



## **Original instructions**

AC 7000

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## Information on the use of these instructions

### Symbols



#### **DANGER**

This symbol indicates dangers to the life and health of persons due to flammable refrigerants.



#### **Warning of electrical voltage**

This symbol indicates dangers to the life and health of persons due to electrical voltage.



#### **WARNING**

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



#### **CAUTION**

This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

#### **NOTICE**

This signal word indicates important information (e.g. material damage), but does not indicate hazards.



#### **Info**

Information marked with this symbol helps you to carry out your tasks quickly and safely.



#### **Follow the manual**

Information marked with this symbol indicates that the instructions must be observed.



#### **Wear safety glasses**

Information marked with this symbol indicates that you should wear eye protection.



#### **Wear a protective mask**

Information marked with this symbol indicates that you should wear a protective mask.



#### **Wear protective gloves**

Information marked with this symbol indicates that you should wear protective gloves.



#### **Wear foot protection**

Information marked with this symbol indicates that you should wear safety boots.

You can download the current version of the instructions and the EU declaration of conformity via the following link:



AC 7000



<https://info.danthermgroup.com/air-conditioner-dantherm-ac-7000>

## Safety

**Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use.**



### **WARNING**

**Read all safety warnings and all instructions.**

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in aggressive atmosphere.
- Place the device in an upright and stable position on horizontal and stable ground.
- Never drink the water / glycol mixture! Dispose of the water / glycol mixture properly!
- Fill the tank with the water / glycol mixture only.
- Let the device dry out after a wet clean. Do not operate it when wet.
- Do not use the device with wet or damp hands.
- Do not expose the device to directly squirting water.
- Never insert any objects or limbs into the device.
- Do not cover the device during operation.
- Do not sit on the device.
- This appliance is not a toy. Keep away from children and animals.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.
- Ensure that all electric cables outside of the device are protected from damage (e.g. caused by animals). Never use the device if electric cables or the power connection are damaged!
- The mains connection must correspond to the specifications in the Technical annex.
- Insert the mains plug into a properly fused mains socket.
- Observe the technical data when selecting extensions to the power cable. Completely unroll the extension cable. Avoid electrical overload.
- Before carrying out maintenance, care or repair work on the device, remove the mains plug from the mains socket. Hold onto the mains plug while doing so.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable.  
If the power cable is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.  
Defective power cables pose a serious health risk!
- A CR2032 buffer battery is installed in the display.

- The CR2032 buffer battery may only be replaced or removed and installed by a qualified electrician.
- Rechargeable batteries must not be installed in the device.
- Never charge batteries that cannot be recharged.
- Different types of batteries and new and used batteries must not be used together.
- Discharged batteries must be removed. Batteries contain materials hazardous to the environment. Dispose of the batteries according to the national regulations.
- Do not swallow batteries! If a battery is swallowed, it can cause severe internal burns within 2 hours! These burns can lead to death!
- If you think batteries might have been swallowed or otherwise entered the body, seek medical attention immediately!
- Keep new and used batteries and an open battery compartment away from children.
- Do not use any damaged batteries. Damaged batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- Do not expose the battery to fire or excessive temperature. Exposure to fire or temperature above 75 °C may cause explosion.
- When positioning the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the Technical annex.
- Make sure that the air inlet and outlet are not obstructed.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Discharge the collected condensate before transport and storage. Do not drink it. Health hazard!
- Only transport the device in an upright position.



#### **Safety warnings for devices containing flammable refrigerants**

- Only position the device in rooms where potentially leaking refrigerant cannot accumulate. Unventilated rooms, in which the device is installed, operated or stored, must be built in a way to ensure that potentially leaking refrigerant cannot accumulate. This serves to avoid fire or explosion hazards resulting from an ignition of the refrigerant by an electric furnace, cooking stove or another ignition source.
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Please note that the refrigerant is odourless.
- Only install the device in compliance with the national installation regulations.
- Please observe the local regulations.
- Observe the national gas regulations.
- Only install, operate and store the device AC 7000 in a room measuring more than 4 m<sup>2</sup>.
- Store the device in a way that no mechanical damage can occur.
- R454C comes with a low GWP factor (Global Warming Potential) of 148 and an ODP (ozone depletion potential) of 0.
- Observe the maximum refrigerant capacity in the technical data.
- Do not drill into or burn.
- Do not use any objects other than those authorised by the manufacturer to accelerate the defrosting process.

**The following work may only be carried out by service personnel:**

- Every person working with or at the refrigerant circuit must be able to provide a certificate of qualification issued by a body accredited by the industry, demonstrating their competence in the safe use of refrigerants based on a procedure well-known in the industry.
- Service work may only be carried out in accordance with the manufacturer's specifications. If maintenance and repair work require the support of additional persons, the person trained in handling flammable refrigerants shall continuously supervise the work carried out.
- The entire refrigerant circuit is a maintenance-free, hermetically sealed system and may only be maintained or repaired by specialist companies for cooling and air-conditioning or by the manufacturer.

## Intended use

Only use the device for cooling or circulating indoor air whilst adhering to the technical data. Any use other than the intended use is regarded as misuse.

## Reasonably foreseeable misuse

- Do not place the device on wet or flooded ground.
- Do not place any objects, e.g. clothing, on the device.
- Do not use the basic device outdoors.
- Never immerse the device in water.
- Do not make any unauthorised modifications, alterations or structural changes to the device.

## Personnel qualification

People who use this device must:

- be aware of the dangers that occur when working with electric devices in damp areas.
- have read and understood the instructions, especially the Safety chapter.

Maintenance tasks which require the housing to be opened must only be carried out by specialist companies for cooling and air-conditioning or by the manufacturer.

## Personal protective equipment



### **Wear safety glasses**

For start-up, maintenance and troubleshooting always wear suitable safety glasses.



### **Wear a protective mask**

For cleaning and maintenance tasks wear an appropriate protective mask.



### **Wear protective gloves**

For start-up, maintenance and troubleshooting always wear suitable protective gloves.



### **Wear foot protection**

For transportation, start-up, maintenance and troubleshooting always wear suitable foot protection.



## Safety signs and labels on the device

### NOTICE

Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.



The following safety signs and labels are attached to the device:

**WARNING • WARNUNG • ATTENTION**

**DE** Das Gerät muss in einem Raum mit einer Grundfläche größer als 4 m<sup>2</sup> aufgestellt, betrieben und gelagert werden.

**EN** Appliance shall be installed, operated and stored in a room with floor area larger than 4 m<sup>2</sup>.

**FR** L'appareil doit être installé, utilisé et entreposé dans une pièce avec une surface supérieure à 4 m<sup>2</sup>.


#### Follow the manual

This symbol indicates that the instructions must be observed.



#### Follow the repair manual

Disposal, maintenance and repair work of the refrigerant circuit may only be carried out in accordance with the manufacturer's specifications and by persons having a certificate of qualification. A corresponding repair manual is available from the manufacturer upon request.

## Residual risks



### **DANGER**

#### Refrigerant R454C

H221 – Flammable gas.

H280 – Contains gas under pressure; may explode if heated.

P210 – Keep away from heat, sparks, open flames and other ignition sources. No smoking.

P377 – Leaking gas fire; Do not extinguish, unless leak can be stopped safely.

P381 – Eliminate all ignition sources if safe to do so.

P410 and P403 – Protect against sunlight. Store in a well-ventilated place.



### **Warning of electrical voltage**

Work on the electrical components must only be carried out by an authorised specialist company!



### **Warning of electrical voltage**

Before any work on the device, remove the mains plug from the mains socket!

Do not touch the mains plug with wet or damp hands.

Hold onto the mains plug while pulling the power cable out of the mains socket.



**⚠ WARNING**

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!



**⚠ WARNING**

The device is not a toy and does not belong in the hands of children.



**⚠ WARNING**

Risk of suffocation!

Do not leave the packaging lying around. Children may use it as a dangerous toy.



**⚠ DANGER**

Keep the water / glycol mixture away from your eyes at all times! Should the water / glycol mixture contact your eyes, immediately rinse them with clear water!



**⚠ DANGER**

Never drink the water / glycol mixture! Glycol is unfit for human consumption and harmful to health!

**NOTICE**

To avoid damages to the device, only transport and operate the device in an upright position! It must neither be tilted nor laid down!

**NOTICE**

Do not operate the device without an inserted air filter! Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

## Behaviour in the event of an emergency

1. Switch the device off.
2. Disconnect the device from the mains: Hold onto the mains plug while pulling the power cable out of the mains socket.
3. Do not reconnect a defective device to the mains.

## Information about the device

### Device description

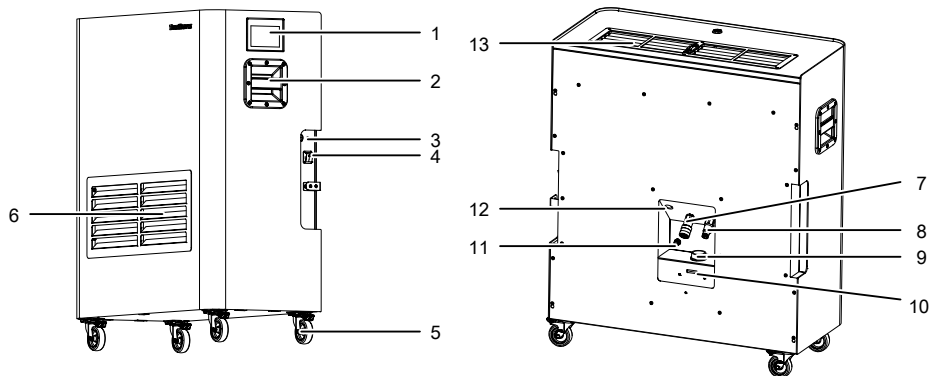
The device's primary purpose is room cooling and spot cooling. Moreover, the device provides the possibility of circulating the room air.

The device is operated via the control panel on the device.

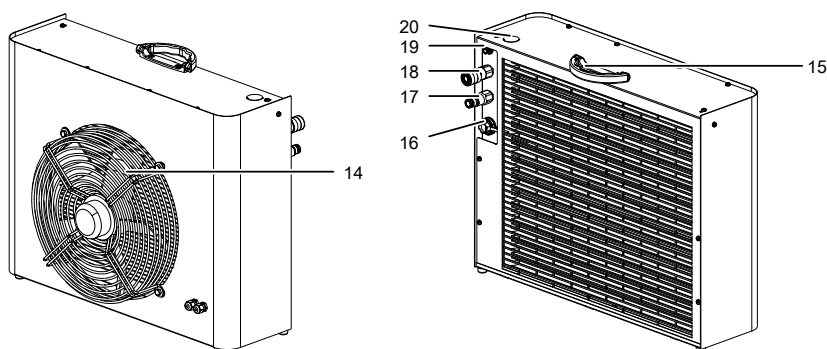
The device is an air conditioner with split cooling circuits. The refrigerant circuit of the basic device is self-contained. For the dissipation of warmth it is emitted via a heat exchanger to a second cooling circuit. A second circuit transports warmed water / glycol mixture to the outdoor unit to cool it down again. The refrigerant cools down the air coming from the room and in doing so absorbs the heat. The thusly cooled air is introduced to the room, where the device is positioned, via the fan. Accumulating condensate is discharged via a separate hose to the outdoor unit in order to evaporate there.

