

xcelstor CNG

Compressed natural gas: the solution to your clean transit commitments.



Green Transit Solutions.

Deploying low and zero-emission technology is a critical part of reducing greenhouse gas (GHG) emissions.

Introduced to market in 1994, New Flyer's heavy-duty compressed natural gas (CNG) transit bus can meet your transit agency's low-emission needs today.



Fact. CNG lends consistency in operation and design across the transit industry: all bus manufacturers who produce CNG buses in North America do so using the same CNG tank technology.

CNG offers direct solutions to your low-emission challenges.

With clean, safe, and readily available technology, CNG propulsion **emits 90% less nitrogen oxide (NOx) than diesel engines** - and meets particulate matter levels without the need of a filter.



Breathability.

CNG buses emit virtually no visible particulate matter or black soot at the tailpipe, lending cleaner, more breathable air to your community.



Easy Transition.

With fewer infrastructure resources than battery-electric buses, CNG buses can be immediately deployed and scaled, helping to transition your fleets to low and zero-emission.



Extended Range.

CNG buses provide an extended range of 350 - 400 miles.



Cost Effective.

The price of natural gas remains steady and less expensive than diesel.



Low-Maintenance.

CNG buses are easier to maintain than traditional diesel engine buses.



Particulate Filter-Free.

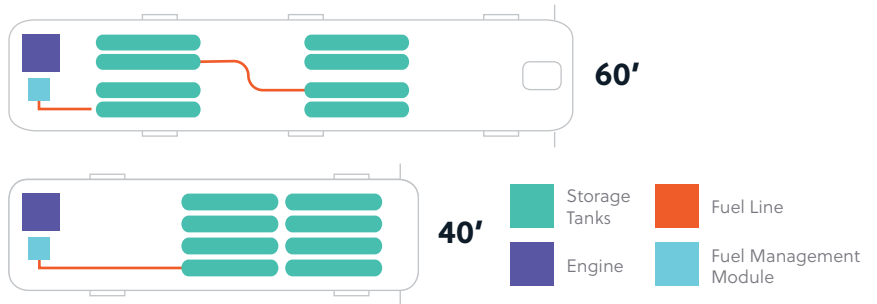
CNG eliminates the need for particulate filters and regeneration cycles.

How it Works.

A CNG fuel system transfers high-pressure natural gas from the storage tank through the main fuel supply line to a fuel block manifold and filter.

The natural gas pressure level is reduced using a pressure regulator—to be compatible with the engine fuel injection system. Fuel is then introduced into the intake manifold or combustion chamber.

CNG is made by compressing natural gas. It is stored in cylindrical tanks placed on the roof and distributed via a main fuel supply line.



xcelcior[®] CNG

Why choose a New Flyer CNG Bus?



New Flyer has been your CNG leader for 25 years and offers unmatched expertise in the design and deployment of low-emission transit buses.

Extensive Experience, Since 1994.

New Flyer has delivered over 13,000 CNG buses to transit agencies across the United States and Canada. Today, its CNG technology is built on the Xcelcior[®] transit bus model.

Proven Design and Performance:

New Flyer has delivered over 14,000 Xcelcior[®] heavy-duty transit bus models, together accumulating over one billion miles of revenue service.

Fact. New Flyer CNG buses conform to the EPA and NHTSA comprehensive Heavy-Duty National Program that reduces greenhouse gas emissions and fuel consumption for heavy-duty highway vehicles.

Unmatched Safety: New Flyer continually references and integrates industry-leading safety measures and best practices to its manufacturing process, including recommendations of the Federal Motor Carrier Safety Administration ("FMCSA") and National Fire Protection Association ("NFPA") 2019 – both of which are considered to be industry standards.

Commitment to Clean, Safe, and Sustainable Transit: Every day, New Flyer buses carry millions of people to their destinations – this is not a responsibility we take lightly. Together with leading transit agencies, we are proud to deliver safe, low-emission mobility solutions to communities across North America.

