

robatherm RLT-Geräte.

Disposal.

December 2025

English - Translation of the original instructions

Air handling units | type RM/RL/TI-50

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 SCAN ME

You can find the currently valid version of these instructions, and further instructions, on our website at www.robatherm.com/manuals.

This leaflet is based on the generally accepted engineering standards at the time of drafting. Since the printed version is not subject to change control, the current version must be requested from robatherm or downloaded from the Internet at www.robatherm.com before application.

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Content subject to change.

To improve readability, this document does not use male, female, and non-binary pronouns (m/f/d). All pronouns apply equally to all genders.

Last modified: December 2025

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General remarks

Information about these instructions

These instructions will facilitate safe and efficient use of the AHU.



All persons working on the AHU must thoroughly read and understand these instructions before starting any kind of work.

Safe working is dependent on adhering to all safety information and instructions.

Further information

The instructions describe all the available options. Whether and which options are available in the AHU depends on the options selected and the country for which the AHU is intended. The illustrations serve as an example and may differ.

The instructions comprise several parts and are structured as follows:



Fig. 1: Parts of the instructions

Main operating instructions

- Transportation and unloading
- Installation and assembly
- Commissioning
- Operation and malfunctions
- Maintenance and cleaning
- Shutdown and disabling
- Disposal

Disposal

Local regulations must be observed when disposing of components and waste to protect the environment and conserve resources.

At the end of its service life, the AHU must be dismantled by an authorized specialist company. To avoid injuries or material damage when dismantling the AHU, the precautions described for the individual components and the individual information provided by the component manufacturers must be observed.

Security

General hazards

WARNING



Danger to life from falling!

If a grate above an air opening is overloaded downwards (>400kg), this will cause the structure to fail. When a person steps on the grate, the structure may fail, causing a risk to life by falling through the air opening.

- Do not exceed the maximum load ($\leq 400\text{kg}$ or 2 persons).

WARNING



Danger to life from falling!

Removing the grates in the floor causes a risk to life from falling, as the opening in the floor is exposed.

- When working on air openings with removed grates, the customer must provide protection against falling.
- After the work, mount the grates again according to the instructions.

WARNING



Risk to life from falling objects

Risk to life from being struck by falling objects.

- Cordon off the endangered area under the opening to secure persons against falling objects.
- After the work, mount the grates again according to the instructions.

WARNING



Danger to life from falling!

When stepping on the protection roof, there is a risk to life from falling, as the protection roof is unsuitable for supporting loads.

- Do not enter the protection roof.

NOTE



Material damage due to localized weight

If more than one person enters the AHU at a time or localized loads are otherwise applied, pans and floors may be deformed.

- Do not let several persons enter the AHU at the same time.
- If this becomes necessary, take suitable measures to distribute the weight (e.g., grates, wooden boards, wood beams).

Personnel qualification

The work described in this section may only be performed if the person has the following qualifications:

- Waste disposal and recycling company and waste and recycling specialist
- Qualified person in accordance with pressure equipment regulation
- Qualified electrician
- Registered gas installer
- Refrigeration specialist
- Mechanic

Filter component

CAUTION



Allergic reactions to skin, eyes, or respiratory tract due to contact with filter dust

Filters may be contaminated with viruses, bacteria, or fungi. When removing the filters, there is a risk of allergic reactions to skin, eyes, or respiratory tract.

- Comply with work instructions.
- Wear protective clothing, gloves, safety glasses, and respiratory protection.
- Avoid contaminating the environment.

Silencer

CAUTION



Allergic reactions to skin, eyes, or respiratory tract due to contact with splitters

Splitters may be contaminated with viruses, bacteria, or fungi. When removing the silencers, there is a risk of allergic reactions to skin, eyes, or respiratory tract.

- Comply with work instructions.
- Wear protective clothing, gloves, safety glasses, and respiratory protection.
- Avoid contaminating the environment.

Humidifier

Circulating water spray humidifier (low pressure)

UV-C technology for water disinfection

WARNING



Damage to health from mercury

UV-C illuminants contain mercury. Mercury is toxic and dangerous to the environment.

- Avoid contact with skin and eyes. In case of contact, flush skin and eyes with plenty of water. Take off contaminated clothing.
- Do not swallow. If swallowed, induce vomiting.
- Ensure good air exchange in the danger zone.
- Comply with the safety data sheet of the manufacturer.

CAUTION



Risk of serious injuries due to hazardous substances

There is a risk of poisoning if the carton is damaged or if the UV-C illuminants break.

- When handling broken UV-C illuminants, follow the safety instructions for handling mercury.
- Avoid direct contact with eyes, skin, and clothing.
- Ensure excellent ventilation of the AHU and the rooms connected via the ducts.
- Keep broken pieces of UV-C illuminants in airtight packaging and dispose of properly.

TIP



Removal of small amounts of mercury

UV-C illuminants contain small amounts of mercury. Removal of the small amount leaked at breakage can be done with special sorbents for mercury.

