V8 VANTAGE





ASTON MARTIN V8 VANTAGE

The V8 Vantage is a hand-crafted sports car that offers electrifying performance and outstanding agility.

The most affordable of all Aston Martins, it fuses traditional Aston Martin style and everyday usability. The result is the world's most desirable sports car.



EXHILARATING PERFORMANCE AGILITY, LIGHT WEIGHT AND OUTSTANDING HANDLING

At the heart of every great sports car is a great engine; and in the case of the V8 Vantage, this has never been more true. The V8 Vantage has a powerful 4.3 litre 380 bhp (283 kW) engine, unique to Aston Martin. This is an engine designed by Aston Martin for Aston Martin. Developed for flexibility as well as outright performance, the front mid-mounted V8 also delivers an outstanding aural experience, as one would expect of an Aston Martin with a potential maximum speed of 175 mph (280 km/h).

Extraordinary engine power is not the only reason for the superb performance of the V8 Vantage. Just as important is its lightweight, all-alloy structure, which offers class-leading strength and rigidity. The front mid-engined layout – the dry sump lubrication system allows the engine to sit low – and rear-mid transmission help provide optimum front to rear weight distribution as well as a low centre of gravity. The result is exceptional agility and inspired balance and handling.



POWERFUL, MUSICAL V8 ENGINE THE HEART OF A GREAT SPORTS CAR

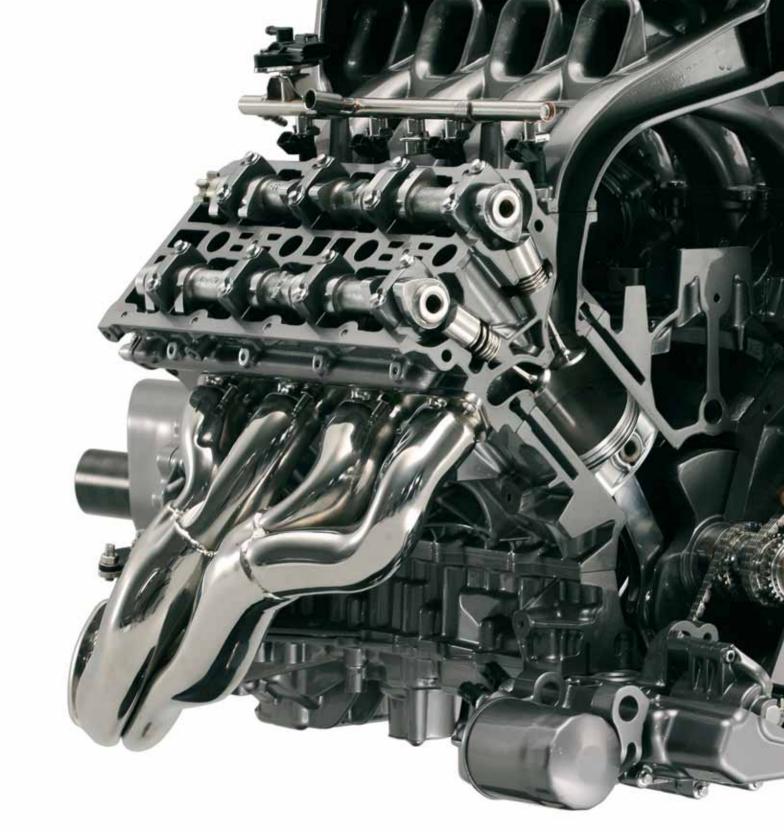
The V8 Vantage is a very fast sports car. With 0-60 mph in 4.9 seconds (0-100 km/h in 5.0 seconds) and a potential maximum speed of 175 mph (280 km/h) its performance figures are as heady as you

Although there are many reasons refined, exhilarating pace. for this excellent performance light weight and efficient aerodynamics among them the key is the engine, the heart of any great sports car. This new V8 has been specifically designed and developed for the V8 Vantage. Hand-assembled at Aston Martin's new, purposebuilt engine facility in Cologne, Germany, it is a light, compact, all-alloy unit - high-performance, yet responsive even at the lower

end of the rev range. Its maximum timing also varies, improving torque is an impressive 302 lb ft low-end throttle response and (410 Nm) at 5000 rpm, 75 per mid-range torque in particular. cent of which is delivered at just
The exhaust system is highly 1500 rpm - barely more than idle - making the V8 Vantage extremely tractable and great fun manifold – an arrangement more would expect of an Aston Martin. to drive. Push harder, and that V8 engine revs freely, delivering

