

PAC 3500 S / PAC 3800 S / PAC 3810 S

EN

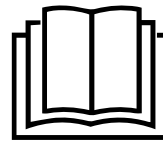
OPERATING MANUAL
LOCAL AIR CONDITIONER



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



PAC 3500 S

<https://hub.trotec.com/?id=44447>



PAC 3800 S

<https://hub.trotec.com/?id=44450>



PAC 3810 S

<https://hub.trotec.com/?id=44451>

Notes regarding the operating manual

Symbols



Danger

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



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.

Note

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 operating manual must be observed.

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.
- Only put up the device in an upright, stable position on firm ground.
- 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 or transport the device during operation.
- Do not sit on the device.
- This appliance is not a toy! Keep away from children and animals. Do not leave the device unattended during operation.
- 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 electrical connection must correspond to the specifications in chapter Technical data.
- Insert the mains plug into a properly secured 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 supply cord 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!
- 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 data chapter.
- 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.
- Make sure that the suction side is kept free of dirt and loose objects.
- Only transport the device in an upright position with an emptied condensation tray or drain hose.
- Discharge the collected condensate before transport and storage. Do not drink it. Health hazard!
- Do not insert rechargeable batteries into the remote control.



Safety warnings for devices containing flammable refrigerants

- 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).
- Please note that the refrigerant is odourless.
- Only install the device in compliance with the national installation regulations.
- Observe the national gas regulations.
- Only install, operate and store the device PAC 3500 S / PAC 3800 S / PAC 3810 S in a room measuring more than 10 m².
- Store the device in a way that no mechanical damage can occur.
- Please note that the connected pipelines must not contain any sources of ignition.
- R290 is a refrigerant that complies with European environmental regulations. No part of the cooling circuit may be perforated.

- Observe the maximum refrigerant capacity in the technical data.
- Do not drill through or burn.
- Do not use any means other than those recommended by the manufacturer for accelerating the defrosting process.
- 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.
- 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.
- 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 Trotec.

Intended use

Only use the device for cooling, ventilating and dehumidifying indoor air whilst adhering to the technical data.

Improper use

- 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 device outdoors.

- Any unauthorised modifications, such as alterations or structural changes to the device, are forbidden.
- Any operation other than as described in this manual is prohibited. Non-observance renders all claims for liability and guarantee null and void.

Personnel qualifications

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 operating manual, 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 Trotec.

Safety signs and labels on the device

Note

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:

PAC 3500 S / PAC 3800 S / PAC 3810 S

WARNING • WARNUNG • ATTENTION

DE Das Gerät muss in einem Raum mit einer Grundfläche größer als 10 m² aufgestellt, betrieben und gelagert werden.

EN Appliance shall be installed, operated and stored in a room with floor area larger than 10 m².

FR L'appareil doit être installé, utilisé et entreposé dans une pièce avec une surface supérieure à 10 m².





Follow the manual

This symbol indicates that the operating manual 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.

!!! ACHTUNG !!!

1. Vor Inbetriebnahme MIND. 12 STUNDEN aufrecht und still stehen lassen! Das schützt den Kompressor, verlängert die Lebensdauer erheblich und verhindert so einen Verlust der Kühlleistung.
2. Das Klimagerät muss immer BESONDERS VORSICHTIG auf den Boden gestellt werden! Ansonsten können Mikrorisse in der Bodenplatte und der Kondensatwanne entstehen, was dazu führt, dass Kondenswasser auf den Boden tropft.

Für Schäden, die durch unsachgemäßen Gebrauch entstehen, übernehmen wir KEINE GEWÄHRLEISTUNG!

!!! WARNING !!!

1. Before operation, stand upright and rest for MIN 12 HOURS! This protects the compressor, greatly extending its life and preventing loss of cooling performance.
2. The air conditioner must always be placed on the floor with CAUTION! Otherwise, microcracks may form in the bottom plate and the condensate pan, causing condensation to drip onto the floor.

For damages caused by improper use, WARRANTY WILL BE NULL AND VOID!

!!! ATTENTION !!!

1. Avant la mise en service, laisser immobile en position verticale PENDANT AU MOINS 12 HEURES ! Cela protège le compresseur, prolonge sensiblement la durée de vie et évite ainsi une diminution des performances de refroidissement.
2. Le climatiseur doit toujours être posé sur le sol AVEC LES PLUS GRANDES PRÉCAUTIONS ! Sinon, des micro-fissures risquent de se former dans le socle ou le bac de récupération de l'eau de condensation, ce qui entraînerait que cette dernière coule sur le sol.

Toute utilisation incorrecte ou non conforme entraîne L'EXTINCTION DE LA GARANTIE !

Residual risks



Danger

Natural refrigerant propane (R290)!

H220 – Extremely 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.

P410+P403 – Protect from 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!

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.

Note

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 off the device.
2. In an emergency, disconnect the device from the mains feed-in: 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 serves the purpose of cooling the room air. It further filters and dehumidifies the air thus creating an agreeable room climate.

The unit cools the room air by withdrawing warmth. The absorbed warmth is emitted to the outside via the exhaust air hose; cooled air is fed to the installation site by means of a fan.

Accumulating condensate drips from the evaporator onto the hot condenser, there it evaporates and then is transported to the outside via the exhaust air hose.

In *ventilation* mode the device provides the opportunity of air circulation without cooling effect.

In *dehumidification* mode moisture is withdrawn from the air.

The device operates fully automatically and features a variety of further options. The device can, for instance, be switched on or off automatically with time delay via the timer function.

Operation of the device is possible either via the control panel at the device or via the supplied infrared remote control.

