

# ENVIRO350H

towards carbon neutral  
greener and cleaner

Hybrid Single Deck Chassis  
12m / 19 tonne



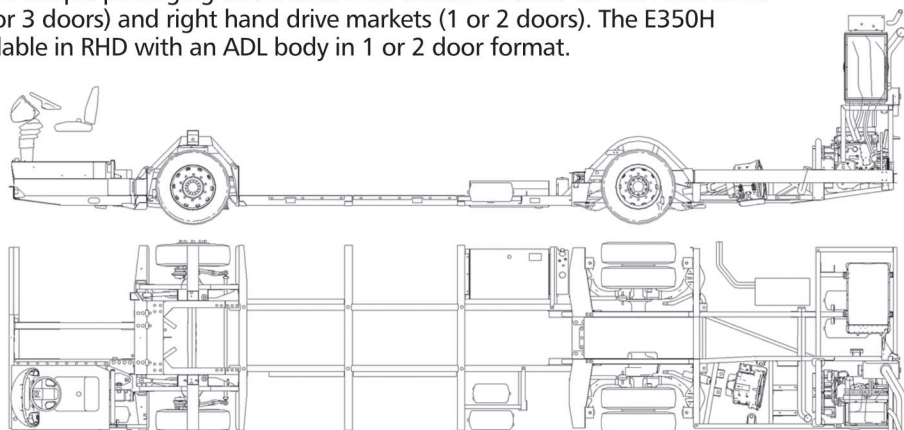
Specification

The Alexander Dennis Enviro350H is a 19 tonne hybrid-electric bus chassis using hybrid technology that is well proven in service and is in full production today.

Enviro350H promises fuel savings and CO<sub>2</sub> reductions of between 30% and 40%, reduces maintenance and provides exceptional passenger capacity and comfort.

Enviro350H combines a proven and reliable hybrid powertrain with innovative packaging that offers unrivalled passenger space and a wide choice of seating and door layouts.

The all-new super low floor chassis has been purpose-designed as a hybrid and the power units are carefully packaged to take up the minimum space, yet remain easily accessible for routine maintenance and repair. This unique packaging also makes Enviro350H suitable for left hand drive markets (1,2 or 3 doors) and right hand drive markets (1 or 2 doors). The E350H chassis is available in RHD with an ADL body in 1 or 2 door format.



## CHASSIS DIMENSIONS

Overall length (chassis)	11542mm
Wheelbase length	5970mm
Front overhang	2389mm
Rear overhang	3363mm
Width (nominal)	2535mm

## WEIGHT DATA

Front axle kerb weight	1800kg
Rear axle kerb weight	4760kg
Total kerb weight	6300kg
Front axle plated weight	7100kg
Rear axle plated weight	11500kg
Gross plated weight	18000kg
Design gross weight	19000kg

HYBRID  
TECHNOLOGY

ALEXANDER  
DENNIS

## Hybrid Single Deck Chassis

12m / 19 tonne

### CHASSIS SPECIFICATION

#### Engine

Cummins ISBe4 4 cylinder turbocharged and intercooled diesel engine certified to EEV emission standards.  
Displacement: 4.5 litres  
Power: 185 PS (138kW) @ 2200 rpm

#### Generator

BAE Systems TB100 140kW compact permanent magnet machine with integrated starter

#### Motor

Compact high power density BAE Systems motor with up to 175kW power.

#### PCS

Propulsion Control System able to handle 315kW

#### Energy Storage System (Battery)

Breakthrough Lithium Ion, nano-phosphate technology. High power and charge rate with lighter kerb weight than other technologies.

#### Front Axle

ZF RL 75A deep drop 'I' beam axle.  
Capacity: 7500 kg  
Lock angle: 55 degrees

#### Rear Axle

ZF AV-132 drop centre axle.  
Capacity: 12000kg  
Ratio: 6.2:1

#### Suspension

Front axle has two 305mm air bags, Multilink location, anti roll bar and two double acting dampers.  
Rear axle has four 255mm air bags with multilink location, anti roll bar and two double acting dampers.  
ECAS suspension control with kneeling function.

#### Frame

All welded construction of channel and box section protected with a two pack epoxy paint.

#### Braking System

Air operated category 1 ABS system with 430mm diameter disc brakes..  
Hand brake is air released, spring operated, working on the rear axle.  
Air dryer is the Knorr Bremse LA8050

#### Wheels and tyres

Michelin 275/70R x 22.5 tubeless radial ply tyres on spigot mounted 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 above the engine at the rear of the vehicle in a side by side package.

#### Electrical Equipment

Alternator, Prestolite 2 x 120A.  
Batteries, 2 x 12 volt Optima low maintenance batteries, mounted in a slide out carrier under the driver's cab.  
Actia Multiplex system with driving information presented on a fully adjustable integrated screen in the driver's binnacle.

#### Instrumentation

Additional warning lights include: master caution, battery charging, coolant level low, handbrake, main beam.  
Warning buzzer includes low air pressure.



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Alexander Dennis' policy is one of continuous development. The right is reserved to change specifications of the models and items described. For the latest details always consult Alexander Dennis. 9/11