## Device depiction

### Basic device



### Outdoor unit



No.	Designation
1	Control panel
2	Transport handle
3	Mains connection
4	Main switch
5	Wheels
6	Air inlet with air filter
7	Connection for line to basic device (OUT)
8	Connection for line to basic device (IN)
9	Screw cap of tank
10	Filling level indication
11	Condensation drain hose connection
12	Mains connection cable to outdoor unit
13	Air outlet
14	Fan
15	Transport handle
16	Mains connection outdoor unit
17	Connection for line to outdoor unit (OUT)
18	Connection for line to outdoor unit (IN)
19	Condensation drain hose connection
20	Bleed screw for heat transfer fluid

## Transport and storage

### NOTICE

If you store or transport the device improperly, the device may be damaged.

Note the information regarding transport and storage of the device.

## Transport



### Wear foot protection

For transportation, start-up, maintenance and troubleshooting always wear suitable foot protection.

Please note that additional transport regulations might apply to devices containing flammable refrigerants. The equipment's arrangement and the maximum number of components to be transported together can be gathered from the applicable transport regulations.

The basic device is positioned on four movable transport castors and can be moved by one person. You can use the transport handles (2) on the sides for this purpose. A second person is required for lifting (e.g. over door sills or edges). Use a pallet jack or forklift in this case.

**Before** transporting the device, observe the following:

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Disconnect all connections between basic device and outdoor unit.
- Remove the remaining condensate from the device.
- Release the brakes on the transport castors (5).
- Do not use the power cable to drag the device.

**While** transporting the device, observe the following:

- Transport the device in an upright position.
- Roll the device on a level and smooth surface.
- Only hold the basic device by the transport handles (2) when rolling the device. Have a second person help you if you want to carry the device. Also use a pallet jack or forklift.
- Hold the outdoor unit by the transport handle (15) when carrying the device. The outdoor unit can be carried by one person.

**After** transporting the device, proceed as follows:

- Set up the device in an upright position after transport.
- Apply the brakes on the transport castors (5) again.

## Storage

**Before** storing the device, proceed as follows:

- Drain the remaining condensate from the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.

When the device is not being used, observe the following storage conditions:

- Only store the device in a room measuring more than 4 m<sup>2</sup>.
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Store the device in a dry location and protected from frost and heat.
- Store the device in an upright position where it is protected from dust and direct sunlight.
- If required, use a cover to protect the device from invasive dust.
- Place no further devices or objects on top of the device to prevent it from being damaged.

## Assembly and start-up

### Scope of delivery

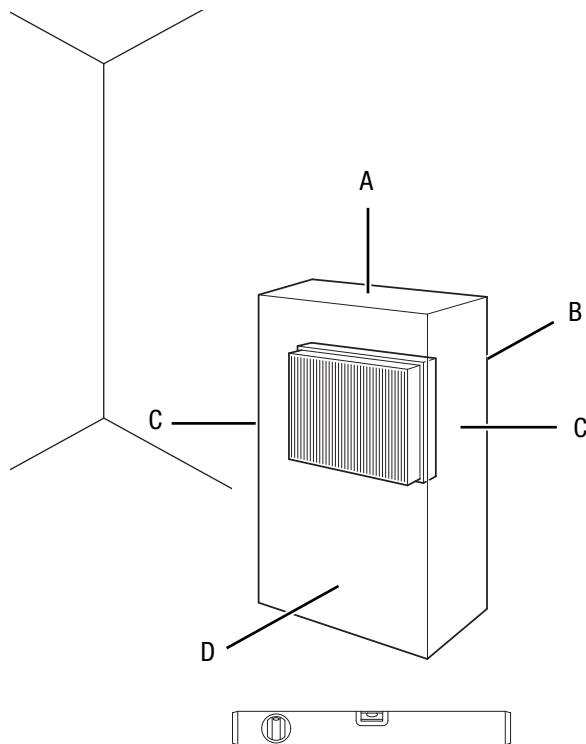
- 1 x Basic device
- 1 x Outdoor unit
- 1 x Hose set Standard
- 1 x Connection cable for electrical connection between outdoor unit and basic device
- 1 x Mains cable with mains connection (for basic device)
- 1 x Manual

### Unpacking the device

1. Open the cardboard box and take the device out.
2. Completely remove the packaging.
3. Fully unwind the power cable. Make sure that the power cable is not damaged and that you do not damage it during unwinding.

### Start-up

When positioning the device, observe the minimum distance from walls or other objects as described in the Technical data chapter.



### Installing the basic device

Before installing the device, observe the following:

- Only position the device in rooms where potentially leaking refrigerant cannot accumulate.
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Place the device in an upright and stable position on horizontal and stable ground.

- Check whether the brakes on the transport castors of the basic device (5) are engaged.
- Do not create tripping hazards when laying the power cable or other electric cables, especially when positioning the device in the middle of the room. Use cable bridges.
- Make sure that extension cables are completely unrolled.
- Keep air inlets and outlets as well as the exhaust air hose connection free.
- Make sure that no curtains or other objects interfere with the air flow.

### Installing the outdoor unit

#### NOTICE

Please note that the outdoor unit requires a minimum distance of 3 m to the front from the nearest wall or other objects.

Before installing the device, observe the following:

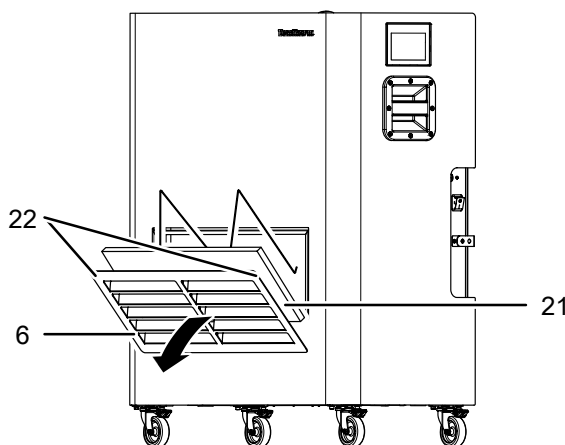
- Place the device in an upright and stable position on horizontal and stable ground.
- Make sure that no curtains or other objects interfere with the air flow.

### Inserting the air filter

#### NOTICE

Do not operate the device without an inserted air filter! Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

1. Loosen the two screws (22) at the top left and right of the ventilation plate at the air inlet (6).
2. Remove the ventilation plate from the air inlet (6) and check whether the air filter (21) is already fitted.



3. If the air filter (21) has not yet been fitted, push the air filter (21) into the filter insert and then into the designated recess.
4. Refit the ventilation plate at the air inlet (6) and fasten the ventilation plate using the two screws (22) at the top left and right.



**Connecting basic device and outdoor unit**



**Wear safety glasses**



**Wear protective gloves**

**NOTICE**

Both the basic device and the external heat exchanger are equipped with flat-face couplings. This enables leakage-free connecting and disconnecting with very little effort.

**NOTICE**

If the device is installed on a sensitive surface, protect it with appropriate covers during installation.

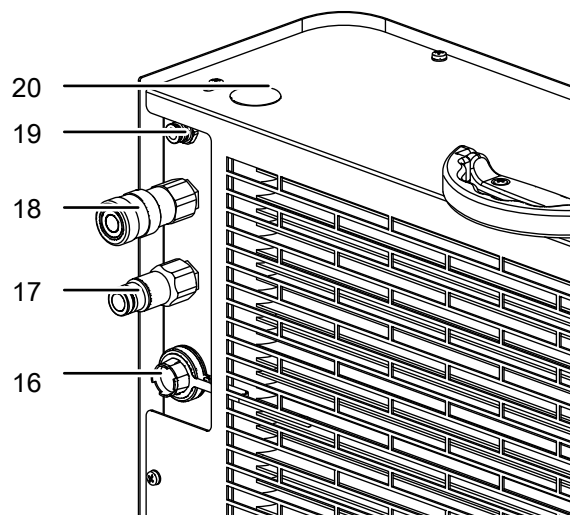
**Connections on the outdoor unit**

**NOTICE**

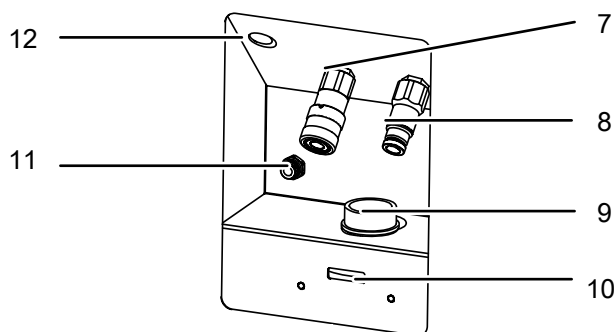
Please note that the maximum length of the condensation drain hoses is 30 m. A hose set is included in the scope of delivery.

**NOTICE**

Please note that the maximum length of the connection cables is 30 m.



**Connections on the basic device**



1. Insert the supplied condensation drain hoses into the connection provided on the outdoor unit (19) and the connection on the basic device (11).
2. Guide the other hose ends to a suitable drain or sufficiently dimensioned collection container. To ensure that the condensate can run off, the condensation drain hose must not be kinked, nor should it have to overcome an uphill incline towards the drain.
3. Connect the outdoor unit and the basic device by plugging the connection cable into the connections (12 and 16).
4. Connect the basic device and the outdoor unit by connecting the hoses from the supplied hose set to the IN and OUT connections (connection 17 and connection 8 as well as connection 7 and connection 18).
5. Check whether there is sufficient liquid in the tank (9). Also check the glycol content with an antifreeze tester in accordance with the technical data and top up the tank with the water / glycol mixture if necessary.
  - ⇒ After installation, allow the device to rest for 2 hours before switching it on.

**Connecting the power cable**



**⚠ Warning of electrical voltage**

Do not touch the mains plug with wet or damp hands.

Hold onto the mains plug while plugging the power cable into the mains socket.

1. Plug the power cable into the mains connection (3) of the basic device.
2. Insert the mains plug into a properly fused mains socket.

## Operation

After installation, the device has been in an upright position for 2 hours.  
Avoid open doors and windows.

### Switching the device on

Once you have completely installed the device as described in the Start-up chapter, you can switch it on.