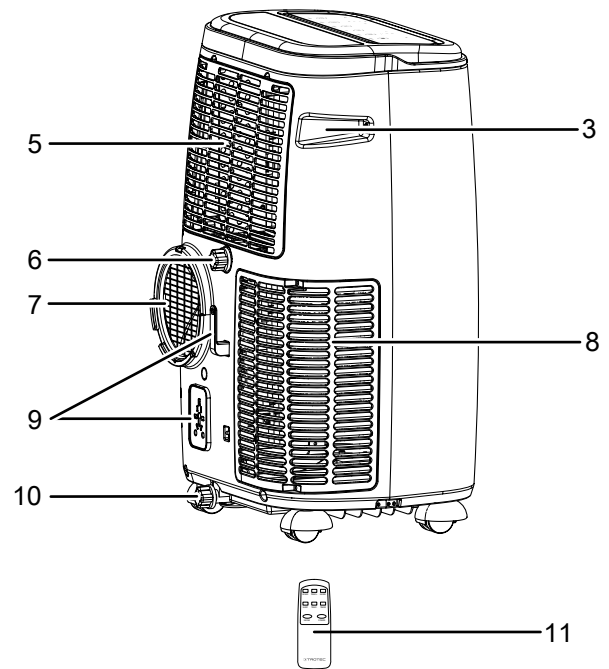
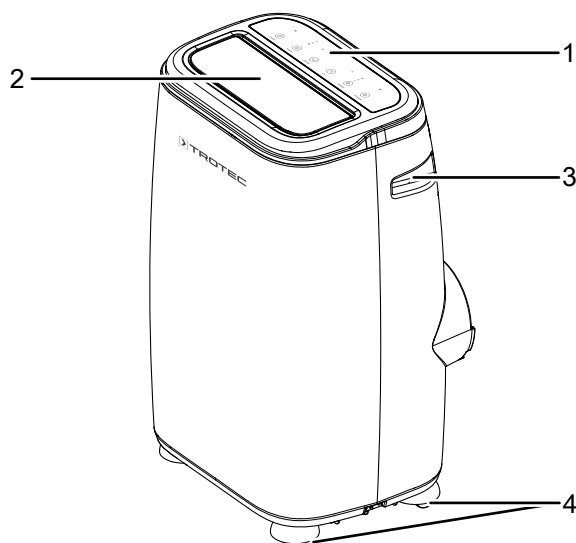
The device was designed for universal and flexible application.

Due to its compact dimensions it can be easily transported and used in all interior spaces.

The functioning of the three devices is identical, they differ in their performance and their colour:

- PAC 3500 S with 3.5 kW and white housing
- PAC 3800 S with 3.8 kW and white housing
- PAC 3810 S with 3.8 kW and silver housing

Device depiction



No.	Designation
1	Control panel
2	Air outlet
3	Transport handle
4	Wheels
5	Air inlet with air filter
6	Hose connection with rubber stopper (<i>dehumidification</i> mode)
7	Exhaust air hose connection
8	Air inlet
9	Power cable holder
10	Condensate outlet with sealing cap
11	Remote control

Transport and storage

Note

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

Note the information regarding transport and storage of the device.

Transport

To make the device easier to transport, it is fitted with wheels.

To make the device easier to transport, it is fitted with a carry handle.

Before transporting the device, observe the following:

- Switch off the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Drain the remaining condensate from the device.
- Do not use the power cable to drag the device.
- Only wheel the device on a level and smooth surface.

After transporting the device, observe the following:

- Set up the device in an upright position after transport.
- Leave the device to rest for at least 12 hours, so the refrigerant can accumulate within the compressor. Wait 12 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.

Storage

Before storing the device, observe the following:

- 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 10 m².
- 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).
- dry and protected from frost and heat
- in an upright position where it is protected from dust and direct sunlight
- with a cover to protect it from invasive dust, if necessary
- Place no further devices or objects on top of the device to prevent it from being damaged.
- Remove batteries from the remote control.

Assembly and installation

Scope of delivery

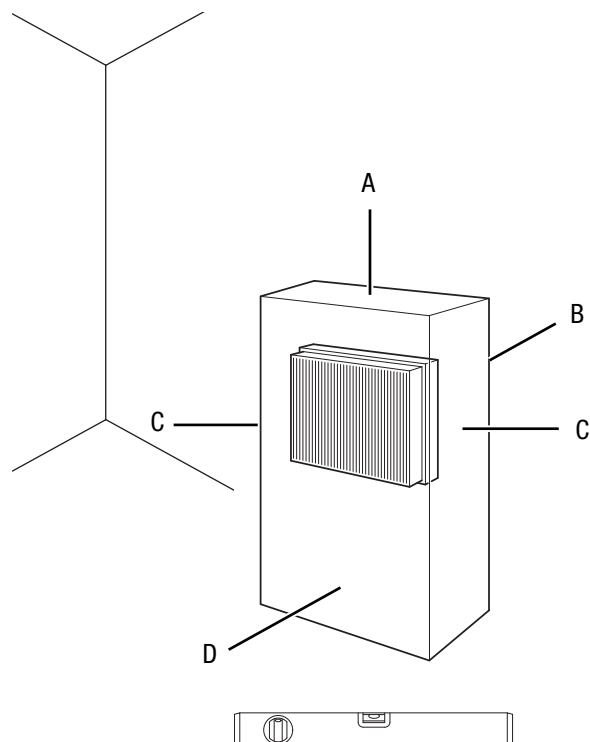
- 1 x Device
- 1 x Exhaust air hose
- 1 x Hose adapter
- 1 x Hose connector
- 1 x Remote control
- 1 x Manual

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.



- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- 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).

- Only put up the device in an upright, stable position on firm ground.
- 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.

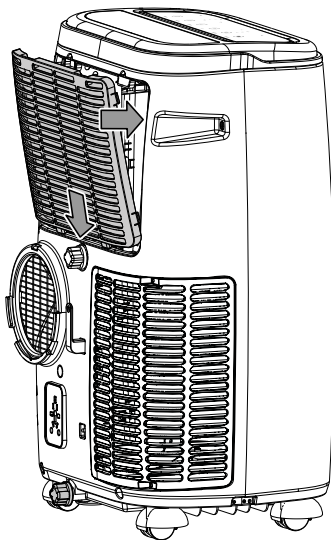
Prior to initial start-up, insert batteries in the remote control.

Inserting the air filter

Note

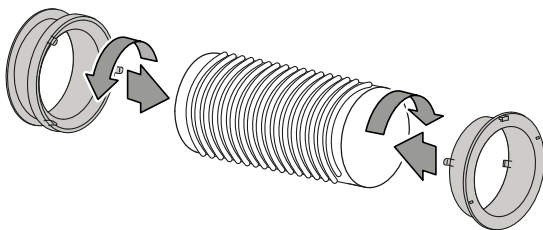
Do not operate the device without an inserted air filter! Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

- Make sure that the air filter is installed before switching the device on.

