

6 Maintenance

For all work on the device, the general instructions in the [Safety instructions](#) [> page 7] chapter must be observed!

DANGER



Electrical voltage

Electrocution hazard.

- a) Disconnect the device from power supply.
- b) Make sure that the equipment cannot be reconnected to mains unintentionally.
- c) The device must be opened by trained staff only.
- d) Regard correct mains voltage.



DANGER



Toxic, corrosive gas/condensate

Sample gas/condensate may be hazardous to health.

- a) If necessary, ensure a safe gas/condensate discharge.
- b) Always disconnect the gas supply when performing maintenance or repairs.
- c) Protect yourself from toxic/corrosive gasses/condensate when performing maintenance. Wear suitable protective equipment.
- d) Do not allow condensate to drip into the housing.



WARNING



Flammable substances

The device is filled with flammable refrigerant R600a.

- a) Careful handling and specific choice of installation location and operating conditions. The recommended minimum room must be observed, or other safety measures must be taken.
- b) Do not damage the refrigeration circuit. In the event of damage:
 - ⇒ Keep away from open flames or sources of ignition.
 - ⇒ Ventilate the room for several minutes.
 - ⇒ Switch off the device.
 - ⇒ Contact the manufacturer for repair.
 - ⇒ Do not discharge refrigerant into drains or rooms where there are open flames or sources of ignition.

CAUTION



Hot surface

Risk of burns

The housing can be up to 60 °C during operation.
Allow the unit to cool down before working on it.

CAUTION



Health hazard if the heat exchanger leaks

The heat exchanger is charged with glycol-based coolant.

In the event of a heat exchanger leak:

- a) Avoid contact with the skin and eyes.
- b) In the event of a leak, do not restart the cooler under any circumstances. The cooler must be repaired by the manufacturer.

Depending on the ambient conditions and installation location, ensure that the air inlet and outlet are free from foreign objects. A visual inspection is required at least every 6 months.

When performing any work on the device, it is recommended to ensure a minimum room of 3.5 m³ or employ other safety measures to avoid any potential ignition sources.

However, it may have different options depending on the cooler model. In this case the following routine maintenance is required:

- **Peristaltic pump option:** Check the hoses (see chapter [Replacement of the hose for the peristaltic condensate pump \(optional\)](#) [[> page 38](#)]).
- **Filter option:** Check the filter element (see chapter [Replacing the filter element \(option\)](#)).
- **Moisture detector option:** Calibration of the humidity sensor (see chapter [Calibration of the moisture detector \(option\)](#)).

For the option for ultrapure water or oxygen, only use the explicitly designated replacement parts with the suffix -H2 or -O2.