SCC-C
Operation Temperature controller and safety instructions

Operation
Depending on the manufacturing date, different types of temperature controllers are used in the SCC-C sample gas cooler. The setting of the temperature set point is described below for the different temperature controller types. Safety instructions on handling the SCC-C sample gas cooler are specified in Chapter Safety instructions on page 2.

Temperature controller manufacturing date
05 to 06.2022
Type: I-Tron

![I-Tron temperature controller](image1)

Display
In standard operating mode, the temperature controller display shows the currently measured cooling temperature.

Set the temperature set point
1. Press the P < 2 s button.
   • The set temperature set point will be displayed on the display (factory setting: 5 °C).
2. Set the desired set point using the ▲ and ▼ buttons.

**NOTICE**

Impairment of the device function
Impairment of the device function caused by freezing of the heat exchanger or a temperature setting that is too high.
• Do not set the set point below +1 °C to prevent freezing of the heat exchanger.
• Do not set the set point higher than the ambient temperature. If the set point is set to a level higher than the ambient temperature, the cooling will not work!

Set the temperature alarm window
For detailed information on setting the temperature alarm window, consult the operating instruction of the temperature controller.

Temperature controller from manufacturing date 05 to 06.2022
Type: diraTRON

![diraTRON temperature controller](image2)

Display
In standard operating mode, the temperature controller display shows the currently measured cooling temperature in the upper line.
The specified set point is displayed in the lower line.

Set the temperature set point
1. Press the ▲ or ▼ button briefly.
   • The specified set point will now blink in the lower line.
2. Now set the desired set point using the ▲ and ▼ buttons.
3. Press the MENU/OK button to accept the set point.
   • The setting can be canceled using the ▼ button.

**NOTICE**

Impairment of the device function
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• Do not set the set point below +1 °C to prevent freezing of the heat exchanger.
• Do not set the set point higher than the ambient temperature. If the set point is set to a level higher than the ambient temperature, the cooling will not work!

Set the temperature alarm window
For detailed information on setting the temperature alarm window, consult the operating instruction of the temperature controller.
Safety instructions

⚠️ WARNING
Risk of injury due to live parts!
When the housing is open, contact protection is not provided and EMC protection is limited.
- Before opening the housing, switch off the power supply.

⚠️ WARNING
Risk of poisoning
Risk of poisoning due to escaping poisonous or suffocating sample gas.
- If poisonous or oxygen-supplaining sample gases are conveyed using the device, the gas paths need to be purged with inert gas or air before the gas-bearing components are opened.
- Close open process connections so that they are gas-tight to prevent the escape of sample gas.
- When working on the device, use suited personal protection equipment (PPE) in accordance with the risk assessment.
- Comply with operator regulations regarding occupational safety!

⚠️ CAUTION
Risk of injury caused by aggressive media
The media and condensates in the device can be aggressive and cause corrosion.
- When working on the device, use suited personal protection equipment (PPE), such as safety goggles, protective gloves or protective clothing.

⚠️ CAUTION
Risk of burns caused by hot components in the device
The surface temperature of components in the device can up-scale 60 °C (140 °F)!
- Before opening the housing, switch off the power supply.
- Observe a cooling time of > 20 min before working on the device.

⚠️ CAUTION
Risk of crushing caused by rotating components!
Risk of crushing caused by the automatically operating hose pump.
- Switch off the power supply before starting work on the hose pump.