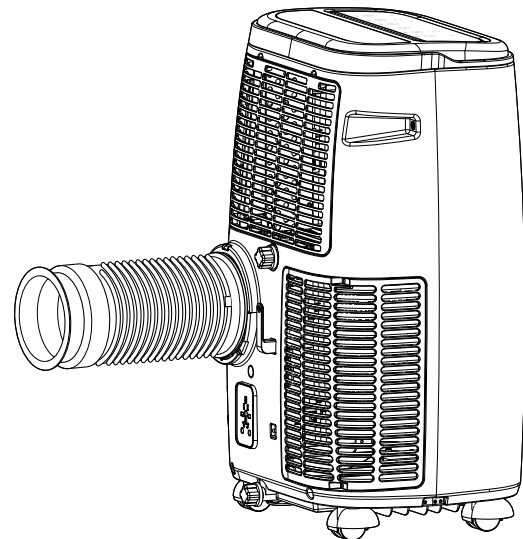
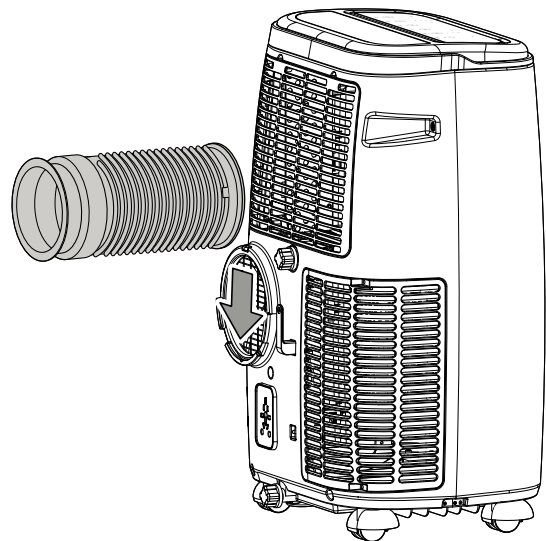


Connecting the exhaust air hose

1. Connect the hose adapter and the hose connector to one end of the exhaust air hose each.



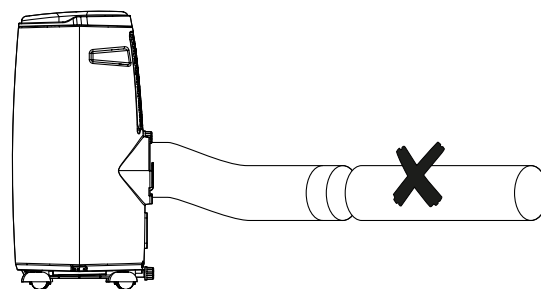
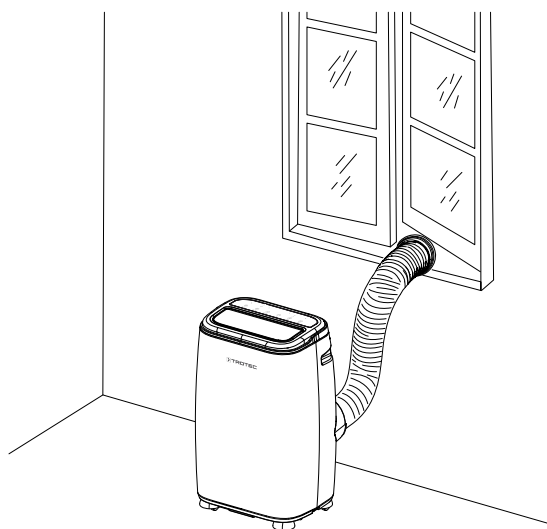
2. Connect the suitable end of the exhaust air hose to the exhaust air hose connection (7) located at the device.



Discharging exhaust air

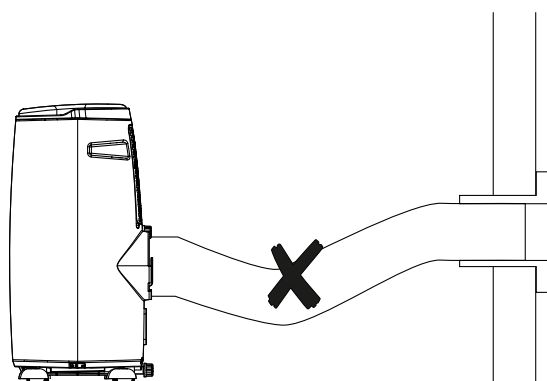
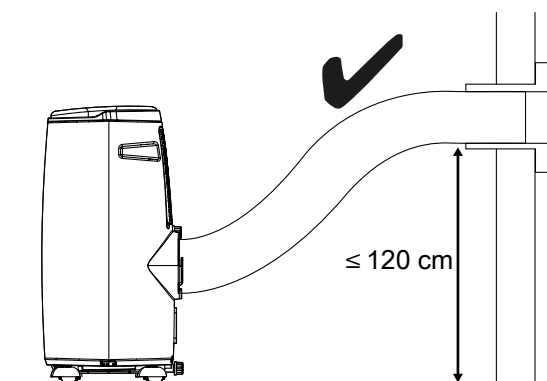
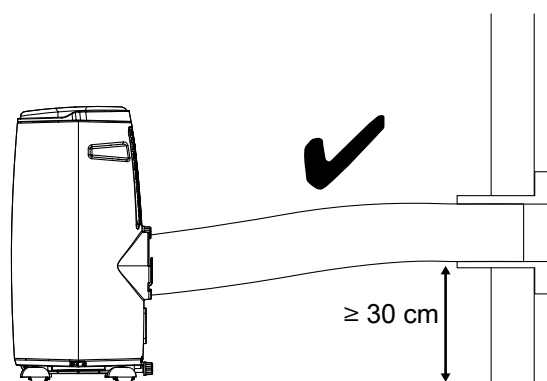
- The exhaust air coming from the device contains waste heat from the room to be cooled. For this reason it is recommended to discharge the exhaust air to the outside.
- The end of the exhaust air hose can be fed through the open window. If required, secure the open window with the corresponding means, so that the end of the exhaust air hose cannot shift.
- The end of the exhaust air hose can also be hooked into a tilted window.
For this purpose, we recommend using a window seal (optional).
- Install the exhaust air hose inclined with the air direction.
- The connected hose must not contain any source of ignition.

Example with exhaust air hose:



- Avoid kinks in the exhaust air hose. Kinks and bends would lead to an accumulation of emitted humid air causing the device to overheat and shut down.
- The dimensions of the exhaust air hose were especially made to fit the device. Do not replace or extend the hose. This could cause a malfunction of the device.

For installing the exhaust air hose please observe the following:



Connecting the power cable

- Insert the mains plug into a properly secured mains power socket.



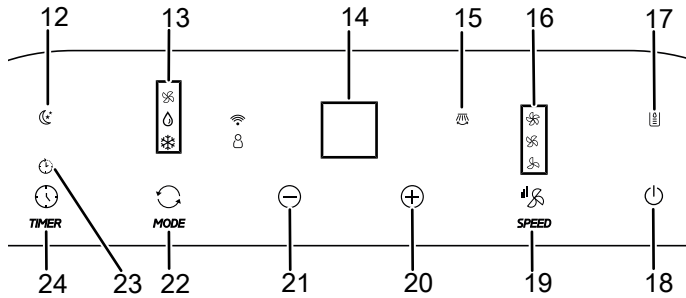
Info

An acoustic signal will be emitted; the device is now in standby mode.

