

ENVIRO^{200H}

Hybrid Drive Midibus

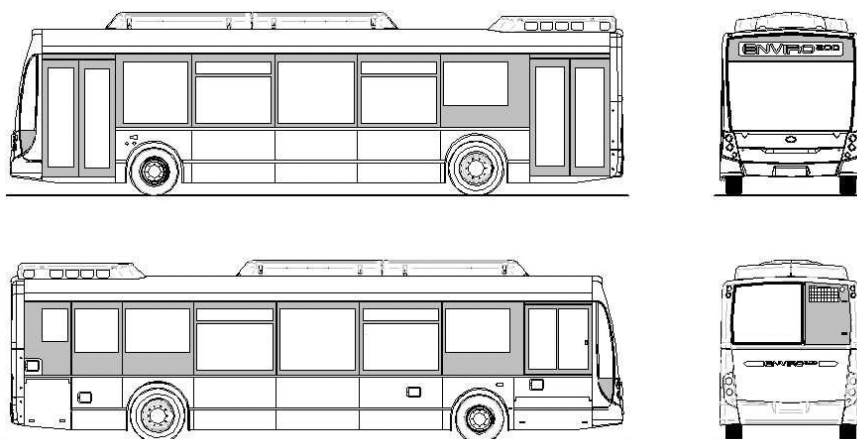


Specification



The CarbonBUSTER

The Enviro200H midibus is the latest and most advanced addition to the TransBus Enviro range of new generation, lightweight buses that are redefining standards. It will produce 30% less carbon emissions and pave the way for sustainable mobility in towns and cities across the UK. A wholly new design, the hybrid drive Enviro200H is set to transform the face of city transport by combining 30% lower carbon emissions with the ability to carry 25% more passengers than rival midibuses, whilst offering passengers unrivalled ease of access.



WEIGHT DATA

Model	10.4m	10.9m
Front Axle design weight	5000 kg	5000 kg
Rear Axle design weight	8200 kg	8200 kg
Gross design weight	13200 kg	13200 kg
Front Axle plated weight	4928 kg	4928 kg
Rear Axle plated weight	8000 kg	8000 kg
Gross plated weight	12928 kg	12928 kg

DIMENSIONS

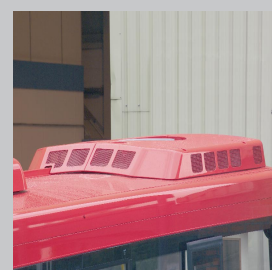
Model	10.4m	10.9m
Overall Length	10400mm	10900mm
Wheelbase	5515mm	6155mm
Overall Width	2400mm	2400mm
Front overhang	2385mm	2385mm
Rear overhang	2500mm	2500mm



Multiple choice...
Total solutions

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Engine

Cummins ISBe 4 cylinder turbocharged and intercooled diesel engine certified to Euro 3 emission standards.

Bore x Stroke: 102mm x 120mm
Displacement: 3.9 litres
Power: 115PS (86 kw) @ 1500 rpm.
Torque: 550 Nm (406 lbf ft) @ 1500 rpm.

Generator

MST:70kW nominal output, directly coupled to engine. Permanent magnet brushless machine, water cooled.

Drive motor

MST:85kW nominal output, water cooled permanent magnet brushless machine, mounted to chassis and directly coupled to a single stage epicyclic 3.53 ratio gearbox and drive to axle via a driveshaft.

Traction Battery Pack

Eight roof mounted Varta NP25 nickel metal hydride packs, nominal voltage 320V.

Front Axle

Dana NDS56XLF forged 'I' beam axle. Capacity 5000 kg. Lock angle 53°.

Rear Axle

Arvin Meritor H715ETC portal axle. Ratio 5.73:1. Capacity 8,200 kg.

Suspension

Front: Two 250mm air springs. Location by trailing taper leaf springs and panhard rod. Two double-acting dampers. Front kneel.
Rear: Four 225mm air springs mounted on 'C' frames. Four-link axle location. Two double acting dampers.

Frame

The underframe is an all welded construction of channel and box section, designed for direct flooring and full integration with the body.

Braking System

Air disc brakes
Front: Wabco Pan 19.1
Rotor diameter: 375mm
Rear: Knorr SB7000
Rotor diameter: 430mm
Parking brake: Spring applied, air released, operating on the rear axle.
Compressor: Knorr twin cylinder.
Anti lock braking system: Wabco.

Wheels and Tyres

Front: Michelin 245/70R x 19.5 tubeless radial ply tyres on 6.75" rims.
Rear: Michelin 315/60R x 22.5 XZU TL tubeless radial ply tyres on 9" rims

Steering Gear

ZF 8095 integrally powered, variable ratio steering gear.
Steering wheel: 460mm diameter 4-spoke.
Steering column: Air released, fully adjustable.

Cooling System

Radiator and intercooler mounted on the roof, the hydraulically driven fan is controlled by the vehicle management system. A coolant top-up facility is located at the offside rear corner.
A separate radiator for cooling of electronic components is mounted on the roof, with twin electrically driven fans.

Fuel Tank

Capacity 220 litres (50 gal) steel construction.

Exhaust System

Mild steel silencer with vertical rear discharge.

Electrical Equipment

Batteries: 2 x 12 volt, 150 Ahr low maintenance, mounted in a swing out carrier under the driver's cab.
Battery boost socket: Griptone GPT 24v socket.
Actia multiplex electrical system with PC based diagnostics.

Instrumentation

Column mounted drivers control binnacle incorporating electrical switches, speedometer, warning lights and driver information display screen.

Options

- Air-conditioning drive capacity
- Tachograph
- Kneel at both axles
- Stainless steel exhaust system
- Exhaust after-treatment system
- Front & rear wheel embellishers
- Reverse bleeper
- Towing eyes

An optional ZEV pack is required for running in ZEV (Zero Emission) mode. This comprises an electrically driven hydraulic steering pump and air compressor.

For ZEV application, subject to duty cycle alternative batteries may be required. Any ZEV applications should be referred to Transbus International.

TransBus International

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