

# PAC 2000 SH

**EN**

**OPERATING MANUAL**  
LOCAL AIR CONDITIONER



 **TROTEC**

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## Notes regarding the operating manual

### Symbols



#### 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.

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



PAC 2000 SH



<http://hub.trotec.com/?id=40264>

## 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.
- Do not use the device in aggressive atmosphere.
- Set the device up in an upright and stable position.
- 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.
- Ensure 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.
- Ensure that the side of the device where the air inlet is found 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!

### **Intended use**

Only use the device for cooling, ventilating, dehumidifying and heating 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.

## Residual risks



### 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 an air filter the inside of the device will be heavily contaminated, which could reduce the dehumidification performance and result in damage to the device.

## Behaviour in the event of an emergency

1. Switch the device off.
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. Additionally, the device can be used as heater.

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.

In *heating* mode the room air is warmed up.

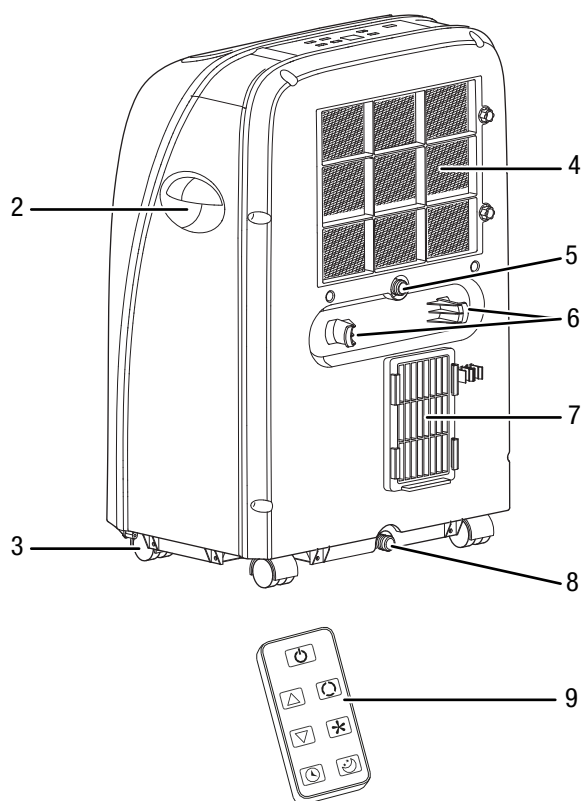
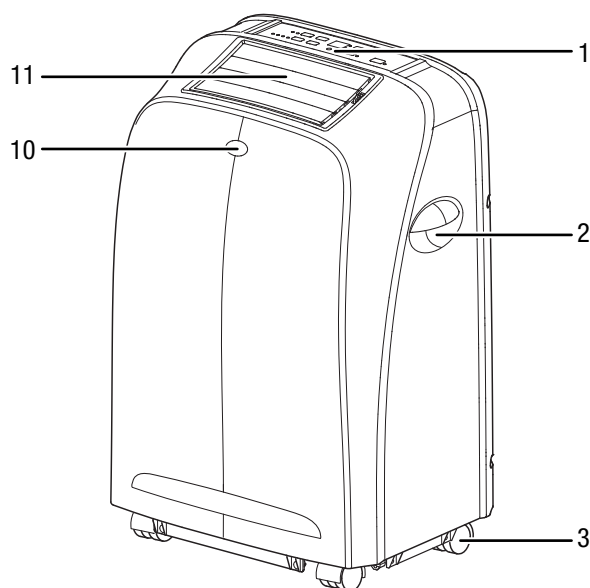
The device operates fully automatically and features a variety of further options. The device can, for instance, be switched on or off automatically with time delay via the timer function.

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.

## Device depiction



No.	Designation
1	Control panel
2	Handle
3	Wheels
4	Air inlet with air filter
5	Hose connection with rubber stopper
6	Power cable holder
7	Exhaust air hose connection
8	Condensate outlet with rubber stopper
9	Remote control
10	Remote control receiver
11	Air outlet with ventilation flaps

## 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.

**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.
- 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 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.

## Storage

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

- Drain the remaining condensate from the device.

