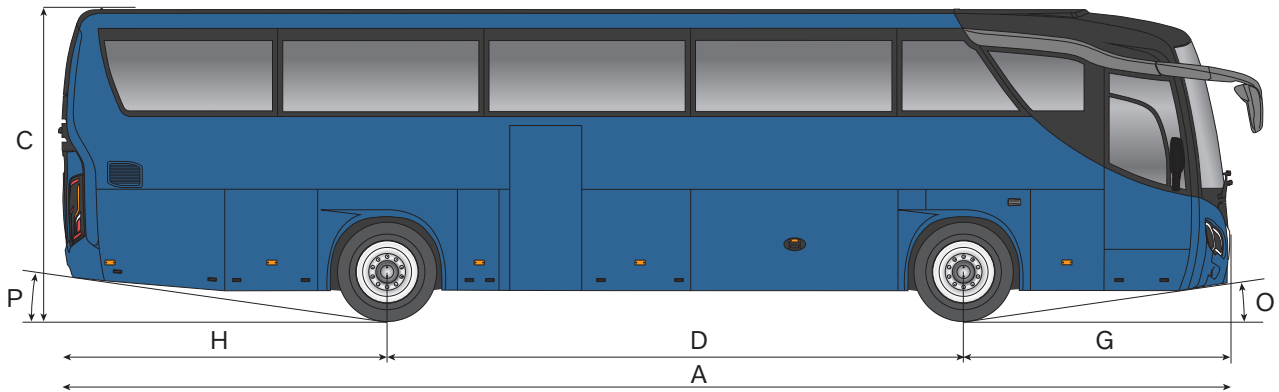


# Volvo B8R – MCV eVoTor

Euro 6



Model		
Volvo B8R (chassis), MCV eVoTor (body)		4×2, 12.6 m
Overall dimension		
A	Overall length (mm)	12630
	Overall width (mm)	2550
C	Overall height, with AC (mm)*	3540
D	Wheelbase (mm)	6250
G	Front overhang (mm)	2880
H	Rear overhang (mm)	3500
O	Approach angle (°)	7
P	Departure angle (°)	7.3
	Turning radius (outer front corner) (mm)	11473
	Turning radius (outer front wheel) (mm)	9448
Weights		
	Permitted front axle load (kg)	7500
	Permitted drive axle load (kg)	11500
	Permitted GVW (kg)	19000
Luggage capacity		
	Luggage compartment volume, with toilet, without resting compartment (m <sup>3</sup> )	9 (approx.)
Passenger capacity		
	Depending on seat layout and comfort level	53 or 55

# Volvo B8R – MCV eVoTor

Euro 6

Model	
Volvo B8R (chassis), MCV eVoTor (body)	4x2, 12.6 m
Engine	
Emission standard	Volvo D8K Euro 6
Engine system	Diesel engine with common rail injection
Displacement (dm <sup>3</sup> )	7.7
Cylinders/arrangement	6/in-line
Engine rating	
Output (hp)	Volvo D8K320 320
Output ISO 1585 (kW) (±0–4%)	240
Torque ISO 1585 (Nm); at engine speed 1050–1600 rpm	1224
Engine rating	
Output (hp)	Volvo D8K350 350
Output ISO 1585 (kW) (±0–4%)	263
Torque ISO 1585 (Nm); at engine speed 1200–1600 rpm	1428
Fuel tanks	
Diesel (l)	480
Ad Blue (l)	48
Transmission and axles	
Gearbox	Volvo I-Shift Automated Mechanical Transmission (AMT), or ZF 6AP1420B Automatic Transmission. Retarder is standard on all transmissions.
Front axle	Volvo Beam Axle
Rear axle	Volvo's single reduction axle with optimised ratios
Steering and suspension	
Steering wheel side	RHD
Suspension	Electronically controlled air suspension with kneeling and ferry lift functions
Power steering	Hydraulic power steering
Kneeling	Front axle

