

VIM



**Personalized and
Sustainable Mass Transport**



100% ELECTRIC | ZERO EMISSION

12 meters CNG City Bus

vimautomotive.com





FUTURE IN HAND

Urban cities are now expanding into megacities. With growing passenger numbers and various demand of public transport, VIM developed a new electric bus series—Ecotranzit.

Ecotranzit is the ideal role for future mobility in megacity and the best choice for operators who want to manage zero emission bus fleet and operate high volume route in center areas.



BRAND NEW DESIGN

Ecotranzit, a new product in VIM pedigree, adopts our new family design concept. We always believe that less Design elements, higher efficiency and more convenience will contribute to better appealing. The appearance harmoniously combines the established look of predecessor and concise design language.

The striking front panel and illuminated logo radiates confidence and momentum; The top-mounted battery packages guarantee more space inside. All these details originate from VIM's philosophy.



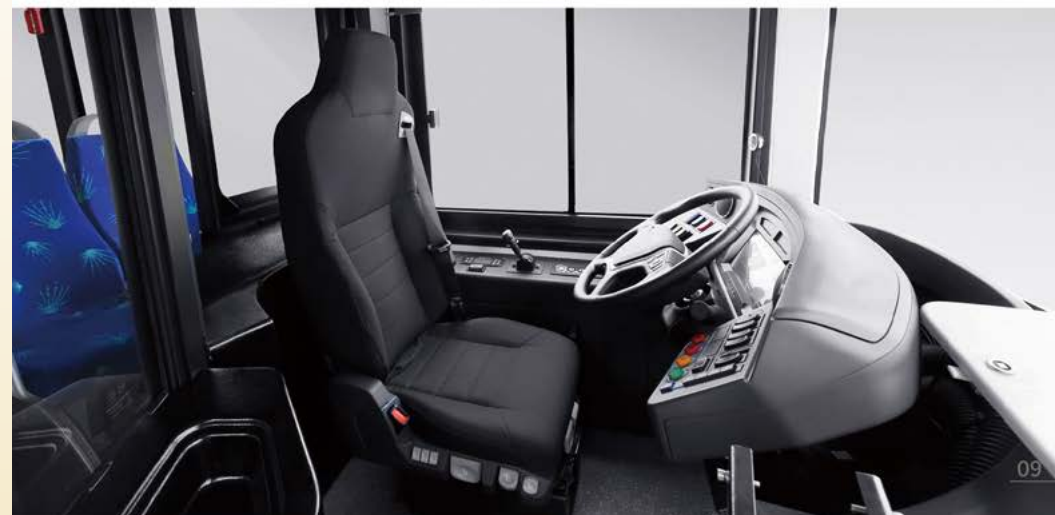
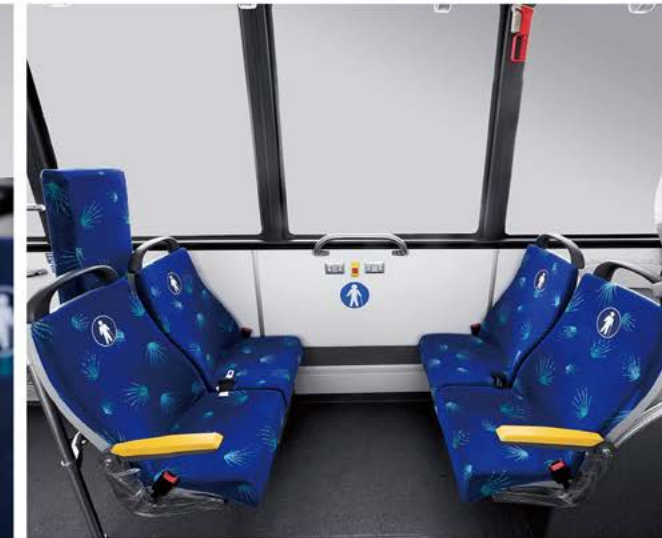




WELCOME ON BOARD

The capacious interior conveys a feeling of comfort. Generously-dimensioned body structure and reasonable layout in the interior offer passenger spaciousness without compromise. The large panoramic windows bring a broad view from inside to scenery outside.