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

- 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

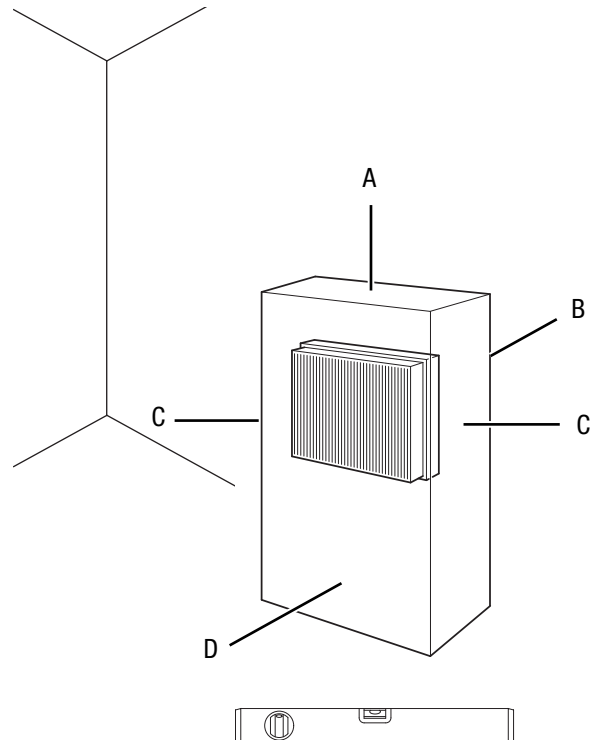
- 1 x Device
- 1 x Exhaust air hose
- 1 x Hose adapter
- 1 x Exhaust air hose adapter
- 1 x Cover for exhaust air hose adapter
- 1 x Condensation drain hose, length: 1 m, diameter: 11 mm
- 1 x Remote control
- 1 x Manual

### 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.
- Set the device up in an upright and stable position.
- 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.

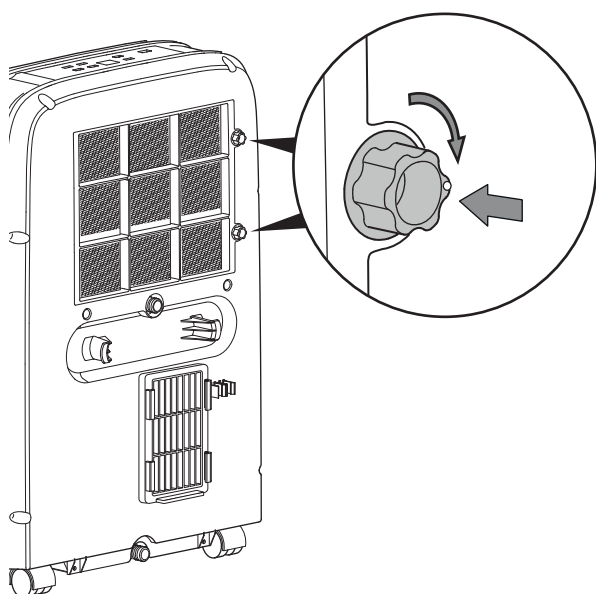
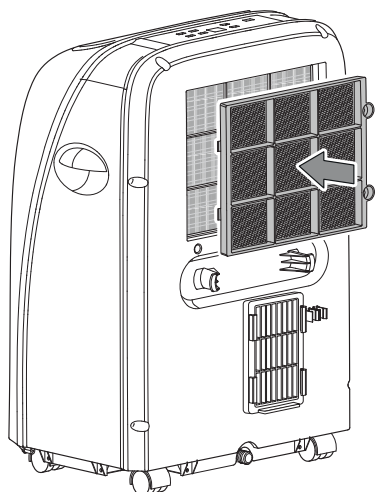
Prior to initial start-up, insert the batteries in the remote control.

## Inserting the air filter

### Note

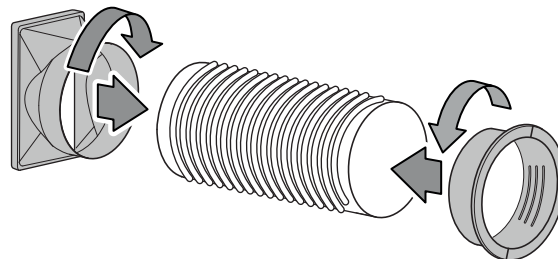
Do not operate the device without an inserted air filter! Without an air filter the inside of the device will be heavily contaminated, which could reduce the dehumidification performance and result in damage to the device.

