

COOL LOGIC™

BREAKTHROUGH COOLING TECHNOLOGY FOR 2007 ENGINES

Cool Logic™ Fan Drives

Cool Logic heavy-duty, multi-speed fan drives are a breakthrough in engine cooling technology. Not only are they electronically controlled and maintenance-free, but they provide improved fuel economy while meeting the needs of the stringent North American heavy duty truck emissions requirements.

Cool Savings

Cool Logic drives feature electronic modulating speed control. This means precise temperature control all the time, extending the life of the entire cooling system including the radiator and charge air cooler. Couple that feature with the fuel saving fan speed control scheme and the maintenance-free design, and you're well on your way to cool savings.

The Logical Choice

What's happening in the cab is just as important as what's under the hood. Cool Logic's actuation logic system means quiet operation for a more comfortable ride.

Cool Logic: the logical choice for cool savings.

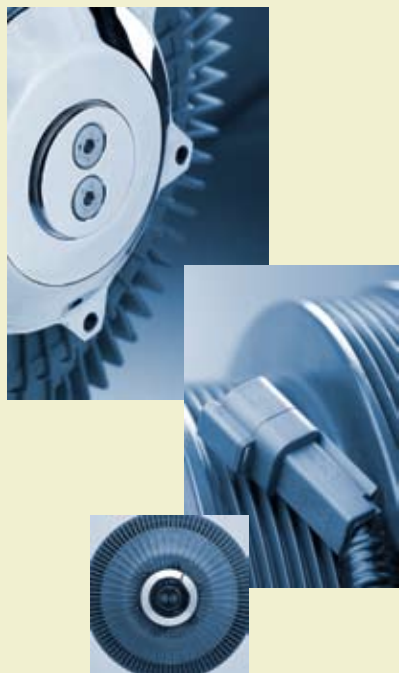


Trust the Leader.



It's been nearly a century and BorgWarner is still going strong as an industry leader worldwide. Our 16,700 employees at more than 58 locations in 17 countries are leveraging their know how, passion and innovation into the next generation of new concepts and integrated systems. With approximately 3,000 active domestic and foreign patents and patent applications pending, the company momentum is evident.

Product leadership is all of us and all we do.



Excerpt from April, 12, 2004 press release
“BorgWarner Announces Cool Logic™ Engine Cooling Technology
for 2007 EPA Compliant Class 8 Engines”

Auburn Hills, MI – BorgWarner Emissions/Thermal Systems has developed proprietary engine cooling technology designed to meet the requirements of the North American Class 8 EPA compliant engines. **Cool Logic™** proprietary fan clutch technology offers increased torque capacity and multi-speed operation, which electronically controls fan speed for optimized engine cooling. The new technology also provides increased fuel economy benefits and reduces fan noise. Its robust design increases durability under the higher heat environments of future heavy trucks. It is also designed to be completely maintenance free.

“New 2007 and 2010 emission regulations present a challenge for makers of heavy truck cooling systems,” said Keith Pierson, Director, North American Commercial Sales, BorgWarner Emissions/Thermal Systems. “BorgWarner has aggressively met these challenges with the **Cool Logic™** fan clutch in addition to our unique fan systems. The **Cool Logic™** engine cooling technology and integrated fan systems will allow the severe cooling conditions of the higher heat rejection engines to be satisfied at various operating points. When severe cooling is not required, they will provide optimized cooling with increased fuel economy savings from reduced fan horsepower usage.”

