Instructions

KE - MNG 300-AE

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

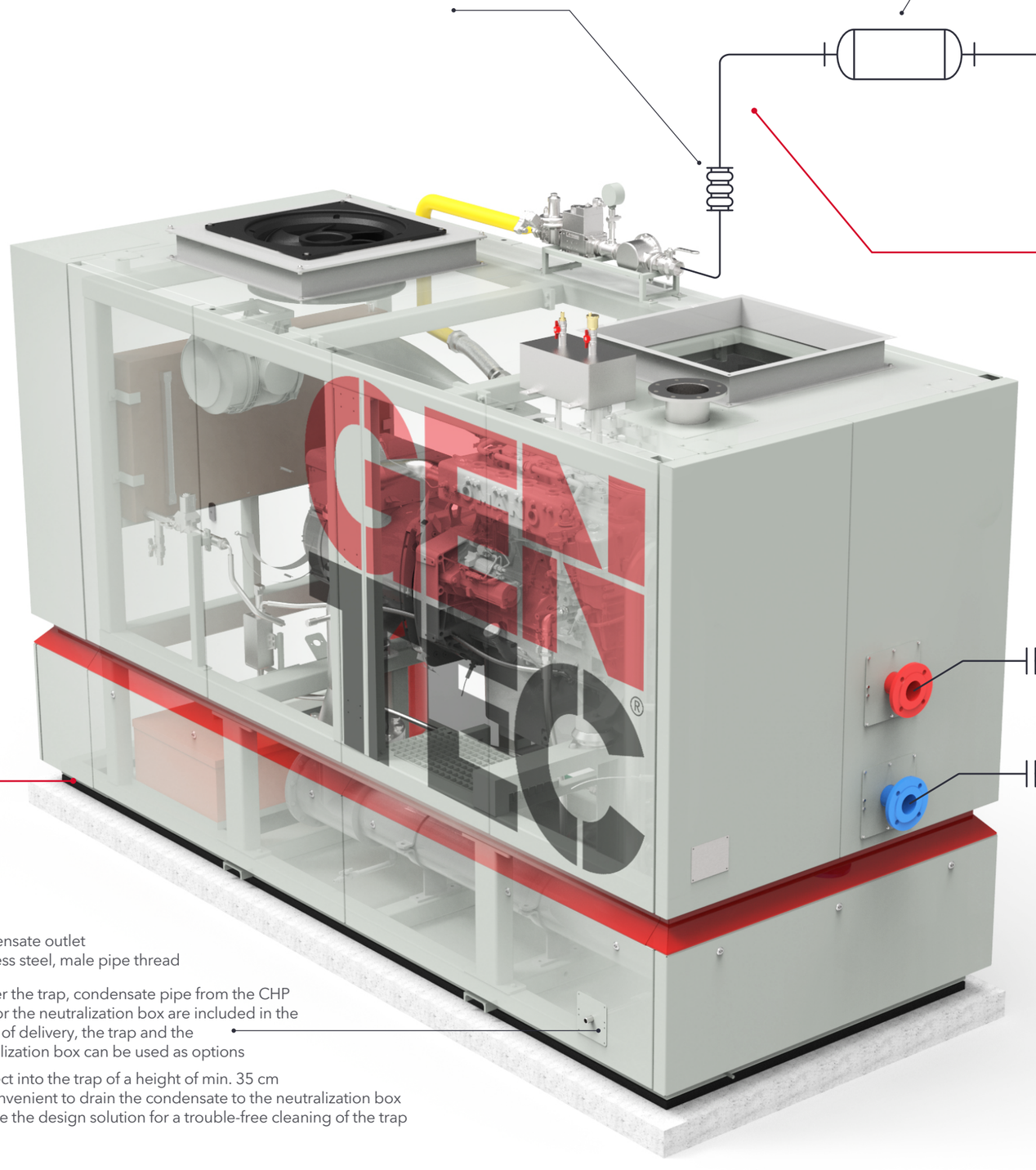
The stainless steel gas inlet compensator is not included in the scope of delivery, it can be ordered

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

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

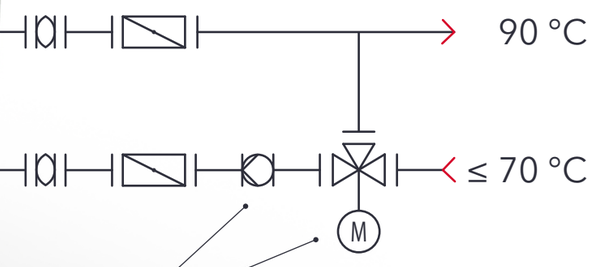
Heat output: 365 kW
Temperature drop: 90/70 °C
Nominal flow rate: 16,07 m³/h
CHP unit pressure loss: 0,24 bar
Medium: heating water
Connection points: DN50 PN16 EN 1092-1

