

Technical data

| Performance data * | | | |
|---------------------------------|--------------------|------------------------------|---|
| Electrical output ¹⁾ | kW | 5 - 20 | Modulating |
| Thermal output | kW | 18 - 43 | Modulating, at a return temperature of 35°C |
| Fuel performance | kW | 22 - 65 | |
| Electrical efficiency | % | 33.2 | At an electrical output of 20 kW |
| Thermal efficiency | % | 62 | At a return temperature of 60°C |
| Total efficiency | % | 95.2 | At a return temperature of 60°C |
| Efficiency class | | A ⁺⁺⁺ | |
| Exhaust emission | mg/Nm ³ | NOx max. 125, CO max. 150 | At 5% O ₂ |
| CHP coefficient | | 0.47 | 0.53 without condensing technology |

| Engine | | |
|--------------------------------|-----------------|--|
| Manufacturer | | Volkswagen |
| Type | | Industrial engine, electronically controlled |
| Approx. nominal rotation speed | rpm | 1535 |
| Fuel | % | Natural gas |
| Cylinders | | 4R |
| Cylinder capacity | dm ³ | 2.0 |
| Oil supply | | Auto. oil replenishment/change function |
| Oil sump capacity | l | Approx. 4 |
| Fresh oil tank capacity | l | 20 |

| Generator | | |
|--------------|----|------------------------------------|
| Manufacturer | | EMOD |
| Type | | Asynchronous, 4-pole, water-cooled |
| Voltage | V | 400 |
| Current | A | 42.3 |
| Frequency | Hz | 50 |

| Heating circuit | | |
|-------------------------|-------------------|--------------------|
| Max. flow temperature | °C | 95 |
| Flow connection | DN | 25, 1" int. thread |
| Max. return temperature | °C | 85 |
| Return connection | DN | 25, 1" int. thread |
| Flow rate | m ³ /h | 1.8 at Δt = 20 K |
| Max. water pressure | bar | 4.5 |
| Water quality | | Acc. to VDI 2035 |

| Exhaust gas system | | |
|----------------------------|-------------------|-------------------------------------|
| Exhaust gas connection | DN | 80, PPs type B |
| Max. operating temperature | °C | 85 |
| Min. temperature class | °C | 120 |
| Max. counterpressure | mbar | 10, at exhaust gas system test port |
| Exhaust gas mass flow rate | kg/h | 90 (at full load) |
| Flow rate | m ³ /h | 75 (at full load) |

| Fuel system | | |
|---------------------|------|--------------------|
| Gas connection | DN | 20, ¾" ext. thread |
| Flow pressure | mbar | 18 - 55 |
| Min. methane number | | 60 |

| Condensate drain | | |
|------------------|----|----|
| Connection | DN | 40 |

| Electrical system | | |
|-------------------|-----------------|-------------------|
| Connections | mm ² | 5 x 16 |
| Protection | A | 3 x 63, type NH00 |

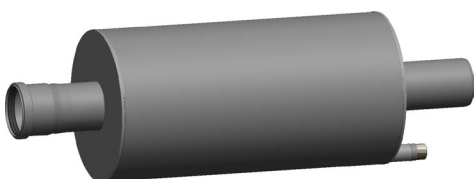
| Sound pressure level | | |
|----------------------|--------|--------------------------------------|
| Module noise at 1 m | dB (A) | Approx. 50, acc. to DIN 45635-01-KL2 |

| Dimensions and weight | | |
|-----------------------|----|-------------|
| Length | mm | 1300 |
| Width | mm | 800 |
| Height | mm | 1300 |
| Weight | kg | Approx. 700 |

* All performance and efficiency information is based on a return temperature of 35°C, the use of optional equipment and natural gas operation (calorific value Hi = 8.8 kWh/m³ under normal conditions). The values relate to a relative air humidity of 30%, an air pressure of 1013.25 mbar, a room temperature of 30°C at a room height of 1.5 m and an intake air temperature of 25°C. Deviations are possible if there is a different gas quality and other air values.

¹⁾ The technical data is listed for standard reference conditions in accordance with ISO 3046-1 (DIN 6271) with a tolerance of ± 5%.

