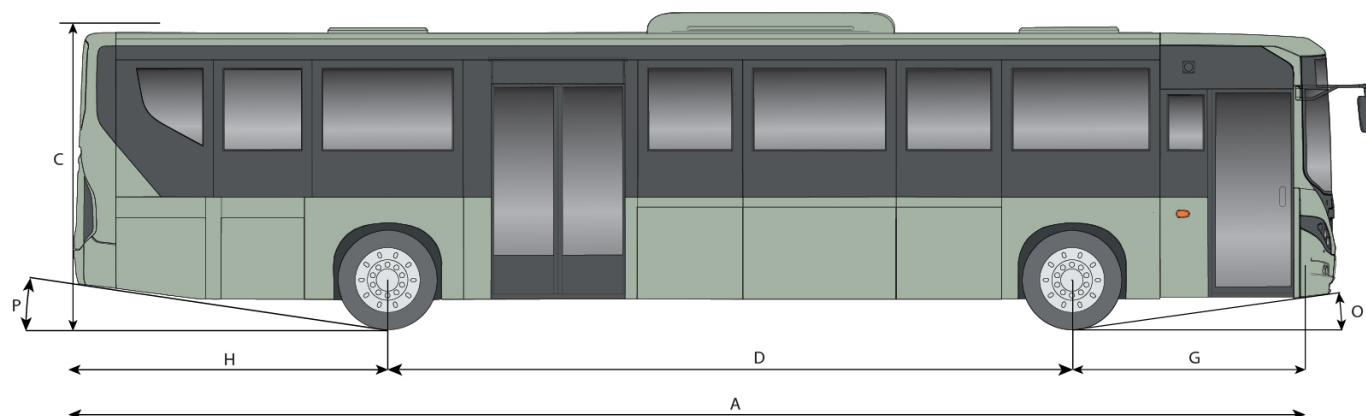




Volvo Buses. Driving quality of life

VOLVO 8900

Euro 6



Model	4 x 2, 12.3 m	4 x 2, 13.2 m	6 x 2, 14.9 m
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Overall dimensions				
A	Overall length (mm)	12396	13260	14960
	Overall width (mm)	2550	2550	2550
B	Bogie (mm)	n/a	n/a	1400
C	Overall height (mm)*	3300	3300	3300
D	Wheelbase (mm)	6330	7194	7194
G	Front overhang (mm)	2769	2769	2769
H	Rear overhang (mm)	3297	3297	3597
O	Approach angle (°)*	7.2	7.2	7.2
P	Departure angle (°)*	7.6	7.6	7.0
	Turning radius (outer front corner) (mm)	11455	12350	12350
	Turning radius (outer front wheel) (mm)	9463	10390	10390
*)	Overall height, approach and departure angles with tyres	295/80 R22.5	295/80 R22.5	295/80 R22.5

Luggage compartment volume			
Luggage compartment volume (m³)*	2.9-4.2	4.3-5.9	4.3-5.9
Volume of interior luggage racks (m³)	1.1	1.2	1.3
*) Depending on fuel tank volume and wheelchair lift			

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

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Model	4 x 2, 12.3 m	4 x 2, 13.2 m	6 x 2, 14.9 m
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Engine	D8K	D8K	D8K
Emission standard	Euro 6	Euro 6	Euro 6
Engine system	EGR, common rail	EGR, common rail	EGR, common rail
Displacement (dm³)	7.7	7.7	7.7
Cylinders/arrangement	6/in-line	6/in-line	6/in-line
Engine rating	D8K280	D8K280	n/a
Output (hp) (± 0–4%)	280	280	n/a
Output ISO 1585 (kW) (± 0–4%)	206	206	n/a
Torque ISO 1585 (Nm); at engine speed 950–1700 rpm	1050	1050	n/a
Engine rating	D8K320	D8K320	D8K320
Output (hp) (± 0–4%)	320	320	320
Output ISO 1585 (kW) (± 0–4%)	235	235	235
Torque ISO 1585 (Nm); at engine speed 1050–1600 rpm	1200	1200	1200
Engine rating	D8K350	D8K350	D8K350
Output (hp) (± 0–4%)	350	350	350
Output ISO 1585 (kW) (± 0–4%)	258	258	258
Torque ISO 1585 (Nm); at engine speed 1200–1600 rpm	1400	1400	1400

Fuel tanks			
Diesel (L)	300, 450	300, 450	300, 450
AdBlue (L)	48	48	48
AdBlue tank side (RHS/LHS)	LHS/RHS	LHS/RHS	LHS/RHS

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

Steering and suspension			
Steering wheel side	LHD	LHD	LHD
Power steering	Hydraulic power steering	Hydraulic power steering	Hydraulic power steering
Kneeling	Optional	Optional	Optional

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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 rims available

Rims	Tyres
8.25" x 22.5"	295/80 R22.5"
9.00" x 22.5"	315/80 R22.5"

Spare wheel Optional

Air and brake system

- Volvo disc brakes
- Electronic Stability Program (ESP)
- 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

- Pneumatic door system
- Inward gliding (front door only) and outward swinging doors (front and middle)
- Double glazing in all doors
- Electric sensitive edge for increased passenger safety

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

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Passenger seats

Volvo coach line or Volvo intercity 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)
- 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

Volvo Bus Corporation

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