



Technical Specifications of Oghab-Scania Coaches, Model: 4212 Maral





Chassis

- Scania, type: K 410 IB4x2NB

Engine

- Type: Scania - DC13 107
- Number of cylinders: 6
- Output: 410 hp (294 kW) at 1900 rpm
- Displacement: 12740 cc
- Max. torque: 2000 Nm at 1000-1350 rpm
- Emission rating: Euro 3
- Equipped with turbocharger, charge air cooler, fuel cooler and centrifugal oil cleaner
- Engine location: Centrally and longitudinally mounted behind the rear axle
- A strong guard in the chassis and under the engine protects the engine against damages.

Gearbox

- Scania GR875R, 8 speed with Opticruise for shifting gears manually or automatically
- Equipped with automatic clutch system (without clutch pedal)
- Equipped with oil cooler
- Equipped with Scania hydraulic retarder including water cooling system
- Equipped with cruise control

Cooling system

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

Suspension

Front axle

- Two air bellows + two shock absorbers

Rear axle

- Four air bellows + four shock absorbers

Rear axle gear ratio

- 3.07:1

ELC system

- Electronic level control to adjust the body ground clearance. For more safety, the vehicle returns to normal level automatically when the vehicle speed exceeds 40 km/h.

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)
- Exhaust brake
- Electronic Stability Program (ESP)

Electrical system

- Two alternators: 150 A, 24 V
- Two batteries: 225 Ah, 12 V

Tires

- Michelin 315/80R22.5

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
- Emergency stop
- The Retarder and Opticruise levers are integrated as a unit for driver's comfort.
- Electrical diagnostic system
- Pneumatic seat: ISRI

Sound and heat insulation

- Engine compartment is fully insulated against heat and noise from the engine and gearbox.
- Roof and side walls are fully insulated against outer climate and noise.

Capacities and dimensions

- Number of seats:
 - a. 44+1+1
 - b. 30+1+1
 - c. 25+1+1 with foot rests
- Passenger seat: Kiel
- Total length: 12580 mm
- Total width: 2550 mm
- Total height with AC: 3840 mm
- Front overhang: 2800 mm
- Rear overhang: 3480 mm
- Max. permissible weight on front axle: 7500 kg
- Max. permissible weight on rear axle: 12000 kg
- Total weight without load and passengers: Approx. 14000 kg
- Max. permissible weight with load and passengers: 19500 kg
- Luggage compartment volume: Approx. 8 m³
- Fuel capacity: 750 liters
- Driver's berth volume: 2.1 m³. The driver's berth is equipped with AC, heating system, intercom phone and separate audio system.

Body structure

- The ceiling is made of fiberglass in one piece for corrosion inhibition and better insulation.
- The reinforced body structure is made of special or galvanized steel and welded with MIG/ MAG welding apparatus.
- The body of the coach is covered with galvanized sheets and painted with epoxy paints. The underside of the floor is protected against rust and corrosion with a thick layer of dinitrol.

AC and heating system

- The coaches are equipped with advanced AC and heating systems with total cooling power of 45.7 kW and total heating power of 80 kW.

- The Konvekta AC has an evaporator cooling power of 35 kW. The AC for the driver area has an evaporator cooling power of 7 kW and the driver's berth AC has an evaporator cooling power of 3.7 kW.
- The heating system consists of a roof mounted heater, convectors, a driver area heater, a driver's berth heater and an auxiliary heater.

Audio/Video system

- Two LCD monitors
- A DVD player in the passenger area
- A CD player in the driver's berth
- An amplifier with a microphone and an exterior speaker
- Sign boxes inside and outside of the coach
- A color monitor with two inputs for the rear view camera and a camera above the rear steps. It gives priority to the rear view camera.

Standard equipment

- Refrigerator and coffee machine
- Immobilizer
- Passenger's security system for the pneumatic doors
- Fire alarm system
- Removable front bumper for easy access to the towing jaw
- Laminated double glazed side and rear windows
- Two exterior mirrors with heater (Mekra), adjustable from inside
- Driver's electric window
- Step lamps with two modes
- Sun visor
- Remote control

Options

- WC