



ADAS HEATING SOLUTIONS

FREE FIELD OF VIEW IN ANY WEATHER CONDITION

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Innovations for the future

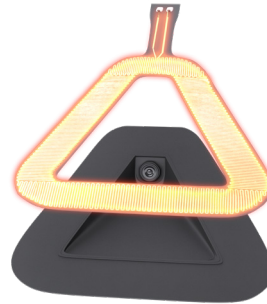
A partnership with Backer Calesco gives you a dedicated team of designers, project engineers and technical experts in the fields of electric heating, measurement and control, ready to provide you with the optimal solutions for your needs.



Front view camera heater / Closed triangle

Closed triangle mounted on the backside of the straylight cover using convection to heat up the camera field of view.

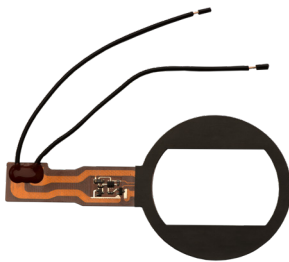
- Easy assembly
- Quick deicing/defogging
- Riveted pins, soldered wires or flextail connection



Front view camera heater / Open triangle

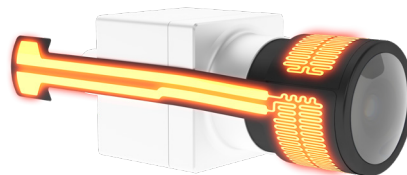
Open triangle mounted on the windshield, using heat transfer in the glass to clear camera field of view.

- Cost efficient
- Riveted pins, soldered wires or flextail connection



Night vision / Lens Heater

Front facing IR camera for detection and alert about pedestrians or wild-life in darkness/low visibility. Can also be delivered with integrated temperature control mounted directly on the heater.



Wrap around heater / Side view / Lens heater

Commonly used for blind spot monitoring or cross traffic alert. Mounted inside the camera housing.

VISION SYSTEM HEATERS

Vision systems need to have free field of view in any weather condition, and a heater from Backer Calesco can achieve this. Mist, condensation or ice reduces the functionality and all systems need heat to ensure a safe drive.

Lens heaters

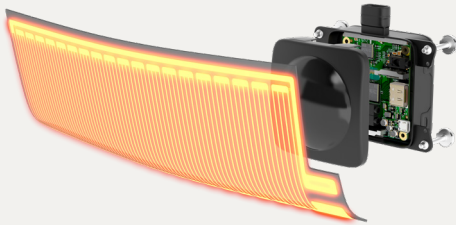
Can be mounted either as a wrap around on the lens barrel, or in the very front around the lens. We want to have the heater as close to the lens as possible in order to achieve good performance and fast deicing of the lens to clear camera field of view.

Front view heaters

Commonly used for lane assist, collision warning, keeping distance to other vehicles etc.

RADAR HEATERS

RADAR heaters are needed in wet & snowy conditions. Defogging and deicing of the radar field of view minimises incorrect readings, and avoids malfunction. Backer Calesco has, in close cooperation with Lund university, developed a robust constant wattage heater with minimal signal losses and great heating performance for a wide range of frequencies.



Advantages

- Avoids signal interference
- Minimises incorrect readings
- Great heating performance for a wide range of frequencies



Rear-view mirror heaters

Heaters for every specific rear-view mirror, either in Constant Wattage or PTC. We meet most of the car manufacturers specifications, through high and low power, depending on the allowed maximum temperature on the glass.

Constant wattage heaters

- Robust design controlled by onboard computer

PTC heaters

- Easy to use
- Self regulated heater



Headlight heaters

LEDs in headlights have no power loss, which leads to poor light exchange/visibility. This is solved by having a heater mounted on the base of the headlight, using heat convection for demisting.

