

6.3 Settings

6.3.1 Setting the CO₂ content

The CO₂ content in the exhaust gas is set using the adjustment knob on the control element. At a constant fan speed, the volume of fuel is controlled by changing the fuel pump cycle.

ATTENTION

The CO₂ measuring instruments must be calibrated.
The heater must be switched off.

1. Connect the CO₂ line to the negative terminal.
2. Turn the adjustment knob on the control element to mid-position. The heater starts up and automatically assumes partial load mode.

NOTE

The operation indicator lamp flashes in the same way as for a control unit fault when the heater is ready to be adjusted.

Diesel heaters:

3. Set the CO₂ value by correspondingly turning the adjustment knob. Turning the adjustment knob anticlockwise reduces the CO₂ value while turning the knob clockwise will increase the value. The measured CO₂ content at partial load (1 kW) must be at $6.6 \pm 0.5\%$. After adjustment, the CO₂ content at full load should be $10.3 \pm 0.5 \text{ vol.}\%$.

Petrol heaters:

3. The CO₂ content should only be measured with the heater at operating temperature. For this purpose, the heater should be operated for at least 8 minutes. The CO₂ content is then set to $7.3 \pm 0.5 \text{ vol.}\%$ at partial load (1 kW). After adjustment, the CO₂ content at full load should be $10.3 \pm 0.5 \text{ vol.}\%$.

Diesel and petrol heaters:

4. When the CO₂ value is in the permissible range, disconnect the CO₂ line from the negative terminal. This saves the setting.

NOTE

The heater will now run in normal mode again and can be switched off at the control element.

The heater is set at the factory to match the fan motor.

6.3.2 CO₂ setting for reference heater

The reference heater is set at the factory to 10.3 vol.% CO₂ at a geodetic altitude of 0 m. To subsequently reset the heater, a CO₂ value must be set as a function of the geodetic altitude as shown in the diagram.

See Section 6.3.1.