Features / Advantages / Benefits



it has **Features** *it offers* **Advantages** *it means* **Benefits**

Electronically managed through ECM

Precise temperature control & reduced cooling system stress

Extends the life of the entire cooling system, including the radiator and charge air cooler, thus reducing operation costs

Simplified vehicle interface

Eliminates air system components & their associated failure costs

Self-contained device

Maintenance free

Eliminates the costs associated with routine & preventive service

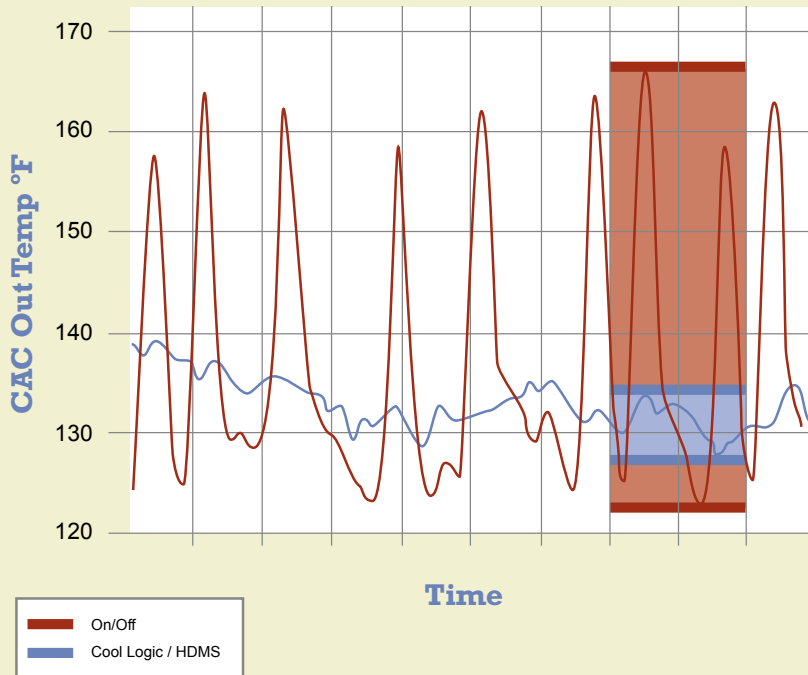
Fan speed control

Fuel economy

Provides fuel cost savings, positively impacting the bottom line

Quiet operation

Increases driver comfort, which is a key factor in driver retention



**79% Reduction
in Thermal
Cycling Intensity**
which means
**extends the life
of the entire
cooling system,
thus reducing
operating costs**



**Eliminates
fan cycling
while parked**
which means
**increased driver
comfort
by substantial
noise reduction**

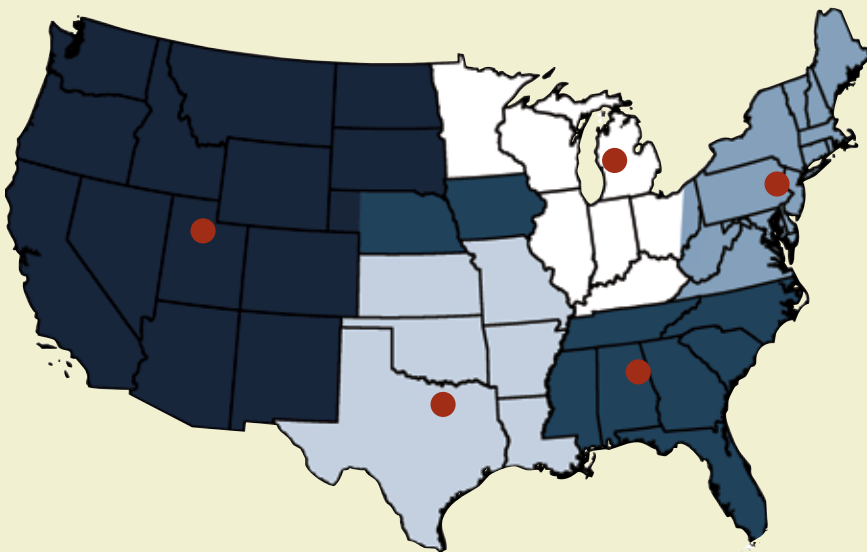


**15% Reduction
in Fan Power
Consumption**

which means

**fuel costs savings
positively impacting
the bottom line**

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