Low floor throughout the bus and facilities for wheel chair users and people with restricted mobility ensures easy boarding and staying. The climate in Ecotransit shows its flexibility in all seasons. The powerful air conditioner boosts the air circulation and maintain a comfort temperature for passengers. The sidewall-mounted heater also comforts their heart in cold winter days.





360° ON TOUR SOLUTION

As one of the most experienced EV manufacturers in Qatar, VIM not only offers a complete EV product series ranging from 6 Meter to 18 Meter, but also provides all-around care for our customers. We call it 360° ON TOUR SOLUTION. It's a solution for customers who want to operate full electric buses in their business.

Customized product, Lifecycle management, battery solution, charging solution, operation management and after-sales service are all integrated into this solution. There is no need to worry about the full life cycle operation of your electric buses. Further details please contact our professionals.

FULL ELECTRIC CITYBUS



12 meters CNG City Bus Specification

Dimension	
Model	
Dimension	2090
Length (mm)	11980
Width (mm)	2540
Height (mm)	3440
Wheel Base (mm)	5880
Front/Rear Overhang (mm)	2750 / 3350
	≥140
Approach/Departure Angle (o)	7°/7°
Kerb Weight (kg)	12200
Gross Vehicle Weight (kg)	18000(36 seated + 37 Standing, total 73)
	19000(36 seated + 43 Standing +1 Wheel Chair, total 79+1+1)
Max. Speed (km/h)	≤90
Max. Grade Ability (%)	≥20
Min. Turning Radius (m)	≤12

Chassis	
Engine	FIAT C9N, Displacement:8.7L, Max. Output (kw/rpm): 360hp (264kw)/2000 RPM, Max. Torque (N.m/rpm): 1640N.m/1200/1785RPM
Arrangement of Engine	6 cylinders in line, Turbo charged, water cooling, Inner cooling, electronic Multi-point injection, with ECU
Position	Rear
Type of Fuel	CNG
Emission Standard	Euro VI
Cooling system	Bosch rexroth,hydraulic fan for tropical area
Engine compartment	Anti heating and anti noise covers with automatic fire extinguisher.
	Engine Compartment door is made by Aluminum and equipped with pneumatic jacks
Gearbox	VOITH 854.6 automatic gearbox with CAN & OBD system
Front Axle	ZF RL85A,7.5T
Driving Axle	ZF A132 ,13T
Retarder	Integrated in gearbox
Steering system	Recirculation ball hydraulic power steering 8098 with tilted steering wheel in 4 directions,adjustable steering column.
Battery	2 pcs-225Ah battery, Maintenance Free
Alternator	Two 150A

Starter	Supplied with Engine
Suspension system	Hydraulic shock absorber
	Front 2, rear 4 adjustable airbags(Original from ZF), with
	Knorr ELC kneeling function
Braking system	Knorr ABS,ASR,EBD,Double circuit air brake, FR/RR disc brake
Fuel & Adblue Tank	Qatar,3# CNG cylinder,7*120L, top mounted, with R110 certification
Air inlet Air filter	Special for tropical and desert area
Floor type	Low entry

