

Specification



The Enviro200 is ADL's innovative and future-defining single deck bus. It is lighter, more fuel efficient and sets the standard with a host of operator and passenger-friendly features. It offers reduced operating costs and simplified maintenance, coupled with more seats throughout the stylish, feature-packed range.

ENVIRO²⁰⁰
Low Floor Single Deck (Euro6)
8.9 m - 11.8 m

CHASSIS SPECIFICATION

Engine

Cummins ISB4.5 four cylinder and ISB6.7 six cylinder turbocharged and intercooled diesel engine certified to Euro6 emission standards. The emissions package includes Exhaust Gas Recirculation (EGR), Variable Geometry Turbo (VGT), Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR).

Displacement: 4.5 litres and 6.7 litres.

Power: Up to 210PS for the 4.5 litre and up to 250 PS on the 6.7 litre engine.

Torque: 760Nm on the 4.5 litre and 1000Nm on the 6.7 litre.

Gearbox

Choice of Allison, Voith and ZF gearboxes.

Front Axle

Dana NDS56XLF forged 'I' beam axle.

Capacity: 5000kg.

Lock angle: 53°.

Rear Axle

Dana 09-24 single reduction hypoid axle with ground gears, capacity 8,500kg or

Dana 11-26 single reduction hypoid axle with ground gears 11,000kg capacity.

Suspension

Full air suspension mounted within chassis frame floor contours eliminating component intrusion into passenger saloon areas.

Front: Two 250mm (10") air springs. Multilink location. Anti-roll bar and two double-acting dampers.

Rear: Four 225mm (9") air springs. Multilink location. Anti-roll bar and two double-acting dampers.

Features: Electronic Levelling Control (ELC) and fast-kneel facility on front suspension reducing height to 245mm.

Steering Gear

ZF 8095 integrally powered, variable ratio steering gear.

457mm two-spoke steering wheel.

Telescopic steering column and binnacle interlocked with the handbrake for safety.

Frame

Lightweight frame.

Bolted modular platform.

Steel channel, rectangle and angle sections.

Finished with a two-pack epoxy compliant corrosion-resistant paint.

Braking System

Electronic Braking System (EBS).

Full air operated category 1 ABS 375mm disc brakes with separate systems front and rear.

Park brake is air-released, spring-actuated on rear wheels.

Hand control valve.

Fitted with Knorr Bremse 630 air compressor and Air Processing Unit (APU).

Wheels and Tyres

Tyres: 245/70R19.5 XZE 2+ tubeless radial.

Or 265/70R 19.5 XZE2+ tubeless radial.

Wheels: 6.75" x 19.5" steel spigot mounted.

Cooling System

Rear mounted offside side-by-side cooling pack incorporating intercooler with electronically controlled hydraulic fan drive.

Separate coolant header tank with sight glass and offside fill point.

Flyscreen is fitted in front of radiator to minimise dirt ingress.

Fuel tank

Stainless steel fuel tank with a capacity of 220 litres.

19 litre AdBlue tank mounted rear of the rear axle.

Electrical Equipment

24 volt, single pole negative earth.

2 x 12 volt heavy duty maintenance-free batteries with 225 amp/hour capacity. Mounted on slide-out carrier under driver's cab.

Battery boost socket supplied.

Integrated intelligent battery guard.

2 x 120 amp alternators.

Fast fuse and overvoltage protection.

Continental VDO Kibes multiplex system.

Instrumentation

Stylish instrument and control binnacle with all instruments clearly visible, incorporating ISO 16121 features and dimensions.

Colour TFT screen displaying running data and intuitive On-Board Diagnostics.

All electrical controls mounted forward of the driver for easy reach.

Positive action, tactile rocker switches with LED illumination.

Exterior lighting check function.

Options

- Electronic water header tank level indicator
- Ramp interlock
- Tachograph
- Driver's cab air-conditioning
- Hubodometer
- Full vehicle squat
- Pressure release radiator cap
- Ferry lift
- Spare wheel and tyre
- Identic and Posilock fuel fill systems
- Identic AdBlue fill system
- Radiator filter
- Alloy wheels
- Engine oil management system
- Service (Femco) drain valves
- Separate start batteries
- Maintenance free gel batteries

BODY SPECIFICATION

Legislation

Our vehicles are designed and Type Approved as compliant with all relevant European Community legislation for the UK and Europe, with other country specific legislation available on request.

Structure

The Enviro200 is a narrow bodied (2.47m) midi bus ranging from 8.9m to 11.5m with a 4 cylinder engine and 10.7m to 11.8m with a 6 cylinder engine. The low weight body structure consists primarily of aluminium extrusions and shear panels with the addition of stainless steel in areas of higher stress ensuring a high body stiffness and durability whilst minimising the vehicle mass. All of the structural members are mechanically joined ensuring ease of repair following any form of collision damage.

The roof consists of a single piece composite panel significantly increasing the body stiffness with a reduction in weight compared to conventional construction. It has high thermal insulation properties helping to prevent condensation.

