

Instructions KE - MNG 100-AS

Valid for the version in sound enclosure and partly on the frame

- ⚙ The stainless steel gas inlet compensator is not included in the scope of delivery, it can be ordered
- ℹ To eliminate vibrations in the gas line, it is advisable to install the compensator directly upstream of the gas control set

- ⚙ Natural gas buffer
The volume should be at least five times the second consumption of the CHP unit
- ⚙ Gas buffer is not included in the scope of supply
- ℹ It is recommended to install a buffer in the gas line for smooth start and operation of the CHP unit

- ⚙ Fuel: natural gas
Fuel pressure: 4 – 5 kPa
Maximum temperature: 30 °C
Minimum methane number: 80

- ⚙ Heat output: 137 kW
Temperature drop: 90/70 °C
Nominal flow rate: 6,03 m³/h
CHP unit pressure loss: 0,12 bar
Medium: heating water
Connection points: DN50 PN16 EN 1092-1

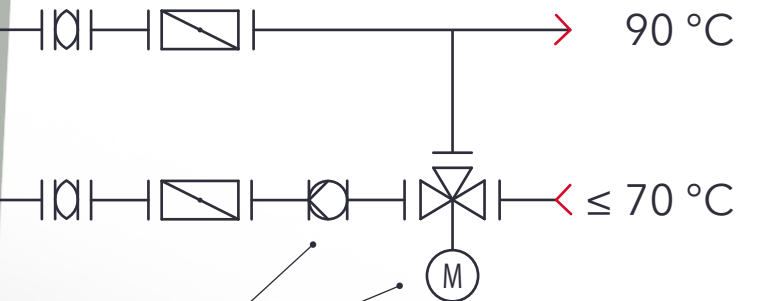
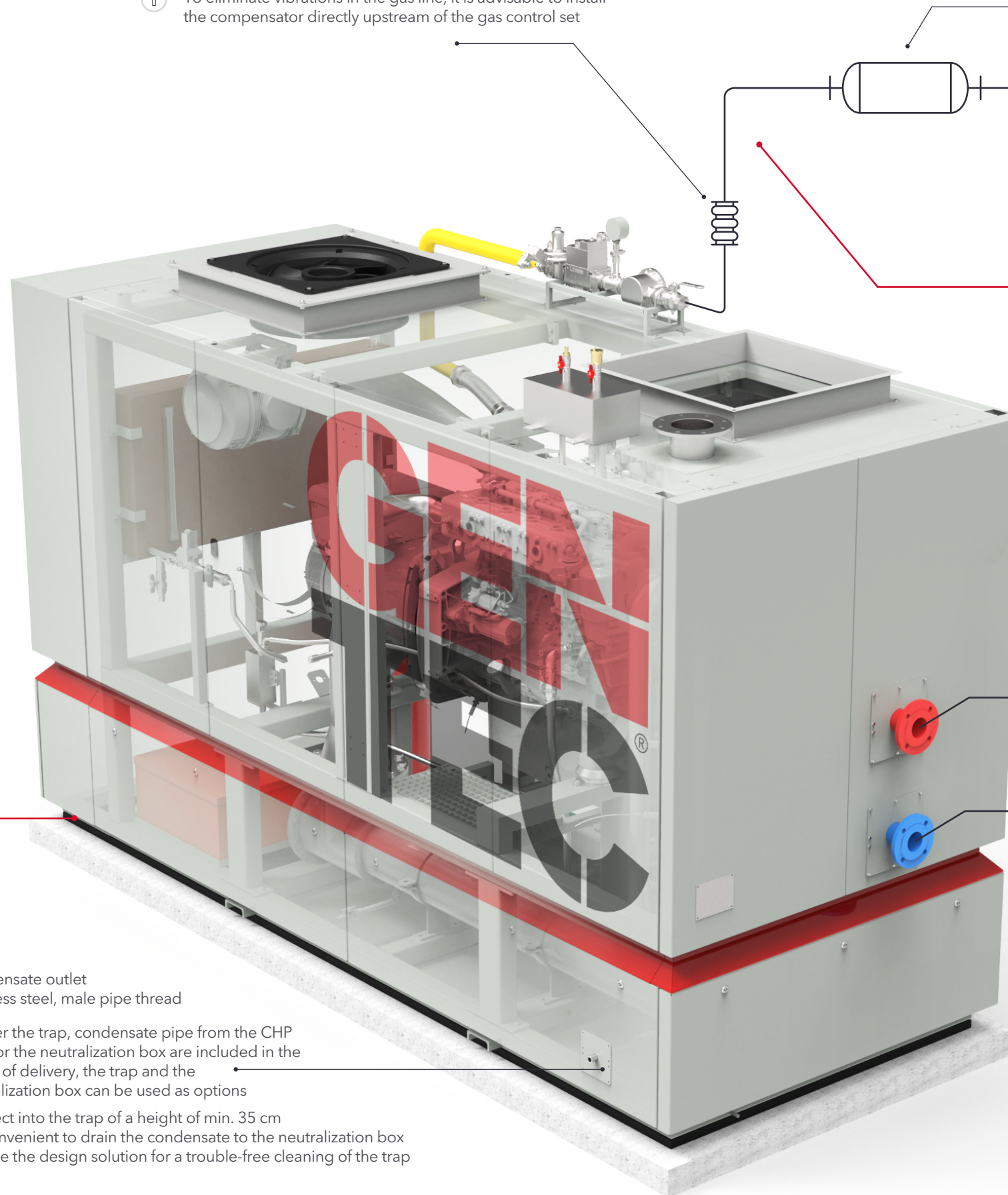
- ⚙ The flexible members and the closing fittings are not included in the scope of delivery, they can be used as options
- ℹ Use flexible members and closing fittings to separate the CHP unit from the heating circuit

