December 16th, 2019

Innovation Award for Pierburg Hydrogen Recirculation Blower

At the 12th International Automotive Congress 2019 in Shanghai, southern China, Rheinmetall Automotive received an award for its new hydrogen recirculation blower at the beginning of December. With the Automotive Technology Innovation Award for this fuel-cell driveline component developed by Rheinmetall Automotive subsidiary Pierburg, with the support of an online vote the jury honored innovative developments in the field of future drivelines.

Fuel cell systems have a recirculation system for unused hydrogen on the anode side. An active blower is often used for this purpose, which must function safely and efficiently even at high concentrations of hydrogen. To ensure this, Pierburg has developed a hydrogen recirculation blower (HRB) based on a side-channel blower and without dynamic sealing elements to ensure ultimate hydrogen tightness over lifetime.

The hydrogen recirculation blower is available in both high- and low-voltage variants. The blower can start from cold and has excellent NVH characteristics. It has a rating of 0.7 to 2 kilowatts or up to 400 watts in the low-voltage version. It is driven by a brushless motor with sensorless control; LIN / CAN bus communication and diagnostic functions are also available.

The Chinese congress is a technology forum focusing on trends in the automotive industry such as New Energy Vehicles (NEV), Future Mobility and lightweight engineering. It is organized by the Institut für Kraftfahrzeuge (ika) of RWTH Aachen University and the Vogel Automotive Media Group. The congress, which has been held in Shanghai since 2008, has become an important meeting-point for experts in automotive technology and is of growing significance.
Hydrogen Recirculation Blower by Pierburg in low voltage version.
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