

VOLKSWAGEN

THE NEW POLO BLUEMOTION

Key Aspects

Market positioning

Modified TDI engine

Modified transmission

Modified body

Interior

Standard equipment

Safety

Note: All data and equipment cited in this press release are valid for car models offered in Germany. They may differ in other countries. All information is subject to change or correction.

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New Polo BlueMotion Consumes an Average of Just 3.9 Liters Diesel

176 km/h fast Polo BlueMotion brings fuel economy and dynamics into harmony

Polo BlueMotion from Volkswagen is the most economical 5-seater in Europe

Wolfsburg, July 2006. Volkswagen introduces the extremely economical Polo BlueMotion. Power: 59 kW / 80 hp. Average fuel economy: 3.9 liter diesel per 100 kilometers. A savings compared to the equally powerful and already very economical Polo TDI engine in the Trendline, Comfortline and Sportline versions: 0.5 liter better. The reduction in fuel consumption was achieved by longer gear ratios, aerodynamic refinement and internal modifications to the engine. The new Polo is shifted using a manual 5-speed transmission.

With a diesel particulate filter (DPF) as standard equipment, the Polo BlueMotion offers agile driving performance in spite of its considerable economy. Its 3-cylinder direct injection turbodiesel reaches its maximum torque of 195 Newton-Meters at a low 1,800 rpm, due to an exhaust gas turbocharger with variable turbine geometry, and this maximum torque remains constant up to 2,200 rpm – more than enough to provide for a commanding emergence from the lower rpm cellar. Some more key data: 176 km/h top speed and 12.8 seconds for the 0-100-km/h sprint.

Driving performance and the visual appearance of the modified body emphasize that the Polo BlueMotion is taking a more dynamic position than the world champion of economy, the Lupo 3L TDI with its 45 kW / 61 hp, that was produced through the end of 2005. More pluses for the new Polo BlueMotion are its full-grown interior with space for five persons and unlimited suitability for everyday driving.

Of wide-ranging significance is the second word in “Polo BlueMotion”. “Blue” – the Volkswagen color – suggests the elements of water and air. “Motion” embodies the aspect of mobility that is looking forward into the future. The objective is to advance BlueMotion to be the bearer of a quality seal that stands for economy without compromising driving fun.

Within the Polo model series BlueMotion marks the most recent highlight in a marketing campaign in the small car market segment. Volkswagen started this campaign in 2005 with a technically and visually improved generation of Polo cars. After this foundation was laid, there followed at the end of 2005 the introduction of the dynamic Polo GTI and early in 2006 the introduction of the spirited and robust CrossPolo design. Now with the new Polo BlueMotion, Volkswagen is introducing the German market leader's most economical variant among the "compacts".

BLUEMOTION ENGINE /

The 59 kW / 80 hp strong three-cylinder TDI was trimmed for minimal fuel consumption

The first technical pillar supporting the low average fuel consumption of under four liters diesel per hundred kilometers is the three-cylinder TDI with 1,422 cm³ displacement on the Polo BlueMotion. It delivers 59 kW / 80 hp at 4,000 rpm and develops its maximum torque of 195 Newton-Meters when engine speed reaches 1,800 rpm. The new pump-nozzle engine with electronically controlled direct injection sports a modified charge exchange process (exhaust gas turbocharger with variable turbine geometry) and optimized Exhaust Gas Recirculation (EGR) together with a more powerful EGR cooler and electrically actuated EGR valve.

The Polo BlueMotion with Euro-4 emissions standard classification will be delivered with a diesel particulate filter as standard equipment in all markets. An especially quick reacting oxidation catalytic converter with thin-wall technology also contributes toward reduced emissions. Engine temperatures are kept in check by an oil cooler, for example.

The spirited Polo BlueMotion demonstrates in many ways how an especially environmentally-friendly automobile can also offer up a lot of fun. First: It saves cash at the gas pump with its fuel economy. On average, one hundred kilometers of driving costs 4.45 euros with this Volkswagen (Basis: 3.9 Liter x 1.14 euros per liter of diesel in Germany, prices at end of June 2006). Second: The Polo BlueMotion

drives and drives and drives... Its 45 liter fuel tank capacity combined with 3.9 liter per 100 kilometer consumption yields a theoretical driving range of more than 1,150 kilometers. At this point it should be mentioned that its fuel consumption (highway) has been reduced to 3.2 liters per EU Guideline 80/1268/EWG. Third: Its economy does not detract at all from its agility; its driving performance is as good as unaffected by consumption-reducing measures. The Polo BlueMotion delivers a thoroughly powerful performance and, like the Polo 1.4 TDI it accelerates from zero to 100 km/h in 12.8 seconds. It can reach a top speed of 176 km/h (Polo 1.4 TDI: 174 km/h).