Body and Electrical System

Structure	Monocoque
Shape	Modern shape, made by glass fiber
Bumpers	3 Detachable parts model
Dashboard	CAN system dashboard with OBDII socket
Wiring system	All the connectors are imported like AMP
CAN system	ACTIA,Equipped with display all necessary information according to EC/EEC regulation
Lighting system	Combined headlight, rail light, roof light, signal light with E-Mark
	All internal lightening (for inside cabin) use LED lights.
A/C	Songz,special fro tropical and desert area, with high cooling system and Bizer compressors, 35KW
Door and Pump	Two doors, Front and Middle doors with double pneumatic in-swing doorplates from, aluminum alloy frame, Lock cores, door's pneumatic lifters (jack) equips anti moisture filters. Aluminum alloy side compartment door,
	Manual ramp for disable people.
Driver cabin	Driver cabin door with luxury partition,
First Aid kit	Located near driver seat
Audio system	MP3 player with USB & 6 speakers/ Radio FM AM
Tire	Tubeless radial tires with E-mark, 275/70R22.5 / 7 pcs (6+1 spare tire) / Triangle
Windows	Adhered front and rear windshield, side double-glazing window, 50% tinted; 2/3 lower fixed,1/3 upper inside-sliding, window. All window glasses are with E-mark

Seats	Passenger seats: Polyamide material city bus seats with replaceable cover made by cloth (34 seats), late flammability cover.
	Qatar Air suspension driver seat, adjusting in 3 positions, with two armrest and 3 point safety belt.
	All seats are with E-mark.
	Seats capacity is 34+2+1
Passenger Handrail	Stainless passenger hand rail pipes
Heating system	Five units auxiliary heater inside, with E-mark
Monitoring system	Colorful monitor, one camera for reversing and the other camera for middle door combined with CAN dashboard
Emergency roof hatches	Two units roof hatch with electrical fans, with E-mark
Emergency exit hammers	Equipped according to ECE R107
Fire Extinguisher	5KG X 2 (one in front and one in rear of cabin)
Rout board	Digital direction board at front, rear and middle of bus with programming kit, with automatic station announcer.
Fire fighter	Automatic Engine Cab Fire-extinguisher +two 5kg capsule inside the cabin
Rear view mirror	Standard electric type
Get-off ring	Get-off ring with wire
Floor	Boombo floor, both side water proof,15mm
Floor mat	Anti slipping floor mat with silicon
Sun visor	Anti sunshine curtain in front and side of driver
Trim	ABS air duct with PVC side panel
Painting	Cathode electrophoresis treated paint
Wiring System	All wires shall pass from water resistance tubes
Wiper	Qatar
Tachograph	Not equipped
Body foam	All body foam shall be spray foam and late flammability
Service facility	Tools kit with lifter for change tire (15 ton) and danger triangle mark, triangle 2 pcs
Compartments	Tools kit shall place in one compartment in side of bus. All side compartments shall equip with pneumatic jacks.
Remarks	Hook in front and rear of bus
Remarks	All motor/fan are European brand expect wiper and hatch fan.
Remarks	All necessary parts comply with the required ECE/EC regulation.

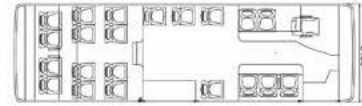
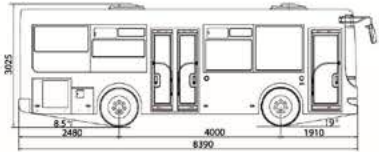


Technical Specification &
Seating Variant

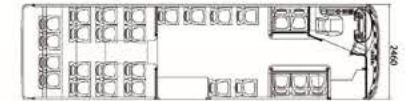
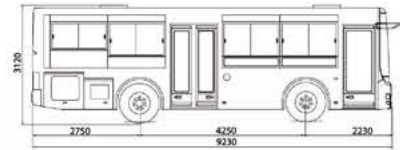
Seating Variant



