



Technical Specifications of Scania - Kartal Low Floor City Bus





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Chassis

- Scania, type: N 320 UB4x2LB

Engine

- Type: Scania - DC09 106
- Number of cylinders: 5
- Output: 320 hp (235 kW) at 1900 rpm
- Displacement: 9300 cc
- Max. torque: 1500 Nm at 1100-1400 rpm
- Emission rating: Euro 6 CNG
- Equipped with turbocharger, charge air cooler, with EGR, Fuel system Otto
- A strong guard in the chassis and under the engine protects the engine against damages.

Gearbox

- Automatic ZF, 6AP1400B, with vertical R-N-D gear selector
- Equipped with ZF hydraulic retarder

Cooling system

- Radiator with expansion tank and automatic cooling fan with hydraulic drive system

Suspension

Front axle

- Scania, two air bellows + two shock absorbers

Rear axle

- Scania, four air bellows + four shock absorbers
- Total raising and lowering. For more safety, the vehicle returns to normal level automatically when the vehicle speed exceeds 30 km/h.
- Whole side kneeling

Rear axle gear ratio

- 4.88:1

Brake system

- Air brake system, disc brakes
- Air brakes with independent circuit for front, rear and parking
- Anti-lock Brake System (ABS)
- Electronic Brake System (EBS)
- Traction Control (TC)
- Automatic exhaust brake
- Bus Stop Brake (BSB)

Electrical system

- Two alternators: 150 A, 24 V
- Two batteries: 230 Ah, 12 V
- Body and chassis electrical System Multiplex (CAN)

Tires

- Michelin/Bridgestone 275/70R22.5

Driver area

- Steering wheel, adjustable in height and rake
- The hanging accelerator and brake pedals are installed on the steering pillar for driver's comfort.
- Instrument cluster and digital tachograph
- On Board Diagnostic system (OBD)
- Pneumatic seat: Pilot/ Sege with armrest and 3-point seat belt.

Capacities and dimensions

- Passenger capacity: 43 sitting passengers and 20 standing passengers + 1 Wheel chair
- Wheelbase: 6532 mm
- Total length: 12947 mm
- Total width: 2550 mm
- Total height with AC & Gas Tank: 3447 mm
- Max. permissible weight on front axle: 7100 kg
- Max. permissible weight on rear axle: 12000 kg
- Max. permissible weight with load and passengers: 19100 kg
- Fuel capacity: 6 CNG Fuel Tanks Type3 with the Capacity of 162 liters & 500km drive after each time refuel.
- Fuel tank Standard Compliant with ECE R-110.

Body structure

- The body structure is made of steel and welded with MIG/ MAG welding apparatus and has EU-certification of R-107.
- The body is covered with galvanized and fiberglass sheets and painted with epoxy paints. The underside of the floor is protected against rust and corrosion with a thick layer of corrosion preventive oil.

AC and heating systems

- The Konvekta tropical AC has an evaporator cooling power of 44 kW with Bock compressor.
- Driver area heater, roof mounted heater and convector with total heating power of 48 kW.

Audio/Visual system

- FM radio
- Audio player using flash memory
- Amplifier
- LED Sign boxes (inside and outside)
- Color monitor with two inputs for the rear view camera and a camera above the rear steps.
- CCTV (Non-recording) in passenger area

Standard equipment

- Curtains for all side windows
- Laminated double glazed windscreen
- Tempered double glazed side windows
- Stainless steel stanchions
- Driver's cab
- Fire alarm system in engine compartment
- Two electrical exterior mirrors and a front view mirror
- Manual sun visor
- Passenger's security system for the pneumatic doors
- Fire extinguisher
- Wheelchair ramp

