

Public CNG filling station type GC 85-150



CNG filling stations series GC 85 -150 are compact and highly reliable devices designed for refueling passenger vehicles, commercial vehicles and busses powered by natural gas or biomethane.

CNG filling station complies with regulation TPG 304 02, eventually TDG G 982 03 with related regulations and standards.

The operator of the filling station must be authorized for filling gas pressure vessels (including pressure stations) according to national rules.

Description of filling technology

The inlet natural gas passes through drying device with a molecular sieve, where is freed of moisture, and filtration device for the final purification of the gas. In the compressor device the gas is compressed to the pressure of 25 MPa. Under this pressure is delivered into storage cylinders and then into the dispensing device (dispenser). Filling of the vehicle pressure tank ensures the dispenser with hose and filling nozzle NGV1, eventually NGV2. After reaching the desired pressure of 20-21, the entire filling process is automatically terminated. Filling hose is disconnected from the vehicle tank and everything is ready for the next filling.

Model CNG station - building

Technological container is self-supporting steel structure with thermal and sound insulation. The standard color is selectable by the customer. The container is divided into machine-technological part and the part for switchboard which is gastight separated. For maximum accessibility are two entrances to the machine-technological part, to electrical switchboard is another separate entrance. The container is placed on the pre-prepared foundation strips. Construction of the container can also be made of material with increased fire resistance for 45 min or in modification for placement in seismological unfavorable regions.

All technology of CNG filling station is mounted in the container - input connection fittings, pressure regulators, safety valves, gas dryer before entering the compressor, blow-down vessel, compressor, buffer storage tank of compressed gas (divided into three pressure sections) priority panel for optimal and fast filling of vehicles through the dispensing device.

For maximum security the room with technology is monitored by a gas leak detector with an acoustic signal. Entire technology meets the highest requirements for safe and environmentally friendly operation.

Control panel with touch screen is mounted on the electrical switchboard, where can be viewed all important parameters, including the history of conditions and disorders.

Filling station is normally connected to a service center for possibility of an immediate diagnostics of technology.



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Technical data		
Type	GC 85 / GC 150	
Inlet pressure	0,3 – 0,9 bar	
Supplied quantity	from 84 Nm ³ /h	to 144 Nm ³ /h
Electric motor	30 kW	36 kW
Working pressure	from 25 to 29 MPa	
Storage	2 800 l*	
Dimensions	2,5 x 6,2 x 2,9 m	

* Can be produced on request (multiples of 140 l).

J.A. BECKER & Söhne Compressors type SVB 1100/300NG and SVB 1300/300NG1

The most important part of the CNG filling station is the compressor. Choice of its performance and type is essential for its reliability, the amount of operating costs and long-term operability. The compressor must be suitable for natural gas or biomethane. German manufacturer of the compressors J.A. BECKER & Söhne fully meets all these requirements which has long been proven.



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