Operation

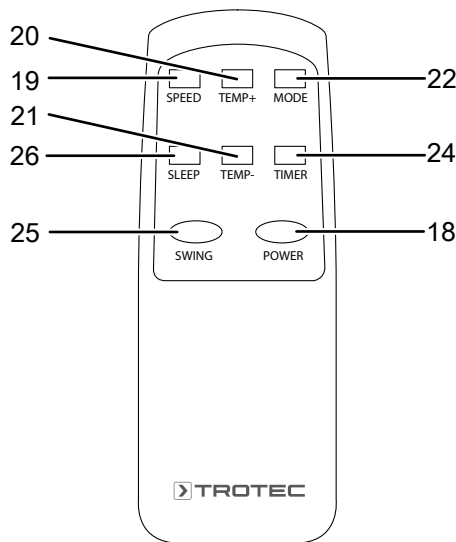
- Avoid open doors and windows.

Operating elements



Remote control

All settings of the device can also be made using the remote control included in the scope of delivery.



No.	Designation	Meaning
12	<i>Sleep</i> LED	Illuminated when <i>night mode</i> is activated.
13	<i>Operating mode</i> LEDs	Indicates the selected operating mode: * = cooling ◊ = dehumidification ⌘ = ventilation
14	Segment display	Indication of the current room temperature Indication of the target temperature Indication of the number of hours during timer programming Indication of the error code, see chapter Errors and faults
15	<i>Swing function</i> LED	Illuminated when swing function is activated

No.	Designation	Meaning
16	<i>Fan speed</i> LEDs	Fan speed indication: ⌘ Stage 1 = low ⌘ Stage 2 = high ⌘ Stage 3 = maximum
17	<i>Tank Full</i> LED	Empty condensation tray indication
18	<i>POWER</i> button	For switching the device on or off
19	<i>SPEED</i> button	For setting the fan speed
20	<i>UP</i> button	For increasing the target temperature (16 °C to 31 °C) for cooling For increasing the number of hours when programming the timer
21	<i>DOWN</i> button	For reducing the target temperature (16 °C to 31 °C) for cooling For reducing the number of hours when programming the timer
22	<i>MODE</i> button	Selecting the operating mode: * = cooling ◊ = dehumidification ⌘ = ventilation
23	<i>Timer</i> LED	Illuminated when the timer is activated.
24	<i>TIMER</i> button	Switching the timer functions on or off
25	<i>SWING</i> button (remote control only)	Switching the swing function on or off
26	<i>SLEEP</i> button (remote control only)	For switching night mode on or off

Switching the device on

1. Allow the device to rest for a time.
2. Once you have completely installed the device as described in the Start-up chapter, you can switch it on.
3. Press the *POWER* button (18).
⇒ The device starts in cooling mode.
⇒ The *cooling* LED (13) is illuminated.
⇒ The *fan speed* LED (16) is illuminated.
⇒ The air outlet (2) opens automatically.
4. Select the desired operating mode.

The device switches off automatically when the condensation tray is full. *E2* is displayed on the segment display (14) and the *tank full* LED (17) is illuminated.

Setting the operating mode

- cooling
- dehumidification
- ventilation

Cooling

In *cooling* mode the room will be cooled down to the desired target temperature.

1. Press the **MODE** button (22) until the *cooling* LED (13) is illuminated.
2. Repeatedly press the **DOWN** (21) or **UP** (20) button to select the desired target temperature. The temperature can be adjusted in increments of 1 °C in a range between 16 °C and 31 °C.
 - ⇒ The desired target temperature is indicated on the segment display (14).
3. Press the **SPEED** button (19) to set the desired fan stage.
 - ⇒ The *fan speed* LED (16) for the desired fan stage will be illuminated.
 - ⇒ The *cooling* LED (13) will be illuminated to indicate *cooling* mode.

Dehumidification

In *dehumidification* mode the humidity level in the room is reduced.

The temperature cannot be adjusted and the fan runs at the lowest speed level.



Info

Remove the exhaust air hose during *dehumidification*, otherwise the performance will be insufficient.

1. Press the **MODE** button (22) until the *dehumidification* LED (13) is illuminated.
 - ⇒ *Dehumidification* mode is selected.
 - ⇒ The temperature and the fan speed (stage 1) are preset in this operating mode and cannot be changed.
 - ⇒ The current room temperature is indicated on the segment display (14).



Info

If the device is operated in a very humid environment, the accumulating condensate must be discharged at regular intervals (see chapter Condensate discharge).



Info

If you use the device for an extended period of time or you don't want to empty the tank all the time, you can connect a suitable hose to the hose connection (6). Guide the other hose end to a suitable drain or sufficiently dimensioned collection container. To ensure that the condensate can run off, the hose must not be kinked, nor should it have to overcome an uphill incline towards the drain.

ventilation



Info

Remove the exhaust air hose during *ventilation*.

In *ventilation* mode the room air is circulated, it will neither be cooled nor dehumidified.

1. Press the **MODE** button (22) until the LED for *ventilation* (13) lights up.
2. Press the **SPEED** button (19) to set the desired fan speed.
 - ⇒ The LED for the selected fan speed (16) will be illuminated.

Setting the timer

The timer has two modes of operation:

- automatic switch-on upon expiry of a preset number of hours
- automatic switch-off upon expiry of a preset number of hours

The timer can be programmed in increments of 1 hour (1 h to 24 h).

The function can be set in all operating modes. It can be activated both during operation and in standby mode.

Note

Do not leave the operating device unattended in a freely accessible room with an activated timer.

Automatic switch-on

✓ The device is switched off.

1. Press the **TIMER** button (24).
 - ⇒ The **TIMER** LED (23) is illuminated.
 - ⇒ The number of hours flashes on the segment display (14) for approx. 10 s.
2. Repeatedly press the **UP** (20) or **DOWN** (21) button to select the desired number of hours until automatic switch-on.
 - ⇒ After the predefined time, the device switches itself on.
3. Press the **TIMER** button (24) to confirm the setting.
 - ⇒ The segment display (14) continuously indicates the number of hours until automatic switch-on.
 - ⇒ After the predefined time, the device switches itself on.
4. In order to delete the setting, press the **TIMER** button (24) again.
 - ⇒ The **TIMER** LED (23) goes out.

Notes regarding automatic switch-on:

- If the device is disconnected from the power supply, all settings for automatic switch-on are deleted.
- Manually switching the device on disables the automatic switch-on function.

Automatic switch-off

- ✓ The device is switched on.
- 1. Press the *TIMER* button (24).
 - ⇒ The *TIMER* LED (23) is illuminated.
 - ⇒ The number of hours flashes on the segment display (14) for approx. 10 s.
- 2. Repeatedly press the *UP* (20) or *DOWN* (21) button to select the desired number of hours until automatic switch-off.
- 3. Press the *TIMER* button (24) to confirm the setting.
 - ⇒ The segment display (14) continuously indicates the number of hours until automatic switch-off.
 - ⇒ After the predefined time, the device switches itself off.
- 4. In order to delete the setting, press the *TIMER* button (24) again.
 - ⇒ The *TIMER* LED (23) goes out.

