

Natural gas recovery with mobile compressor



Cost savings
on your side



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NET4GAS owns and operates a mobile gas recovery compressor that enables the safe recovery of gas from the gas pipeline section under repair either to an adjacent section of the same gas pipeline or to another gas pipeline. Using this device before a gas pipeline repair enables the pipeline owner or operator to achieve considerable financial savings for natural gas even in cases when the compressor is deployed for less than 24 hours.

Advantages of mobile compressor

- High mobility of the equipment
- Simple and quick connection
- Savings in form of recovered gas
- Driven by natural gas
- Lower emissions of greenhouse gases
- Lower noise level compared to gas discharge

Technical data

Manufacturer:	GANZAIR Kompressortechnik Kft.
Type:	GG 01/75
Total weight (incl. trailer):	< 40 t
Capacity:	1,500 TO 38,000 Nm ³ /h, depending on operating conditions
Design pressure:	75 bar
Minimum inlet pressure:	5 bar
Maximum discharge pressure:	75 bar
Operating temperature:	-10 °C to +40 °C

Declaration of conformity (CE mark)

- Directive 98/37/EC on machinery
- Directive 2006/95/EC on safety of low-voltage electric equipment
- Directive ATEX 94/9/EC
- EMC Directive 2004/108/EC
- PED - The Pressure Equipment Directive 97/23/EC

Cooler

Manufacturer:
Air Cooled Exchangers
Type: T64-2-16
Diameter: 2 m

Drive unit

Manufacturer:
Caterpillar
Type: G3412LE
Capacity: 475 kW
Type: 12-cylinder gas engine

Compressor

Manufacturer: Cameron Superior
Type: CFA-34
Type: Reciprocating, four cylinders, double acting, balanced, opposed, low-vibration design

Example of mobile compressor deployment

Source gas pipeline (from which the gas is withdrawn) – parameters:

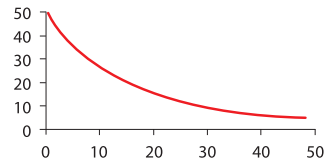
Section length: 15 km

Nominal diameter: DN 700

Pressure before start of recovery: 50 bar

Target gas pipeline (to which the gas is recovered) – parameters:

Pressure in the gas pipeline: 50 bar

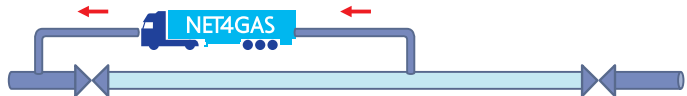


- ▶ **Pressure reduction in the source gas pipeline to 5 bar in approx. 48 hours.**
- ▶ **Saving almost 300,000 Nm³ of gas.**

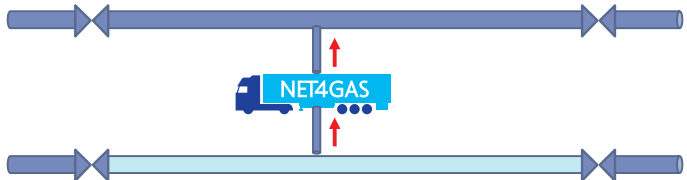
Individual gas recovery parameters, i.e., recovery time, pressure development, and recovered gas volume, are unique for each compressor deployment and depend on input parameters (gas pipeline parameters, pressures, length and type of temporary connection pipeline used between the compressor and gas pipelines, etc.); these must be determined individually for each compressor deployment.

Usage examples

- Natural gas recovery between two sections of the same gas pipeline



- Natural gas recovery from a section of one gas pipeline into a parallel gas pipeline



References

- Dozens of successful deployment operations on the NET4GAS transmission system
- Deployment at external customers (TSO, DSO, SSO, etc.): Czech Republic, Slovakia, Germany, Austria, Poland



NET4GAS, s.r.o.
Na Hřebenech II 1718/8
140 21 Prague 4 - Nusle
Czech Republic

E-Mail: specialmaintenance@net4gas.cz
Web: www.net4gas.cz