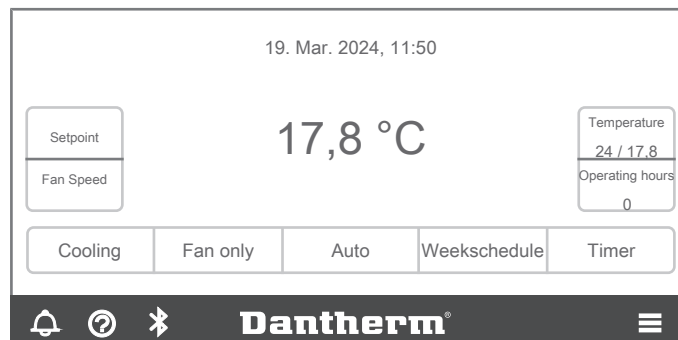
Please proceed as follows to switch the device on:

1. Set the main switch (4) to position I.

⇒ The control panel lights up and the device initialises automatically while displaying the following:



⇒ The main screen appears after 30 seconds.



2. Open the bleed screw (20) and allow air to escape from the system if necessary.
3. Retighten the bleed screw (20).

**Basic settings**



**Info**

The temperature displayed in the centre of the main screen is the actual value (ambient value). In the Temperature field on the right-hand side of the main screen, the setpoint and the current actual value are displayed.



**Info**

Press the icon on the main screen to display all current and previous settings and warning messages.

New messages are displayed directly next to the icon with a yellow dot.



**Info**

Press the icon on the main screen to display the contact data of the manufacturer, which you can use to contact the customer service.



**Info**

Some inputs must be activated by pressing the *Save* or *Back* button. When using the *Back* button, the settings are only saved if the *Save* button is not available. The display will be dimmed if it is not actuated for a certain time. This function can be deactivated in the *Preferences* menu.



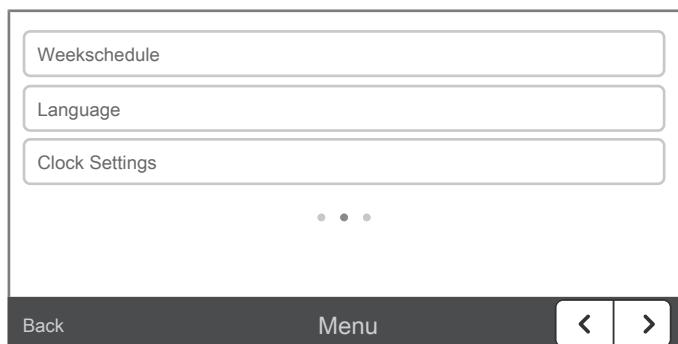
**Info**

Settings that have been made but not confirmed with *Save* or *Back* are not saved.

**Setting the language, date and time**

Please proceed as follows to set the language, day and time:

1. Press the icon on the main screen.
  - ⇒ The display changes to the following submenu.



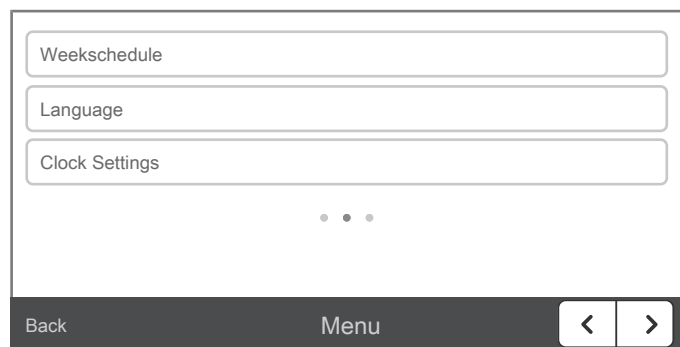
2. Press the *Language* button.
  - ⇒ The display changes to the *Language* menu.
  - ⇒ A language is already preselected.
3. Press the button for the desired language to select it.
  - ⇒ You can select the languages German, English, French, Spanish or Italian.

⇒ The *Save* button appears.



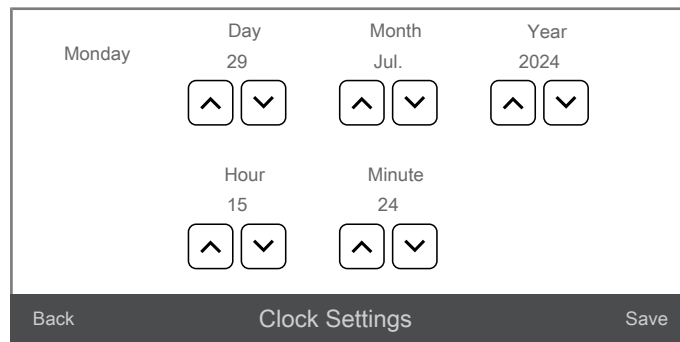
4. Press the *Save* button to save the setting.



⇒ The display changes to the following submenu.



5. Press the *Clock settings* button.

⇒ The display changes to the *Clock settings* menu.



6. Press the  icon (*decrease value*) or the  icon (*increase value*) to set the day, month, year, hour and minute.

7. Press the *Save* button.

⇒ The basic settings have now been made.

8. Press the *Back* button to return to the main screen.

**Temperature setting**

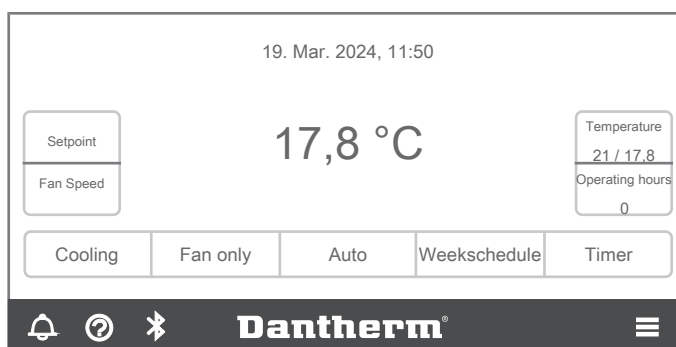
1. Press the *Setpoint* button.

⇒ The selected button is highlighted in grey.



2. Press the - or + button to adjust the desired temperature setpoint.

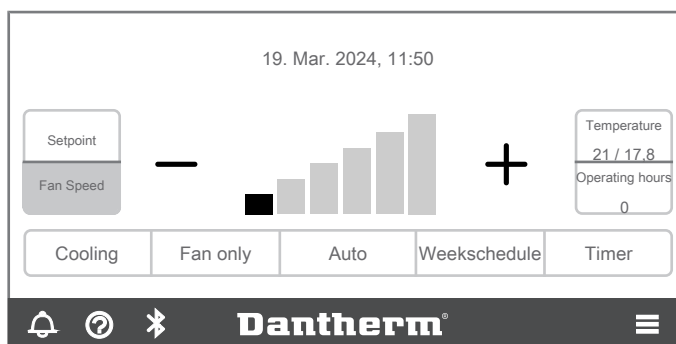
⇒ After a short time, the actual value is shown again in the centre of the display. The setpoint and actual value are still displayed on the right-hand side in the Temperature field.



**Setting the fan speed**

1. Press the *Fan Speed* button on the main screen.

⇒ The selected button is highlighted in grey.



2. Press the - or + button to set the desired fan speed.

⇒ The activated fan level can be read from the black bars. One bar stands for one fan stage each.

Speed 1 corresponds to 850 m <sup>3</sup> /h	Speed 4 corresponds to 1150 m <sup>3</sup> /h
Speed 2 corresponds to 950 m <sup>3</sup> /h	Speed 5 corresponds to 1250 m <sup>3</sup> /h
Speed 3 corresponds to 1050 m <sup>3</sup> /h	Speed 6 corresponds to 1450 m <sup>3</sup> /h

**Setting the operating mode**

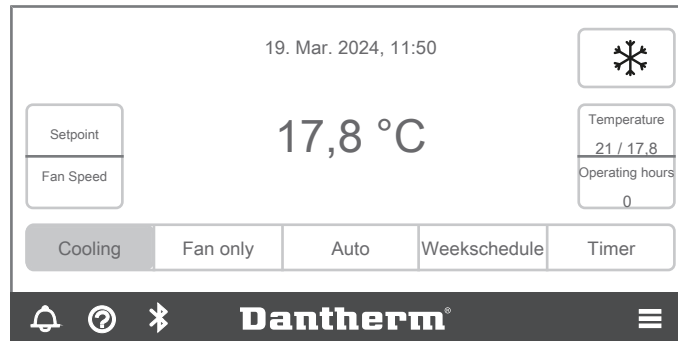
The device comes with three different operating modes: cooling, ventilation and automatic mode.

Please proceed as follows to set the operating mode:

1. Press the *Cooling* button on the main screen.

⇒ The selected button is highlighted in grey.

⇒ The icon for *Cooling* mode appears at the top right of the display.

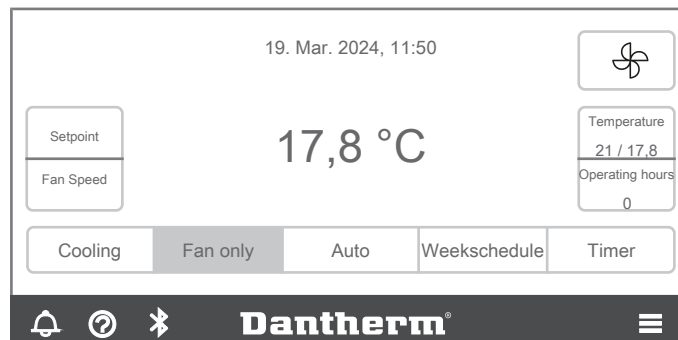


⇒ The air is cooled to the temperature set in the *Setpoint* field. The previously set fan speed is also activated. The device will switch to standby mode.

2. Press the *Fan only* button on the main screen.

⇒ The selected button is highlighted in grey.

⇒ The icon for *Fan only* mode appears at the top right of the display.

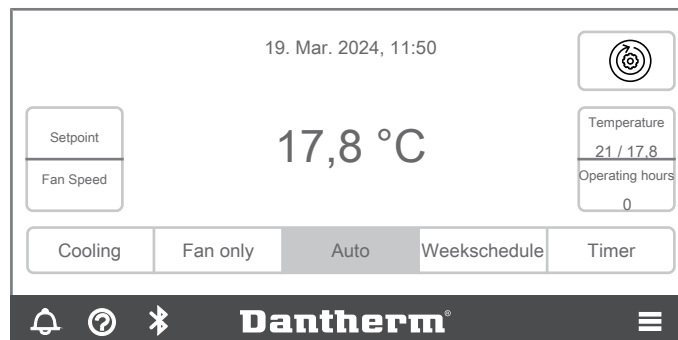


⇒ The air is not cooled, but circulated at the selected fan speed. The water circuit to the outdoor unit is switched off in this case.

3. Press the *Auto* button.

⇒ The selected button is highlighted in grey.