Notes regarding automatic switch-off:

- Pressing the *POWER* button (18) deactivates the automatic switch-off function.

Automatic defrost

At low ambient temperatures, ice may form at the evaporator. The device will then carry out an automatic defrost.

The compressor switches off and the fan keeps running until defrosting is completed. The duration of the defrost process can vary.

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

Night mode

The night mode can be activated when in *cooling* mode.

Night mode comes with the following settings:

- After 1 hour the preset temperature is increased by 1 °C. After another hour the preset temperature will again be increased by 1 °C.
- Temperature and fan speed cannot be changed in night mode.

To activate night mode, please proceed as follows:

1. Select *cooling* mode.
2. Press the *SLEEP* button (26) on the remote control.
 - ⇒ The *cooling* (13) and *sleep* LEDs (12) are illuminated.
3. In order to switch the night mode off, press the *SLEEP* button (26) once again.
 - ⇒ The *sleep* LED (12) turns off.
 - ⇒ The selected operating mode remains active.

Swing function

The swing function can be switched on in any operating mode if required.

By means of the swing function, the air outlet (2) is moved automatically and thus ensures continuous air circulation.

1. Press the *SWING* button (25) on the remote control.
 - ⇒ The ventilation flaps move up and down continuously.
2. Press the *SWING* button (25) again to stop the ventilation flap in a certain position and to switch off the swing function.

Changing the unit °C / °F

The temperature in the segment display (14) can be indicated in °C or °F.

Please proceed as follows to change the temperature unit:

1. Simultaneously press and hold the buttons *UP* (20) and *DOWN* (21) for approx. 3 s.
 - ⇒ The displayed temperature is converted to the other unit.

Memory function

After a power failure during operation the device will automatically be switched back on. The chosen operating mode settings will be saved, a possibly programmed timer will not.

Shutdown



Warning of electrical voltage

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

- Switch off the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Empty the condensation tray if necessary.
- If necessary, remove the condensation drain hose and any residual fluid from it.
- Clean the device according to the Maintenance chapter.
- Store the device according to the Storage chapter.

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.

The device does not start:

- Check the power connection.
- Check the power cable and mains plug for damages.
- Check the on-site fusing.
- Observe the operating temperature according to the Technical data chapter.
- The condensation tray may be full. Empty the condensation tray if necessary. The error code *E2* must not be indicated on the segment display and the *tank full* LED (17) must not be illuminated.
- Wait for 10 minutes before restarting the device. If the device is not starting, have the electrics checked by a specialist company or by Trotec.

The device works with reduced or no cooling capacity:

- Check whether *cooling* mode is selected.
- Check the proper fit of the exhaust air hose. In case of kinks, bends or blockage in the hose, exhaust air cannot be discharged. Clear the way for the exhaust air.
- Check the position of the ventilation flaps. They should be opened to the maximum.
- 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 whether any windows and/or doors of the room are open. If so, close them. One window has to remain open for the exhaust air hose nonetheless.
- 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:

- 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.
- Check whether the ambient temperature equals the target temperature (in *cooling* mode). The compressor will not switch on unless the respective temperature is reached.
- 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 performance:

- 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 Trotec.

The device does not respond to the infrared remote control:

- Check whether the distance between remote control and device is too large and reduce it if necessary.
- Make sure there are no obstacles, such as furniture or walls, between the device and the remote control. Ensure visual contact between device and remote control.
- Check the charging status of the batteries and change them if required.
- If the batteries have just been changed, check them for correct polarity.

Note

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

Your 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 Trotec for repair.

Error codes

The following error messages can be displayed on the segment display (14):

Error code	Cause	Remedy
E0	Error at the room temperature sensor	Disconnect the device briefly from the mains. Should the error still be displayed after the restart, please contact the customer service.
E1	Error at the temperature sensor of the condenser	Disconnect the device briefly from the mains. Should the error still be displayed after the restart, please contact the customer service.
E2	Condensation tray full	Empty the condensation tray. Should the error still be displayed, please contact the customer service.
E3	Error at the temperature sensor of the evaporator	Disconnect the device briefly from the mains. Should the error still be displayed after the restart, please contact the customer service.

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 inlets and outlets 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 attachment screws		X				X
Test run						X
Empty the condensation tray and drain hose		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																
Clean the exterior																
Visually check the inside of the device for dirt																
Check the air filter for dirt and foreign objects and clean or replace if necessary																
Replace the air filter																
Check for damage																
Check attachment screws																
Test run																
Empty the condensation tray and drain hose																
Comments																

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

Activities required before starting maintenance



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 housing to be opened must only be carried out by authorised specialist companies or by Trotec.

Refrigerant circuit



Danger

Natural refrigerant propane (R290)!

H220 – Extremely 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.

P410+P403 – Protect from 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 Trotec.

Safety signs and labels on the device

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

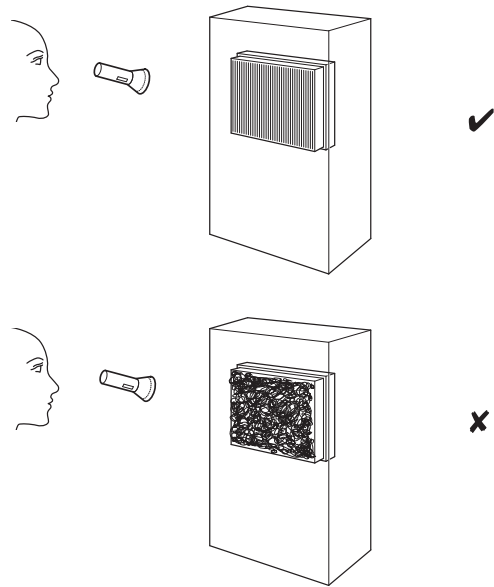
Cleaning the housing

Clean the housing with a soft, damp and lint-free cloth. Ensure 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 dust, have the inside of the device cleaned by a specialist company for cooling and air-conditioning or by Trotec.

5. Put the air filter back in.



Cleaning the air filter

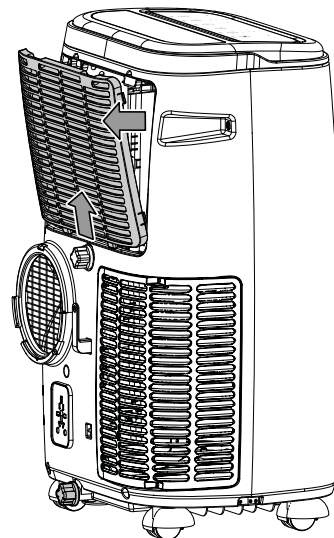
The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).