For disposal of UV-C illuminants, see appendix "Herco – UV disinfection system UVE 35 – 45 (P) digital", "Disposal" section.

Desalination system

For disposal, see the attachment "Herco – Cooltrol data desalination system", "Disposal of system components and operating materials" section and attachment "Herco – Cooltrol data desalination system", attachment "Herco – Cooltrol data open-loop control manual", "For disposal" section.

Circulating water contact humidifier

UV-C technology for water disinfection

WARNING



Damage to health from mercury

UV-C illuminants contain mercury. Mercury is toxic and dangerous to the environment.

- Avoid contact with skin and eyes. In case of contact, flush skin and eyes with plenty of water. Take off contaminated clothing.
- Do not swallow. If swallowed, induce vomiting.
- Ensure good air exchange in the danger zone.
- Comply with the safety data sheet of the manufacturer.

CAUTION



Risk of serious injuries due to hazardous substances

There is a risk of poisoning if the carton is damaged or if the UV-C illuminants break.

- When handling broken UV-C illuminants, follow the safety instructions for handling mercury.
- Avoid direct contact with eyes, skin, and clothing.
- Ensure excellent ventilation of the AHU and the rooms connected via the ducts.
- Keep broken pieces of UV-C illuminants in airtight packaging and dispose of properly.

TIP



Removal of small amounts of mercury

UV-C illuminants contain small amounts of mercury. Removal of the small amount leaked at breakage can be done with special sorbents for mercury.

Refrigeration technology (refrigeration plant, heat pump, and split air conditioner)

WARNING



Danger to life from explosion

In the event of leakages or when handling refrigerant R32, there is a risk of explosion, as A2L refrigerants can produce a potentially explosive atmosphere.

- Avoid potential sources of ignition.
- Ventilate the room.
- Check the inside of the AHU with a refrigerant sensor before starting any work.
- Only use a tool designed for A2L refrigerant.

For requirements, see service manual for refrigeration plants.

Direct firing

Combustion chamber

WARNING



Danger to life due to burns

There is a danger to life from burns when working on the flame pot.

- Wear personal protective equipment (safety glasses, respiratory protection, and protective clothing).

Components and equipment

WARNING



Danger to life due to harmful substances

In conjunction with an open flame, refrigerants and compressor oils develop toxic substances that are harmful to health.

- Do not smoke in the machinery compartment.

WARNING



Danger to life due to suffocation!

There is a risk of suffocation if refrigerant escapes, as refrigerant is odorless and tasteless and displaces atmospheric oxygen.

- A refrigerant sensor for monitoring the installation site and suitable ventilation must be present and functional.
- Observe the safety data sheet of the refrigerant.
- Leave the danger zone.
- Ensure good air exchange in the danger zone.
- Use self-contained respiratory protection.

WARNING



Eye injury from refrigerant-filled coils due to pressure

When opening the piping to prepare for brazing of refrigerant-filled coils, nitrogen escapes at approx. 5-10 bar. This can result in small flying parts and chips that can cause injury to the eye.

- Wear protective goggles with side protection

All parts and operating materials (e.g. oils, refrigerants, brine, batteries) must be disposed of in accordance with local regulations.

When disposing of refrigerant or compressor oil, the relevant environmental protection regulations must be observed.

Electronic waste, metal and plastic parts are to be separated by type and recycled to conserve resources.

Panel sections are made of polyvinyl chloride (PVC).

UV-C technology

WARNING



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- Do not swallow. If swallowed, induce vomiting.
- Ensure good air exchange in the danger zone.
- Comply with the safety data sheet of the manufacturer.

CAUTION



Risk of serious injuries due to hazardous substances

There is a risk of poisoning if the carton is damaged or if the UV-C illuminants break.

- When handling broken UV-C illuminants, follow the safety instructions for handling mercury.
- Avoid direct contact with eyes, skin, and clothing.
- Ensure excellent ventilation of the AHU and the rooms connected via the ducts.
- Keep broken pieces of UV-C illuminants in airtight packaging and dispose of properly.

TIP



Removal of small amounts of mercury

UV-C illuminants contain small amounts of mercury. Removal of the small amount leaked at breakage can be done with special sorbents for mercury.

UV-C illuminants contain mercury and, therefore, must be disposed of with hazardous waste at a local waste disposal and recycling company. Disposal with residual waste is not permitted.

UV-C technology for air disinfection

For disposal, see

- Appendix "Light progress – Master-SM operating instructions", "Scrapping and disposal" section and
- Appendix "Light progress – UV-DUCT-SQ SB-SQ operating instructions", "Scrapping and disposal" section.

UV-C technology for surface disinfection

For disposal, see

- Appendix "Light progress – Master-16-MA operating instructions", "Demolition and disposal" section and
- Appendix "Light progress – UV-STICK...AL-SCR operating instructions", "Scrapping and disposal" section.

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