

Hybrid



Electric

Explore our Technologies

High Voltage Air Heaters

for Passenger Cars

High Voltage Air Heaters

Technical Features

- High safety conscious product with 4.3 kV DC dielectric strength
- Dual zone heating left – right split
- Homogenous heating allocation
- Robust and compact electronics
- PTC stones completely protected against environment
- Robust mechanical design
- Wireless heater core temperature sensing
- Low pressure drop
- Problem free integration in existing HVAC systems
- Odourless heating – no usage of glue or pastes in mfg processes

System Benefits

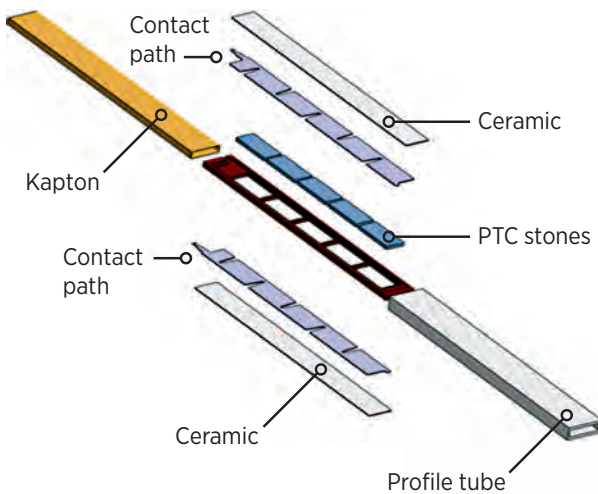
- Enclosed heater rod
 - Patented best in class solution
 - 4.7 kV breakdown on rod level
 - Excellent heat transfer
 - Safety and reliability
 - IP67
- Ripple current control
- Patented core temp sensing method
- Temperature homogeneity

Vehicle Application

- Main application with electrical or hybrid vehicles (High-Voltage)
- The heater is placed within the overall HVAC system and used to warm up the air stream coming from the HVAC blower
- Plug & Play module solution (No secondary costs shifted to OEM)

Specifications

Performance Specification	6.7 kW HV PTC Heater
Supply Voltage	210 – 470 V
Power @ Tair = 0 C, 400 CMH, 350 V	6.7 kW ± 5 %
Maximum current	< 30 A
IP protection	IP67
Air flow range	300 to 500 CMH
Air temperature range	-40°C to 85°C
Pressure drop @ 400 CMH	< 37 Pa
Electronic control	CAN
Breakdown voltage – Heater Core	4.3 kV DC
Breakdown voltage – PCBA	4.3 kV DC
Insulation resistance @ 600 VDC	100 MOhm
Weight	3.24 kg



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For Additional BorgWarner Information:
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