Warning

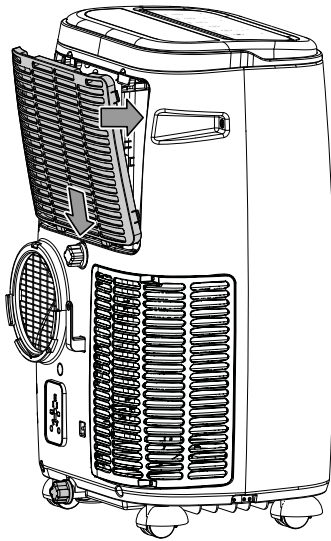
Ensure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry!

1. Remove the air filter from the device.



2. Clean the filter using a slightly damp, soft, lint-free cloth. If the filter is heavily contaminated, clean it with warm water mixed with a neutral cleaning agent.
3. Allow the filter to dry completely. Do not insert a wet filter into the device!

4. Reinsert the air filter into the device.



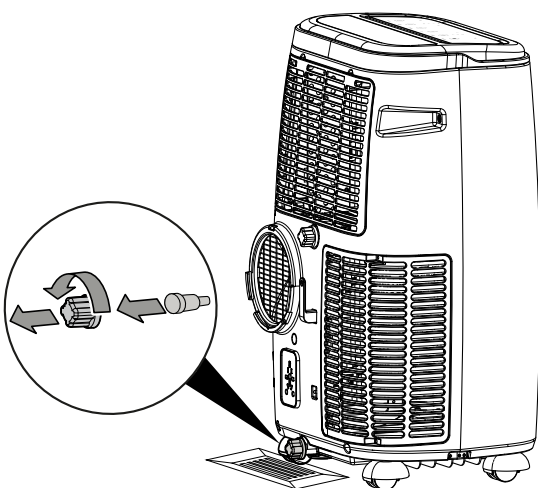
Condensate discharge (manual draining)

In *cooling* and *dehumidification* mode condensate is formed, which is mostly discharged via the exhaust air.

The remaining condensate is collected in a container within the housing. The condensate ought to be drained regularly.

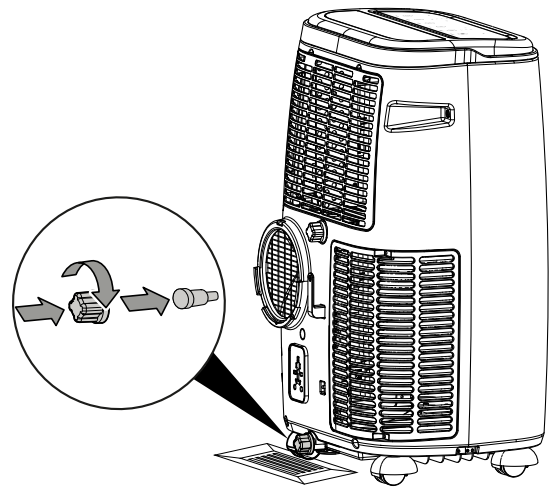
If too much condensate accumulates, the device switches off and indicates this via the *E2* error code on the segment display (14) and the *tank full* LED (17).

1. Carefully transport or wheel the device to a suitable location for discharging the condensate (e.g. a drain) or position a suitable collection container under the condensate outlet.
2. Remove sealing cap and rubber stopper from the condensate outlet.



3. Drain the condensate.

4. Reinsert the rubber stopper in the condensate outlet and reattach the sealing cap. Ensure the tight fit of the rubber stopper, for otherwise there might be uncontrolled water leakage.



⇒ The error code *E2* is no longer indicated on the segment display (14) and the *tank full* LED (17) will go out as soon as the condensate has been drained.

Activities required after maintenance

If you want to continue using the device:

- Leave the device to rest for at least 12 hours, so the refrigerant can accumulate within the compressor. Wait 12 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:

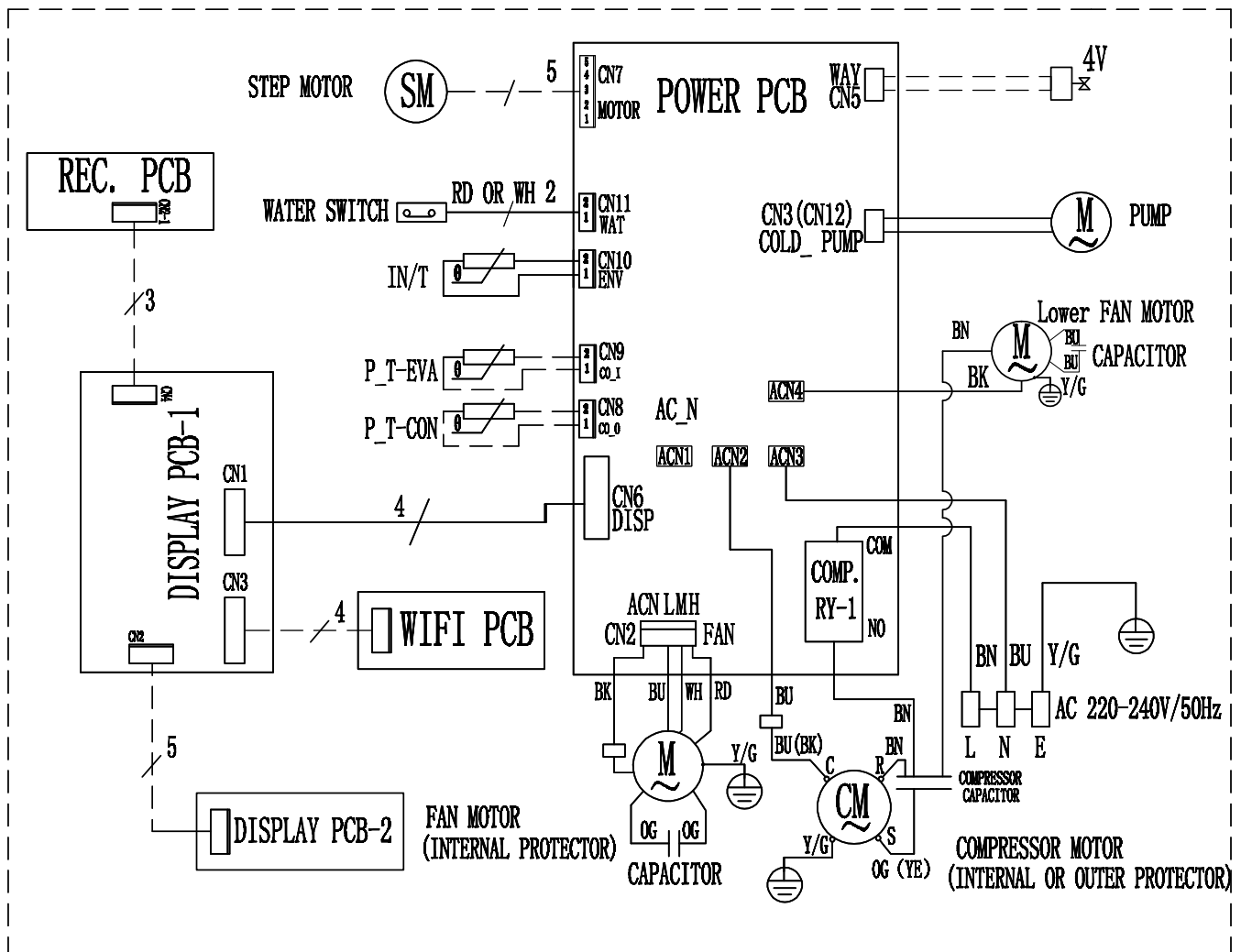
- Store the device according to the Storage chapter.