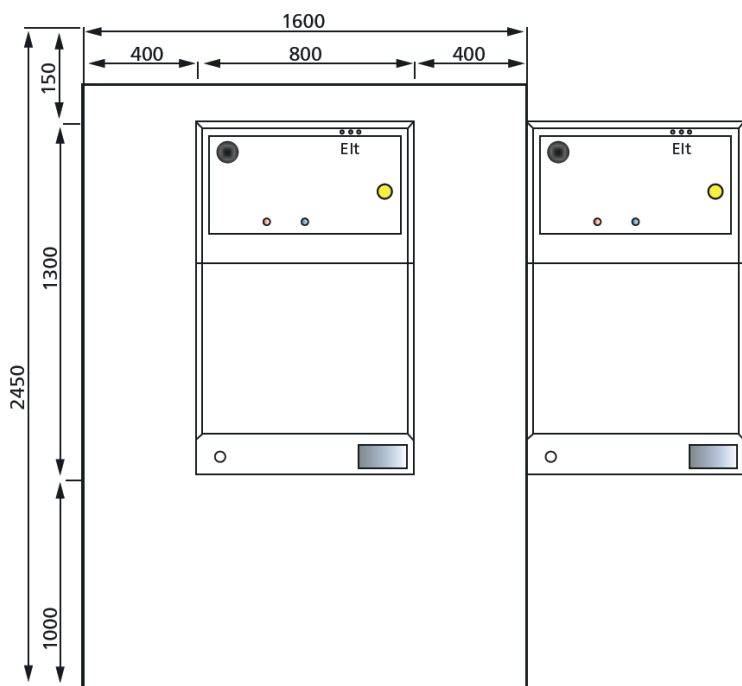
Exhaust gas silencer



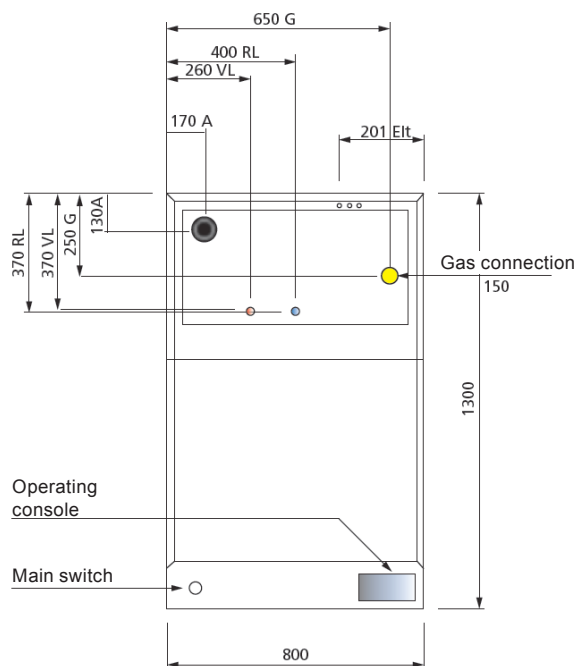
| Silencer type | | | (S-080) | (G-080) |
|------------------|----|----|---------|---------|
| Connection | DN | mm | 80 | 80 |
| Effective length | B | mm | 500 | 500 |
| Outside diameter | | mm | 250 | 250 |
| Total length | C | mm | 700 | 950 |
| Nozzle length | E | mm | 100 | 100 |
| Total weight | | kg | 4.5 | 6.0 |
| Drag coefficient | ζ | | 0.1 | 0.1 |

- Polymer version, material: PP black
- Filled with water-repellent mineral wool
- Standard EW connections
- Max. exhaust gas temperature 120°C
- Positive-pressure-tight up to 5000 Pa
- ¾" condensate drain
- Horizontal or vertical installation position

Space required/connection diagram



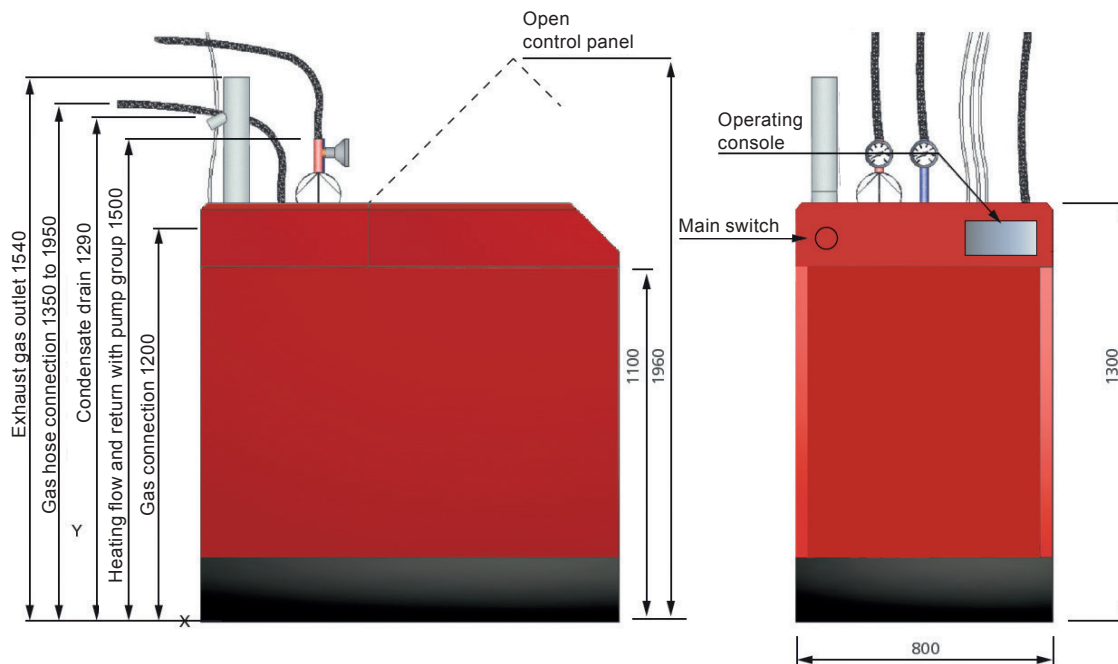
Space required (view from above)
 (in mm)



Connection diagram (view from above)
 (in mm)

Legend:

- RL DN 25 heating return incl. shut-off valve, pressure gauge and non-return valve (1" int. thread)
- VL DN 25 heating flow incl. shut-off valve and pressure gauge (1" int. thread)
- G DN 20 gas connection with 3/4" connection hose, int. and ext. thread (shut-off valve on site)
- A DN 80 exhaust gas connection
- Eit Electrical connection, min. 16 mm² (flexible)
- K DN 40 condensate drain



Connection diagram (view from side and above)
 (in mm)