# Volvo B8R – MCV eVoTor

Euro 6

## Exhaust system

- One box muffler design
- Diesel Oxidation Catalyst (DOC)
- Diesel Particulate Filter (DPF)
- Selective Catalytic Reduction (SCR)
- Ammonia Slip Catalyst (ASC)
- Automatic regeneration of DPF without driver involvement under normal conditions
- On Board Diagnostic (OBD) for emissions, according to step E of emission regulations
- Engine certified for usage with diesel according to EN 590 and hydrotreated vegetable oil (HVO according to standard EN 15940)
- Biodiesel available for D13K500

## Cooling system

- Pivotal radiator to ease access for maintenance
- No coolant filter
- Coolant level warning in instrument cluster
- Higher allowed coolant temperature for better cooling performance and lower fuel consumption

## Safety features

- Collision Warning with Emergency Brake (CW-EB)
- Electronic Braking System (EBS 5)
- Electronic Stability Control (ESC)
- Anti-lock Braking System (ABS)
- Brake Blending function
- Acceleration Slip Regulation (ASR)
- Lane Keeping Support System (LKS)
- Special emergency interior illumination system and fire detection system
- Adaptive Cruise Control (ACC) – optional

## Tyres and rims

- Alcoa Dura-Bright Alloy Wheels (8.25" x 22.5") is standard, steel wheels is optional
- Tyre size 295/80 R22.5"

## Exterior and structure

- National small series type approval
- Stainless steel frame and body from GRP and stainless steel
- Double glazed side tinted windows
- Laminated one piece windscreen
- Heated glass to driver's window
- Electrically operated wing style rear view mirror
- Triple front lights combined with daytime running lights
- Manual luggage doors, parallel opening
- PSVAR: Side mounted electrically operated passenger lift

## Doors and door system

- Front Door: Plug type door with pneumatic operation with automatic locking device activated at 3 km/h and having visual warning for the driver.
- Continental Door: Manual hinged emergency door with automatic locking device activated at 3 km/h having audio and visual warning for the driver (RHS).

## Climate system

- Sutrack AC353 G4 II roof mounted air conditioning with 32 kW max cooling
- Passenger convection heating

## Interior

- Interior illumination system and fire detection system
- Separate driver's luggage compartment
- Interior LED lighting
- Centre sunken fresh water toilet equipped with hand drier, smoke detector, toilet roll holder and washbasin
- Hot water boiler with cup dispenser/holder, litter bin and integrated fridge
- Side mounted electrically operated passenger lift
- Front/Side/Rear LED Hanover destination equipment

## Driver's environment

- Spacious driver's environment with wide range of individual adjustments for outstanding ergonomics and comfort
- Instrument cluster with enhanced HMI
- Pneumatic ISRI driver seat 6860/875 NTS fitted with three-point seat belt, headrest, hands free microphone, lumbar support and two arm rests.
- Haptic warning system integrated with on-board driver support system
- Pneumatic suspension
- Reversing camera
- Saloon view camera with integrated 7" monitor
- Courier seat with three-point seat belt, access to courier microphone, USB charging point, cup holder and foot recess

## Electrical system

- Volvo I-Start system
  - dual battery system that separates batteries into two circuits
  - optimised start batteries to increase engine start capability
  - optimised consumer batteries for longer lifetime
- Automatic shut off of main switch at low voltage level
- Load balanced alternators
- Regenerative charge control to increase fuel efficiency

## Passenger seats

- 53/55 reclining Brusa passenger seats covered with cloth and leather
- Three-point seat belt
- Headrest with two hand grabs
- Footrest
- Magazine net
- Serving table with integrated cup holder
- Two USB charging points located between the seats

## Audiovisual system

- Bosch infotainment Gen 2017 system with radio, amplifier, 13+1 speakers, two microphones, two 19" LED flat screens

Volvo Buses

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