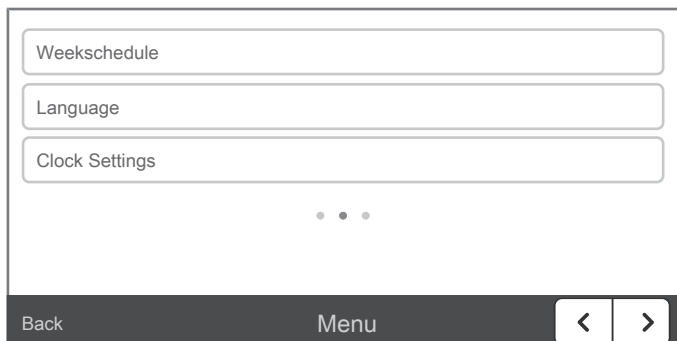
⇒ The icon for automatic mode only mode appears at the top right of the display.



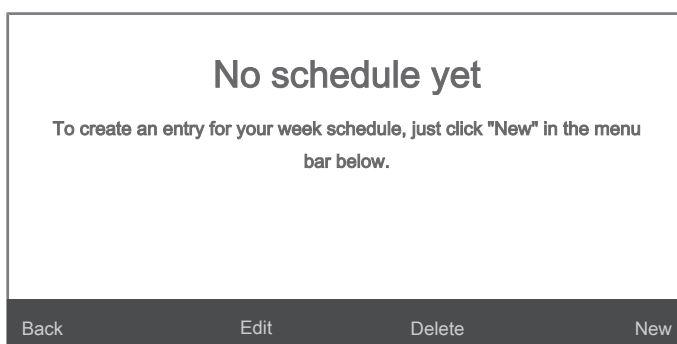
⇒ The air is cooled to the temperature set in the *Setpoint* field. The cooling capacity and fan performance are set automatically depending on the actual temperature.

**Setting a weekly schedule**

1. Press the ☰ icon on the main screen.  
⇒ The display changes to the following submenu.



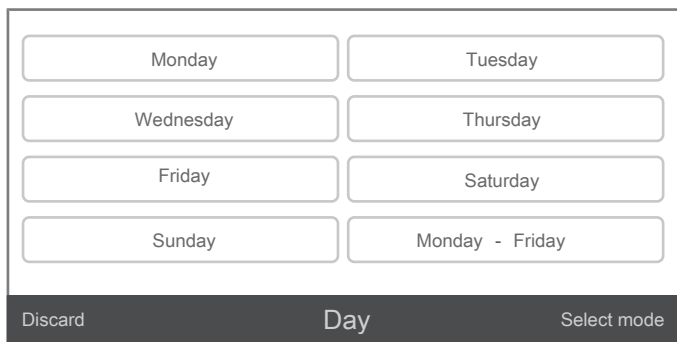
2. Press the *Weekschedule* button.  
⇒ The display changes to the *Weekschedule* submenu.



3. Press the *New* button to create a new weekly schedule.  
⇒ The display changes to the *Switching Time* submenu.



4. Press the *Weekschedule* button.  
⇒ The display changes to the *Day* menu.



5. Press the desired day of the week to activate it.  
⇒ The button is highlighted in grey.
6. Press the *Select mode* button to confirm the entry.



⇒ The display changes to the *Switching Time* menu again.

Weekschedule	Monday
Fan level	Level 1
Setpoint	21 °C
Time	12:00

Cancel      Switching Time      Save

7. Press the *Fan level* button to set the desired level.

⇒ The display changes to the *Fan Level* menu.

Off	Level 1	Level 2	Level 3
Level 4	Level 5	Level 6	Auto

Discard      Fan level      Select

⇒ Press the *Level 1 – Level 6* button (activation of a fan level), the *Auto* button (activation of automatic mode) or the *Off* button (ventilation is deactivated).

⇒ The selected button is highlighted in grey.

8. Press the *Select* button to confirm the entry.

⇒ The display changes to the *Switching Time* menu again.

Weekschedule	Monday
Fan level	Level 1
Setpoint	21 °C
Time	12:00

Cancel      Switching Time      Save

9. Press the *Setpoint* button.

⇒ The display changes to the *Setpoint* menu.

What setpoint should be set?

- 21 °C +

Discard      Setpoint      Select

10. Press the - or + button to adjust the desired temperature setpoint.

11. Press the *Select* button to save the entry.

⇒ The display changes to the *Switching Time* menu again.

Weekschedule Monday

Fan level Level 1

Setpoint 21 °C

Time 12:00

Cancel Switching Time Save



12. Press the *Time* button.

⇒ The display changes to the *Time* menu.

At what time should this event begin?

00 h 30min

Discard Time Select

13. Press the  icon (*decrease value*) or the  icon (*increase value*) to set the hours, minutes and seconds.

14. Press the *Select* button to confirm the entry.

⇒ Ventilation mode with the set fan speed and automatic mode start at the set time.

⇒ The display changes to the *Switching Time* menu again.

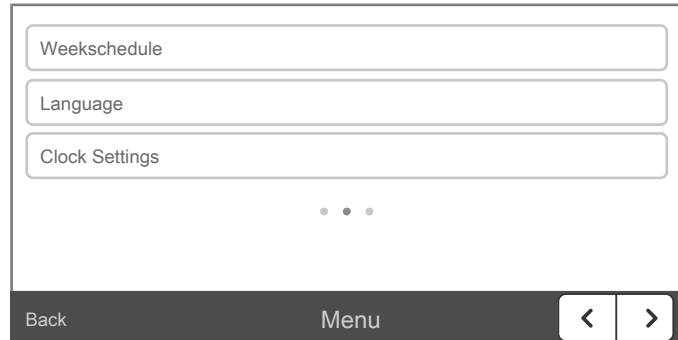
15. Press the *Save* button.

16. Press the *Back* button until you have returned to the main screen.

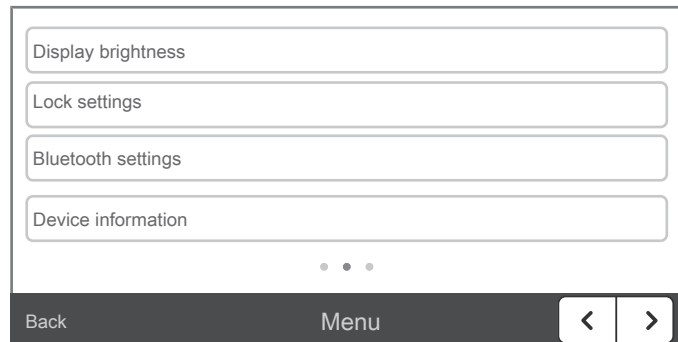
## Activating the locking function

The locking function prevents the buttons on the control panel from being used. Proceed as follows to set your own PIN:

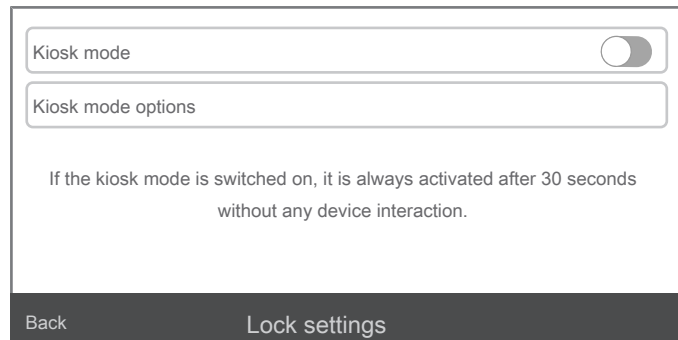
1. Press the ☰ icon on the main screen.  
⇒ The display changes to the following submenu.



2. Press the < > icon (next/back).
3. Press the *Lock settings* button.



- ⇒ The display changes to the *Lock settings* menu.

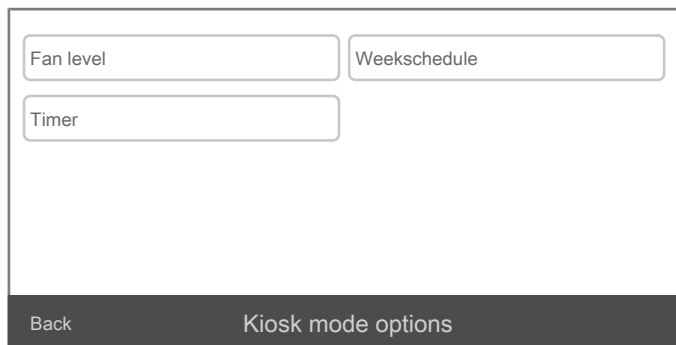


4. Press the *Kiosk mode* button.  
⇒ The display changes to the submenu for creating the PIN.
5. Then press the empty button and create a 5-digit PIN in the subsequent menu.
6. Press the *OK* button and then *OK* again.  
⇒ The screen lock is activated and the device can no longer be operated.  
⇒ The 🗝 icon appears at the bottom right of the main screen.

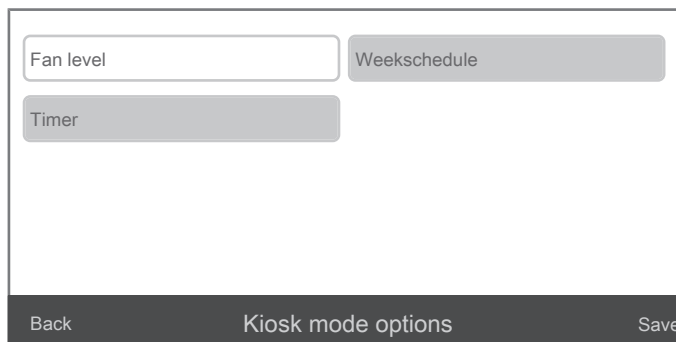
**Activating the locking function for certain functions**

Please proceed as follows if you want to activate the PIN for certain functions only:

1. Press the *Kiosk mode options* button on the *Lock settings* screen.  
⇒ The display for entering the PIN appears.
2. Enter your PIN.  
⇒ The display changes to the *Kiosk mode options* menu.



3. Press the desired button to deactivate the function or setting.  
⇒ The selected button is highlighted in grey.



4. Press the *Save* button to activate the locking function for the selected function or setting.  
⇒ The locking function remains activated even if the device is switched off and on again.



**Info**

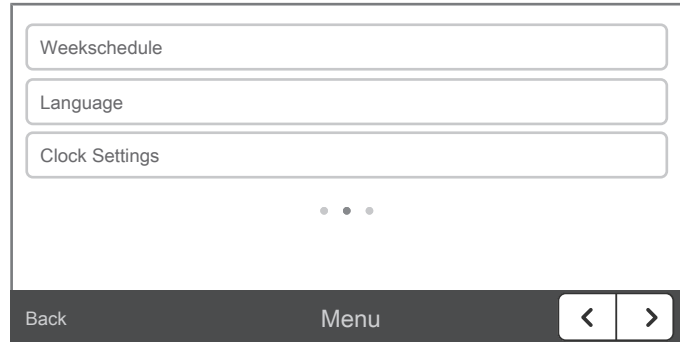
You can disable the locking function for a function by pressing the activated button and then pressing the *Save* button.

