The next-generation Enviro500 is an all-new, lighter, and more fuel efficient high capacity double deck bus that has been designed specifically for the Asia Pacific market.

In developing the new Enviro500 ADL has focussed on bringing to market a double deck that raises the bar in terms of fuel efficiency, reliability, maintainability and best-in-class whole life costs. It combines an all new chassis with a new body and it has been designed as a fully integrated ADL product combining passenger safety and comfort.

The bus not only provides seats for 90 passengers but is future proof in terms of impending legislation. Initial vehicles are certified at Euro5 emission level, but the design can accommodate forthcoming Euro6 legislation and also has the ability to adapt easily from conventional diesel power to future hybrid or full electric drivelines.
Low Floor High Capacity 12m Double Deck Bus

CHASSIS SPECIFICATION

Engine
- Cummins ISLe 9.5E340B, 6-cylinder turbocharged, after cooled, common rail, diesel engine.
- Certified to Euro emission standard 2005/55/EC as amended by 2008/74/EC.
- Power: 340 PS (250 kW) @ 2100 rpm.
- Torque: 1500 Nm @ 1200 rpm.
- Displacement: 8.9 litre

Transmission
- ZF 6ACT 6HP1700B, 6-speed, automatic gearbox with 3-button selector. Transmission includes hydrodynamic retarder. TopoDyn software activated.
- Performance matched with air conditioning and engine software to ensure optimum fuel consumption and consistent vehicle performance under all conditions.

Front Axle:
- ZF RL75A deep drop i-beam axle, 7500 kg design capacity.
- Steering back/forward lock angle 55°/40°.

Drive Axle:
- ZF AV 132/90° left side input T-drive dropped centre with two double acting dampers.

3rd Axle:
- ZF RL75A deep drop i-beam axle, 7500 kg design capacity.
- Suspension: Two double acting dampers. Rapid kneel lowers bus.
- Fuel Tank: 350 litres capacity single tank with posilock fast fill system.
- Exhaust System: Stainless Steel SCR exhaust after treatment system to meet Euro emissions standard. Rear discharge tailpipe extended to clear bodywork. 40 litre AdBlue tank.
- Cooling System:
  - Offside mounted radiator and intercooler with hydraulic fan drive.
  - Coolant radiator and air charge cooler separated and mounted side-by-side.
  - Hydraulic oil cooler and air compressor outlet air cooling pipe also incorporated within the cooling pack.

Lighting
- Upper and lower saloons are fitted with twin integrated modular continuous LED lighting with down lighters in the entrance area. The lighting is configurable as an option for dimming or energy saving when the engine is off.

Security System
- CCTV systems with integrated digital recording and public address systems are offered as an option. Cameras can be mounted in both saloons with monitors mounted in the driver’s cab and larger monitors in the saloon for passenger viewing. Speakers can also be mounted in both saloons for passenger announcements.

Multimedia
- An optional on-board multimedia system can be offered with viewing monitors and speakers positioned in both saloons.

Fire Suppression
- Engine Bay Fire suppression is available as an option.

Electrical System
- Starter: Delco Remy 38MT.
- Alternator: 2 x 12 volt 225 Ahr Varta Promotive Silver N9 maintenance free batteries mounted in a roll-out carrier.
- Speedometer: Included with the VDO Siemens MOKI driver’s instrument panel.
- Signal: Siemens VDO electrical multiplex system with VDU screen on driver’s instrument binnacle for driving information and diagnostics along with full PC based diagnostics capability.

Options
- Options include 3-button selector.

Steering
- ZF 8098 integrated powerally powered variable ratio steering gear.
- 457 mm 4-speak “coach style” steering wheel with a centre and stalk horn push.
- Adjustable air operated steering column interlocked with handbrake for added safety.

Body Type
- High Capacity Enviro500 low floor 12 m double deck with full air conditioning.

Body Construction
- Extruded aluminium body frame fully integrated to chassis giving high strength with low weight. Exterior panels in aluminium or aluminium composite. Great attention has been paid to the design of the interior with regard to passenger comfort and providing easy clean surfaces to minimise the cost of cleaning.

Entrance and Exit
- Single step low floor entry with a step height of 250 mm when knelt. Entrance door equipped with a manual wheelchair ramp.
- The entrance door has an inward opening twin leaf glider door while the centre exit door has an outward opening swing plug arrangement giving a wide unobstructed exit platform.

Staircase
- Uniquely designed, the staircase remains compact yet maximises passenger space. It forms an integral part of the interior layout and takes passenger safety to a new level.

Body Construction
- Full air conditioning is offered equipped to cater for hot and humid climates. The system is the Denso Compact Unit with electrostatic filters and incorporates three variable speed compressors for efficiency. It also provides excellent control between upper and lower decks. Saloon railings incorporate air distribution ducts with both fixed and passenger adjustable vents at each seat position.

Seating
- The body framing allows for a choice of seat types from high capacity city seats to high back seats for longer distance routes.

Passenger Capacities
- 90 seats in total with 31 in the lower saloon and 59 in the upper.
- Up to 47 standing passengers can be accommodated.
- Additional optional seating layouts are available.

Lighting
- Lighting is configurable as an option for dimming or energy saving when the engine is off.

Security System
- Security System is configurable as an option.

Multimedia
- Multimedia systems are configurable as an option.

Fire Suppression
- Fire suppression systems are configurable as an option.

Electrical System
- Electrical system is configurable as an option.

Options
- Options are configurable as an option.

Steering
- Steering is configurable as an option.

Body Type
- Body type is configurable as an option.

Body Construction
- Body construction is configurable as an option.

Entrance and Exit
- Entrance and exit are configurable as an option.

Seating
- Seating layout is configurable as an option.

Passenger Capacities
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Lighting
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Security System
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