Technical annex

Technical data

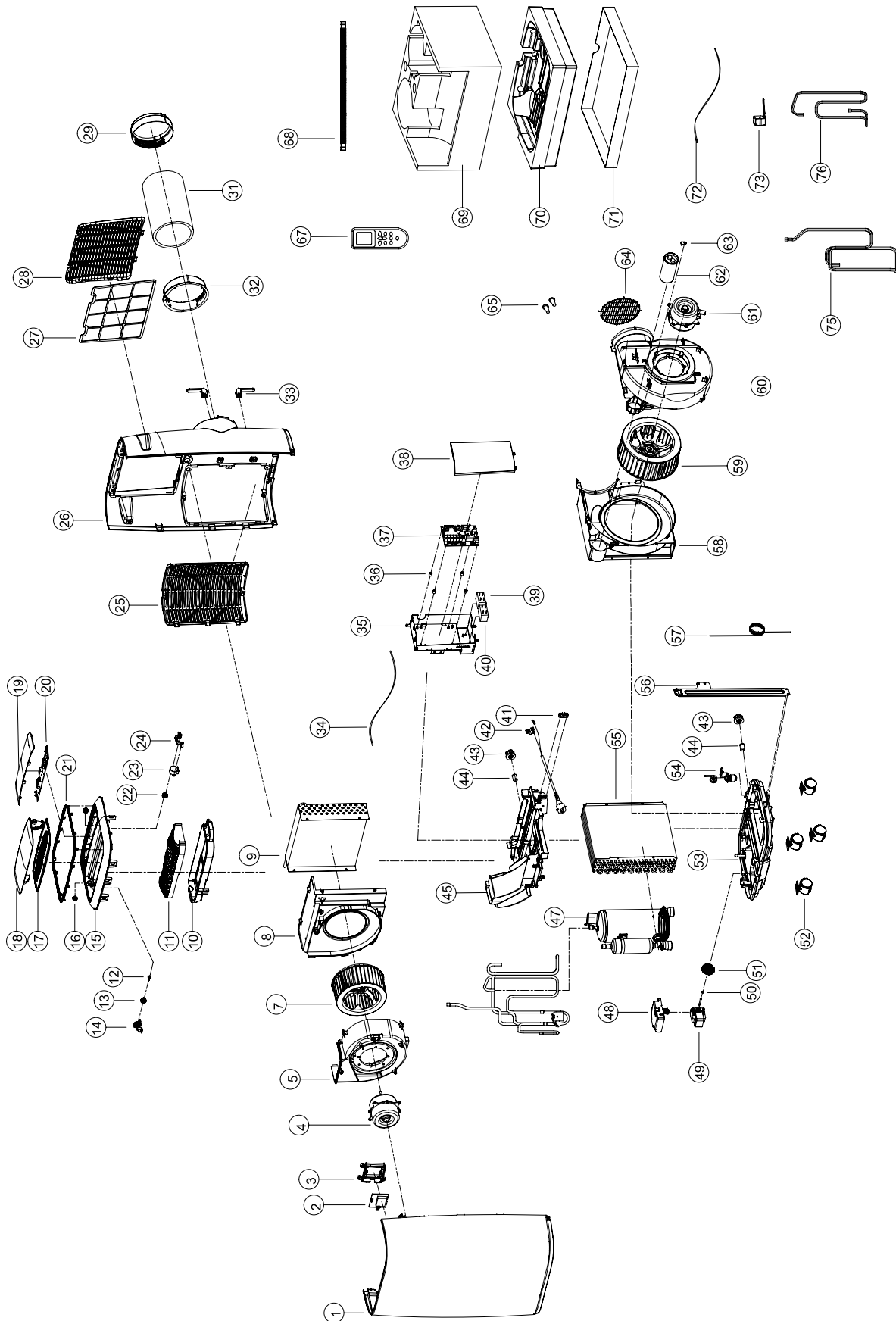
Model	PAC 3500 S	PAC 3800 S	PAC 3810 S
Cooling capacity	3.5 kW	3.8 kW	3.8 kW
Dehumidification performance	1.3 l/h	1.5 l/h	1.5 l/h
Operating temperature	16 °C to 35 °C	16 °C to 35 °C	16 °C to 35 °C
Temperature setting range	16 °C to 31 °C	16 °C to 31 °C	16 °C to 31 °C
Max. air volume flow	340 m³/h	450 m³/h	450 m³/h
Pressure suction side	1 MPa	1 MPa	1 MPa
Pressure outlet side	2.6 MPa	2.6 MPa	2.6 MPa
Max. permissible pressure	3.2 MPa	3.2 MPa	3.2 MPa
Mains connection	220 V – 240 V / 50 Hz	220 V – 240 V / 50 Hz	220 V – 240 V / 50 Hz
Nominal current	5.9 A	6.5 A	6.5 A
Power input (cooling operation)	1400 W	1461 W	1461 W
Sound pressure level at a distance of 1 m	54 dB(A)	55 dB(A)	55 dB(A)
Refrigerant	R290	R290	R290
Amount of refrigerant	226 g	226 g	226 g
GWP factor	3	3	3
CO ₂ equivalent	0.00068 t	0.00068 t	0.00068 t
Dimensions (length x width x height)	440 x 335 x 715 mm	440 x 335 x 715 mm	440 x 335 x 715 mm
Minimum distance to walls and other objects:			
top (A):	30 cm	30 cm	30 cm
rear (B):	30 cm	30 cm	30 cm
sides (C):	30 cm	30 cm	30 cm
front (D):	30 cm	30 cm	30 cm
Weight	30 kg	30 kg	30 kg
Remote control batteries	Type LR03 / AAA – 1.5 V	Type LR03 / AAA – 1.5 V	Type LR03 / AAA – 1.5 V