**Restoring the default settings after a power failure**

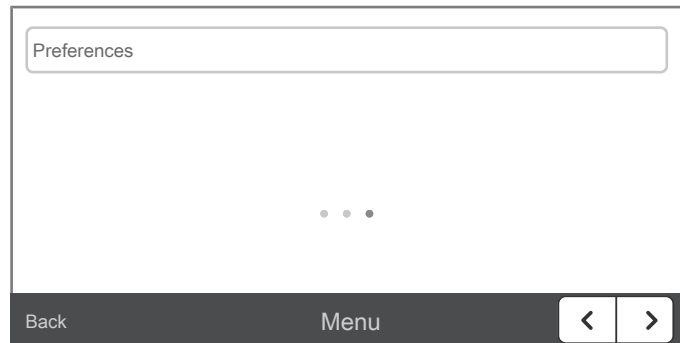
When the power is switched on again after a power failure, the device is in standby mode after switch-on and the default settings are used. Please proceed as follows to reactivate the settings used before the power failure:

1. Press the ☰ icon on the main screen.

⇒ The display changes to the following submenu.

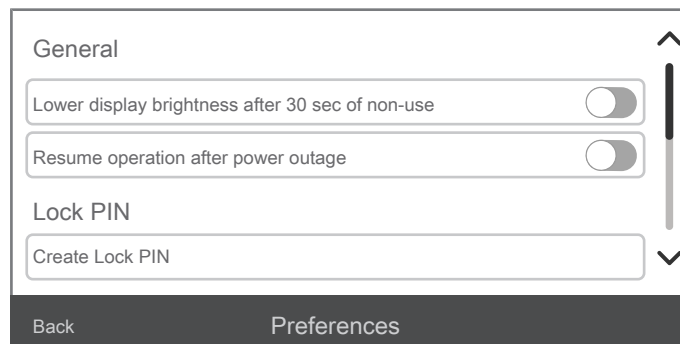


2. Press the < > icon (next) twice.

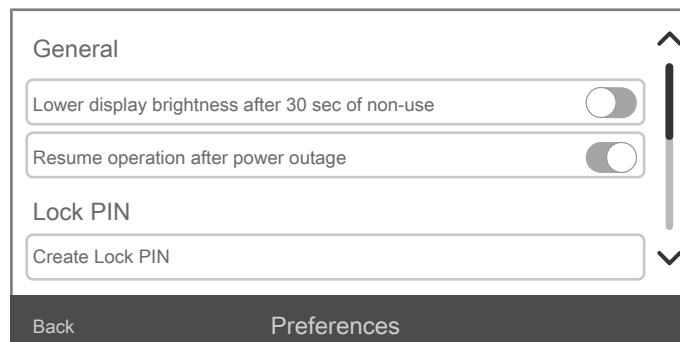


3. Press the *Preferences* button.

⇒ The display changes to the *Preferences* menu.



4. Press the *Resume operation after power outage* button.



5. Press the *Back* button until you have returned to the main screen.

## Automatic defrosting

### NOTICE

Do not try to scrape or break the ice off the outdoor unit using tools or other objects, as this can cause damage to the outdoor unit. Wait for automatic defrosting to complete. If defrosting could not be completed (residual ice formation), please contact customer service.

At low ambient temperatures, ice may form at the vaporizer during air conditioning.

The device carries out automatic defrosting by means of the hot gas line. The ❄️ icon is shown at the top right of the control panel display (1) and the *Cooling* button is highlighted in grey. The device is now in defrosting mode. Here, a hot cooling agent is led into the iced vaporizer for the surfaces to defrost. Automatic defrosting cannot be activated or deactivated manually.

The duration of defrosting can vary. The hot gas automatic defrost system integrated in the device automatically switches on the defrost cycle at regular intervals.

Do not switch the device off during automatic defrost. Do not remove the mains plug from the mains socket.

After automatic defrosting the device keeps running for approx. 90 seconds for the purpose of air circulation – regardless of the ambient temperature and the desired room temperature. Afterwards the device resumes operation with the set values.

## Shutdown



### ⚠️ Warning of electrical voltage

Do not touch the mains plug with wet or damp hands.

- Switch off the device by setting the main switch (4) to position **0**.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Clean the device according to the Maintenance chapter.
- Empty the condensation tank, if need be.
- Store the device according to the Transport and storage chapter.

## Available accessories



### **WARNING**

Only use accessories and additional equipment specified in the instructions.

Using insertion tools or accessories other than those specified in the instructions may cause a risk of injury.

Designation	Article number
Hose set Standard	1.210.000.135
Hose set Heavy Duty	1.210.000.136
AC 7000 outdoor unit	1.210.001.091

## Errors and faults

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

### NOTICE

Wait for at least 3 minutes after maintenance and repair work. Only then switch the device back on.



#### **Wear safety glasses**

For start-up, maintenance and troubleshooting always wear suitable safety glasses.



#### **Wear protective gloves**

For start-up, maintenance and troubleshooting always wear suitable protective gloves.

#### **The device does not start:**

- Check the power connection.
- Check the power cable and mains plug for damage. If you notice damages, do not try to take the device back into operation.  
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Check the on-site fusing.
- Observe the operating temperature according to the chapter Technical annex.
- If the device is not starting, have the electrics checked by a specialist company or by the manufacturer.
- After switch-off, allow the device to cool down for a few minutes before switching it back on.

#### **The device works with reduced or no cooling capacity:**

- Check whether *Cooling* mode or automatic mode is selected.
- Check the air filter(s) for dirt. If necessary, clean or replace the air filter(s).
- Check the minimum distance to walls or other objects. Position the device a little more in the room's centre if required.
- Check the temperature setting at the device. Reduce the set temperature if it is higher than the room temperature.

#### **The device is loud or vibrates:**

- Check whether the device is set up in a stable and upright position.

#### **Condensate is leaking from the basic device:**

- Check the device for leaks.

#### **The compressor does not start:**

- Check whether the overheating protection of the compressor has tripped. Disconnect the device from the mains and let it cool down for approx. 10 minutes before reconnecting it.
- The compressor may start up with a delay of 3 minutes, as it is provided with an internal protection against direct restart.

#### **The device gets very warm, is loud or is losing power:**

- Check the air inlets and air filters for dirt. Remove external dirt.
- From the outside, check the device for dirt (see chapter Maintenance). If the inside of the device is dirty, have it cleaned by a specialist company for cooling and air-conditioning or by the manufacturer.



**The device still does not operate correctly after these checks:**

- Please contact the customer service. If necessary, bring the device to a specialist company for cooling and air-conditioning or to the manufacturer for repair.

## Maintenance

### Maintenance intervals

Maintenance and care interval	before every start-up	as needed	at least every 2 weeks	at least every 4 weeks	at least every 6 months	at least annually
Check air inlet and outlet for dirt and foreign objects and clean if necessary	X			X		
Clean the exterior		X				X
Visually check the inside of the device for dirt		X				X
Check the air filter for dirt and foreign objects and clean or replace if necessary	X		X			
Replace the air filter					X	
Check for damage	X					
Check the attachment screws		X				X
Test run						X

### Maintenance and care log

Device type: .....

Device number: .....

Maintenance and care interval	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Check air inlets and outlets for dirt and foreign objects and clean if necessary																
Check the air filter for dirt and foreign objects and clean or replace if necessary																
Clean the exterior																
Visually check the inside of the device for dirt																
Replace the air filter																
Check the attachment screws																
Test run																

1. Date: Signature:	2. Date: Signature:	3. Date: Signature:	4. Date: Signature:
5. Date: Signature:	6. Date: Signature:	7. Date: Signature:	8. Date: Signature:
9. Date: Signature:	10. Date: Signature:	11. Date: Signature:	12. Date: Signature:
13. Date: Signature:	14. Date: Signature:	15. Date: Signature:	16. Date: Signature:

## Activities required before starting maintenance



### **Wear safety glasses**

For start-up, maintenance and troubleshooting always wear suitable safety glasses.



### **Wear a protective mask**

For cleaning and maintenance tasks wear an appropriate protective mask.



### **Wear protective gloves**

For start-up, maintenance and troubleshooting always wear suitable protective gloves.



### **Warning of electrical voltage**

Do not touch the mains plug with wet or damp hands.

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.



### **Warning of electrical voltage**

**Tasks which require the device to be opened must only be carried out by authorised specialist companies or by the manufacturer.**

## Refrigerant circuit



### **DANGER**

#### **Refrigerant R454C**

H221 – Flammable gas.

H280 – Contains gas under pressure; may explode if heated.

P210 – Keep away from heat, sparks, open flames and other ignition sources. No smoking.

P377 – Leaking gas fire; Do not extinguish, unless leak can be stopped safely.

P381 – Eliminate all ignition sources if safe to do so.

P410 and P403 – Protect against sunlight. Store in a well-ventilated place.

- The entire refrigerant circuit is a maintenance-free, hermetically sealed system and may only be maintained or repaired by specialist companies for cooling and air-conditioning or by the manufacturer.
- The refrigerant circuit of the basic device is a maintenance-free, hermetically sealed system and may only be maintained or repaired by specialist companies for cooling and air-conditioning or by the manufacturer.

## Safety signs and labels on the device

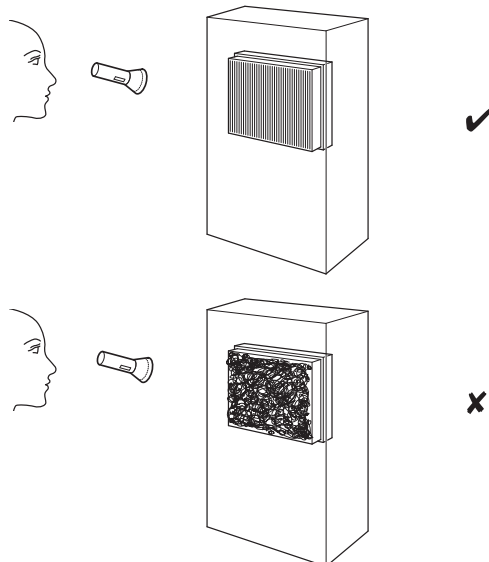
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

## Cleaning the housing

Clean the housing with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Protect electrical components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.

## Visual inspection of the inside of the device for dirt

1. Remove the air filter.
2. Use a torch to illuminate the openings of the device.
3. Check the inside of the device for dirt.
4. If you see a thick layer of dirt, have the inside of the device cleaned by a specialist company for cooling and air-conditioning or by the manufacturer.
5. Put the air filter back in.