The body is rigidly fixed to a fully integrated steel chassis frame optimised for low weight and high strength.

Any risk of electrolytic corrosion between dissimilar metals is removed by the application of dielectric paint. The steel frame is treated with a wax injection technology prior to undersealing the completed vehicle.

Exterior Panels

Exterior aluminium side panels are flush fitting with the glazing units giving a very clean aesthetically pleasing appearance. Care has been taken to avoid protrusions, including hinges and fixing heads to prevent build up of road dirt and to make cleaning easier. Panels in higher risk of damage from kerbs including side skirts and lower corner mouldings are quickly and easily replaced. Corner mouldings are separate from the upper panels isolating potential damage and minimising replacement costs.

Glazing

The vehicle has ADL's patented Quick Release Glazing (QRG) system. This new system has a much improved aesthetic appearance both inside and out, whilst being quicker to replace than a gasket glazed vehicle. The system has a unique sealing system reducing water ingress without the need to apply messy sealants. The glass can be replaced by one man from inside the bus. Front and rear glazing is bonded.

Doors

The entrance is fitted with a twin leaf inward swing glider door with active seals for improved sealing performance. The optional exit door is fitted with a twin leaf sliding plug door providing a clear exit platform. Pneumatic doors are fitted as standard.

Interior trim

The interior comprises of wipe-clean laminates for ease of cleaning which can be tailored and coloured to the operator's requirements and to match floor and seat colour schemes.

Driver's Cab

A spacious, comfortable, quiet and ergonomically designed driver's cab giving excellent forward vision enhanced by the use of a curved windscreen. The fully adjustable steering wheel and instrument binnacle also ensures ease of reach to the operating switches. The integrated assault screen available with both fixed and drop down screens in the door provides superb driver protection.

Flooring

All products offer low entry as standard with a floor constructed from treated 12mm birch plywood and covered with a hard wearing floor system available in a wide range of colours and designs to suit the operator's requirements. The joints between vertical panels and the floor are radiused making cleaning much easier.

Heating and Ventilation

The standard vehicle is supplied with a blown-air heating system to the saloon with forced air ventilation from the front dash. The vehicle structure is insulated with fire retardant sheet insulation. The system is fitted with brushless motors, powered extract and automatic temperature control.

Electrical System

The 24 volt electrical system is fully multiplexed, with hardware located in easy-to-access locations. The system provides intuitive On-Board Diagnostics via the driver's screen. Dedicated expansion locations and interfaces are provided for additional customer equipment, including a Bus-FMS standard gateway. The chassis system wiring is integrated and routed through the body, to improve reliability and accessibility. Bulkhead connections and modular wiring improve troubleshooting and ease of repair. Cleaning light switch provides timer controlled interior lighting. Driver's courtesy lighting provides well lit entry and exit. Service indicator can identify vehicles in busy garages requiring attention. Lighting check switch eases driver's vehicle inspection. Continuous saloon lighting is provided by stylish LED strips as standard. LED lights are standard throughout the vehicle with the exception of the headlamps.

Destination Gear

Electronic LED destinations are offered as standard on all vehicles. Rear LED illuminated blinds are also available.

Ramps

Both manual and powered ramps are available.

Seating

Seating is available from a wide range of manufacturers with standard offerings such as:

- Civic V2
- Civic V3
- Practico Low Back
- Practico High Back
- Transito

Options

- Cantilever seats to the saloon area
- Driver's cab air conditioning
- Wireless bell pushes
- Ambient sensed internal and external lighting
- Front door sensitive edge
- Electric powered ramp
- Electric doors
- Coloured LED destinations
- Coloured LED saloon lighting
- CCTV
- RTPI
- WiFi
- Underseat lighting
- Telematics
- Passenger counting
- LED dipped beam
- 240 volt sockets

DIMENSIONS

Model	Overall length	Wheelbase	Front overhang	Rear overhang	Overall height
8.9m 4 cyl	8995mm	3900mm	2500mm	2595mm	2860mm
9.7m 4 cyl	9750mm	4655mm	2500mm	2595mm	2860mm
10.4m 4 cyl	10490mm	5395mm	2500mm	2595mm	2860mm
10.7m 6 cyl	10730mm	5395mm	2500mm	2835mm	2860mm
10.8m 4 cyl	10870mm	5775mm	2500mm	2595mm	2860mm
11.1m 6 cyl	11110mm	5775mm	2500mm	2835mm	2860mm
11.5m 4 cyl	11570mm	6475mm	2500mm	2595mm	2860mm
11.8m 6 cyl	11810mm	6475mm	2500mm	2835mm	2860mm

WEIGHT DATA

245 tyres with 09-24 axle

Model	8.9m to 11.5m
Front axle plated weight	4480kg
Rear axle plated weight	8480kg
Gross plated weight	12960kg
Design gross weight	13000kg

245 tyres with 11-26 axle

Model	8.9m to 11.8m
Front axle plated weight	4480kg
Rear axle plated weight	8720kg
Gross plated weight	13200kg
Design gross weight	14440kg

