

Instructions KE - MNG 2100-ASE

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

-  **Oil tanks**
The tank volume is designed for 3000 operation hours
The tanks have two jackets
-  The tanks are in the standard scope of delivery, including the equipment and hydraulic connection to the CHP unit
The tank's oil charge is not included in the delivery
-  Volume and placement of the tanks can be adjusted as required by the customer, if you are interested feel free to contact GENTEC
-  Monitor the tank levels in periodic manner

-  The stainless steel gas inlet compensator is not included in the scope of delivery, it can be ordered as an option
-  To eliminate vibrations in the gas line, it is advisable to install the compensator directly upstream of the CHP unit's gas connection point

-  **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 a smooth start and operation of the CHP unit

-  **Fuel: natural gas**
Fuel pressure: 17 - 25 kPa
Maximum temperature: 30 °C
Minimum methane number: 80

-  **Heat output: 2373 kW**
Temperature drop: 90/70 °C
Nominal flow rate: 112,84 m³/h
Maximum permissible CHP unit pressure loss: 0,5 bar
Medium: heating water
Connection points: DN100 PN16 EN 1092-1

-  The maximum permissible deviation of the concrete flatness is 3 mm
-  The concrete foundation and the vibration pad are not included in the scope of delivery
-  The concrete 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



-  Fittings and flexible members are not included in the scope of delivery, we recommend installing them to eliminate vibrations
-  Separate the CHP unit from the exhaust gas module using flexible members and fittings to eliminate vibrations

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

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- Stainless steel exhaust gas outlet compensator is not included in the scope of delivery
- The stainless steel flange compensator or the fabric compensator can be applied as an option
- 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 silencers
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
- Contact GEN TEC for more information on other attenuation options

- Medium: air
Medium temperature: max. 35 °C
Maximum pressure loss: 50 Pa
Nominal flow rate: 35200m³/h
- Two fans are included in the standard 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

- 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 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 35 cm
Choose the design solution for a trouble-free cleaning of the trap

- Medium: natural gas exhaust gases
Medium temperature: 80 °C
Maximum medium pressure: 6 kPa
Nominal flow rate: 11212 kg/h
- The standard scope of supply is an additional exhaust heat exchanger for increased heat efficiency and an oxidation catalytic converter. The exhaust gas module is thermally insulated
- 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 standard scope of delivery includes the separately loaded neutralization box
The standard scope of delivery does not include the trap and pipe for condensate from the CHP unit, they 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 standard version where the electric output is delivered through the sound enclosure top, the option delivering the electric output through the sound enclosure side is available
- The control and power switchboard is delivered as a separately loaded component as standard, for more information contact GEN TEC
The standard voltage level is 0,4 kV, it can also be delivered in the 6,3 kV and 10,5 kV versions

- Dry cooler
Acoustic pressure level: 65 dB(A) v 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 35 °C
- Perform installation according to the installation instructions
Separate the dry cooler from piping using the flexible members

Key

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