> True to Aston Martin tradition, it is as musical as it is muscular: an engine that entertains in every sense. The bore and stroke dimensions are optimised to provide an excellent balance rousing accompaniment. between outright power and torque, while a resonance induction system improves tractability and performance, and contributes to that inspired engine note. The inlet camshaft

effective. Each bank of cylinders features a four-into-two-into-one usually found on racing cars which improves breathing and therefore performance. Special bypass valves provide a quieter exhaust note at low speed, opening at higher engine speeds to reduce the pressure in the exhaust system, raise the power output and provide a more





CLASS LEADING RIGIDITY THE KEY TO DRIVING ENJOYMENT AND GOOD HANDLING

The advanced body structure of the V8 Vantage is the key to its superb handling and responsiveness. The uniqueto-Aston Martin all-alloy VH (Vertical Horizontal) architecture provides an excellent backbone, while the use of sophisticated materials such as lightweight alloys, magnesium and advanced improves build quality. For rivals composites for the body further who use conventional materials, contributes to the car's low weight and class-leading rigidity. adding weight, which dulls

The immense strength and rigidity of this structure has a number of benefits: it provides a stable platform from which the suspension can control the car, gives the driver enhanced control and feel, it effectively increases the strength and safety of the passenger cell and boosting strength means both performance and agility. Aston Martin's no-compromise approach ensures the driver gets not only a safer, sounder car, but improved performance and sharper responses, too.

NO COMPROMISE JUST SUPERB AGILITY AND CONTROL

The light, strong body structure The suspension wishbones are of the V8 Vantage is perfectly matched to the specially designed fully independent double wishbone suspension, forward of the front wheels resulting in outstanding handling common on racing cars but and excellent ride quality. Fundamental to its handling capabilities is the fact that the V8 Vantage is naturally well balanced. And because it does not have to compensate for an excess of weight over either the front or the rear of the car, the suspension is uncompromised tuned for optimal handling and control.

aluminium, as are the dampers to save even more weight. The steering rack is solidly mounted rarely seen on road cars - for better control, and to provide the driver with greater feedback and response.

WEIGHTING GAME NATURALLY BALANCED FROM THE OUTSET If a car is to have natural agility Improving weight distribution still it must also have a low polar further, the transmission is midmoment of inertia and excellent rear mounted - forward of the weight distribution. In order to rear 'axle' line - and connected achieve this, the V8 Vantage is to the engine by a rigid, cast designed to concentrate as aluminium torque tube, which much weight as possible within houses the immensely strong the wheelbase, with minimal and light carbon-fibre propeller front and rear overhangs. The shaft. A fast-shifting, six-speed engine is positioned ahead of the manual gearbox is standard, its cabin but well behind the front ratios perfectly matched to the axle line, making the V8 Vantage performance of the V8 engine. a front mid-engined car. Dry sump lubrication, normally a motorsport application, enables the engine to sit lower in the car, which further improves handling by lowering the centre of gravity. Dry sump lubrication also allows for greater cornering speeds, as there is minimal danger of g-forces denying oil supply to the engine.

DRIVER AND CAR IN PERFECT HARMONY

Dynamically, the V8 Vantage has enviable credentials: a high-performance, advanced, lightweight V8 engine, one of the most lightweight, rigid body structures available, an advanced lightweight body, fully independent double wishbone suspension and optimum weight distribution. Put them together and it's little wonder that the result is a supremely agile and entertaining sports car.

On-road communication and feel are essential to a sports car, for any elasticity between the driver and the contact point provide further reassurance. of the tyre diminishes the driving experience. The driver needs to know exactly how the car is diameter at the front, 330 mm

behaving. That's why the body at the rear – that are both structure of the V8 Vantage is so rigid: it ensures maximum communication between road and hand, between tyre and torso. The car's behaviour is relayed faithfully and accurately, ensuring an undiluted driving experience, yet it remains tractable and easy to drive fast or slow.