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

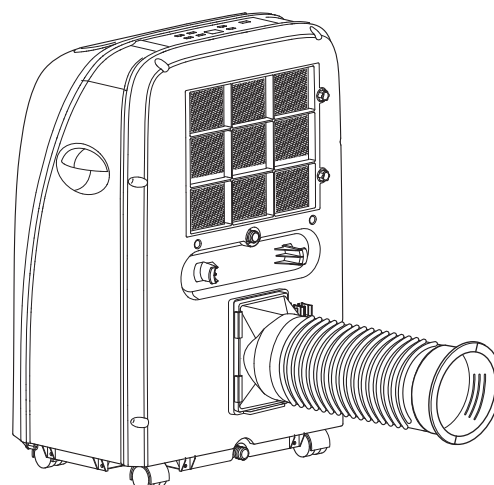
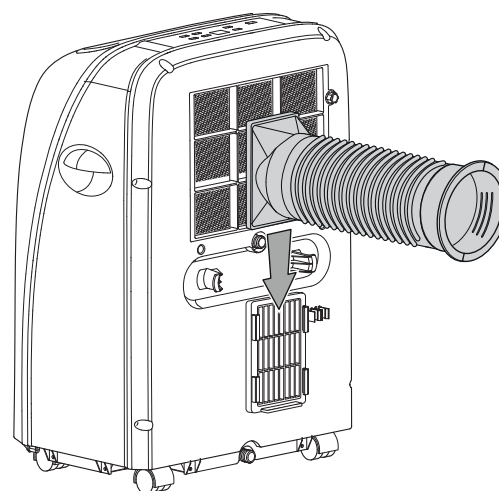


## Connecting the exhaust air hose

1. Connect the exhaust air hose adapter to one end of the exhaust air hose.
2. Connect the hose adapter to the other end of the exhaust air hose.



3. Shove the hose adapter with exhaust air hose into the air conditioner's exhaust air hose connection from above.





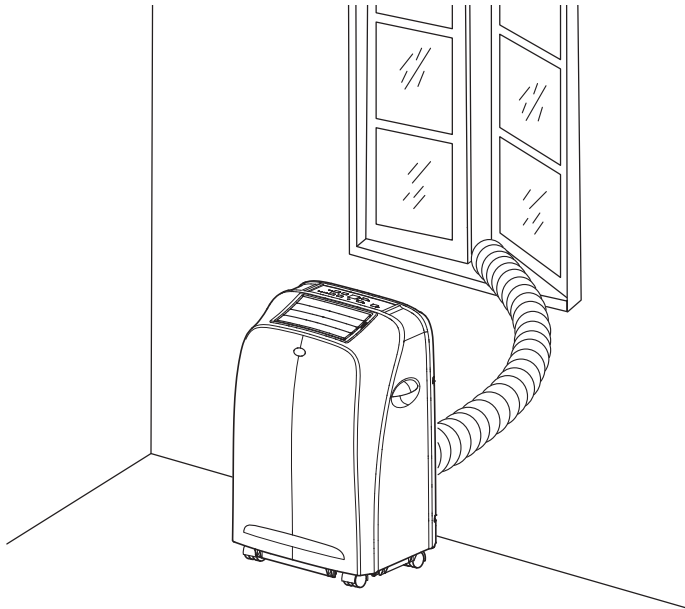
### Discharging exhaust air

- 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.

