

Air-Sensed & Electronically-Controlled Fan Drives  
for Light Vehicle, Medium- and Heavy-Duty Trucks  
& Off-Highway Applications



# Fan Drives

[bwthermal.com](http://bwthermal.com)



For Additional BorgWarner  
Thermal Systems Information:

800-927-7811 USA  
49-7544-969-207 Germany  
88-574-820-9696 China

[info@bwthermal.com](mailto:info@bwthermal.com)

 **BorgWarner**

# BorgWarner Fan Drives

## Features & Advantages

### Air-Controlled Technology



#### Bi-Metal Viscous Fan Drives

Air-Sensing for Light Vehicle, Medium- and Heavy-Duty Trucks & Off-Highway Applications



- Improved efficiency—fan operates only when required and at appropriate speed for possible fuel and horsepower savings of up to 6-10%
- Reduced fan noise
- No maintenance—self-contained unit, nothing to service or maintain
- Improved temperature control—for extended engine life
- Bimetallic sensor—senses heat exchanger air temperature for accurate fan engagement
- Smooth, soft engagement—for extended belt and accessory life
- No external controls required—simplicity of design for improved reliability
- Cost-effective—can be used with polymer or metal fan blades to fit a wide range of applications

#### Kysor™ On/Off Fan Drives

On/Off Technology for Heavy-Duty Truck Applications



- Powerwedge™ clutch liner means consistent performance and longer time between liner change
- Dynamic torque capacity improves cooling capability
- Unique Hub bearing design provides durability and reliability with better overall performance
- The modular clutch design keeps damaging heat away from the pulley and bearings. It's one clutch for all applications and it's easier to service, saving time and reducing maintenance and inventory costs
- Fail Safe™ design provides continuous cooling and assures reliable operation preventing costly breakdowns
- Reduced weight improves liner life and provides easier handling due to smaller size and lighter weight

### Electronically-Controlled Technology



#### Visctronic® Fan Drives

Direct-Actuated for Light Vehicle, Medium- and Heavy-Duty Trucks & Off-Highway Applications



- Proven viscous technology with precise electronic control for precise fan speed modulation
- High-speed reservoir and patented fluid for faster fan response times and better system controllability
- Low parasitic drag at fan idle speed
- Improved fan controllability: fan operates when required and at the appropriate speed allowing for possible fuel and horsepower savings
- Maintenance free: self-contained unit – nothing to service or maintain

#### Cool Logic® Fan Drives

Variable Speed Fan Drives for Heavy-Duty Truck & Off-Highway Applications



- Proven wet friction technology for precise linear fan control with lock up capability
- Full lock up speed capability
- Maintenance free: self-contained unit with integrated base and pulley – nothing to service or maintain
- Improved fan controllability – fan operates when required and at the appropriate speed allowing for possible fuel and horsepower savings
- Most precise fan speed control

 **BorgWarner**