The flexible members and the closing fittings are not included in the scope of delivery, they can be used as options

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

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

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

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 GENTEC for more information

Install the pump on the return branch of the heating circuit
Install the three-way valve as a mixing valve

Key

- technical parameters
- scope of delivery
- version 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

Instructions

KE - MNG 300-AE

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

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

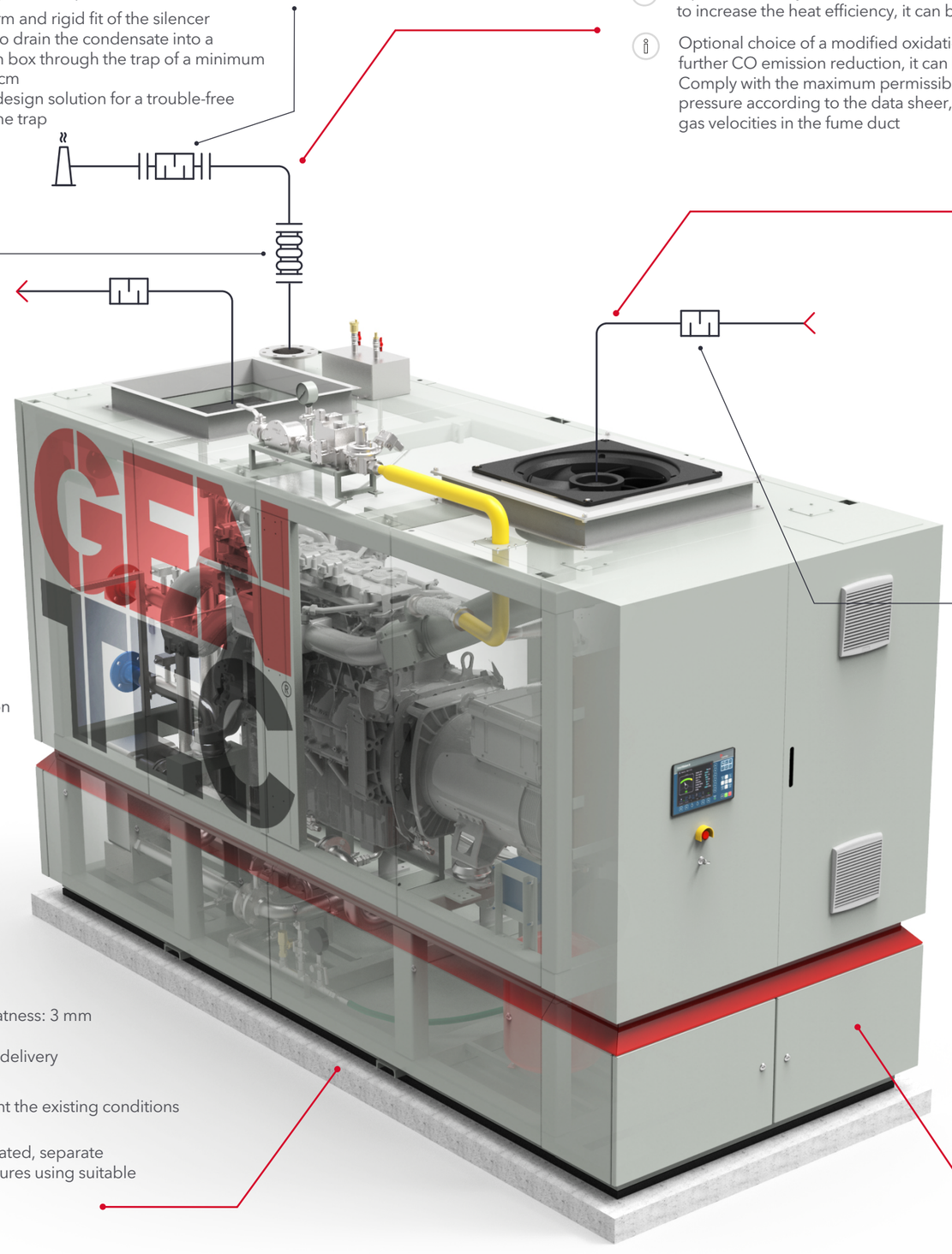
Ensuring a firm and rigid fit of the silencer
It is suitable to drain the condensate into a neutralization box through the trap of a minimum height of 35 cm
Choose the design solution for a trouble-free cleaning of the trap

Medium: natural gas exhaust gases
Medium temperature: 120 °C
Maximum medium pressure: 4 kPa
Nominal flow rate: 1657 kg/h

SCR and oxidation catalytic converter 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: 7100 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