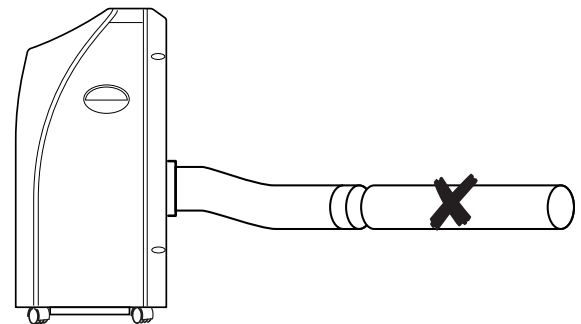
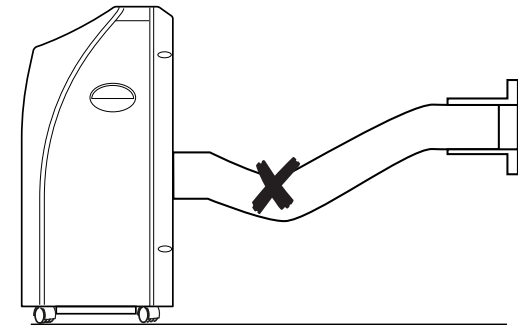
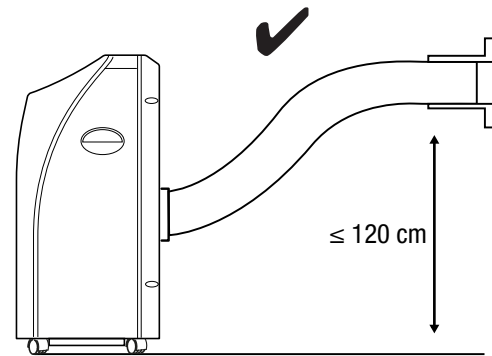
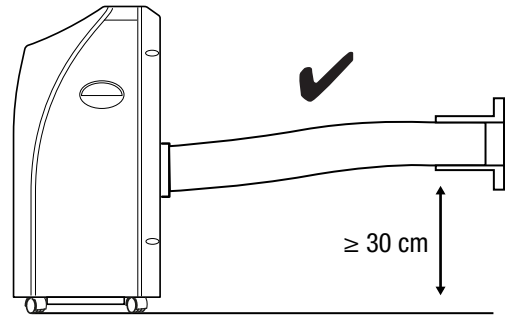
For this purpose, we recommend using a window seal (optional).

- Install the exhaust air hose inclined with the air direction.

*Example with exhaust air hose:*



For installing the exhaust air hose please observe the following:

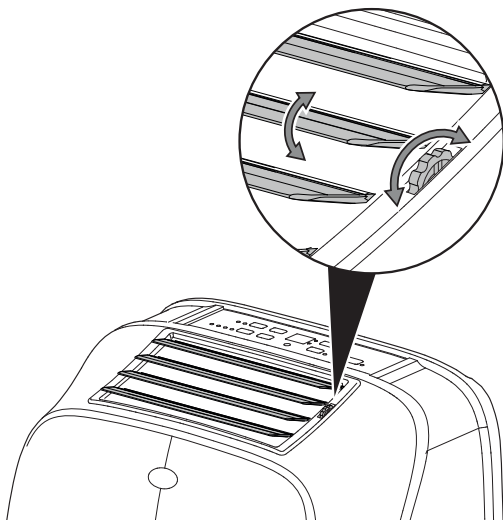


- Avoid kinks and bends in the exhaust air hose, as they would lead to an accumulation of emitted humid air causing the device to overheat and shut down.
- The dimensions of the exhaust air hose were especially made to fit the device. Do not replace or extend the hose, for it could cause a malfunction.



## Opening the ventilation flaps

1. Prior to switching the device on, open the ventilation flaps at the air outlet.



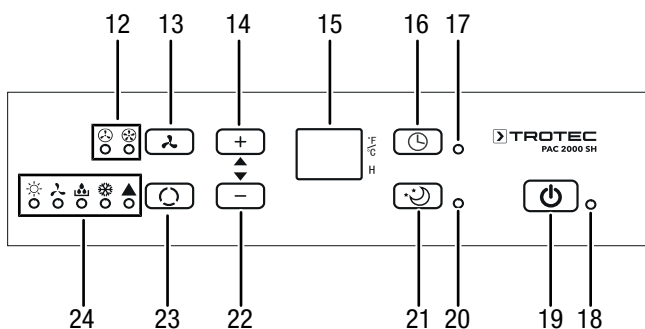
## Connecting the power cable

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

## Operation

- Avoid open doors and windows.

## Operating elements



No.	Designation	Meaning
12	Fan stage LED	Indicates the current fan stage: ☉ = stage 1 ☼ = stage 2
13	Fan stage button	Setting the fan stage: stage 1 = low fan speed stage 2 = high fan speed
14	Plus button	Increasing the target temperature (15 °C to 31 °C) for cooling and heating Increasing the number of hours for the timer (1 h to 24 h)