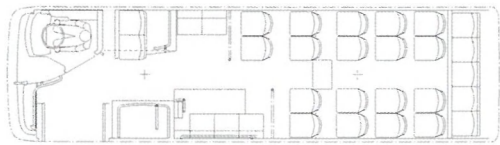
265 tyres with 11-26 axle

Model	11.8m export
Front axle plated weight	5000kg
Rear axle plated weight	9440kg
Gross plated weight	9440kg
Design gross weight	14440kg



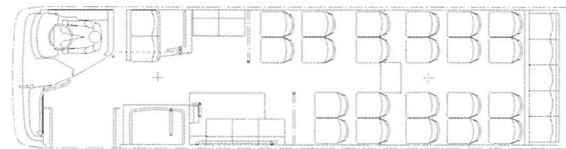
SEATING CONFIGURATIONS

8.9 m



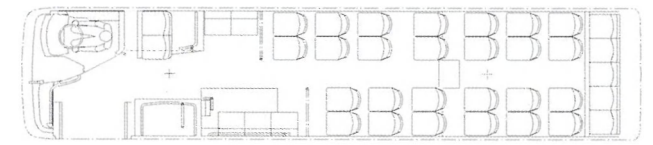
32 ♿ (25 forward facing)

9.7 m



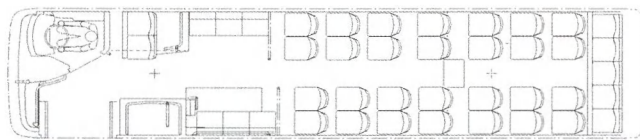
36 ♿ (29 forward facing)

10.4 m / 10.7 m (6 cyl)



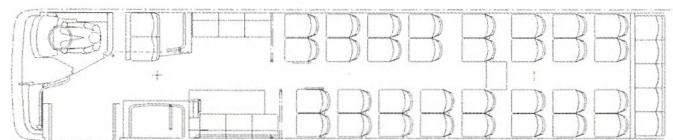
40 ♿ (33 forward facing)

10.8 m



41 ♿ (35 forward facing)

11.5 m / 11.8 m (6 cyl)



46 ♿ (39 forward facing)

ENVIRO²⁰⁰

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Improved Performance



Optimised drivetrain, optional stop-start, smart accessories, electric cooling and a fly-wheel hybrid option combine to improve efficiency by up to 35%.

Stylish New Look



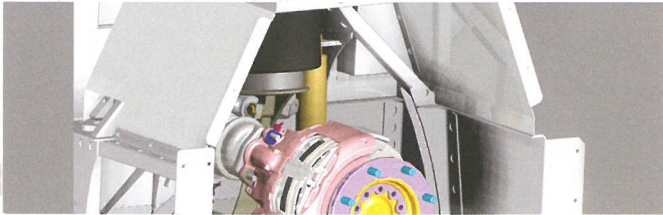
Stylish both inside and out, the new Enviro200 has a real street presence.

Common Components



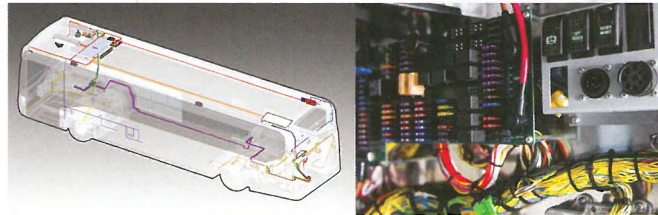
Many systems and components are shared with the Enviro400 double deck, improving reliability still further and simplifying maintenance.

New Suspension



The all-new suspension system improves ride-comfort and reliability.

New Electrical System



The re-designed electrical system is common to the Enviro400, more reliable and easier to maintain.

Lighter and More Fuel Efficient



Lighter by circa 200kg the new Enviro200 raises the bar once again in terms of fuel economy.

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QRG System



ADL's exclusive, patented, quick release glazing system reduces window replacement from three hours to three MINUTES.

All-new Interior



Large windows, wide aisles and LED lighting add to the spacious, airy ambience of the Enviro200's interior.

More Seating



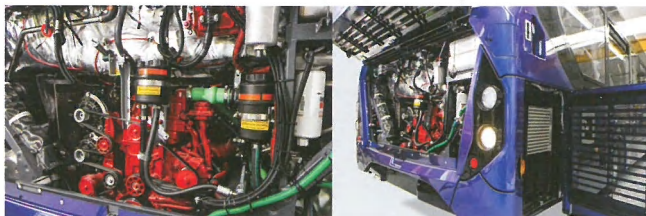
Up to five more seats than previous Enviro200 models – and with more that are forward-facing.

Driver's Cab



The driver's cab is almost identical to the recently launched, new Enviro400 double deck, providing superb comfort, easy access to switches and controls, and outstanding, panoramic vision.

Improved Service Access



Much improved access for maintenance with doors and panels that are strategically placed and which open fully, making repair and maintenance issues easy to tackle.

More Choice



The new Enviro200 is available from 8.9m to 11.8m with a wide choice of mechanical, body, seating and interior layout options.

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