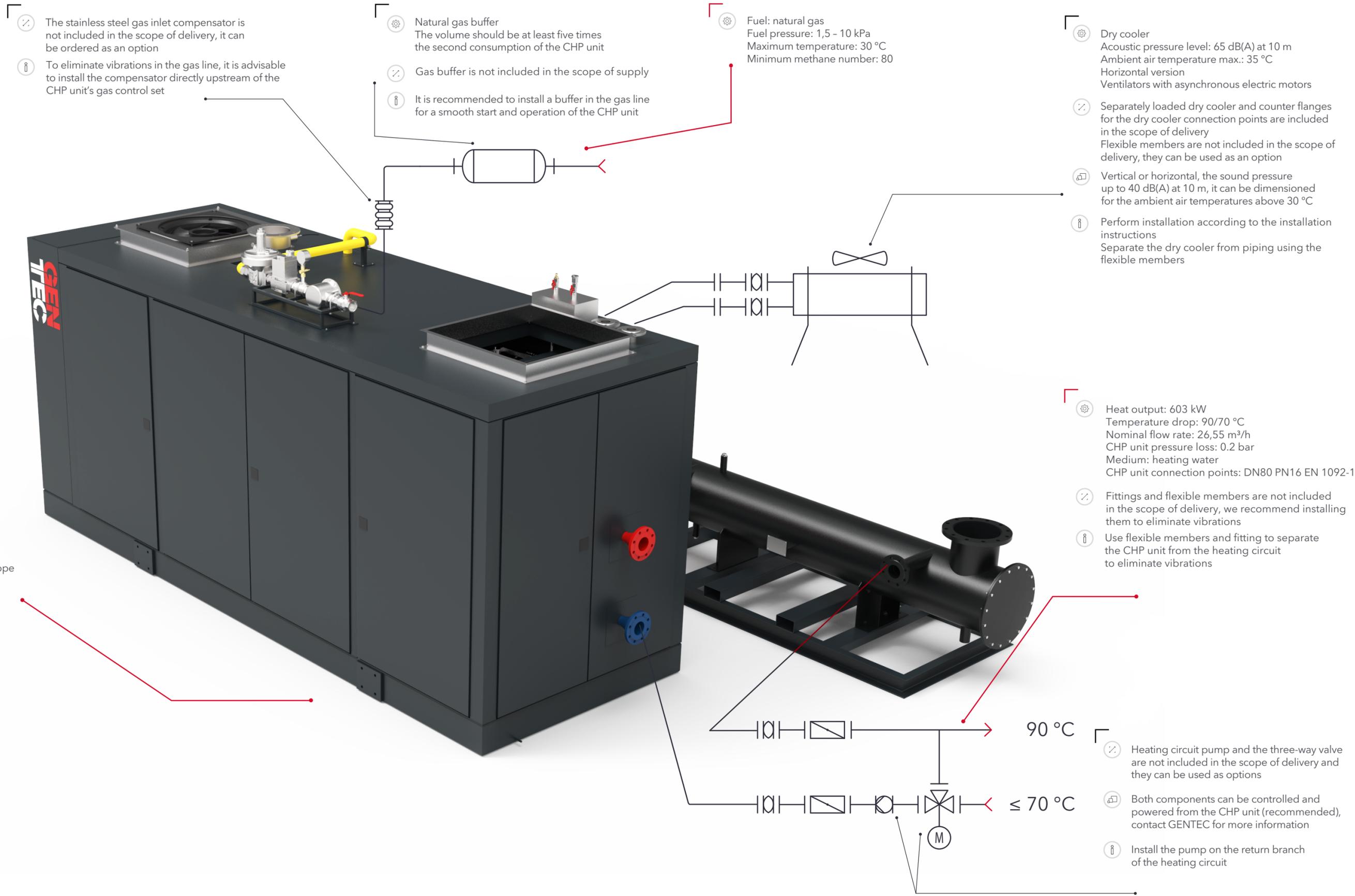


Instructions KE - MNG 500-AS

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 as an option

ℹ To eliminate vibrations in the gas line, it is advisable to install the compensator directly upstream of the CHP unit's 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 a smooth start and operation of the CHP unit

⚙ Fuel: natural gas
Fuel pressure: 1,5 - 10 kPa
Maximum temperature: 30 °C
Minimum methane number: 80

⚙ Dry cooler
Acoustic pressure level: 65 dB(A) at 10 m
Ambient air temperature max.: 35 °C
Horizontal version
Ventilators with asynchronous electric motors

⚠ Separately loaded dry cooler and counter flanges for the dry cooler connection points are included in the scope of delivery
Flexible members are not included in the scope of delivery, they can be used as an option

🏠 Vertical or horizontal, the sound pressure up to 40 dB(A) at 10 m, it can be dimensioned for the ambient air temperatures above 30 °C

ℹ Perform installation according to the installation instructions
Separate the dry cooler from piping using the flexible members

⚙ Heat output: 603 kW
Temperature drop: 90/70 °C
Nominal flow rate: 26,55 m³/h
CHP unit pressure loss: 0.2 bar
Medium: heating water
CHP unit connection points: DN80 PN16 EN 1092-1

⚠ Fittings and flexible members are not included in the scope of delivery, we recommend installing them to eliminate vibrations

ℹ Use flexible members and fitting to separate the CHP unit from the heating circuit to eliminate vibrations

⚠ 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

- Key**
- ⚙ technical parameters
 - ⚠ scope of delivery
 - 🏠 design options
 - ℹ recommendations

⚠ Heating circuit pump and the three-way valve are not included in the scope of delivery and they can be used as options

🏠 Both components can be controlled and powered from the CHP unit (recommended), contact GENTEC for more information

ℹ Install the pump on the return branch of the heating circuit

90 °C

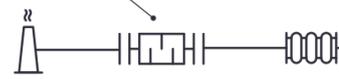
≤ 70 °C

Instructions

KE - MNG 500-AS

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
Suitable to drain the condensate to a neutralization box via a trap at a min. 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: 2750 kg/h
-  A three-way 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 catalytic converter for further emission reduction, it can be used as an option
-  Comply with the maximum permissible fume duct back pressure according to the data sheet, avoid high exhaust gas velocities in the fume duct

-  Condensate outlet
Stainless steel, male pipe thread
-  The trap, condensate pipe from the CHP unit and the neutralization box are not included in the scope of delivery, the trap and neutralization box can be applied as an option
-  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 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

-  Medium: air
Medium temperature: max. 35 °C
Maximum pressure loss: 50 Pa
Nominal flow rate: 12900 m³/h
-  The ventilator is included in the scope of CHP unit 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

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

-  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
-  As standard the switchboard is a part of the CHP unit's sound enclosure, it can be supplied as a separately loaded component, for more information contact GENTEC
The standard voltage level is 0.4 kV, it can also be delivered in the 6.3 kV and 10.5 kV version

-  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 transmission is required to be eliminated use suitable materials to separate the CHP unit foundation from other building structures

Key

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