- PTC heaters do not require additional temperature control
- Easy to mount
- Cost efficient solution

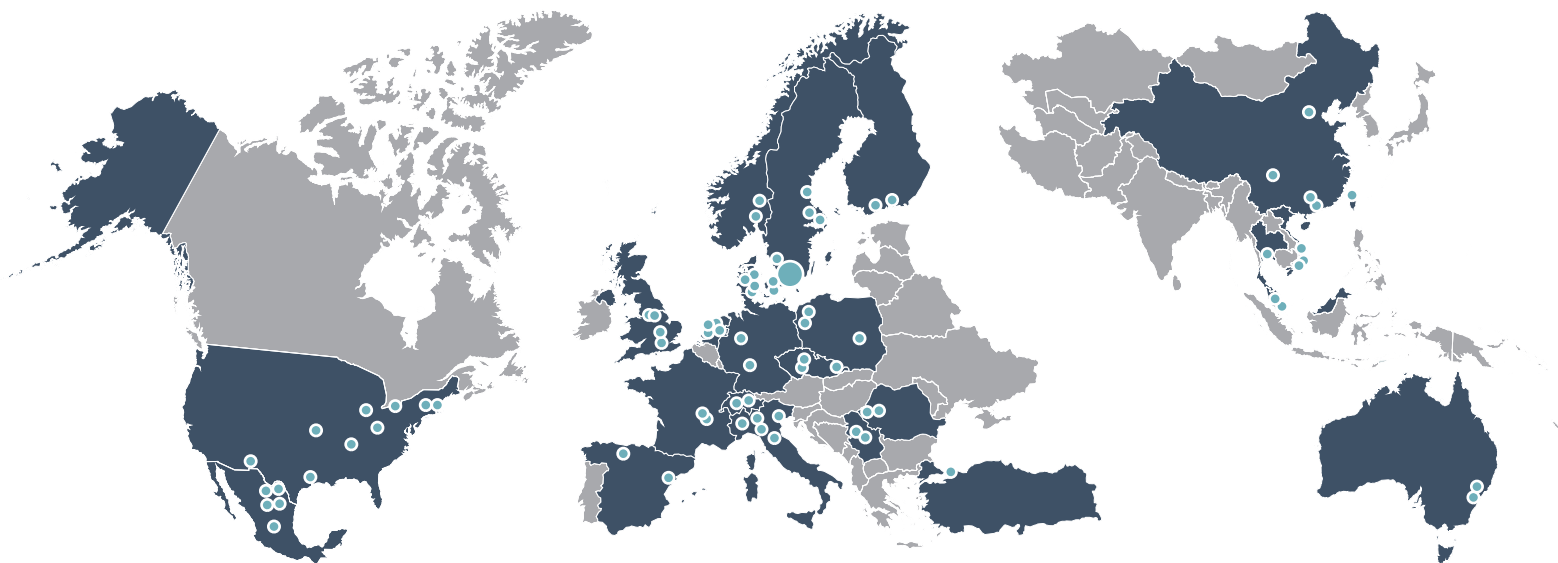


WIPER BLADE HEATER

A number of flexible foils assembled directly in the wiper and in the stand-by position for efficiency against icing and freezing of the wiper and the washer fluid nozzles, which makes it a safety application.

- Heaters against icing and freezing
- Safety application
- Free field of view

BACKER WORLD WIDE



BACKER GROUP

We strive to provide optimal technical solutions with the best possible quality at globally competitive prices. With advanced capabilities in laboratory testing, engineering, agency certification and production, our passion for exceeding our customers' expectations makes us the first choice in heating solutions.

Backer AB is the headquarters for the Backer Group. Together we develop, produce and sell

customized solutions and components for electrical heating, measurement and control. With over 80 production sites and 10,000 employees worldwide, the Backer Group is the leading supplier in the heating element industry and offers the latest technologies and products on the market. All based on the first tubular heating element that our founder Christian Backer patented already back in 1921.

INDUSTRIES WE SERVE



AUTOMOTIVE



LIFE SCIENCE



RAILWAY



BATTERY



COMFORT



COMMERCIAL
EQUIPMENT

BACKER CALESCO IS CERTIFIED

- IATF 16949
- ISO 9001 & ISO 14001



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