The flexibility of the engine and peace of mind. There's a choice the easy-to-use controls make everyday town or city driving simple and uncomplicated. Electronic safety controls Braking power is awesome, with massive disc brakes - 355 mm

ventilated and grooved. For the V8 Vantage, grooving is a better solution than conventional cross-drilling of the discs, as they work more effectively with the brake pads and do not fill with brake pad dust. Dynamic Stability Control, ABS, Traction Control and Electronic Brakeforce Distribution also feature as standard for added of two alloy wheel styles -18 inch or 19 inch in diameter fitted with specially tuned highperformance tyres.



CLASSIC ASTON MARTIN STYLE

The design brief for the V8 Vantage dictated a style that could not be anything else but an Aston Martin. Elegant, yet with a controlled aggression. Perfectly proportioned, with a low, purposeful stance. Modern, yet incorporating classic Aston Martin design cues. Like all Aston Martin sports cars, it is simple, understated and beautiful. And like all Aston Martin sports cars, its beauty is more than skin deep.

Outside, the V8 Vantage displays beautiful sports car lines, while maintaining a unique identity. Inside, its traditional craftsmanship is matched to striking 21st century style. Hand-trimmed in the finest quality materials, the cabin is that of an authentic sports car. Driver and passenger sit low, close to the car's centre of gravity, where they can feel the car reacting to the input of the driver – it's a special sensation, usually only experienced in racing cars. The connection between car and driver is very direct. Very sporting. Instantaneous.





Essentially, it's a sports car with a simple goal – to provide maximum exhilaration – yet it is also one of the world's most beautiful cars. The side profile is an elegant, simple sweep, creating a curved line rather like a bow under tension, while the rear haunches are wide and muscular, like those of a powerful animal. It is a pure, elegant design – but, above all, instantly recognisable as an Aston Martin.

The design team's brief was to give the V8 Vantage the look of a well-toned athlete wearing a skin-tight suit. With its taut, almost stretched surfaces, the car achieves perfectly that muscular, close-cut look.

The V8 Vantage is very much a pure sports car, so the Aston Martin engineers' priority The V8 Vantage could not from the outset was to focus on be anything else but an light weight, compact size, agility Aston Martin. It is a modern and power. At just 172.5 inches shape that bears a direct lineage (4.38 metres) long, not only is to some of the great Aston it the smallest model in the Aston Martin range and one of the leanest cars in its class, but it is light, too, and very nimble. Hand-finished body panels provide its delectable shapes and perfect fit, while an all-alloy underbody structure – derived from aerospace technology incorporates bonded aluminium immensely practical and could extrusions and castings for superb rigidity and minimal weight. The bonnet and roof are also constructed from lightweight alloy, while the front wings, tailgate and sills are produced from advanced composites.

The large single-piece body sides are hand-finished steel pressings, and include the entire rear three-quarter area or haunches - of the car. A single pressing means the side and rear three-quarter style is especially clean, with the minimum of unsightly shut lines.

Martin models of the past, such as the Aston Martin DB2 praised at the time as 'one of the most beautiful cars in the world' by Motor Magazine in April 1950 – and its successors, the DB2/4 and DB4. They were not just handsome, but very fast sports cars that were also be used every day. Just like the V8 Vantage.



THE V8 VANTAGE BEAUTY FROM WITHIN HAND-CRAFTSMANSHIP FOR SUPERIOR STYLE

craftsmanship not only improves For instance, the bonnet of the quality, but can also improve styling. Aston Martin's designers enjoy fewer constraints than those faced in mass production, giving them the freedom to produce the perfect form. has to be right. V8 Vantage shown with optional 7 spoke 19" alloy wheels

Like all Aston Martins, the V8 Vantage is hand-assembled and hand-finished. Hand-

Hand-assembly also avoids unsightly solutions to the inflexibility of mass production. V8 Vantage has shut lines that travel all the way to the front of the car, without the need for a separate nose cone, so providing a cleaner, crisper design. Furthermore, the V8 Vantage uses metal mesh grilles and trims instead of the typical plastic alternatives. Integrity is a key cornerstone at Aston Martin and we believe that everything





SOUL MATE AN INSPIRING, EXCITING DRIVING ENVIRONMENT

From the moment you first sit in the V8 Vantage, you connect with it. It's a bond created partly by the natural agility of the car, but also by the embrace of the authentic sports car cabin. Hand-trimmed in the finest quality materials, it is simple, logical and beautifully designed; everything you and your passenger touch is unique to Aston Martin.