No.	Designation	Meaning
15	Segment display	Indication of the target temperature in <i>cooling</i> and <i>heating</i> mode Display of current room temperature Indication of the number of hours during timer programming Indication of the error code, see chapter Errors and faults °C / °F indication
16	Timer button	Switching the timer function on and off
17	Timer LED	Illuminated when the timer is activated
18	Operating light	Indicates operation: Device is switched on or off
19	Power button	Switching the device on and off
20	Night mode LED	Illuminated when night mode is activated
21	Night mode button	Switching night mode on and off
22	Minus button	Reducing the target temperature (15 °C to 31 °C) for cooling and heating Reducing the number of hours for the timer (1 h to 24 h)
23	Operating mode button	Selecting the operating mode: <i>heating</i> <i>ventilation</i> <i>dehumidification</i> <i>cooling</i> <i>automatic operation</i>
24	Operating mode LED	Indicates the selected operating mode: ☀ = <i>heating</i> ☂ = <i>ventilation</i> ☔ = <i>dehumidification</i> ☼ = <i>cooling</i> ▲ = <i>automatic operation</i>



### Info

An acoustic signal is emitted each time a setting is activated.

### 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 (19).
  - ⇒ The device starts in *automatic operation* mode.
  - ⇒ The operating light (18) is illuminated.
  - ⇒ The current room temperature is indicated on the segment display (15).
4. Select the desired operating mode.

The device switches off automatically when the condensation tank is full. *E4* is displayed in the segment display (15).

### Setting the operating mode

#### Heating

In *heating* mode the room will be heated up to the desired target temperature.

1. Press the operating mode button (23) until the heating LED (24) is illuminated.
  - ⇒ *Heating* mode is selected.
  - ⇒ The current room temperature is indicated on the segment display (15).
2. Repeatedly press the plus (14) or minus (22) button to select the desired target temperature. The temperature can be adjusted in increments of 1 °C in a range between 15 °C and 31 °C.
  - ⇒ The desired target temperature flashes on the segment display (15) for approx. 5 s. Then the segment display (15) changes back to the current room temperature.
3. Press the fan stage button (13) to set the desired fan stage.
  - ⇒ The fan stage LED (12) for the desired fan stage will be illuminated.
  - ⇒ The heating LED (24) will be illuminated to indicate *heating* mode.



#### Info

After switch-off, the fan keeps running for a brief period during which no settings can be made.

#### Ventilation



#### Info

Remove the exhaust air hose during *ventilation*.

In *ventilation* mode the room air is circulated, it will neither be cooled nor dehumidified. The temperature cannot be adjusted.

1. Press the operating mode button (23) until the ventilation LED (24) is illuminated.

2. Press the fan stage button (13) to set the desired fan stage.

- ⇒ The fan stage LED (12) for the desired fan stage will be illuminated.
- ⇒ The ventilation LED (24) will be illuminated to indicate *ventilation* mode.
- ⇒ The current room temperature is indicated on the segment display (15).

### Dehumidification



#### Info

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

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

The temperature cannot be adjusted and the fan runs at speed level 1.

1. Press the operating mode button (23) until the dehumidification LED (24) is illuminated.
  - ⇒ The fan stage LED (12) for fan stage 1 will be illuminated.
  - ⇒ The dehumidification LED (24) will be illuminated to indicate *dehumidification* mode.
  - ⇒ The current room temperature is indicated on the segment display (15).



#### Info

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

### Cooling

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

1. Press the operating mode button (23) until the cooling LED (24) is illuminated.
  - ⇒ The current room temperature is indicated on the segment display (15).
2. Repeatedly press the plus (14) or minus (22) button to select the desired target temperature. The temperature can be adjusted in increments of 1 °C in a range between 15 °C and 31 °C.
  - ⇒ The desired target temperature flashes on the segment display (15) for approx. 5 s. Then the segment display (15) changes back to the current room temperature.
3. Press the fan stage button (13) to set the desired fan stage.
  - ⇒ The fan stage LED (12) for the desired fan stage will be illuminated.
  - ⇒ The cooling LED (24) will be illuminated to indicate *cooling* mode.



### Info

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

### Automatic operation

In *automatic operation* mode the cooling or heating process will be regulated depending on the ambient temperature and the preset target temperature of 24 °C.

- With an ambient temperature equal to or above 24 °C the device automatically runs in *cooling* mode until the target temperature of 24 °C is reached.
- At an ambient temperature between 22 °C and 24 °C, the device will automatically be operated in *ventilation* mode.
- If the ambient temperature is less than or equal to 22 °C, the device will automatically be operated in *heating* mode.
- The target temperature is preset to a fixed value of 24 °C and cannot be changed manually.