Circuit diagram – PAC 3500 S, PAC 3800 S, PAC 3810 S



Overview and lists of spare parts
PAC 3500 S / PAC 3800 S

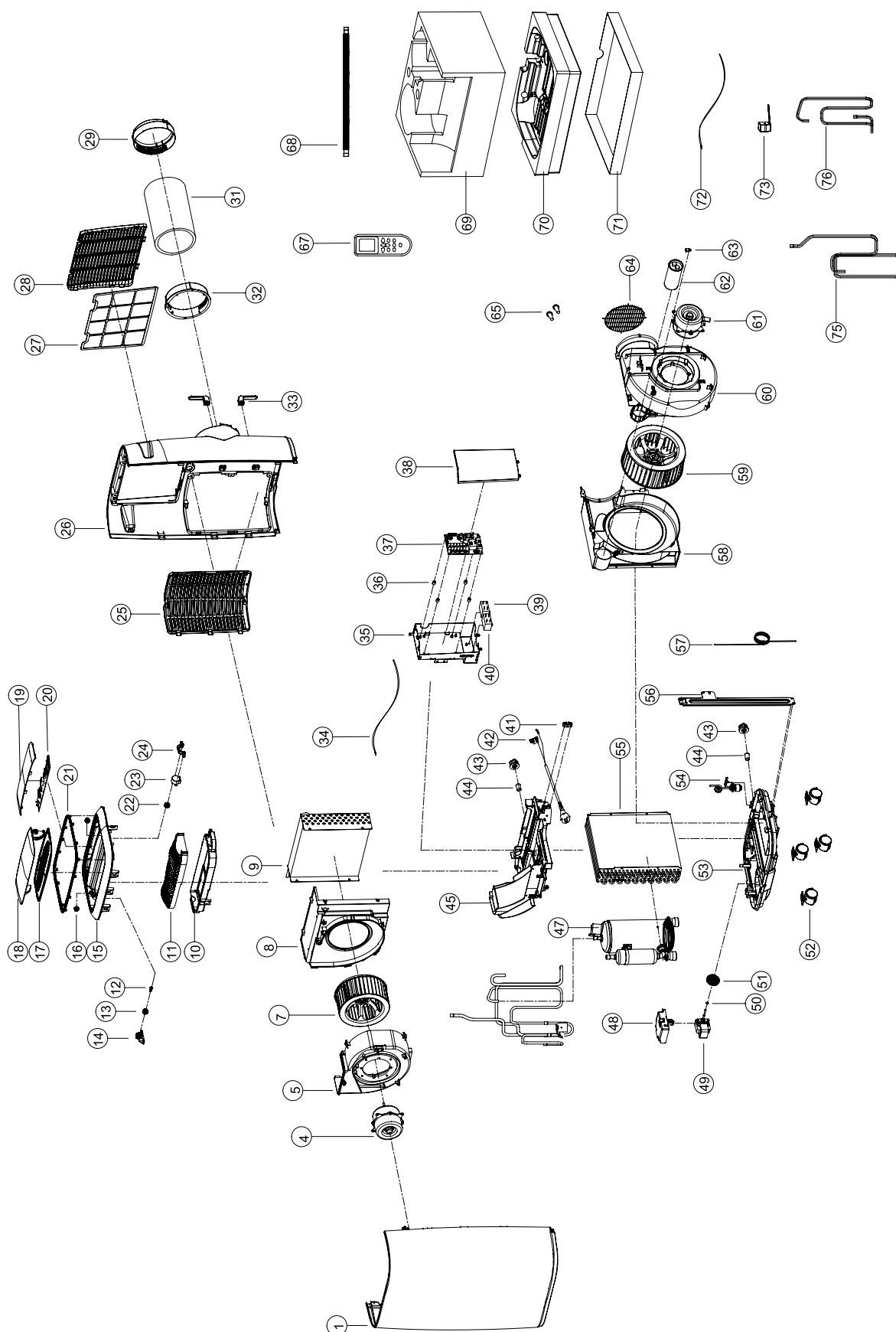
Note: The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.



No.	Spare part	No.	Spare part	No.	Spare part
1	Front Panel	26	Rear Panel	52	Castor
2	Hidden Display PCB	27	Air Filter	53	Base
3	Hidden Display Cover	28	Up Grille	54	Magnetic Switch
4	Evaporator Motor	29	Window Connector	55	Condenser
5	Up Front Volute	31	Exhaust Hose	56	Support
7	Evaporator Fan	32	Housing Adaptor	57	Capillary
8	Up Rear Volute	33	Wrapping Post	58	Low left Volute
9	Evaporator	34	Room Temp. Sensor	59	Condenser Fan
10	Up Air Outlet	35	Electric Box	60	Low Right Volute
11	Air Outlet Grille	36	Isolate Support	61	Condenser Motor
12	Gear screw	37	Power PCB	62	Compressor Capacitor
13	Auxiliary Gear	38	Electric Box Cover	63	Capacitor Fixed
14	Gear Support	39	Low Motor Capacitor	64	Air Outlet Grille
15	Top Cover	40	Up Motor Capacitor	65	Dowel
16	Axle Sleeve	41	Wire Clamp	67	Remote control
17	Inner Louver	42	Power Cord	68	Water Pipe
18	Outer Louver	43	Drain Nut	69	Up Package Foam
19	Display Panel	44	Water Stopper	70	Low Package Foam
20	Display PCB	45	Isolate Plate	71	Bottom bracket
21	Top Cover Plating Ring	47	Compressor	72	Tube Temp. Sensor
22	Main Gear	48	Splash Motor Box	74	Temp Sensor Support
23	Step Motor	49	Splash Motor	75	* Discharge Pipe
24	Step Motor Bracket	50	O-ring	76	* Suction Pipe
25	Low Grille	51	Splash Wheel		

PAC 3810 S

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



No.	Spare part	No.	Spare part	No.	Spare part
1	Front Panel	27	Air Filter	52	Castor
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22	Main Gear	47	Compressor	71	Bottom bracket
23	Step Motor	48	Splash Motor Box	72	Tube Temp. Sensor
24	Step Motor Bracket	49	Splash Motor	74	Temp Sensor Support
25	Low Grille	50	O-ring	75	* Discharge Pipe
26	Rear Panel	51	Splash Wheel	76	* Suction Pipe

Disposal



The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment 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. For further return options provided by us please refer to our website <https://de.trotec.com/shop/>.

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.

Have the refrigerant (propane) disposed of appropriately and according to the national regulations by a company with the relevant certification (European Waste Catalogue 160504).



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.

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