

AVANCITY L CNG - TECHNICAL FEATURES

MAIN DIMENSIONS (mm)	AVANCITY L CNG
Maximum length	11.960 mm
Maximum width	2.500 mm
Maximum height (with air conditioning)	3.265 mm
Minimum height from ground	150 mm
Wheelbase	6.320 mm
Front overhang	2.560 mm
Rear overhang	3.080 mm
Turning diameter	17.880 mm
Threshold height 1 st , 2 nd and 3 rd door	325 mm
Corridor width: front	840 mm
rear	690 mm

WEIGHTS	AVANCITY L CNG
Dry weight with driver	12.130 Kg
Maximum weight allowed	19.000 Kg

ENGINE

► Engine	DAIMLER CHRYSLER MERCEDES M 906 LAG turbocharged intercooler EEV
► Position	transversal in the rear overhang OTTO cycle direct ignition 1 coil per cylinder, 3 stroke, electronically controlled, 2 ways catalytic muffler with Lambda sensor
► Total displacement	6.880 cm ³ , 6 cylinders in line, 3 valves per cylinder
► Maximum power	205 kW (279 CV) at 2.200 rpm
► Cooling system	water
► Maximum torque	1000 Nm (102 kgm) at 1.400 rpm.
► gear box	ZF 5 HP 504 ECOMAT 4 5 speeds + RM, or VOITH DIWA 854.3 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 132 DC 80.
Maximum load 12.000kg

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
- Rear antiroll bar

The suspension trim is provided by automatic sensors
through an electronic control unit (ECAS). Side
kneeling system (70mm) 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 DAIMLER CHRYSLER,
water cooled.
WABCO mono chamber air dryer with anti frozen
device and automatic condensate drainage system.
n. 5 aluminium air tanks 197 litres in total, with
centralized condensate drainage system manually
operated. I
- press-block plug for air refilling from outside.
- Brass 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 220 Ah
n. 2 alternators 100A + 100 A 28 V

DOORS

n. 3 double doors inward swinging pneumatically
activated with safety antitrap device (safety border).

WINDOWS

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

	AVANCITY L CNG 3 doors			AVANCITY L CNG 2 porte (suburban)		
PASSENGER CAPACITY	Wheelchair on board	Without wheelchair on board	Standing passengers in wheelchair area	Wheelchair on board	Without wheelchair on board	Standing passengers in wheelchair area
Seating places	20	20	20	35	35	35
Standing places	79	80	82	51	55	59
Wheelchair	1	--	--	1	--	--
Folding seats	--	2	--	--	2	--
Driver	1	1	1	1	1	1
TOTAL PLACES	101	103	103	88	93	95

PERFORMANCES

Maximum speed 85 Km/h
Maximum grade 16%

FUEL TANKS

n. 6 CNG tanks integrated in the roof structure, in
carbonfiber type 4, 1.284 litres in total.

NO LUBRICATING POINTS

Ball bearings are UNI-BEARING lubricated for-life.

WHEELS AND TYRES

Traction twin tyres on the rear. Direction single tyres
on the front 275/70 R 22,5; rims ISO 7,5"x22,5".
M connection.

MAIN OPTIONS

Driver's air conditioning
Passengers air conditioning
Driver's and passengers air conditioning with
independent regulation.
Onboard GSM-GPS unit for remote diagnostic

