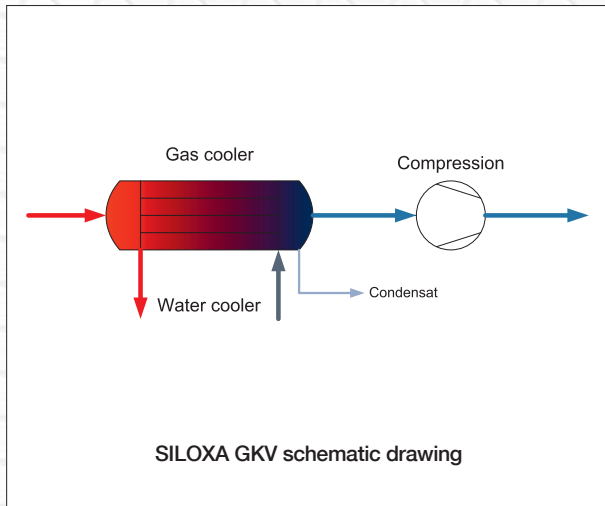


SILOXA frame-mounted gas supply system with gas drying and gas compression module and controller, GKV model, set up for outdoor installation



Product description

The GKV is based on the same ingenious concept as the GCKV: consistent bundling of all key functional units that are needed to reliably supply the gas engines with the biogas produced. Unlike the GCKV, however, where all system components are housed in a closed container, the GKV's components such as the gas cooler, condensate trap, liquid coolant circuit, water cooler (required depending on the size) and compressor are fixed on a steel frame. A contactor control handles the monitoring and control of all integrated assemblies.

The all-in-one nature of the GKV means the addition of only one more compact unit to the adjacent assemblies of the biogas plant, gas storage tank and gas utilisation system.

The user-friendly and reliable GKV is available in 12 performance classes, with gas flow rates ranging from 180 to 2,100 Nm³/h.

Combining the gas supply technology in a central system is advantageous because it reduces the investment volume for the operator, simplifies planning, guarantees reliable operation and saves on maintenance later. The unit is fully assembled in the factory by SILOXA engineers.

Sizes/system components

- A total of 12 performance classes, with gas flow rates ranging from 180 to 2,100 Nm³/h
- The components are mounted on a frame

Design features (basic version)

- Frame
- Gas cooler
- Water cooler
- Liquid coolant circuit
- Condensate trap
- Cold insulation
- Compressor
- Control cabinet
- Factory assembly
- Technical documentation

Options

- Version for indoor installation
- Autonomous hot water supply for heating
- Biogas analysis
- Frequency converter
- Gas heating
- Assembly and commissioning
- Pipe with butterfly valve (manually operated) extending to 10 cm above ground level
- Biogas oxygen monitoring system
- TÜV certification for pipework
- Compression by 200 or 280 mbar
- Weld neck flange instead of loose flange

Safety features

- All the components that come into contact with gas are electrostatically dissipative
- The system complies with the ATEX requirements for using biogas and with TRBS 2153 (technical rules for operational safety: prevention of ignition hazards due to electrostatic charges)



SILOXA frame-mounted gas supply system with gas drying and gas compression module and controller, GKV model, set up for outdoor installation

Relevance for the gas engine system

- No condensation of water in sensitive parts of the gas engine
- Dry gas improves the availability of the CHP
- Optimises the efficiency of the CHP

Consumption costs

- The systems are designed for optimum efficiency. This reduces the operating costs of the system to a minimum.

Service

- As well as installation, SILOXA also offers full regular maintenance and supply of spare parts for the GKV. For further information, see the service datasheet.

Issued: 03/2012, subject to technical modifications.