	35'	40'	60'
MEASUREMENTS			
Length	36' 3" (11.05m) over bumpers; 35' 5" (10.80m) over body	41' 0" (12.50m) over bumpers; 40' 2" (12.24m) over body	60' 10" (18.54m) over bumpers; 60' 0" (18.29m) over body
Width	102" (2.6m)	102" (2.6m)	102" (2.6m)
Roof Height	11' 1" (3.38m) over roof enclosures	11' 1" (3.38m) over roof enclosures	11' 1" (3.38m) over roof enclosures
Step Height	14" (356mm)	14" (356mm)	14" (356mm)
Front Step Height (Kneeled)	10" (254mm)	10" (254mm)	10" (254mm)
Interior Height – Floor to Ceiling	79" (2m) over front and rear axle; 95" (2.4m) mid-coach	79" (2m) over front and rear axle; 95" (2.4m) mid-coach	79" (2m) over front and rear axle; 95" (2.4m) mid-coach
Tire Size	305/70R22.5	305/70R22.5	305/70R22.5
Aisle Width	22" to 24" (559mm to 610mm) (varies with seat model)	22" to 24" (559mm to 610mm) (varies with seat model)	22" to 24" (559mm to 610mm) (varies with seat model)
Wheelbase	226.75" (5.8m)	283.75" (7.2m)	229" (5.8m) front / 293" (7.4m) rear
PROPULSION			
Transmission	Allison; Voith and ZF options available	Allison; Voith and ZF options available	Allison; Voith and ZF options available
Engine Options	Cummins L9 CNG	Cummins L9 CNG	Cummins L9 CNG
CAPACITY (With wheelchair barrier protection)			
Seats	Up to 32	Up to 40	Up to 61 (with one exit door)
Standees (*Varies with number of seats)	Up to 33	Up to 43	Up to 62 (with one exit door)
ACCESSIBILITY			
Number of Doors	2	2	2 or 3 (option for up to 5 doors)
Wheelchair Accessibility	32" (813mm) wide, 1:6 slope NFIL or SmartRider™ ramp, front door	32" (813mm) wide, 1:6 slope NFIL or SmartRider™ ramp, front door	32" (813mm) wide, 1:6 slope NFIL or SmartRider™ ramp, front door
Wheelchair Locations	2 - front location, rear location also available (other options available)	2 - front location, rear location also available (other options available)	2 - front location, rear location also available (other options available such as bridge plates)
WEIGHT (Approximate weights; varies with customer options)			
Curb Weight	27,000 lb (12,247 kg)	29,600 lb (13,426 kg)	43,300 lb (19,640 kg)
APPROACH ANGLE			
Approach/Departure/Breakover Angles	9/9/12	9/9/9	9/9/12 (front) 9 (back)
TURNING RADIUS (Body, with aluminum wheels; *Varies with wheel type)			
Turning Radius	39' (11.9m)*	44' (13.4m)*	44' (13.4m)*
MAIN COMPONENTS			
Floor	Composite at rear interior step, ACQ Plywood remainder (dB Ply used on upper deck). Tarabus, Altro, RCA	Composite at rear interior step, ACQ Plywood remainder (dB Ply used upper deck). Tarabus, Altro, RCA	Composite at rear interior step, ACQ Plywood remainder (dB Ply used upper deck). Tarabus, Altro, RCA
Electrical System	Parker Vansco	Parker Vansco	Parker Vansco
Cooling System	Electric cooling fans (EMP, Modine)	Electric cooling fans (EMP, Modine)	Electric cooling fans (EMP, Modine)
Fuel Tank	Type 4 Natural Gas Vehicle Fuel Cylinder: 3300 SCF at 3600 psi service pressure	Type 4 Natural Gas Vehicle Fuel Cylinder: 3300 SCF at 3600 psi service pressure	Type 4 Natural Gas Vehicle Fuel Cylinder: 3300 SCF at 3600 psi service pressure
HVAC	Thermo King T15 or TEA15	Thermo King T15 or TEA15	Thermo King RLF T15 (front) TEA15 (rear)
Axles	MAN VOK 07 front disc brakes MAN HY-1350 rear disc brakes, single reduction axle	MAN VOK 07 front disc brakes MAN HY-1350 rear disc brakes, single reduction axle	MAN VOK 07 front disc brakes ZF AVN 132 center disc brake MAN HY-1350 rear disc brakes, single reduction axle



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