



BorgWarner Introduces the Latest Innovation in EGR Coolers for Commercial Vehicles

- *Four new designs cover a wide range of engine sizes*
- *Enhance coolant distribution and provide high robustness against thermal fatigue*
- *Help commercial vehicles with natural gas engines meet emissions regulations*

Auburn Hills, Michigan, August 1, 2017 – To support commercial vehicle manufacturers in meeting current and future emissions regulations, BorgWarner has developed an economical new series of multi-platform exhaust gas recirculation (EGR) coolers featuring a compact floating core. Unlike conventional solutions which must be specifically designed for each application, the company's modular cooler family includes four highly adaptable standard designs for maximum flexibility covering a wide range of engine sizes from 2.0- to 16.0-liter displacement. The new EGR solution offers high robustness against thermal fatigue and enhanced coolant distribution for durable performance even with minimum coolant flow, while reducing NO_x emissions.

“With lower production volumes and high durability requirements, the commercial vehicle segment needs an EGR solution that provides outstanding performance and reduces complexity at the same time,” said Joe Fadool, President and General Manager, BorgWarner Emissions & Thermal Systems. “Offering high flexibility and durability, our newly developed EGR coolers have already piqued the interest of several manufacturers that see the potential for a cost-effective solution to help meet increasingly stringent emissions regulations.”

Featuring hybrid tube heat transfer technology and a floating inner core, BorgWarner's EGR coolers are designed to resist high levels of thermal load. In addition, the system provides enhanced coolant distribution, which enables durable performance even with minimum coolant flow. BorgWarner integrated a thermomechanical damper into the design to facilitate complete decoupling of the shell and inner core components to absorb longitudinal and angular differences for improved durability. The damper also provides some initial extra cooling for the inlet gas to reduce thermal shock and allows better gas distribution to the tubes to resist thermal fatigue. In addition, cooling the damper and inlet gas box reduces the overall temperatures achieved, which

in turn significantly lowers thermal stress. When the system is operated at an exhaust gas temperature of 1,562°F (850°C), the inlet gas box temperature is kept below 392°F (200°C), compared to more than 1,292°F (700°C) without cooling. The advanced design also minimizes the effect of the engine transients over the EGR cooler's durability. The four new coolers allow the standardization of most of the components from one application to another, with the exception of the housing and the mounting fixtures, resulting in maximum adaptability for robust, tailor-made solutions and high cost-efficiency.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a global product leader in clean and efficient technology solutions for combustion, hybrid and electric vehicles. With manufacturing and technical facilities in 62 locations in 17 countries, the company employs approximately 27,000 worldwide. For more information, please visit borgwarner.com.



BorgWarner's modular compact floating core EGR cooler series provides durable performance, high robustness against thermal fatigue and reduced emissions for a wide range of commercial vehicle applications.

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“expects,” “forecasts,” “goal,” “initiative,” “intends,” “outlook,” “plans,” “potential,” “project,” “pursue,” “seek,” “should,” “target,” “when,” “would,” variations of such words and similar expressions are intended to identify such forward-looking statements. Forward-looking statements are subject to risks and uncertainties, many of which are difficult to predict and generally beyond our control, that could cause actual results to differ materially from those expressed, projected or implied in or by the forward-looking statements. Such risks and uncertainties include: fluctuations in domestic or foreign vehicle production, the continued use by original equipment manufacturers of outside suppliers, fluctuations in demand for vehicles containing our products, changes in general economic conditions, as well as other risks noted reports that we file with the Securities and Exchange Commission, including the Risk Factors identified in our most recently filed Annual Report on Form 10-K. We do not undertake any obligation to update or announce publicly any updates to or revision to any of the forward-looking statements.

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