

# bioltec<sup>®</sup> vario-line



Designed specifically  
for operation with  
different fuel types

- High performance
- Operational reliability
- Programmability
- Professional deployment

## bioltec<sup>®</sup>-System variofuel

Thanks to an additional tank heater, combined with heated fuel lines, you can use a wide variety of fuels. Whether you choose plant oil, RMO biodiesel, palm oil, FAME or animal fats, you can always use the fuel best suited to your application profile.

### System features:

- Fuels with a high pour point (FAME, palm oil)
- Enhanced motor oil management
- EMC approval
- Unique-item serial number
- Heated fuel supply
- Cold-weather compatibility

### Modules:

- Fuel regulation module
- Control unit
- Operating unit
- System cable set
- Individually programmable software
- Predelivery module
- Secondary heater for fuel hoses

### Enhancement:

Seperate tank with tank heating

### Applications:

- Commercial vehicles
- Trucks
- Agricultural and construction machinery
- Strong vibrations during operation

# System lines

The bioltec® system's 5 product lines meet the requirements of different customer groups and fields of application:

**bioltec® profi-line.** For vans, pickups and small trucks. For professional drivers who operate vehicles on a continuous daily basis with frequently changing load profiles that account for a large share of use.

**bioltec® ultra-line.** The standard system for trucks in all performance classes. Designed specifically for use in high-volume, high-performance diesel engines with alternating/continuous load operation and year-round deployment. bioltec® ultimate-plus provides even greater operational reliability and unburdens the vehicle's fuel filter system, thanks to the additional predelivery module.

**bioltec® giant-line.** For construction, logging and agricultural machinery. For special applications with potentially high dirt entrainment during fueling. bioltec® giant-line is also available in two versions: giant and giant plus.

**bioltec® vario-line.** The first system to handle all types of fuel. This bioltec® product is the first system worldwide that can handle not only diesel, plant oil and biodiesel, but also fuels with a high pour point, such as FAME fuels.

**bioltec® special-line.** Special developments for cogeneration plants, power generating sets and special-purpose vehicle construction. In its special-line portfolio, bioltec® develops solutions with individual requirements and conditions, such as cogeneration units, ground power units and special-purpose vehicle construction.

# System benefits<sup>1</sup>

## Benefits at a glance

### Universal applications without the usual "plant oil limitations"

Covers the full range of applications for modern diesel-operated commercial vehicles, from long-haul service to stop-and-go operation. bioltec® eliminates the restrictions of current retrofit kits. The system is fully biodiesel-compatible, so that you can use the fuel best suited to any given situation.

### Dual-tank technology for safe operation—even in cold weather

It goes without saying that bioltec® provides dual tank technology. Diesel fuel is always supplied in pure form without mixing, thereby ensuring safe vehicle operation under all conceivable conditions. As a result, bioltec® can be used without restrictions even in cold weather, eliminating the need for an auxiliary diesel supply. In the wintertime, bioltec® saves money in situations where other systems have to rely on diesel.

### Variable bioltec® fuel management: More than just light-load switching

Load-dependent fuel regulation has always been an integral part of bioltec® technology. But we don't stop there. Our unique, award-winning variable bioltec® fuel management system automatically supplies the right fuel mixture to the engine in all operating states. This avoids damage to the engine, increases fuel efficiency and improves emissions without any expensive cleansing additives or special-purpose fuels.

### bioltec® motor oil management maintains the lubricity of your motor oil

The bioltec® motor oil management system minimizes fuel entrainment in motor oil. As a result, it improves lubricity, increases the intervals between oil changes, enhances reliability and saves money.

## Lower emissions: compliance with EURO5 and NOx sensors

CO<sub>2</sub>-neutral emissions, eco-friendly fuels: bioltec® lets you use the full potential of your fuel. The system complies with the strictest emission standards (including EURO5), ensures problem-free operation with NOx exhaust emission sensors, reduces particulates by as much as 45% and verifiably improves emissions, all of which are important benefits for drivers, vehicle operators and customers alike.

## Automatic regulation vastly simplifies use

bioltec® is fully automatic. Diagnostic functions continuously check the system in the background for all operating parameters such as filter status and tightness, venting and fuel mixing. These functions unburden the driver and prevent operating errors.

## Engine warranty and broad acceptance among manufacturers

Manufacturers also rely on bioltec®; extensive development and sales partnerships have turned bioltec® into the market's most popular system among manufacturers. In some cases, the system can be installed ex works. bioltec® even offers an optional engine warranty package with the services provided under a manufacturer's warranty.

## Fuel efficiency management optimizes investment payback without follow-up costs

Variable fuel management, load-dependent regulation, modular design—for vehicle operators, these things mean "optimum investment payback" below the line. bioltec® utilizes your fuels with the utmost efficiency and protects your investment to the fullest. No expensive additives, special-purpose filters or maintenance costs, but rather operational reliability and ultra-short payback periods without follow-up costs—this is what bioltec® means by maximum efficiency.

## Greater efficiency for your fuel, greater profitability for you

Total efficiency. Maximum reliability. Full service. bioltec® provides the premium solution for using alternative fuels.

<sup>1</sup>depending on product line