- ⚙ The vibration pad is not included in the scope of delivery, it can be used as an option
- ℹ Always install the vibration pad under the CHP unit according to the drawing and installation instructions

- ⚙ Condensate outlet
Stainless steel, male pipe thread
- ⚙ Neither the trap, condensate pipe from the CHP unit nor the neutralization box are included in the scope of delivery, the trap and the neutralization box can be used as options
- ℹ Connect into the trap of a height of min. 35 cm
It is convenient to drain the condensate to the neutralization box
Choose the design solution for a trouble-free cleaning of the trap

Key

- ⚙ technical parameters
- ⚙ scope of delivery
- 📄 version options
- ℹ recommendations



- ⚙ The heating circuit pump and the three-way valve are not included in the scope of delivery, they can be used as options
- 📄 Both components can be powered and operated from the CHP unit (recommended), contact GEN TEC for more information
- ℹ Install the pump on the return branch of the heating circuit
Install the three-way valve as a mixing valve

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- Exhaust gas line noise silencer
Sound pressure level of the silencer: 80 dB(A) at 1 m from the output flange of the silencer
- The standard scope of supply includes one separately loaded stainless steel silencer
- Horizontal or vertical stainless steel or carbon steel, sound pressure up to 45 dB(A) at 1 m
- Ensuring a firm and rigid fit of the silencer
It is suitable to drain the condensate into a neutralization box through the trap of a minimum height of 35 cm
Choose the design solution for a trouble-free cleaning of the trap

- Medium: natural gas exhaust gases
Medium temperature: 120 °C
Maximum medium pressure: 4 kPa
Nominal flow rate: 577 kg/h
- A oxidation catalytic converter and SCR is within the standard scope of delivery
- Optional delivery with an additional exhaust heat exchanger to increase the heat efficiency, it can be used as an option
- Optional choice of a modified oxidation catalytic converter for further CO emission reduction, it can be used as an option
Comply with the maximum permissible fume duct back pressure according to the data sheer, avoid high exhaust gas velocities in the fume duct

- Medium: air
Medium temperature: max. 35 °C
Maximum pressure loss: 50 Pa
Nominal flow rate: 2700 m³/h
- One piece of ventilator is included in the standard scope of delivery
- Combustion air can be sucked from the CHP unit's engine room or from the outside environment
- Place the air engineering outlet outdoors
Equip the air engineering system with a heat recirculation by-pass

- The stainless steel exhaust gas outlet compensator is not included in the scope of delivery, it can be used as an option
- The stainless steel flange compensator or the fabric compensator
- To eliminate vibrations in the pipe, it is advisable to install the compensator directly on the outlet exhaust gas flange from the CHP unit
The compensator compensates for the pipe expansion

- Air engineering noise silencer
Sound pressure level of the silencer: 80 dB(A) v 1 m
- The standard scope of supply includes two pieces of a separately loaded noise silencer
- Contact GENTEC for more information on other attenuation option

- Maximum permissible deviation of the foundation flatness: 3 mm
- The concrete foundation is not included in standard delivery
- The foundation must be designed taking into account the existing conditions at the installation site
- If the vibration transmissions is required to be eliminated, separate the CHP unit foundations from other buildings structures using suitable materials

- The standard version where the electric output is delivered through the switchboard top, the option delivering the electric output through the switchboard bottom is available
- The switchboard is a standard part of the CHP unit sound enclosure, it can be supplied as a separately loaded component, contact GENTEC for more information
The standard voltage level is 0,4 kV, it can also be delivered in the 6,3 kV and 10,5 kV versions

Key

- technical parameters
- scope of delivery
- design options
- recommendations

The specified information and parameters are non-binding and are for a general reference only. It is advisable to contact GENTEC CHP s.r.o for the current data necessary for the preparation of your project