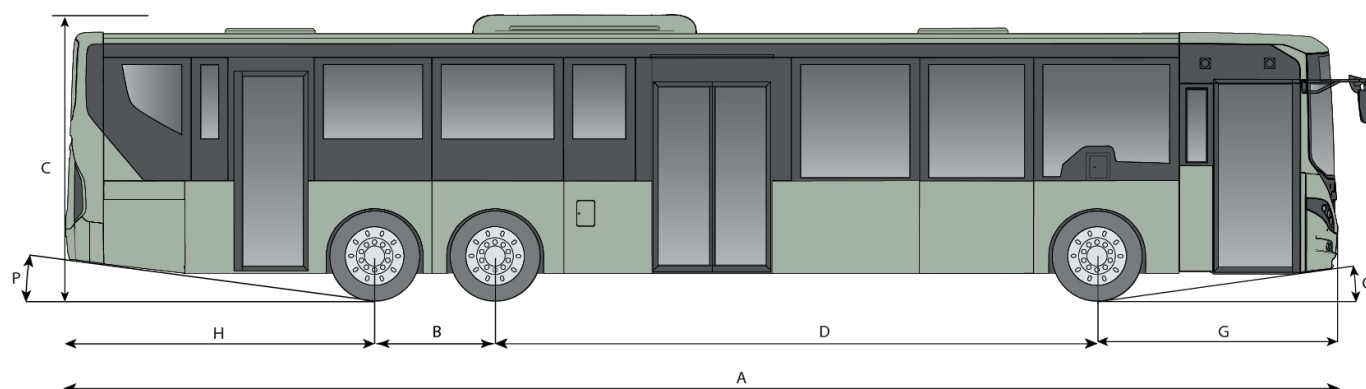




Volvo Buses. Driving quality of life

VOLVO 8900 LOW ENTRY

Euro 6



Model	4 x 2, 12.0 m	4 x 2, 13.0 m	6 x 2, 13.7 m	6 x 2, 14.7 m
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Overall dimensions					
A	Overall length (mm)	12097	13097	13797	14797
	Overall width (mm)	2550	2550	2550	2550
B	Bogie (mm)	n/a	n/a	1400	1400
C	Overall height (mm)*	3300	3300	3300	3300
D	Wheelbase (mm)	6000	7000	6000	7000
G	Front overhang (mm)	2800	2800	2800	2800
H	Rear overhang (mm)	3297	3297	3597	3597
O	Approach angle (°)*	7.1	7.1	7.1	7.1
P	Departure angle (°)*	7.6	7.6	7.0	7.0
	Turning radius (outer front corner) (mm)	11055	12325	11055	12325
	Turning radius (outer front wheel) (mm)	9035	10285	9035	10285
*)	Overall height, approach and departure angles with tyres	295/80 R22.5	295/80 R22.5	295/80 R22.5	295/80 R22.5

Weights					
	Permitted front axle load (kg)	7500	7500	7500	7500
	Permitted drive axle load (kg)	12000	12000	11500	11500
	Bogie axle load (kg)	n/a	n/a	17250	17250
	Permitted tag axle load (kg)	n/a	n/a	5750	5750
	Permitted GVW (kg)	19500	19500	24750	24750

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Model	4 x 2, 12.0 m	4 x 2, 13.0 m	6 x 2, 13.7 m	6 x 2, 14.7 m
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Engine	D8K	D8K	D8K	D8K
Emission standard	Euro 6	Euro 6	Euro 6	Euro 6
Engine system	EGR, Common rail	EGR, Common rail	EGR, Common rail	EGR, Common rail
Displacement (dm³)	7.7	7.7	7.7	7.7
Cylinders/arrangement	6/in-line	6/in-line	6/in-line	6/in-line
Engine rating	D8K280	D8K280	n/a	n/a
Output (hp) (± 0–4%)	280	280	n/a	n/a
Output ISO 1585 (kW) (± 0–4%)	206	206	n/a	n/a
Torque ISO 1585 (Nm); at engine speed 950–1700 rpm	1050	1050	n/a	n/a
Engine rating	D8K320	D8K320	D8K320	D8K320
Output (hp) (± 0–4%)	320	320	320	320
Output ISO 1585 (kW) (± 0–4%)	235	235	235	235
Torque ISO 1585 (Nm); at engine speed 1050–1600 rpm	1200	1200	1200	1200
Engine rating	D8K350	D8K350	D8K350	D8K350
Output (hp) (± 0–4%)	350	350	350	350
Output ISO 1585 (kW) (± 0–4%)	258	258	258	258
Torque ISO 1585 (Nm); at engine speed 1200–1600 rpm	1400	1400	1400	1400

Fuel tanks				
Diesel (L)	310	310, 360, 410	310	310, 360, 410
AdBlue (L)	48	48	48	48
AdBlue tank side (RHS/LHS)	LHS/RHS	LHS/RHS	LHS/RHS	LHS/RHS

