

CNG Refueling Systems Basics

Low Pressure Pipeline Gas



Dryer

The Dryer removes liquids that might harm the compressor (especially in colder climates). There are two types of dryers: non-regenerating desiccant dryers require periodic replacement of the desiccant while regenerating dryers do not.



Compressor

The compressor is the heart of the system. It increases the natural gas to 3,600 PSI. Compressor capacity ranges from 2-3 gge/hour to 120 gge/hour or more.

Low Pressure Dry Gas

3600 psi CNG

Fuel Post



Time Fill

Time fill is the most cost-effective refueling option. The compressor sends CNG directly into the tanks of your vehicles. For vehicles that remain at home base over night, time fill is the ideal solution. It will typically be sized to fill your vehicles in 8-12 hours.

Fast Fill

In a Fast Fill configuration the compressor is used to fill a high pressure storage tank. This tank then feeds a fast-fill dispenser allowing your vehicles to fill up in a few minutes. The number of vehicles you can fill in an hour depends on the amount of storage and the capacity of the compressor.



Fast Fill Dispenser



Storage

Combination

Combo stations are a popular option with fleets to get the best of both options



Nat G[™]
CNG Conversions