

2 Safety instructions

2.1 Important advice

The device may only be operated if:

- the product is used under the conditions described in the operating and installation manual, in accordance with the type label, and for the intended applications; Any unauthorised modifications to the device will void the warranty provided by Bühler Technologies GmbH,
- the information and markings on the type plates are observed,
- the limit values specified in the data sheet and in this operating and installation manual are observed,
- the device is not operated outside its specification,
- monitoring/protective devices are correctly connected,
- Service and repairs not described in these instructions is performed by Bühler Technologies GmbH,
- Using genuine replacement parts.

These operation instructions are a part of the equipment. The manufacturer reserves the right to change performance, specification or design data without prior notice. Keep this manual for future reference.

Signal words for warnings

DANGER

Signal word for an imminent danger with high risk, resulting in severe injuries or death if not avoided.

WARNING

Signal word for a hazardous situation with medium risk, possibly resulting in severe injuries or death if not avoided.

CAUTION

Signal word for a hazardous situation with low risk, resulting in damaged to the device or the property or minor or medium injuries if not avoided.

NOTICE

Signal word for important information to the product.

Warnings

These instructions include the following warnings:



General warning sign



General mandatory sign



Voltage warning



Unplug from mains



Do not inhale toxic gases



Wear respiratory equipment



Corrosive substances



Wear a safety mask



Explosion hazard



Wear protective gloves



Flammable substances

2.2 General Hazard Warnings

The device may only be installed by qualified specialist personnel who are familiar with the safety requirements and associated risks. In addition, through their professional training, they possess knowledge of the relevant standards and regulations.

Be sure to observe the safety regulations relevant to the installation location and the generally accepted rules of technology. Prevent malfunctions and thereby avoid personal injury and damage to property.

The operator of the system must ensure that:

- Safety instructions and operating manuals are available and observed,
- the respective national accident prevention regulations are observed,
- the permissible data and operational conditions are maintained,
- protective devices are used and the required maintenance is performed,
- the device is disposed of according to the law,
- valid national installation regulations are observed,
- the installer meets their responsibility for the safety of the system into which the device is integrated.
- the device is protected against mechanical impact.

Maintenance, repair and modification

The following must be observed during maintenance, repair and modification work:

- Repairs to the equipment may only be performed by Bühler authorised personnel.
- Before carrying out maintenance, repair and modification work, place the device in a safe condition as described for the specific task.
- Only perform the maintenance, repair and modification work described in this operating and installation manual.
- Use only original spare parts.
- Do not install damaged or defective spare parts. Before carrying out any maintenance, repair or modification work, a visual inspection of the housing and options is required to check the integrity.
- Clean the device only with a damp cloth or with materials-compatible cleaning agents. Ensure that no cleaning agent enters the device.
- When carrying out any maintenance, repair or modification work, the relevant safety and operating regulations of the user country must be observed.

DANGER

Use in potentially explosive atmospheres



Explosion hazard if used in hazardous areas.
The device is not suitable for operation in hazardous areas with potentially explosive atmospheres.
Do not expose the device to combustible or explosive gas mixtures.

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.