



**BredaMenarinibus**

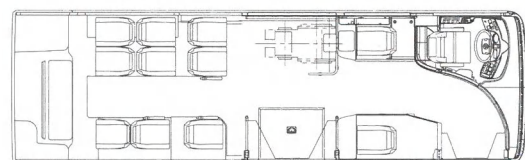
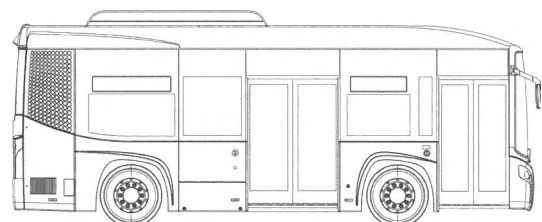
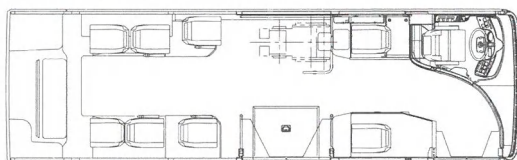
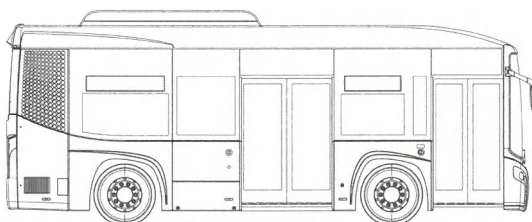
Una Società Finmeccanica



exo bus  
**Vivacity+**

VIVACITY+ represents the ideal bus range to cross historic centres as well as small and medium towns and in general it is suitable for every urban context featuring a narrow and difficult road network. The new VIVACITY+ CNG is the only "short" bus model on the market not originating from a commercial vehicle. In this bus the new internal and external styling harmoniously flow in a family feeling easily identified with the company brand. The MERCEDES engine, "gas design" features high specific power and low fuel consumption which are the result of the choice of a "lean burn" combustion complying with the EEV limits since 2003. A new driving cabin, developed according to the ISO-VDV standards, carried out also on the AVANCITY+ range, makes the bus driving easier, by improving comfort, visibility and safety. On the new VIVACITY+ a most advanced electronic installation has been introduced by using a printed circuit board technology (PCB). This improves the bus managing functions, simplifying diagnostic and monitoring of all the systems onboard.

	VIVACITY+ C CNG			VIVACITY+ C CNG			MAIN DIMENSIONS (MM)	VIVACITY C+ CNG
	2 doors			2 doors (sub)				
PASSENGERS (standard)								
Seated	11	11	11	14	14	14		7.995
Standing	42	45	49	35	39	43		2.350
Wheelchair	1	-	-	1	-	-		3.150
Folding seats	-	2	-	-	2	-		810 / 910
Driver	1	1	1	1	1	1		140
<b>TOTAL</b>	<b>55</b>	<b>59</b>	<b>61</b>	<b>51</b>	<b>56</b>	<b>58</b>		4.080
								2.040/ 1.875
								12.660
								312
								9.100 Kg





## ENGINE

- Engine MERCEDES M 906 LAG turbocharged intercooler EEV, transversal mounted in the rear overhang, water cooled.
- Functioning direct control starting by 1 spark coil per cylinder, multipoint electronic injection, 3 valves per cylinder, two way catalytic muffler and Lambda sensor.
- Total displacement 6.880 cm<sup>3</sup>, cylinders in line
- Maximum power 170 kW (231 CV) at 2200 rpm
- Maximum torque 808 Nm (Kgm 82) at 1.400 rpm
- Gear box ZF 5 HP 504 ECOMAT 4 5 speeds + RM

## FRONT AND REAR AXLE - TYRES

VOITH TJ 58-225 Independent Front axle with direction single tyres. Power steering ZF 8098. Steering wheel adjustable in inclination and height. Inverted portal axle GRAZIANO TRASMISSIONI BRA 81 DC 80 with single tyres. Maximum load 8.150 kg. Tyres 315/60 R 22,5, rims ISO 9"x22,5", M connection.

## STRUCTURE

Bodywork made of high resistance steel profiles electrically welded forming an integrated structure. Wheel housings are made of high resistance steel sheet.

## SUSPENSIONS

Fully pneumatic with air springs.  
 Front: n. 2 air springs and n. 2 hydraulic shock absorbers.  
 Rear: n. 4 air springs, n. 4 hydraulic shock absorbers, rear antirolling bar.  
 The suspension trim is provided by automatic sensors through an electronic control unit ECAS. Side kneeling system (60 mm) with vehicle stop with doors opened. Chassis rising and lowering device.

## BRAKES

Service brakes: disc pneumatically activated on both axles 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 brake pedal.

## PNEUMATIC SYSTEM

Two cylinder air compressor, water cooled.  
 Mono chamber air dryer with anti frozen device and automatic condensate drainage system.  
 N. 6 aluminium air tanks 163 litres in total, with manual centralized condensate drainage.  
 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 units. N. 2 batteries low maintenance 12 V 200 Ah. N. 2 alternators 100 A + 100 A.

## DOORS

N. 2 double doors inward swinging pneumatically activated with antitrap device and safety border.

## WINDOWS

Curved front windscreen. Side windows glued to the structure with upper part sliding horizontally.

## CNG TANKS

N. 5 CNG tanks (TYPE 4) in carbon fibre with total capacity of 1.070 litres