Transmission and axles				
Gearbox	Volvo I-Shift AT2412F	Volvo I-Shift AT2412F	Volvo I-Shift AT2412F	Volvo I-Shift AT2412F
	ZF 6AP1200C (280 hp)	ZF 6AP1200C (280 hp)	n/a	n/a
	ZF 6AP1400C (320 & 350 hp)	ZF 6AP1400C (320 & 350 hp)	ZF 6AP1400C (320 & 350 hp)	ZF 6AP1400C (320 & 350 hp)
Front axle	Volvo RFS-L	Volvo RFS-L	Volvo RFS-L	Volvo RFS-L
Rear axle	Volvo RS1228C	Volvo RS1228C	VOLVO RS1228C	VOLVO RS1228C
Tag axle	n/a	n/a	Hydraulic steered	Hydraulic steered
Differential lock	Optional	Optional	Optional	Optional

Steering and suspension				
Steering wheel side	LHD	LHD	LHD	LHD
Power steering	Electric driven - hydraulic steering	Electric driven - hydraulic steering	Hydraulic power steering	Hydraulic power steering
Kneeling	Optional	Optional	Optional	Optional

VOLVO 8900 LOW ENTRY

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 C of emission regulations
- Engine certified for usage with biodiesel (only D8K320, standard EN 14214) and hydrotreated vegetable oil (HVO, standard EN 15940)

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

Tyres and rims

Steel or aluminium (only 8.25" x 22.5") rims available.

Rims	Tyres
7.50" x 22.5"	275/80 R22.5"
8.25" x 22.5"	295/80 R22.5"

Air and brake system

- Volvo disc brakes
- Electronic Braking System (EBS 5)
- Anti-lock Braking System (ABS)
- Acceleration Slip Regulation (ASR)
- Brake Blending
- Dual retarder control
- Drag torque control
- Hill Start Aid
- Brake Temperature Warning
- Poor brake performance warning
- Door Brake
- Brake Assistant
- Lining wear sensing and analysis
- Automatic calibration after brake pad change
- Compressed Air System, can easily be filled from external circuit

Exterior and structure

- Volvo's patented lightweight aluminium body concept
- Front and rear wall in composite material and ABS elements
- Front and rear structure in anti-corrosion steel
- Single or double tinted glazing with hopper window options
- Multilayer exterior paint finish
- Easy repair of minor damages
- Parts commonality between city and intercity buses to lower maintenance cost
- Anti-corrosion treatment of underbody with conservation sealing and silencing agents
- Xenon and halogen headlights
- Fog lamps and auxiliary lights as option
- Electrically adjustable and heated external mirrors

Doors and door system

Electric door system:

- Front door, single outward sliding
- Middle door, double outward sliding
- Third door, single outward sliding or without third door

Pneumatic door system:

- Front door, double inward gliding, or single/double outward swinging
- Middle door, double inward gliding, or single/double outward swinging
- Third door, single outward swinging or without third door

Climate system

- Two AC unit capacities
- Roof heating units
- Pipe convectors and air blowers
- Air blowers at doors
- Defroster with AC
- Driver convector or blower
- Auxiliary diesel heater
- Separate climate zones for driver and passengers

AC unit option 1

Cooling capacity max (35/40/47%)	28 kW
Heating capacity at Q80	25 kW

AC unit option 2

Cooling capacity max (35/40/47%)	36 kW
Heating capacity at Q80	28 kW

Roof heating unit (when not specified with AC)

Heating capacity at Q80	25 kW
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Convectors

Heating capacity at Q100	918 W/m
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Defroster

Heating capacity at Q80	16 kW
Cooling capacity max	5.5 kW
Airflow max at dP 0	880 m³/h
Available with/without AC	

Driver AC

Cooling capacity max (38/38/60%)	3.2 kW
Evaporator airflow at 0 Pa	500 m³/h
Electrical roof-mounted driver AC when no passenger AC specified	

Auxiliary heater

Heating capacity	30 kW
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Interior

- Spacious and bright
- Comfortable
- Separate passenger and driver climate zones
- Integrated position for passenger information displays
- Interior LED lights
- Low noise level
- Safety designed interior

VOLVO 8900 LOW ENTRY

Euro 6

Passenger seats

Volvo coach line, Volvo intercity line, or Volvo city line seats, featuring:

- Unique product design
- Superior ergonomics and comfort
- Safety designed seat with impact areas
- Low weight
- Available in wide range of specifications to meet the demands of individual customers
- Volvo Service and spare parts handling

Driver's seat and station

- Volvo dashboard
- Dashboard moves with the steering column in height and tilt
- Available in Standard (fulfilling ISO16121) and VDV version. The VDV version with multistalk for wiper and direction indicator
- Instrument cluster:
 - speedometer
 - rev counter
 - 6.5" display
 - fuel gauge
 - coolant temperature
 - brakes
 - turbo and oil pressure
 - indicators
 - warning lamps
- Tachograph
- Data logging
- Volvo Alcolock
- External Temperature Meter
- Fuel Economy Meter
- Radio/phone switches in steering wheel
- Engine controls in engine compartment to enable engine operation from the rear of vehicle
- ISRI Driver's seat
- Volvo Dynamic Steering (VDS) available for vehicle length 12.0 and 13.0 metres
- Adaptive Cruise Control

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

Number of batteries

Start batteries	2 x 12 V
Consumer batteries	2 x 12 V

Battery capacity

Consumer batteries	105 Ah
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Audio system

- Stereo radio with DAB
- Foot controlled public address system
- Amplifier adapted to city bus



Volvo Bus Corporation
volvobuses.com