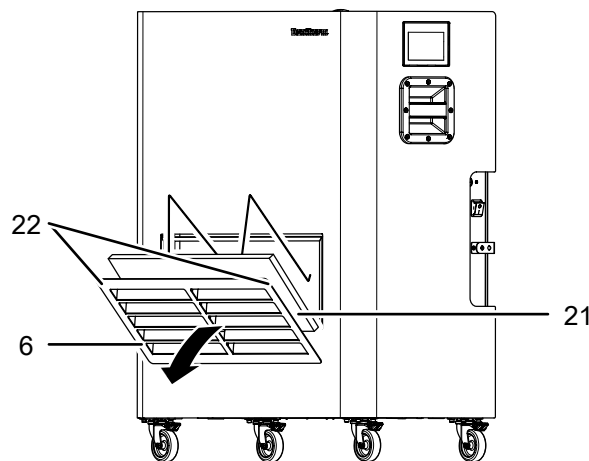
## Cleaning the air filter



### **WARNING**

Make sure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry!

1. Loosen the two screws (22) at the top left and right of the ventilation plate at the air inlet (6).
2. Remove the ventilation plate at the air inlet (6) from the device.



3. Remove the air filter from the filter insert.
4. Dispose of the air filter (21) according to the national regulations.
5. Insert a new air filter into the filter insert.
6. Insert the new air filter with the filter insert (21) into the device.
7. Refit the ventilation plate at the air inlet (6) and fasten the ventilation plate using the two screws (22) at the top left and right.

## Venting the outdoor unit

After a longer period of non-use, the outdoor unit must be vented. Please proceed as follows:

- ✓ The device is switched on (see Start-up and Operation chapters).
  1. Loosen the bleed screw (20).
  2. Release the excess air from the system.
  3. Screw the bleed screw (20) back onto the opening.

## Activities required after maintenance

If you want to continue using the device:

- Leave the device to rest for 12 to 24 hours, so the refrigerant can accumulate within the compressor. Wait 12 to 24 hours before switching the device back on! Acting contrary might lead to compressor damage and a malfunctioning device. If so, any warranty claims will be voided.
- Reconnect the device to the mains.

If you do not intend to use the device for a considerable time:

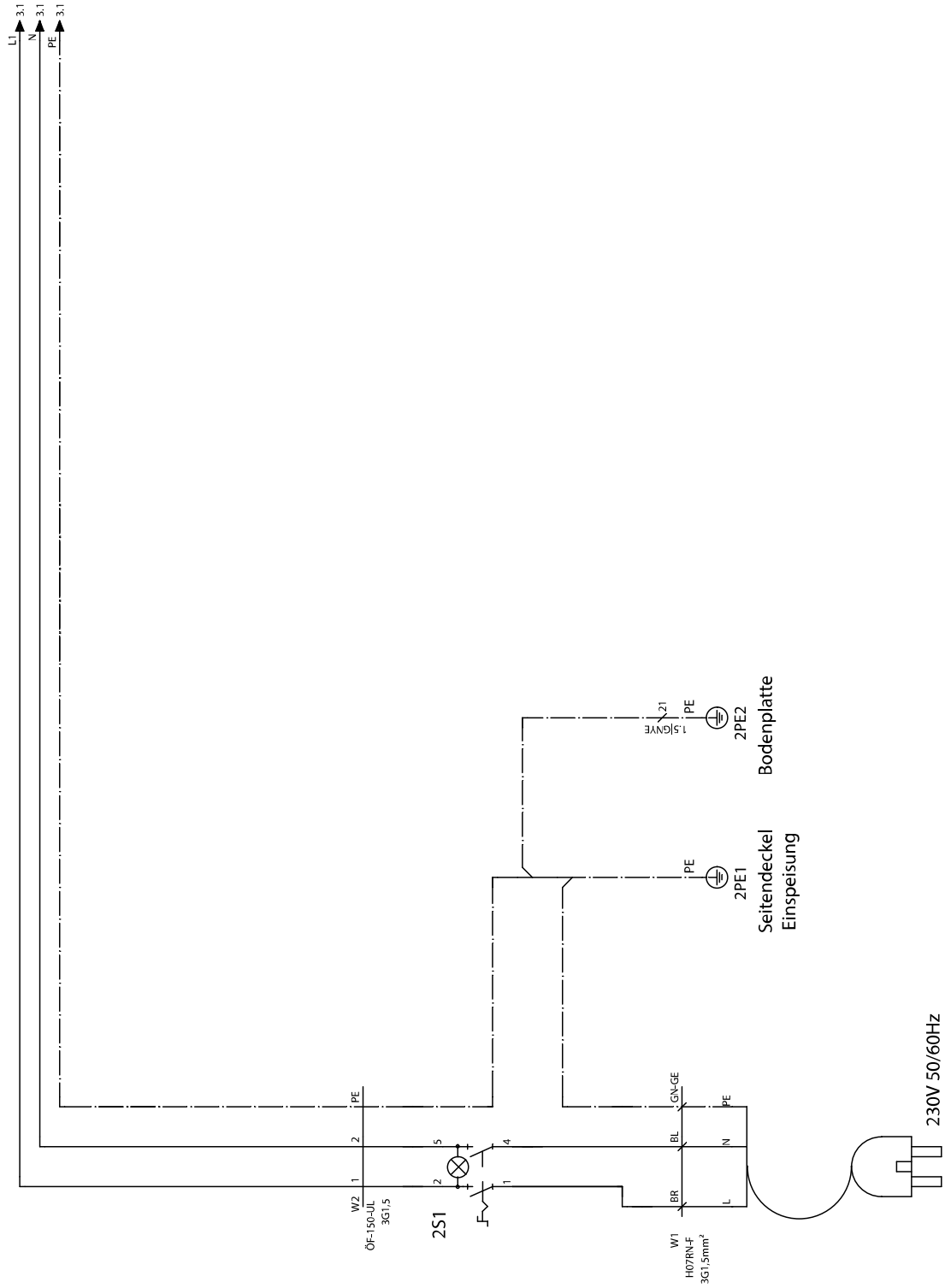
- Store the device according to the Transport and storage chapter.