BLUEMOTION TRANSMISSION /

The conventional five-speed transmission exhibits a high level of everyday comfort and reduces fuel consumption with its longer gear ratios

The second technical pillar of fuel savings lies in power transmission. The MQ200 five-speed gearbox got longer gear ratios for use in the Polo BlueMotion. The effect: A reduction in rpm level. In particular, ratios for gears three through five are between 12 and 24 percent longer. The effect: From now on, the three-cylinder TDI will operate in its most efficient speed range even more often and for longer periods of time. A brief explanation of the transmission name MQ200: M stands for manual control, Q refers to the use of a transverse mounted, and 200 refers to the transmittable engine torque of 200 Newton-Meters.

Modifications in the powertrain area are supported by 14-inch alloy wheels specially designed for the Polo BlueMotion. Standard equipment for the wheels: Low rolling resistance tires sized 165/70 R 14.

BLUEMOTION BODY /

New front-end aerodynamics reduce air resistance of the Polo BlueMotion

The third pillar supporting reduced fuel consumption is optimized aerodynamics. The front end in particular was modified significantly. A front spoiler optimized for fluid dynamics as well as a new radiator grille surround that covers to nearly just a lateral gap, lead the way through the head wind with low air resistance values. Aerodynamics were also improved at the rear end. Among other things a roof edge spoiler is used here. All aerodynamic measures were based on calculations and test studies in the wind tunnel, after which design engineering converted these findings into suitable components ($c_w = 0.3$ $c_w \times A = 0.62$).

The Polo BlueMotion is available in a two-door and a four-door version. The Volkswagen measures 3,916 millimeters in length, 1,650 millimeters in width and 1,467 millimeters in height. Its wheelbase dimension is 2,466 millimeters. As is usual in other models of the brand, body panels are fully galvanized. Not least, this makes it possible for Volkswagen to offer a warranty of twelve years against rust-through. The high-strength body is not just resistant to corrosion, it also offers ideal protection in case of accidents with its crash-optimized safety structure.

BLUEMOTION INTERIOR /

The most economical five-seater in Europe can also consume 1,030 liters of luggage!

In its interior the Polo BlueMotion demonstrates the same high material quality as the rest of the model series. Ergonomic design, functionality and quality are standards of the class. Furthermore, the new Polo BlueMotion is also distinguished by its ideal space utilization. This relates not only to the seat positions and driver comfort (leg room in front: 688 to 981 millimeters). More importantly, the Polo exhibits genuine size in the rear seats with a maximum leg room 818 millimeters. Like every other Polo, the

BlueMotion is also a five-seater. And that means: this Volkswagen is the only five-seat car in Europe with an average fuel consumption of less than 4.0 liters. The Polo BlueMotion also offers a lot of “lateral format” space: Elbow room in front is “best-in-class” at about 1412 millimeters (two-door version). Moreover, its head room is significantly above the average at 988 millimeters in front and 958 millimeters in back. Even cars with a sunroof still offer 950 millimeters in front.

The five-seat Polo BlueMotion also proves to be a classic all-around talent when it comes to transporting luggage. The basic configuration has a trunk volume of 270 liters. If necessary the reclining rear bench seatback can be folded in just seconds; this increases luggage space to 1,030 liters. Even bulky purchases or weekend recreational equipment no longer present any problems. The expanded interior dimensions have something to do with this: Interior loading height is 877 millimeters, and the width between wheel wells is 955 millimeters. The optional split rear seats offers even greater flexibility. Seatbacks and seats can then be folded individually at a ratio of 1/3 to 2/3.

BLUEMOTION STANDARD EQUIPMENT /

Standard equipment includes alloy wheels, aerodynamic kit and sporty chassis;

Price level is in the range of the Polo TDI Sportline which also has a 59 kW engine

The new Polo BlueMotion offers an above-average equipment package. Relative to the comparable Trendline version the fast economizer offers standard features such as 14-inch alloy wheels, attached components all around the vehicle painted in the car color, aerodynamically optimized front end, rear spoiler, sporty seats in the new “Popcorn” or “Select” pattern and a multifunctional display that can be used to call up such information as the low average fuel consumption figures.