1. Press the *operating mode* button (23) until the automatic operation LED (24) is illuminated.
  - ⇒ The current room temperature is indicated on the segment display (15).
2. Press the fan stage button (13) to set the desired fan stage.
  - ⇒ The fan stage LED (12) for the desired fan stage will be illuminated.
  - ⇒ The automatic operation LED (24) will be illuminated to indicate *automatic operation*.

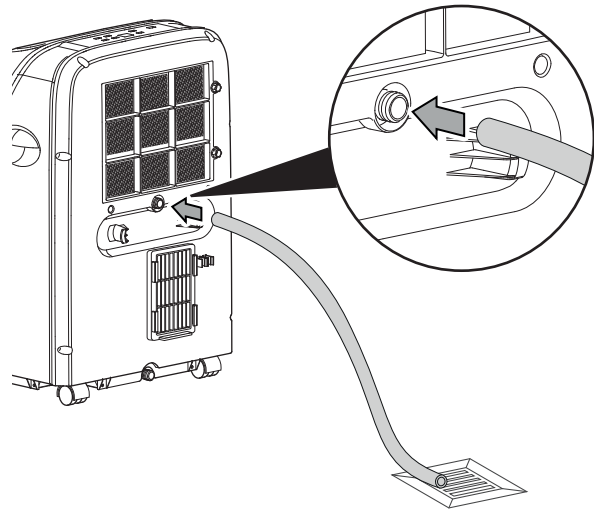
### Connecting the condensation drain hose

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 condensation drain hose to the hose connection.

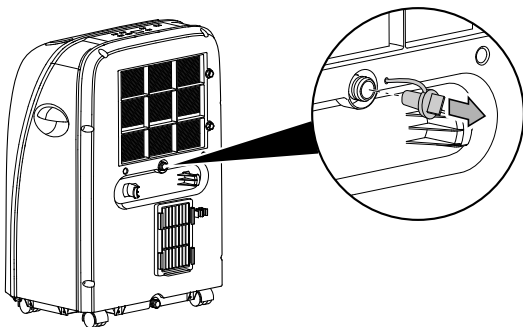
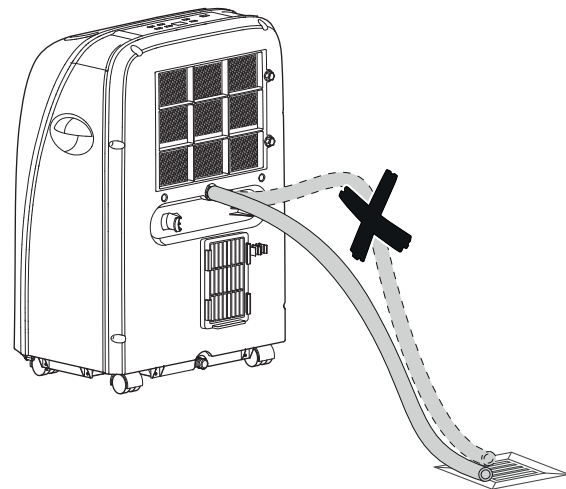
- ✓ The device is switched off.
- ✓ The device is disconnected from the mains.

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 the rubber stopper from the hose connection (5).

3. Connect the condensation drain hose to the hose connection (5).



4. Guide the other hose end 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.



## 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 (16) to activate the timer.
  - ⇒ The timer LED (17) flashes.
- 2. Repeatedly press the plus or minus buttons (14, 22) to choose the desired number of hours until automatic switch-on.
  - ⇒ The number of hours until automatic switch-on will be indicated on the segment display (15) for approx. 3 s.
  - ⇒ The timer LED (17) is illuminated.
  - ⇒ Then the segment display (15) switches back off.
  - ⇒ After the predefined time, the device switches itself on.
- 4. In order to delete the setting, select 00 hours using the plus / minus buttons (14, 22).
  - ⇒ The timer LED (17) 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.
- If you select 0 hours, the timer will be off.

### Automatic switch-off

- ✓ The device is switched on.
- 1. Press the timer button (16) to activate the timer.
  - ⇒ The timer LED (17) flashes.
- 2. Repeatedly press the plus or minus buttons (14, 22) to choose the desired number of hours until automatic switch-off.
  - ⇒ The number of hours until automatic switch-off will be indicated on the segment display (15) for approx. 3 s.
  - ⇒ The timer LED (17) is illuminated.
  - ⇒ Then the segment display (15) changes back to the current room temperature.
  - ⇒ After the predefined time, the device switches itself off.