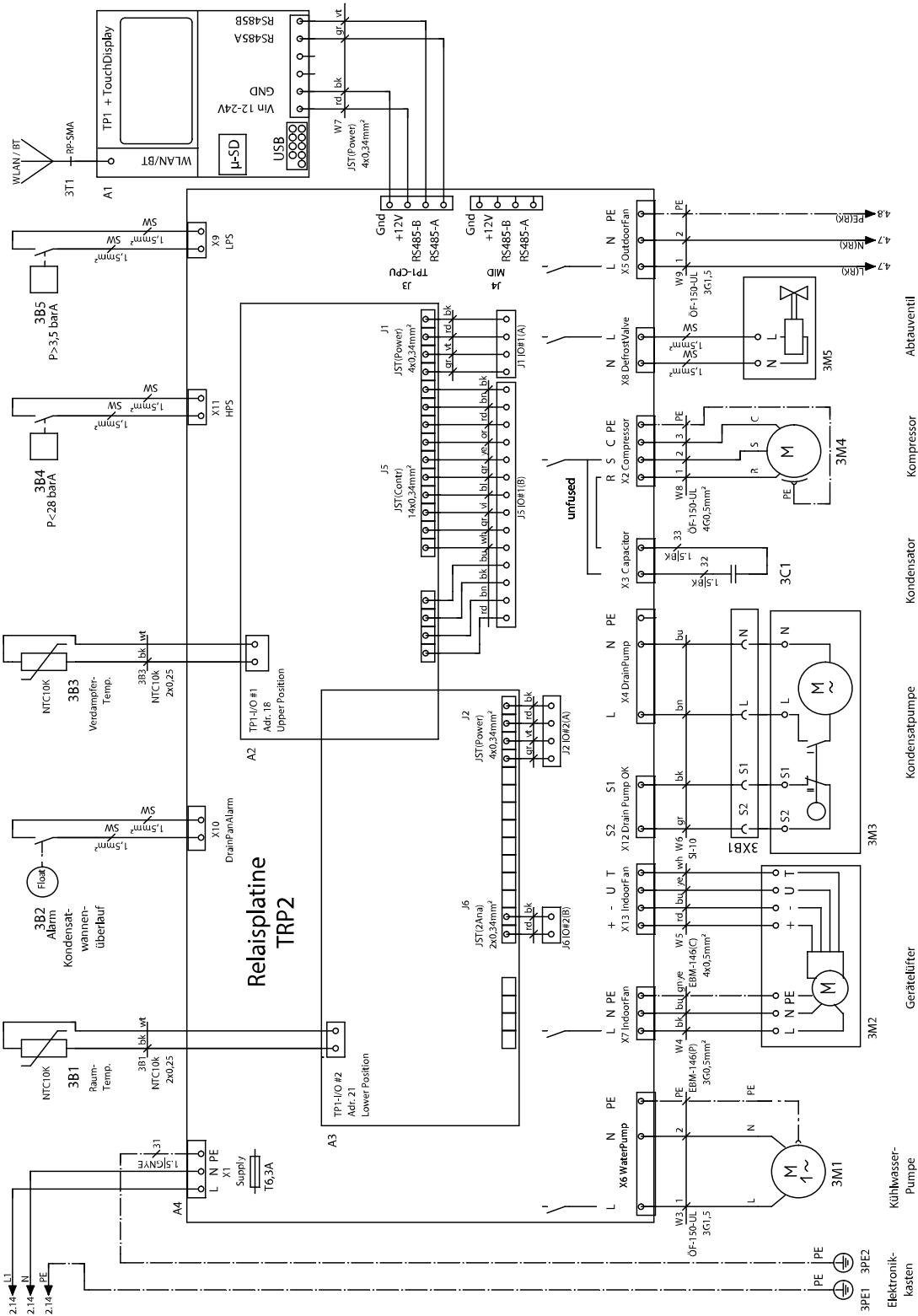
## Technical annex

### Technical data

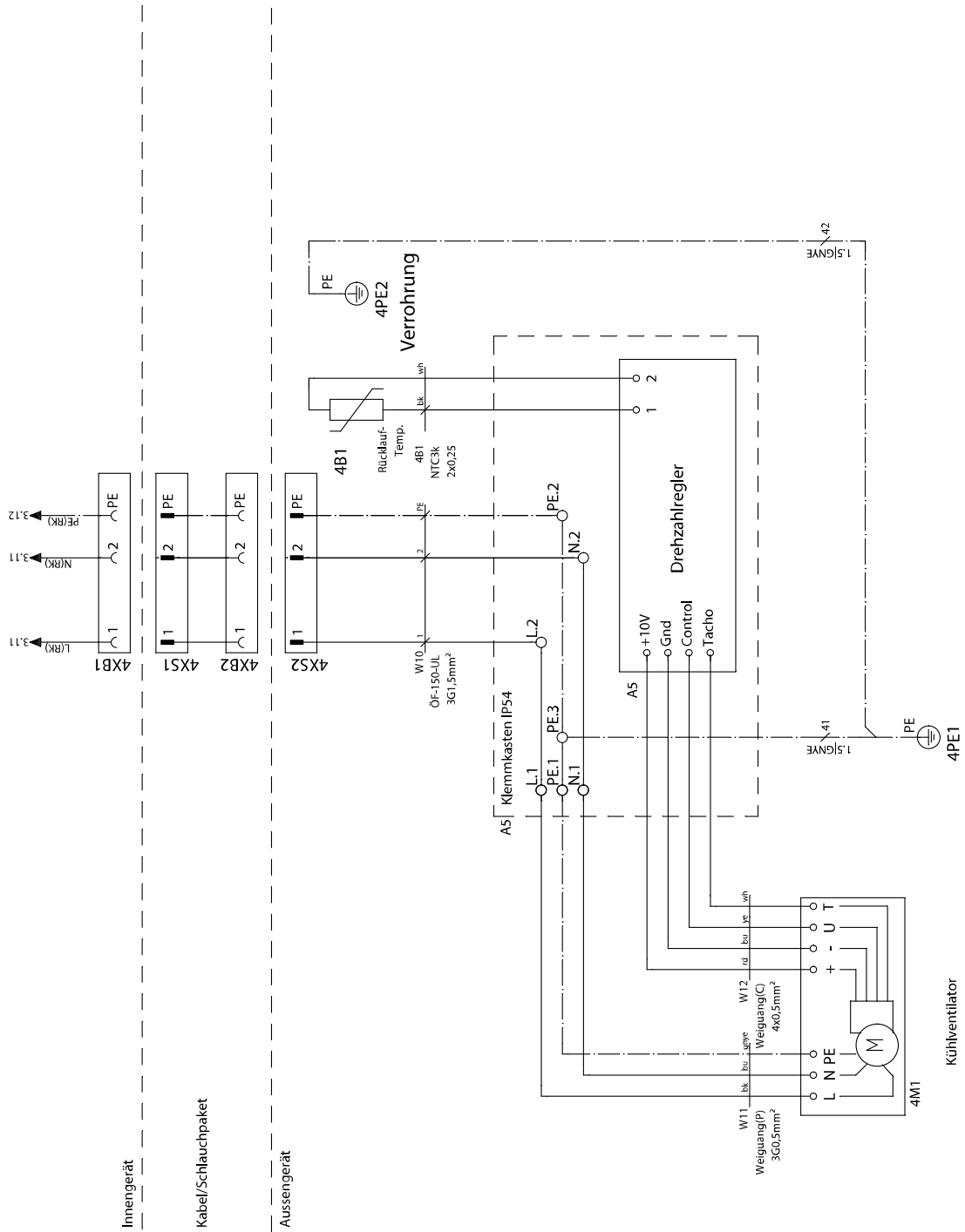
Model	AC 7000
Article number	1.210.001090
Cooling capacity (at 25 °C)	6.5 kW
Max. cooling capacity	7 kW
Operating range	-5 °C to 45 °C
Max. air volume flow	1450 m <sup>3</sup> /h
Mains connection	230 V / 50 Hz
Nominal current	9 A
WLAN transmission frequency	2.4 GHz
Maximum transmission capacity	< 20 dBm
Type of protection	
outdoor unit	IP 54
basic device	IP 44
Max. power input (cooling operation)	2.95 kW
Sound pressure level at a distance of 1 m	62 dB(A)
Cooling medium (30 % water / glycol mixture) of the outdoor unit	10.5 l water / 4.5 l glycol
Glycol specification	monopropylene glycol 1.2
Refrigerant	R454C
Amount of refrigerant basic device	840 g
GWP factor	148
CO <sub>2</sub> equivalent	0.133 t
Suction side pressure	1 MPa
Discharge side pressure	2.5 MPa
Max. permissible pressure	2.5 MPa
Dimensions of the basic device (length x width x height)	1025 x 880 x 400 mm
Dimensions of the outdoor unit (length x width x height)	580 mm x 700 mm x 250 mm
Minimum distance to walls and other objects (basic device):	
	top: 30 cm
	sides: 30 cm
	front: 30 cm
	rear: 30 cm
Minimum distance to walls and other objects (outdoor unit):	
	top: 30 cm
	sides: 30 cm
	front: 300 cm
	rear: 30 cm
Weight basic device	114 kg
Weight outdoor unit	19 kg