The Polo BlueMotion is available in five exterior colors and three interior color combinations. The 3.9-liter car can be painted in the solid colors “Black” and “Candy White”, metallic colors “Ice Age Silver” and “Reflective Silver” or in the pearl-effect color “Blue

Anthracite". In the interior Volkswagen offers the "Popcorn" upholstery fabric in "Ice Age" color and the "Select" fabric either in the basic "Anthracite" color or in "Flannel Gray". The instrument panel is always in "Anthracite" and the carpeting in noble "Black".

An overview of standard equipment on the Polo BlueMotion (Excerpt):

Exterior equipment

- Outside rearview mirror body painted silver and door handles in car color
- Side flasher lamps integrated in the outside rearview mirrors
- Roof antenna
- Rear spoiler in car color
- Galvanized body
- Radiator grille insert in car color
- "Jerez" alloy wheels 5 J x 14 with anti-theft lug nuts and tires sized 165/70 R 14
- "BlueMotion" name on back of vehicle
- Sill panel in car color
- Side trim strips in car color
- Bumpers and trim strips in car color
- Front and rear bumpers in sporty design, lower section of bumper in car color

Interior equipment

- Storage compartment in instrument panel
- Storage compartments in front doors
- Cup holders, rear (2)
- Luggage space cover
- Middle seat stripes in "Popcorn" or "Select" pattern
- Four spoke steering wheel

Convenience features

- Outside rearview mirror adjustable from interior, aspherical on driver's side
- Electric window lifts, front
- Mounting bracket for first aid kit and hazard triangle
- Rear windshield wiper with intermittent function
- Heating and fresh air ventilation system with 4-stage blower and recirculation switch
- Interior lighting, front, with shutoff delay and contact switch on driver's door
- Instrument backlighting, blue; red night design for switches
- Instrument cluster with electronic speedometer, odometer and trip odometer, tachometer
- Convenience flashers (1 press = 3 flashes)
- Indicator lamps and service interval indicator
- Steering wheel, height and length adjustable
- Make-up mirrors in sun visor
- Multifunctional display
- Non-smoker version: Power outlet with cover instead of cigarette lighter, front
- Rear bench seat and reclining seatback, undivided, foldable, 3-seat
- Windshield wipers, front, with interval switch
- Power-assisted steering, electro-hydraulic, speed-dependent control
- Dust and pollen filter
- Tire Mobility Set: 12-Volt compressor and tire sealant
- Warning buzzer if lights are not shut off
- Central locking system, including main key with light

Safety equipment

- ABS with braking assist
- Airbags for driver and front passenger, with front passenger airbag-deactivation switch
- Antilock braking system (ABS) with convenience braking assist
- Three-point automatic safety belts, rear
- Three-point automatic safety belts, front, height adjustable with belt tensioners
- ISOFIX restraint eye bolts (device for fastening 2 child seats to rear bench seat)
- Head restraints, rear (3)

- Front disk brakes, ventilated
- Side airbags for driver and front passenger
- Hazard triangle
- Vehicle immobilizer system, electronic

BLUEMOTION SAFETY /

Standard front and side airbags, ABS and ISOFIX- Child seat anchors; ESP is also available as option

The Polo BlueMotion is characterized by a sophisticated occupant protection system. Essentially head rests and three-point restraints are provided at each of the five seating positions. Also standard features: Front and side airbags (passenger airbag can be deactivated) as well as belt tensioners in front. Belt tensioning provides for early and ergonomically optimal attachment of the driver and front passenger to the vehicle structure. This causes the energy to be dissipated over a longer time period with associated milder deceleration values. A head airbag system is available as an option for front and rear passengers. Specifically, these airbags cover, left and right, the area from the A to the C column and from the headliner to the window sill. The result: Maximum protection at all outer seating locations regardless of body size.

Standard on-board features include a so-called Dual Brake Assist. This brake assist system, together with ABS, supports the driver in extreme situations by boosting brake pressure beginning at a specific level of brake pedal force. This shortens the stopping distance. The Electronic Stabilization Program (ESP) is of course available on the Polo.

The basis for a high degree of active safety lies in the design of the Polo BlueMotion chassis. The fact is: With its McPherson front axle and a sophisticated rear semi-independent suspension this Polo is also one of the safest vehicles in its market segment.