The instrument pack is beautifully crafted from aluminium and has a three-dimensional profile for easy reading. To create a clear, simple design, most of the warning lights are hidden

behind the aluminium faces, becoming visible only when illuminated. The central message displays, meanwhile, are organic electroluminescent (OEL) – a process pioneered by Aston Martin – making them easier to read than conventional LCDs.

A synthesis of high technology and hand-crafted elegance, the interior features an optional pop-up satellite navigation screen, class-leading audio system and even a glass starter button.

The V8 Vantage is a pure two-seater, a car dedicated to providing the most exhilarating driving experience possible, but that doesn't mean it is not practical. As well as a generous rear shelf, ideal for soft bags and holdalls, there's another, surprisingly large, luggage area, easily accessed via a one-piece lightweight composite tailgate. It's the only sports car of its type today to feature a 'hatchback' - a design first used by Aston Martin on the DB2/4 of the early 1950s.





21ST CENTURY CRAFTSMANSHIP AN ALLURING BLEND OF TECHNOLOGY AND TRADITION

for sentimental reasons but because new headquarters, hand-made meets only craftsmen can deliver the design high technology. The all-alloy structure, level of detail and finish is simply not possible in high-volume manufacture.

All Aston Martins are built by hand – not At Gaydon in England, Aston Martin's details and level of finish that Aston Martin the lightweight body, the hand-assembled engineers and designers demand. This V8 engine, the sophisticated electronic controls and audio systems: all are engineered to a level of technology rarely seen in the automotive industry. This mix of technology, tradition and low volume uniquely desirable sports car.





to a car being hand-built and modern - it is rare these days and getting rarer all the time. can perform the complicated, on production lines cannot. They can craft designs and finishes that defeat machines. Take, for instance, the single aperture cuts for the headlamps in the front wings of the V8 Vantage. This design can be achieved only because the V8 Vantage is painstakingly

Then there is the beautiful stitching of the leather seats. Automated machines can stitch they always have been at leather, but they cannot do it But there are a host of sensible with the same lively care, or engineering and design reasons quality, as craftsmen. The same high-technology facility in why Aston Martins are still hand- is applicable to the finish of the Cologne, Germany. There is no bodies. Mass-produced cars frequently need plastic finishers over-riding concern is always labour-intensive work that robots to hide awkward production line quality. That is why Aston Martins joins, but cosmetic make-up is unnecessary at Aston Martin, where each car is expertly hand- finest luxury goods, from suits to finished and tended by craftsmen. watches, are still hand-made.

Engines, too, are individually Aston Martin, although now at a brand-new, dedicated, rush with hand-assembly; the - all Aston Martins - are built by hand, and it is why all the world's When low volumes are desirable, and exclusivity is demanded, it is quite simply the best way.







FEEL THE QUALITY, LOVE THE DRIVE

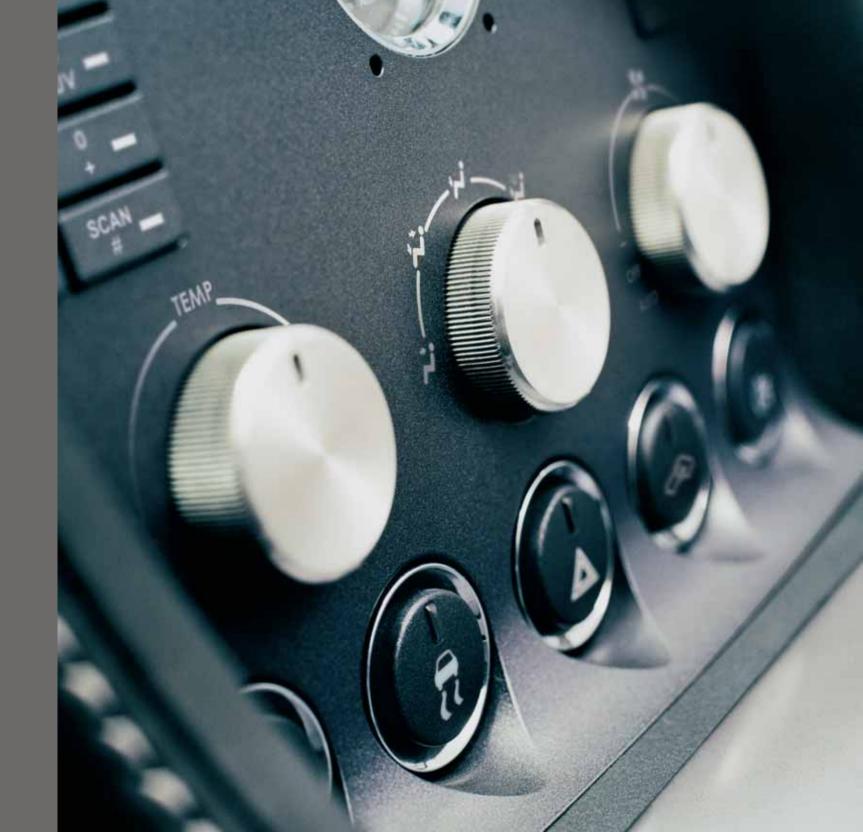
At Aston Martin's headquarters
All of these come together to in rural Warwickshire, England, make an interior that is unique engineers work alongside master such as the instrument pack craftsmen in a large, open, airy and the door handles - and and hushed facility.

