

CNG Filling Unit for Passenger Cars and Commercial Vehicles

MOTOR JIKOV
STROJÍRENSKÁ

Benefits of CNG use

- 30 – 50 % fuel cost savings
- reduction of produced emissions (CO₂ by 25%; NO_x and CO by 90 %; 100 % of solid particles)
- zero road tax, access to environmental city zones

Benefits of the MOTOR JIKOV Strojírenská a. s. CNG Filling Unit

- easy installation, gas connection and 3 x 400 V power supply
- return of investment in approx. 2 years with 50,000 km driven per year, depending on size of CNG vehicle fleet
- modern automation securing simple and safe operation
- traditional manufacturer of automotive components guaranteeing reliability and quality
- low operating and service costs
- outdoor and indoor use (must be according to local fire regulations)
- option to connect a second filling hose
- installation, training and service of filling units provided by MOTOR JIKOV Strojírenská a.s.
- may be connected to a gas storage unit (see page 2)

Typical Applications

- passenger cars, commercial vehicles, vans, fork-lift trucks etc.
- 1 to 6 vehicles per one filling station
- up to 140,000 km per year per filling station
- taxi, postal service, delivery service, tradesmen (plumbers, bakers), driving school, municipal service (police, technical, day care), private vehicles etc.

Technical Parameters

- 3-stage oil lubricated compressor
- 5 Nm³/h filling power (80 l tank, 200 bar, approx. 3 hours)
- gas inlet pressure of 0.01 to 0.2 bar
- max output pressure 235 bar
- 3-phase, 4-pole electric motor, 2.2 kW/ 3x400V/ 2800 rpm
- integrated gas meter
- gas detector
- gas dryer
- breakaway coupling NGV1 connector
- automatically controlled filling process
- temperature pressure compensation

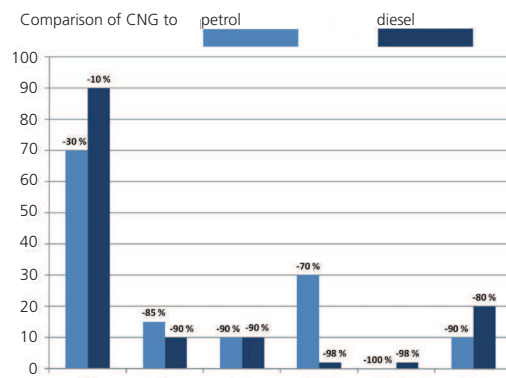
Contact:

Motor Jikov Strojírenská a.s.
Zátkova 495/II
392 01 Soběslav
Czech Republic
www.jikovcng.cz
mjs@mjs.cz

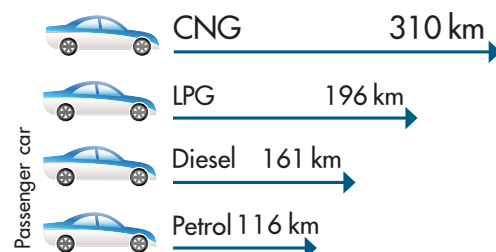


Certification

EN ISO 9001: 2008
ISO/TS 16949: 2009
TÜV NORD



Comparison of vehicle range with 10 € worth of fuel



Benefits of the MOTOR JIKOV Filling Station

- easy installation, gas connection and power feed of 3 x 400 V required
- return of investment in 1 to 3 years depending on number of annually driven kilometres and size of CNG vehicle fleet
- modern automation securing simple and safe operation
- traditional manufacturer of automotive components guaranteeing reliability and quality
- flexible modular solution – station capacity according to customer's requirements, depending on CNG vehicle fleet size
- low operating and service costs
- MOTOR JIKOV provides a turnkey installation and consequent service of the station

Typical Applications

- fleets of 5 to 30 passenger cars and vans
- fleets of fork-lift trucks
- taxi, postal service, delivery service, tradesmen (plumbers, bakers), driving school, municipal service (police, technical, day care), logistic service vehicles

Technical Parameters of the CNG MJ05 Compressor

- 3-stage oil lubricated compressor
- 5 Nm³/h filling power
- gas input pressure max 0.2 bar
- output pressure for filling of storage 250 bar
- 3-phase electric motor, 2.2 kW/ 3x400V/ 2800 rpm
- integrated gas meter, gas detector and gas dryer
- automatic filling, including pressure start
- TÜV NORD certified

Technical Parameters of the Pressure Storage Unit

- 1 to 4 CNG MJ05 stations can be connected
- modular arrangement of 140l pressure vessels
- two pressure sections, manual valve switch
- breakaway coupling and NGV1 connector
- connection of compressors with storage enables automatic start during pressure drop
- vehicle overpressure protection
- vehicle filled in 3 minutes (80 l)
- TÜV NORD certified



Certification

EN ISO 9001: 2008
ISO/TS 16949: 2009
TÜV NORD



Contact:

Motor Jikov Strojírenská a.s.
Zátkova 495/II
392 01 Soběslav
Czech Republic
www.jikovcng.cz
mjs@mjs.cz