4. In order to delete the setting, select 00 hours using the plus / minus buttons (14, 22).
  - ⇒ The timer LED (17) goes out.

## Night mode

Night mode can be activated in *cooling* and *heating* mode.

Night mode comes with the following settings:

- In *cooling* mode the preset temperature is increased by 1 °C after one hour.

After 2 hours the preset temperature will again be increased by 1 °C. Then the temperature is kept constant for 6 hours.

Subsequently, the device will be switched off. The device is in standby mode and can be switched back on via control panel or remote control.
- In *heating* mode the preset temperature is reduced by 1 °C after one hour.

After 2 hours the preset temperature will again be decreased by 1 °C. Then the temperature is kept constant for 6 hours.

Subsequently, the device will be switched off. The device is in standby mode and can be switched back on via control panel or remote control.

To activate night mode, please proceed as follows:

1. Select *cooling* or *heating* mode.
2. Press the night mode button (21).
  - ⇒ Both the LED for the selected operating mode (23) and the night mode LED (20) will be illuminated.
3. In order to switch off night mode, press the night mode button (21) once again.
  - ⇒ The night mode LED (20) goes out.
  - ⇒ The fan speed returns to its previous setting.

## Changing the unit °C / °F

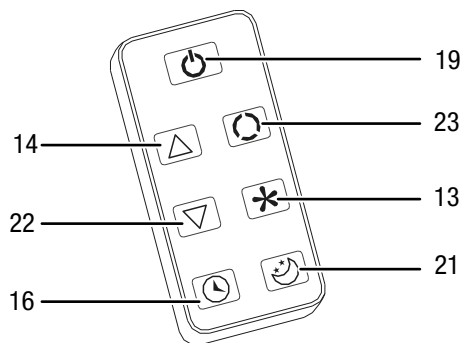
The temperature in the segment display (15) can be indicated in °C or °F.

Please proceed as follows to change the temperature unit:

1. Simultaneously press and hold the plus (14) and minus (22) buttons for 3 s.
  - ⇒ The displayed temperature is converted to the other unit.

## Remote control

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



## 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.

No.	Designation	Meaning
13	Fan stage button	Setting the fan stage: stage 1 = low fan speed stage 2 = high fan speed
14	Plus button	Increasing the target temperature (15 °C to 31 °C) for cooling and heating Increasing the number of hours for the timer (1 h to 24 h)
16	Timer button	Switching the timer function on and off
19	Power button	Switching the device on and off
21	Night mode button	Switching night mode on and off
22	Minus button	Reducing the target temperature (15 °C to 31 °C) for cooling and heating Reducing the number of hours for the timer (1 h to 24 h)
23	Operating mode button	Selecting the operating mode: <i>heating</i> <i>ventilation</i> <i>dehumidification</i> <i>cooling</i> <i>automatic operation</i>

## 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.



## 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 tank may be full. Empty the condensation tank, if need be. The error code *E4* must not be indicated on the segment display.
- 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. The window for the exhaust air hose has to remain open 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 min, as it is provided with an internal protection against direct restart.

### The device gets very warm, is loud or loses 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 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 only just been changed, check them for correct polarity and change them if required.

#### 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 (15):

Error code	Cause	Remedy
E2	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.
E3	Error at the temperature sensor of the evaporator	
E5	Error at the temperature sensor of the condenser	
E4	Condensation tank full	Empty the condensation tank (see chapter Maintenance, Condensate discharge (manual draining)). Should the error still be displayed, 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 the 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 the attachment screws																
Test run																
Remarks:																
Empty the condensation tray and drain hose																

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



### 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

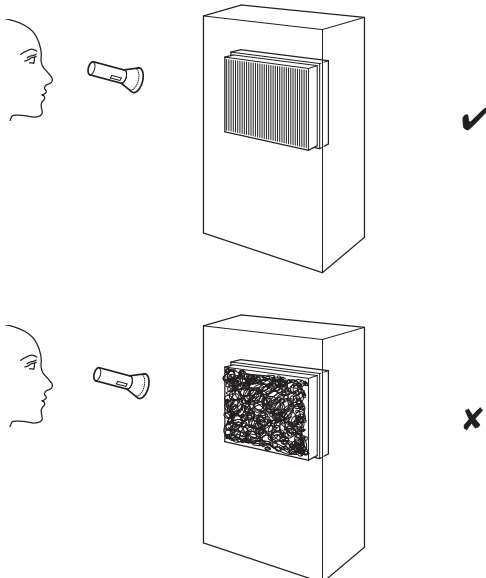
**Tasks which require the housing to be opened must only be carried out by authorised specialist companies or by Trotec.**

## 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.



## Refrigerant circuit

- 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.

