

VIVACITY C CNG - TECHNICAL FEATURES

MAIN DIMENSIONS (mm)	VIVACITY C CNG
Maximum length	7.995 mm
Maximum width	2.350 mm
Maximum height (with air conditioning)	3.150 mm
Minimum height from ground	140 mm
Wheelbase	4.080 mm
Front overhang	2.040 mm
Rear overhang	1.875 mm
Turning diameter	12.660 mm
Threshold height doors	312 mm
Corridor width: front	~ 810 mm
rear	~ 910 mm

WEIGHTS	VIVACITY C CNG
Dry weight with driver	9.300 Kg
Maximum weight allowed	13.850 Kg

ENGINE

▶ Engine	DAIMLER CHRYSLER MERCEDES M 906 LAG turbocharged intercooler EEV
▶ Position	transversal in the rear overhang
▶ Total displacement	OTTO cycle direct ignition 1 coil per cylinder, 4 stroke, electronically controlled, 2 ways catalytic muffler with Lambda sensor
▶ Maximum power	6.880 cm3, 6 cylinders in line, 3 valves per cylinder
▶ Cooling system	170 kW (231 CV) at 2200 rpm
▶ Maximum torque	water
▶ gear box	82 kgm (808 Nm) at 1400 rpm. ZF 4 HP 502 4 speeds + RM

FRONT AXLE STEERING

Independent front axle.
Power steering ZF 8098
Steering wheel adjustable in inclination and height

REAR AXLE

Inverted portal type axle GRAZIANO TRASMISSIONI
BRA 81 DC80.
Maximum load 8.150 kg
Axle ratio 1:5,73

STRUCTURE

Bodywork made of high resistance steel profiles electrically welded, forming with chassis, sides and roof an integrated structure (self-bearing monocoque). Wheel housings are made of high resistance steel sheet, integrated in the body structure.

SUSPENSIONS

Fully pneumatic with Pirelli air springs.

Front:

- n. 2 air springs
- n. 2 hydraulic shock absorbers
- stop bumpers incorporated into the springs

Rear:

- n. 4 air springs
- n. 4 hydraulic shock absorbers
- stop bumpers incorporated into the springs

The suspension trim is provided by automatic sensors through an electronic control unit (ECAS). Side kneeling system (60mm) with vehicle stop with doors opened. Chassis rising and lowering device.

BRAKES

Service brakes

Front and rear disc brakes pneumatically activated with automatic adjustment of the back lash with independent circuits and ABS/ASR.

Emergency brake

Obtained by sectioning of the service brake.

Parking brake

Mechanic pneumatically activated on the rear axle.

Retarder

Hydraulic type activated by the brake pedal.

PNEUMATIC SYSTEM

Two cylinder air compressor MERCEDES, water cooled.
WABCO mono chamber air dryer with anti frozen device and automatic condensate drainage system.
n. 6 aluminium air tanks 163 litres in total, with centralized condensate drainage system manually operated. I
- press-block plug for air refilling from outside.
- copper and polyamides piping.

ELECTRICAL SYSTEM

Multiplex type 24 V with 6 electronic units I/O + graphic display as Master unit
n. 2 batteries maintenance free 12 V 200 Ah

DOORS

Double doors inward swinging pneumatically activated with safety antitrap device.

WINDOWS

Curved front windscreen with safety glass. side windows glued to the structure with upper part sliding horizontally.

PERFORMANCES

Maximum speed 75 Km/h
Maximum grade 16%

PASSENGER CAPACITY (std.)	VIVACITY C CNG 2 porte			VIVACITY C CNG 2 porte (suburban)		
	With wheelchair on board	Without wheelchair on board	With standing passengers in wheelchair's area	With wheelchair on board	Without wheelchair on board	With standing passengers in wheelchair's area
Seating places	11	11	11	14	14	14
Standing places	42	45	49	35	39	43
Wheelchair	1	--	--	1	--	--
Folding seat	--	2	--	--	2	--
Driver	1	1	1	1	1	1
TOTAL	55	59	61	51	56	58

FUEL TANKS

n. 5 CNG tanks integrated in the roof structure, in carbonfiber type 4, 1.070 litres in total.

NO LUBRICATING POINTS

Ball bearings are UNI-BEARING lubricated for-life.

WHEELS AND TYRES

Traction single tyres on the rear. Direction single tyres on the front 315/60 R 22,5; rims ISO 9"x22,5". M connection.

MAIN OPTIONS

Driver's air conditioning
Passengers air conditioning
Onboard GSM-GPS unit for remote diagnostic

