

Seat ventilation

Compact and effective solutions from ebm-papst.

ebmpapst

the engineer's choice

YES! We have the fan for that.

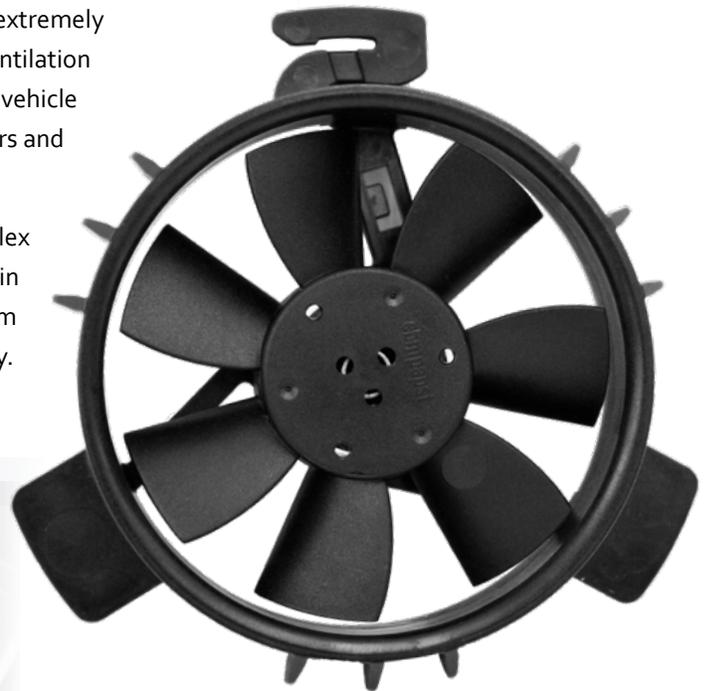
ebm-papst drives comfort in mobile environments!

People rightfully expect to stay cool and comfortable in their vehicles, yet making that happen is not an easy task. In the seating area, external environmental factors such as outside temperature, solar radiation, and humidity contribute to extreme climate conditions. Additionally, perspiration that is not drawn away from the skin causes discomfort.

When incorporating a seat ventilation system many factors need to be considered, such as the need for low vibration and easy integration of the fans into the smallest possible space. Our innovative solutions feature compact axial fan designs that work quietly and effectively to achieve the ideal comfort level.

The fans, ranging in size from 40 to 60 mm in diameter, are built into the cushion and backrest. Equipped with brushless EC motors, the ventilation system is quiet, intelligently controlled and extremely durable. This technology defines the standard for future seat ventilation applications - not only for premium class and other passenger vehicle segments, but for commercial vehicles including trucks, tractors and construction equipment as well.

The increasingly compact design of vehicle seats place complex requirements on climate management. Our expertise in aerodynamics and motor technology allows for optimum ventilation and constant exchange of air between seat and body.



**Axial and
radial systems**



60mm axial fans install directly into factory seat cushion with minimal modification required.