hand-crafting of the cabins, and stitched leather upholstery. here you'll find the many different materials that feature inside the You just have to step inside the controls are perfectly placed, V8 Vantage. There are aluminium car to know that it is something for driving enjoyment is the alloys used for switches, instruments and the facia; fabric spoke steering wheel and set and leather in myriad colours and finishes, including many as well as optional piano black wood trim.

to Aston Martin. Many of the cabin details are aluminium the coolness of the metal is complemented perfectly by A special area is allocated to the the warm, hand-finished, hand-

> special. Sit behind the threethe multi-position, electrically adjustable seats. Put your hands you feel the quality of that chunky,

Turn the key and watch the glass starter button colour ignition is engaged. Depress the start button and hear the V8 engine burst into life. Move off and you'll be amazed by the precise gears – and reassured the generously glazed cabin. Of course, all the switches and priority in this cabin built around you, the driver.





24-HOUR SPORTS CAR AS HAPPY IN TOWN AS IT IS ON THE TRACK

The V8 Vantage is a high-performance sports car, yet the engine is so tractable, the handling so predictable, the visibility so good and the controls so easy to use that it is as comfortable in town or city as it is on country roads or even the track. The car's tailgate adds to its day-to-day practicality, while high safety standards provide reassurance whatever the driving conditions. All of which means the V8 Vantage can be a weekday working car, as well as a weekend treat.





drive on the world's most after-hours sports cars, it is

well in town. It's an exhilarating thoroughly – and painstakingly –

perfect ally for a weekend away. retracts automatically when not seats is easily large enough for choose. Skis are no problem, they can be loaded through the tailgate. The large fuel tank and

in use, traffic messaging to help

with optional
Aston Martin luggage
available separately
from The Collection





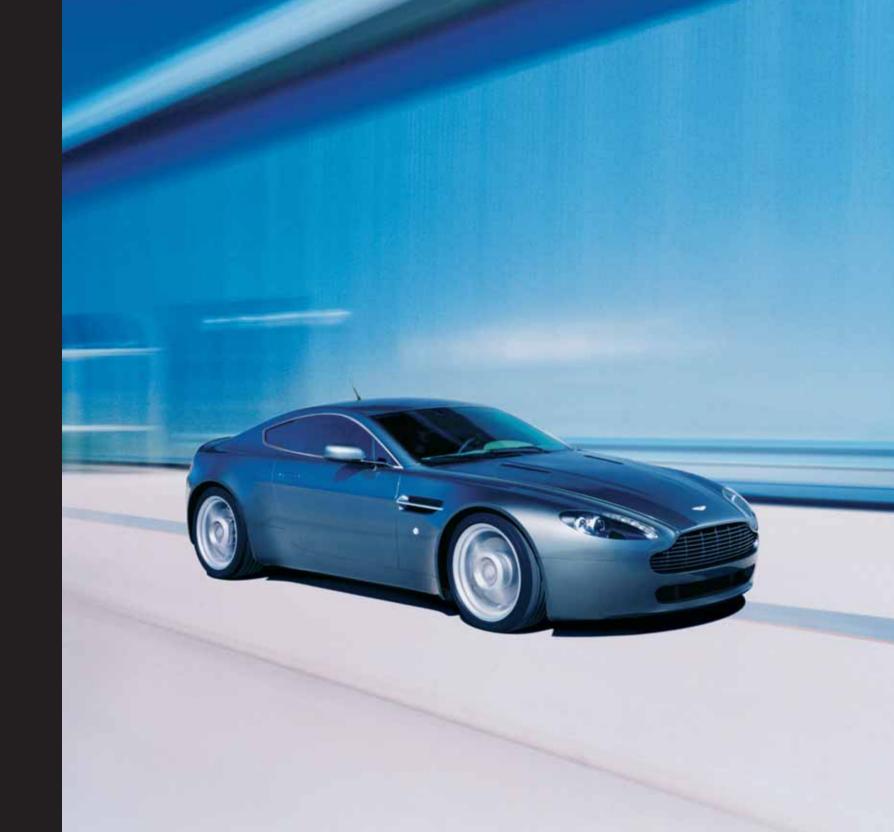
FULL STRENGTH SAFETY TO MATCH ITS PERFORMANCE