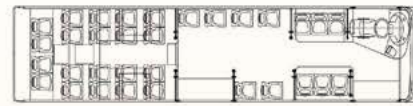
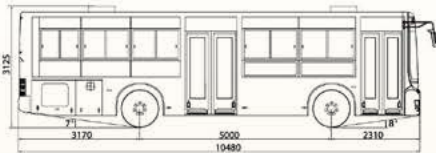
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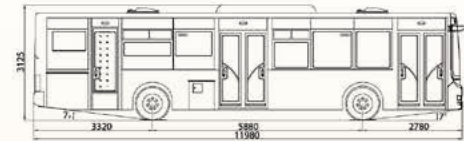
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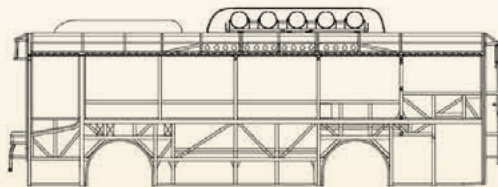
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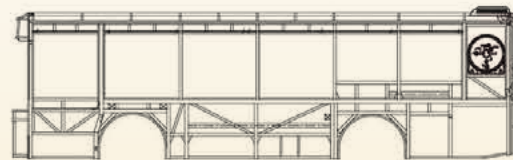
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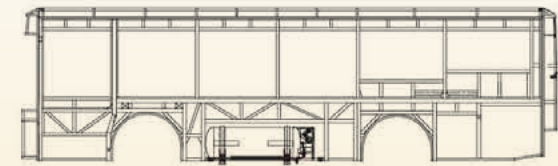
Natural Gas Bus Layout



CNG Cylinder Layout



LNG Cylinder Layout



LNG Cylinder Layout

Technical Specification

GENERAL DATA						
Types	XML 6745	XML 6845	XML 6925	XML 6105	XML 6115	XML 6125
Dimension	7445x2300x2880	8390x2460x3120	9180x2460x3120	10480x2500x3200	11380x2540x3180	11980x2540x3180
Length (mm)	3600	4000	4250	5000	5700	6100
Width (mm)	10" / 8"	9" / 8"	9" / 9"	8" / 8"	8" / 8"	9" / 12"
Height (mm)	6700/9810	7700/11200	8730/12500	10830/15000	11300/17000	11820/18000
ENGINE						
Engine Model	VC4E180-30	VC4G180-30	VC6J200-30	VC6J230-30	VC6G240-30	C245-20
Max Power (KW/rpm)	132/2500	132/2300	147/2500	170/2000	177/2200	181/2200
Approach/Departure Angle (o)	630/1600	660/1400	730/1450	850/1200-1700	950/1200-1500	1043/1400
Kerb Weight (kg)	EURO IIII					EURO II
Gross Vehicle Weight (kg)	YC4G180N-30	YC4G180N-30	YC6G200N-30	YC6G230N-30	YC6G240N-30	YC6G260N-30
CHASIS						
Transmission	Qatar five-gears manual transmission (Option:AT)					
Clutch	Single disk, hydraulic operation, pneumatic boost					
Front Axle	Qatar 3.6T	Qatar 4.2T	Qatar 4.2T	Qatar 5.5T	Qatar 5.5T	Qatar 6.5T
Rear Axle	Qatar 7T	Qatar 8T	Qatar 9T	Qatar 11T	Qatar 11T	Qatar 12T
Steering System	Qatar hydraulic assisted (Option:ZF)					
Fuel Tank	90L	160L	200L			
Brake System	Double-circuit air brake, front/rear drum type (Option:Disk brake)					
Auxiliary Brake	Not equipment (Option: Retarder)					
Suspension	Leaf spring suspension					
Tire	7.50R20	8.50R20		11R22.5		12R22.5
BODYWORK						
Bodywork Frame	Integral structure made of rectangular cross section steel tubes					
Front / Rear Panels						
Side Panels	Square steel frame + Fiber glass panel					
Door Arrangement	Front + Middle					
Number of Seats	20+1	21+1	27+1	32+1	34+1	36+1
Roof Safety Hatches	1 piece					2 pieces
ELECTRICAL SYSTEM						
Air Conditioning	Not equipment (Option: Non-individual, Roof mounter)					
Audio-Visual Equipment	MP3 Player					
Reversing Monitor	Not equipment (Option: Black and white monitor / Color monitor)					



Product of
ecotranzit