Circuit diagrams



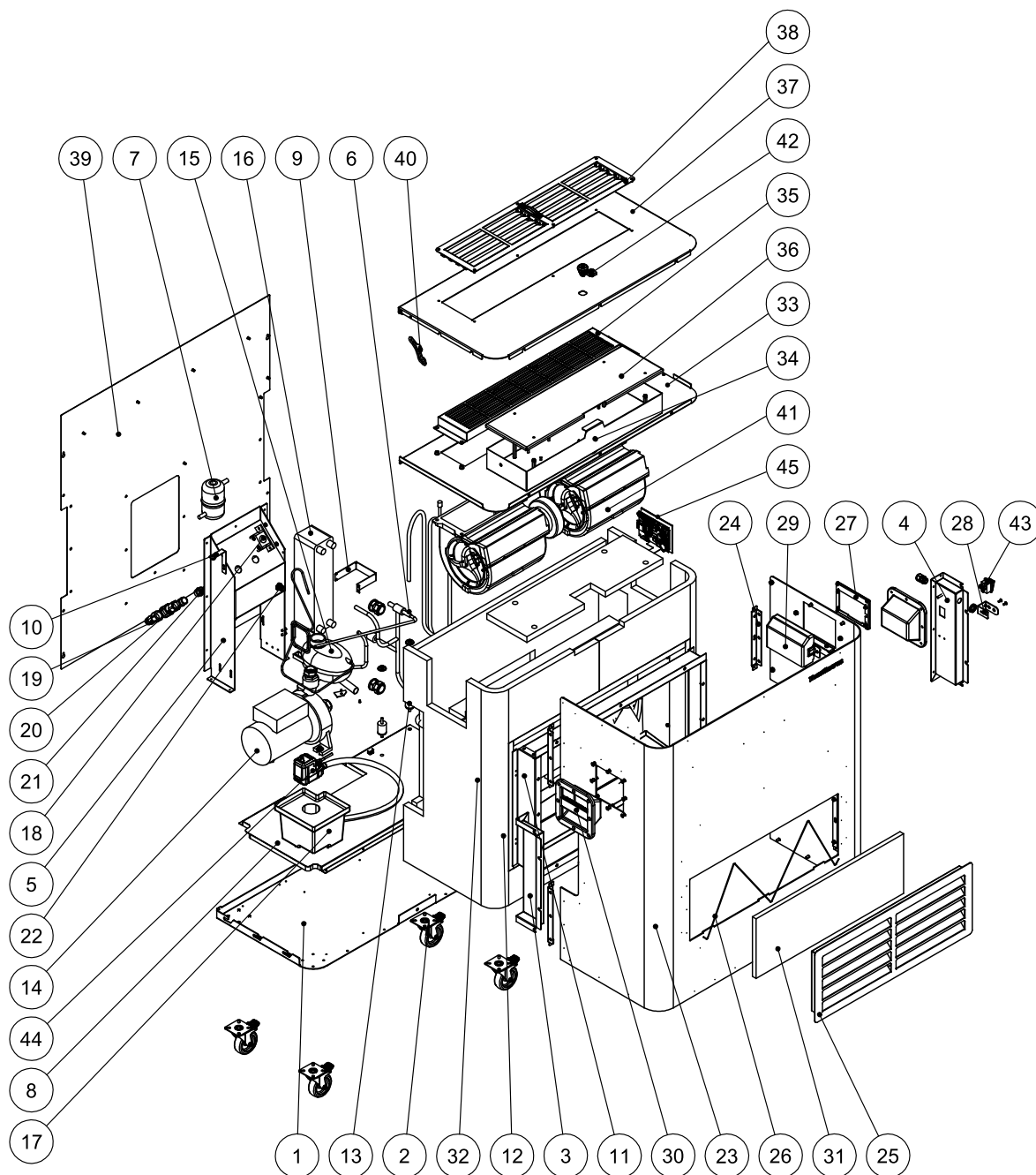






**Overview and list  
of spare parts  
basic device**

**Note:** The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.

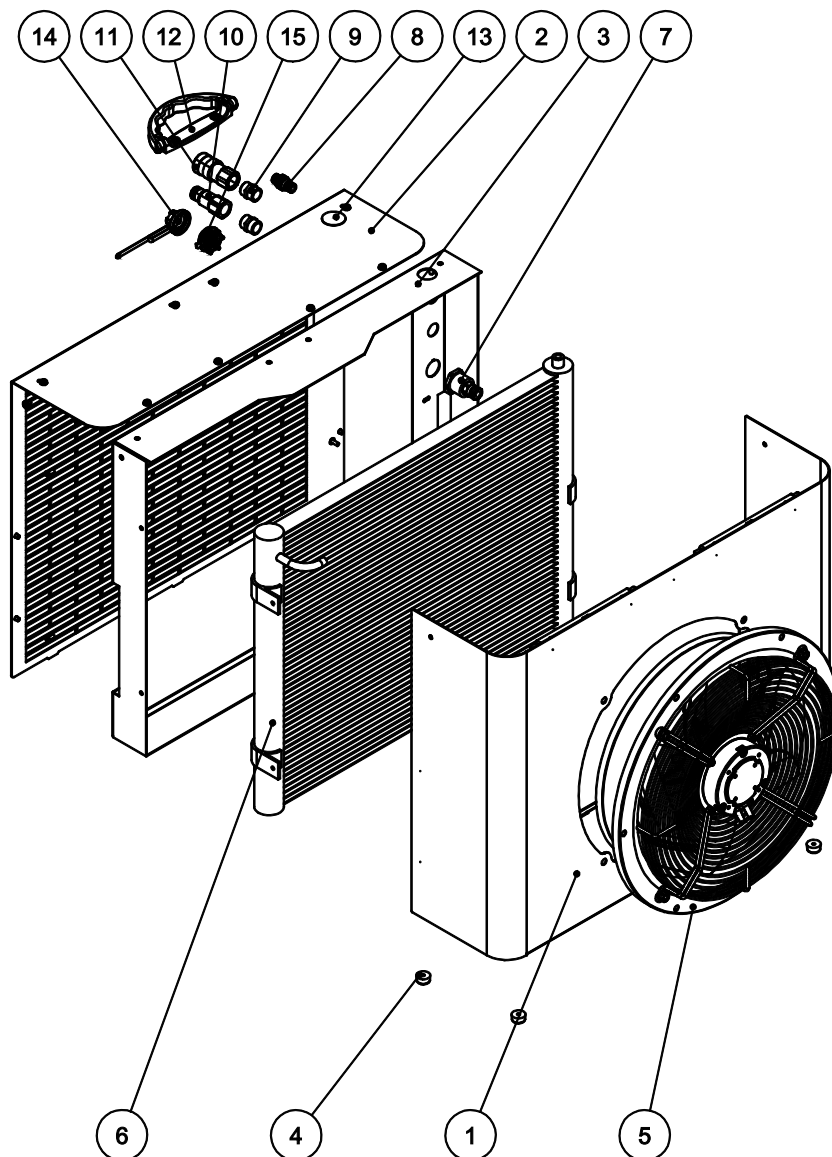


No.	Quantity	Designation	Article number
1	1	Bottom	P10008704
2	4	Wheel	P10001530
3	1	Side panel	P10008710
4	1	Side panel	P10008827
5	1	Connection plate	P10008705
6	1	Compressor	P10008401
7	1	Receiver	P10008755
8	1	Bottom panel	P10008706
9	1	Bracket	P10008707
10	1	Receiver holder	P10008786
11	1	Retaining plate	P10008743
12	1	Condensate drain	P10008723
13	3	Rubber buffer	P10008783
14	1	Pump	P10008733
15	1	Compensation tank	P10008754
16	1	Heat exchanger	P10008400
17	1	Condensation tray	P10008756
18	1	Pipe clamp	P10008217
19	1	Quick coupling	P10008773
20	1	Quick coupling	P10008772
21	2	Double threaded nipple	P10008829
22	1	Bulkhead connector	T10004014
23	1	Outer wall	P10008709
24	11	Angle sheet	P10008742
25	1	Air grille	P10008711
26	1	Filter retainer AC 7000	P10008845
27	1	Display frame, embedded	P10008757
28	1	Cable holder	P10008791
29	1	Cover TP1	P10008879
30	2	Handle	P10008843
31	1	Filter	P10008846
32	1	Evaporator	P10008758
33	1	Intermediate plate	P10008712
34	1	Electrical box	P10008713
35	1	Finger protection	P10008792
36	1	Cover	P10008851
37	1	Air outlet	P10008714
38	1	Air outlet frame	P10008715
39	1	Rear wall	P10008722
40	1	Air outlet holder	P10008771
41	1	Fan	P10006328
42	1	Lock	P10008826
43	1	Rocker switch	P10008006
44	1	Condensate pump	P10008729

No.	Quantity	Designation	Article number
45	1	Display TP1 with CR2032 buffer battery	Display (without buffer battery): P10007764
-	1	Mains connection cable with plug (not shown in the exploded assembly drawing)	P10007750

**Overview and list of spare parts outdoor unit**

**Note:** The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.

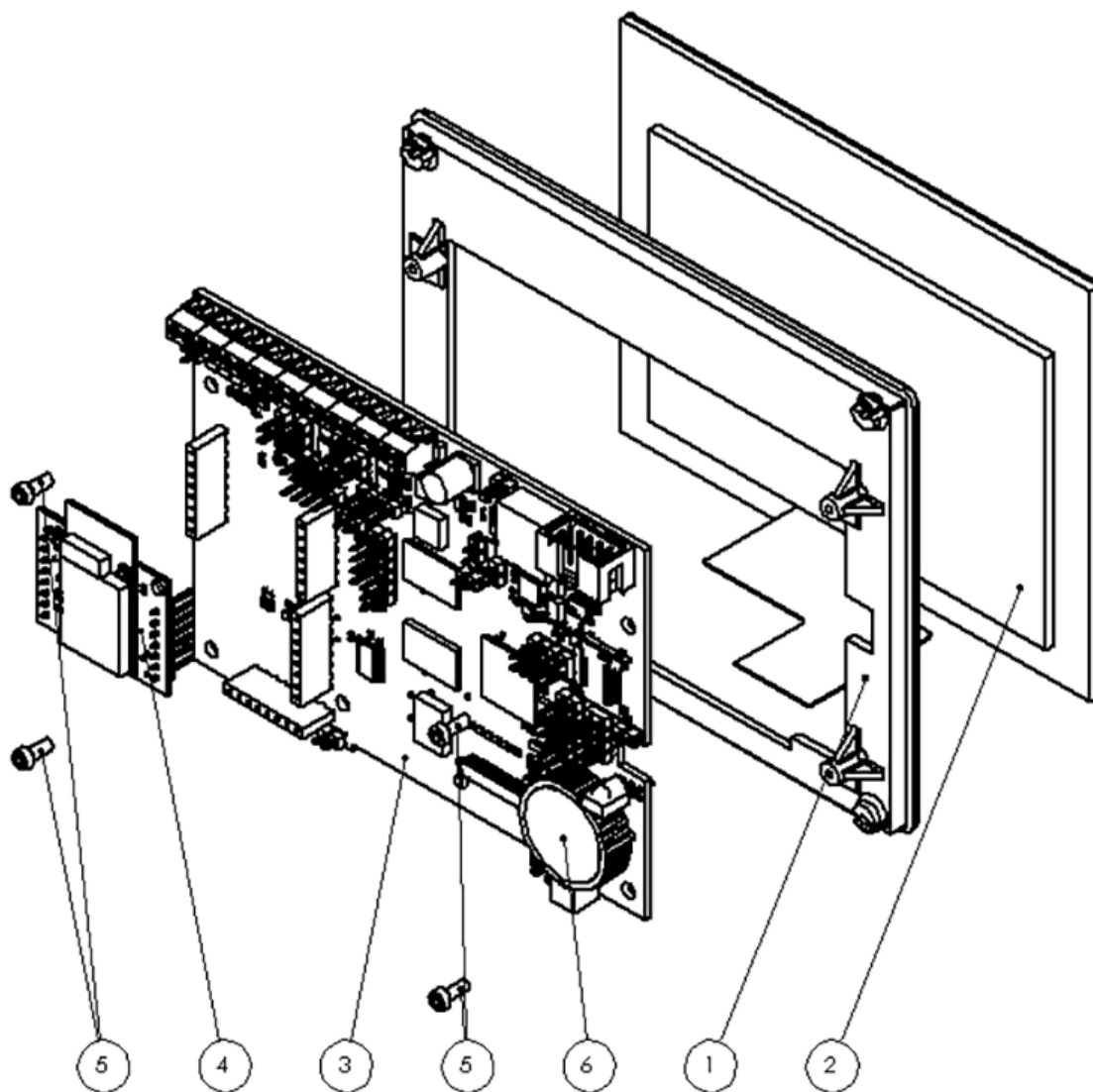


No.	Quantity	Designation	Article number
1	1	Outer wall	P10008725
2	1	Rear wall	P10008726
3	1	Partition wall	P10008727
4	4	Rubber buffer	P10000501
5	1	Fan	P10008740
6	1	Radiator	P10008759
7	1	Screw cap	P10008788
8	2	Bulkhead connector	T10004014
9	4	Double threaded nipple	P10008829
10	2	Quick coupling	P10008773
11	2	Quick coupling	P10008772
12	1	Handle	P10001246
13	1	Hole plug	P10001676
14	1	Built-in connector	P10008673
15	1	Cap	P10000511

**Buffer battery and display**

**Note:** The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.

**Note:** The buffer battery may only be replaced by a qualified electrician. Contact the relevant personnel or the manufacturer in this case.



No.	Quantity	Designation	Article number
1	1	Display frame, embedded (T0007716)	P10008757
2	1	Display (TFT DVT-043T-JT-R9T-P7)	P10007764
3	1	Printed circuit board (e-mainboard)	P10002358
4	1	Printed circuit board (radio module PCB ESP32-Mod)	P10007825
5	4	Screw (Liko Torx Plasfast 2.5x6 galvanised)	P10007290
6	1	Battery (CR2032)	-

## Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.

You are responsible for deleting personal data from the device that is to be disposed of.



The icon with the crossed-out waste bin on waste electrical or electronic equipment is taken from Directive 2012/19/EU. It states that this device must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

Dispose of the water / glycol mixture according to the national regulations.



In the European Union, batteries and accumulators must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.

### Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) and the Waste Batteries and Accumulators Regulations 2009 (SI 2009/890) (as amended), devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

## ORIGINAL EU Declaration of Conformity

(EU Declaration of Conformity of the machinery)  
according to 2006/42/EC, Annex II, part 1, section A

Original EU Declaration of Conformity of the machinery no.:  
**AC7000-202406-001**

1.	Machinery:	Air-conditioning unit (monobloc system with heat exchanger)
2.	Manufacturer:	Trotec GmbH Grebbeener Str. 7 DE – 52525 Heinsberg <a href="mailto:info@trotec.de">info@trotec.de</a>
3.	./.	./.
4.	This Declaration of Conformity is issued under the sole responsibility of the manufacturer.	
5.	Object of the declaration:	Dantherm AC 7000 Year of construction: from 2024
6.	The object of declaration referred to in point 5 is in conformity with the following Union harmonization legislation:	<ul style="list-style-type: none"> <li>• 2006/42/EC</li> <li>• 2014/53/EU</li> <li>• 2011/65/EU</li> </ul>
7.	Applied harmonized standards:	<ul style="list-style-type: none"> <li>• EN ISO 12100:2010 (OJ 08/04/2011)</li> <li>• EN IEC 63000:2018 (OJ 18/05/2020)</li> <li>• EN ISO 13857:2019 (OJ 03/03/2021)</li> <li>• EN 60335-1:2012 (OJ 13/04/2022)</li> <li style="padding-left: 20px;">EN 60335-1:2012/AC:2014</li> <li style="padding-left: 20px;">EN 60335-1:2012/A11:2014</li> <li style="padding-left: 20px;">EN 60335-1:2012/A13:2017</li> <li style="padding-left: 20px;">EN 60335-1:2012/A15:2021</li> <li>• EN 60335-2-40:2003 (OJ 28/11/2013)</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/A11:2004</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/A12:2005</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/A1:2006</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/A13:2012/AC:2013</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/A13:2012</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/A2:2009</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/AC:2006</li> <li style="padding-left: 20px;">EN 60335-2-40:2003/AC:2010</li> <li>• EN 300 328 V2.2.2 (OJ 06/02/2020)</li> </ul>
	Applied common specifications:	<ul style="list-style-type: none"> <li>• ./.</li> </ul>
	Other applied standards and specifications:	<ul style="list-style-type: none"> <li>• 2012/19/EU</li> <li>• EU 2023/1542</li> <li>• 2006/66/EC</li> <li>• EC 1907/2006</li> </ul>
8.	./.	./.
9.	The machinery is subject to the conformity assessment procedure based on internal production control.	





10.	Additional information:	The machinery fulfils all the relevant provisions of the EU-Directive 2006/42/EC.  Authorized person to compile the technical file: Trotec GmbH Grebener Str. 7 DE – 52525 Heinsberg
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Signed for and on behalf of:

Trotec GmbH  
Grebener Str. 7  
DE – 52525 Heinsberg

Heinsberg, 11.06.2024

Joachim Ludwig  
Managing Director

(name, function)

(signature)

**Dantherm Group**

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Dantherm can accept no responsibility for possible errors and changes (en)

Der tages forbehold for trykfejl og ændringer (da)

Irrtümer und Änderungen vorbehalten (de)

Dantherm n'assume aucune responsabilité pour erreurs et modifications éventuelles (fr)

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