ever made – thanks in part to an Both driver and passenger array of electronic safety features, benefit from dual-stage airbags further protection is offered by deformable front and rear crash energy so that the driver and passenger do not. Excellent beams, and the substantial dashboard and footwell structures. The fuel cell, for safety but also for balance

In addition to all this, the of electronic safety aids to help

As a result, they illuminate keep it away from accidents. optimal braking balance, and Emergency Brake Assist (EBA) which automatically applies full the V8 Vantage pays as much Positive Torque Control (PTC)

LED (light emitting diode) optional xenon dipped beam rear lamps employ 360 LEDs 200 milliseconds faster than following car. In real-life situations, that kind of detail can be critical,



V8 VANTAGE SPECIFICATION

BODY

- •2 seat, 2 door body with rear tailgate
- alloy body
- impact bars
- •Halogen projector headlamps •Front mid-mounted engine,

LED rear lamps

380 bhp (283 kW) at 7000 rpm

ENGINE

- ·All allov guad overhead camshaft 32 valve,
- 4.3 litre V8
- •Dry sump lubrication system •Limited slip differential
- exhaust system with active bypass valves
- rear wheel drive

Maximum power

Maximum torque

Acceleration

Maximum speed

TRANSMISSION

manual gearbox

• Variable inlet camshaft timing carbon-fibre propeller shaft

•Rear mid-mounted 6 speed

•Fully catalysed stainless steel •Final drive ratio 3.909:1

STEERING

assisted steering. 3.0 turns lock to lock Column reach and tilt adjust

WHEELS & TYRES

Front 8.5J x 18"

Rear 9.5J x 18" Front 235/45 ZR18

Rear 275/40 ZR18 19" alloy wheels - 7 spoke

Front 8.5J x 19" **Rear** 9.5J x 19"

Front 235/40 ZR19 **Rear** 275/35 ZR19

SUSPENSION

Front Independent double Rear Independent double dampers and anti-roll bar

BRAKES

- •Emergency Brake Assist (EBA)
- Positive Torque Control

Front Ventilated and grooved Rear Ventilated and grooved steel discs 330 mm diameter

INTERIOR

- •Full grain leather interior
- Allov facia
- Electrically adjustable seats
- Automatic temperature
- ·Heated rear screen
- Reversing sensors Battery Disconnect
- Dual stage driver and passenger airbags

IN-CAR ENTERTAINMENT 160 W Aston Martin Audio

System with 6 CD autochanger with optional Traffic

OPTIONS

- including power wash
- Bright finish grille
 - ·Piano black facia trim
- finish (black, red, silver)

- Memory seats (3 positions)
- rear view mirror▲
- rear view mirror with garage
- door opener▲
 - Voice activated Bluetooth
 - Integrated GSM telephone ▲
 - Messaging Channel (TMC)▲

 - & tilt sensors)
 - ·Smokers' pack

 - ·19" alloy wheels -
 - 7 spoke design
 - ·19" alloy wheels ·
 - anthracite finish
 - Front wheel stone guards Personalised sill plaques
 - First aid kit

 - •700 W Aston Martin

DIMENSIONS Length

Width

Height

Wheelbase

Front track

Rear track

Turning circle (kerb to kerb)

Boot capacity

Fuel capacity

17.6 UK gal (80 litres) 21.2 US gal

Cd

Weight 3595 lb (1630 kg)

FUEL CONSUMPTION*

GAS MILEAGE (North America)

Combined 16.4 (17.2)

CO2 EMISSIONS*

SMOG INDEX (North America)

0.49





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