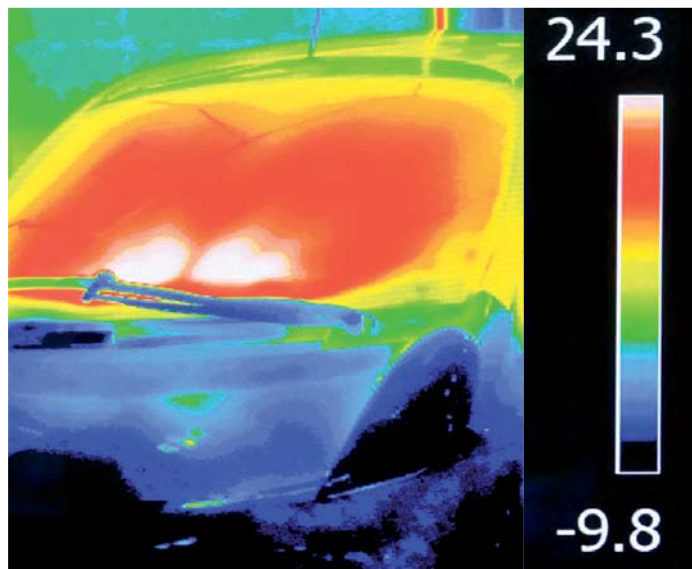
\* $T_{med}$  = Cooling medium temperature



Webasto test and development engineering



Winner in the category  
„Drive Systems, System Electrics,  
Test Systems“, 10/2013



Thermographic picture taken in the Webasto climate chamber

Ident-No. MK11131 • 09/15 • Errors and omissions excepted • Printed in Germany • © Webasto Thermo & Comfort SE 2015