Seat ventilation

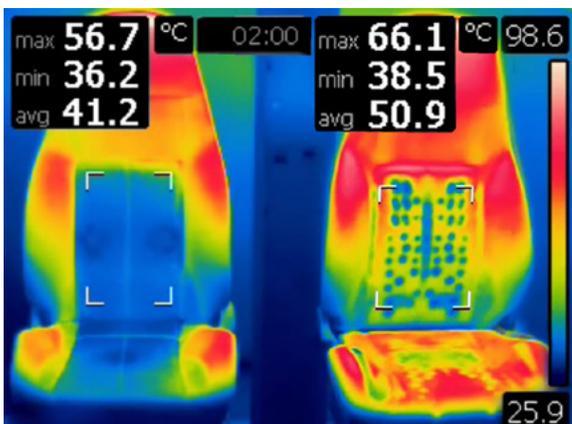
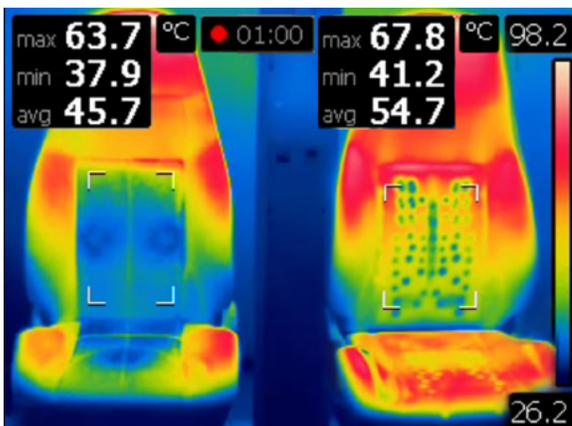
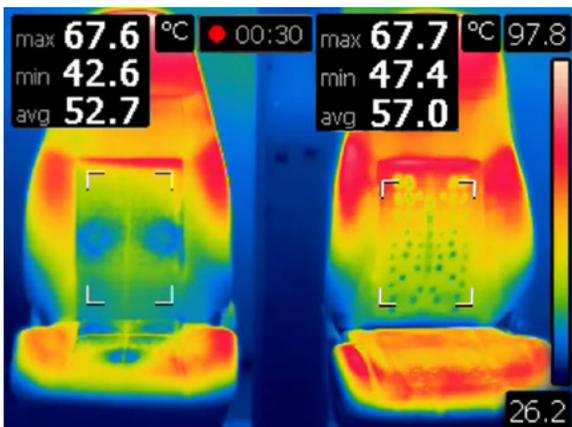
Time to comfort - cooling distribution.

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ebm-papst
Axial

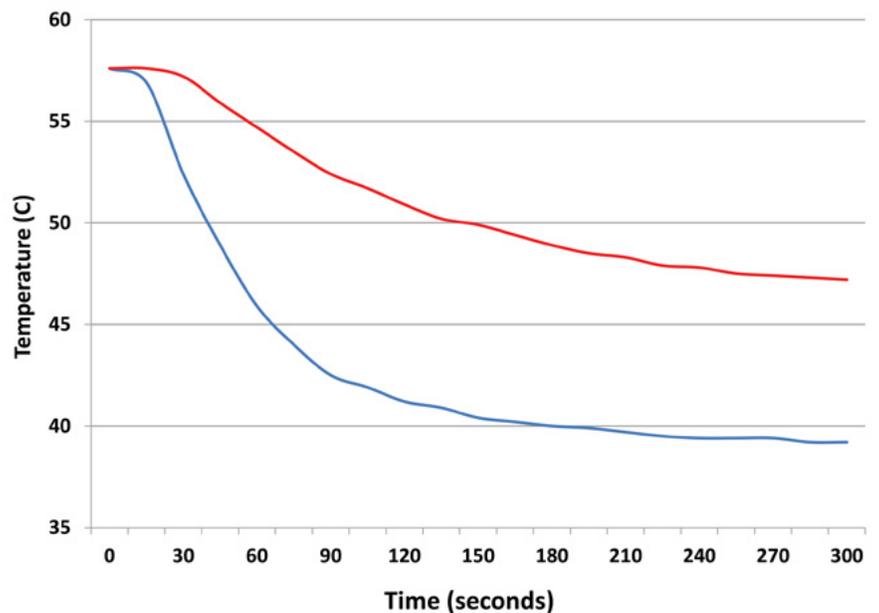
Market standard
Radial



ebm-papst axial system in push-mode vs. current market standard solution

Thermal imaging at 30, 60, and 120 seconds after system start (the ebm-papst solution is on the left in all three images). The seat is uniformly cooled due to improved air distribution and performance, thus reducing the overall average surface temperature.

Time to comfort



— Market standard - Radial — ebm-papst solution - Axial