## Cleaning the air filter

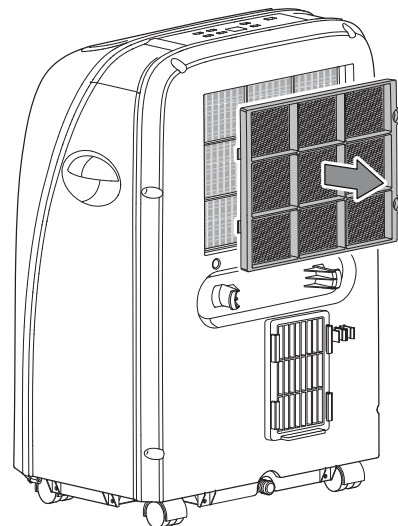
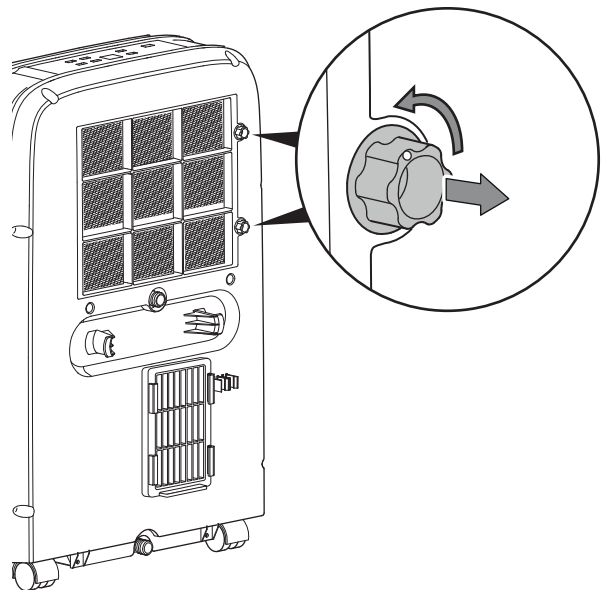
The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).



### Warning

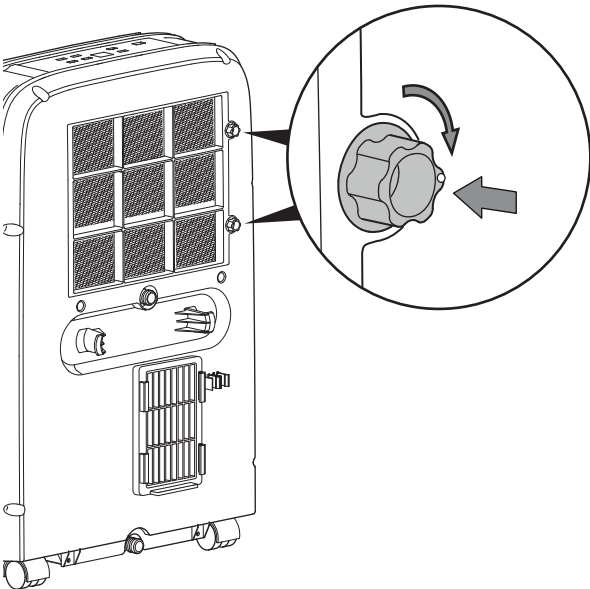
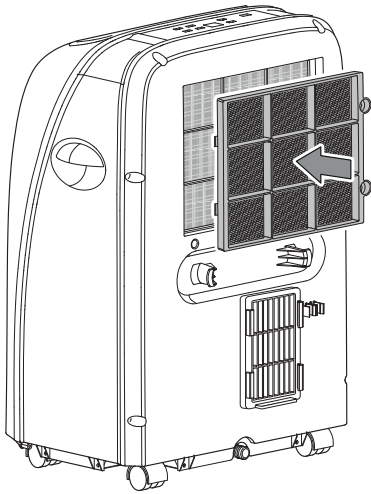
Ensure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry!

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.



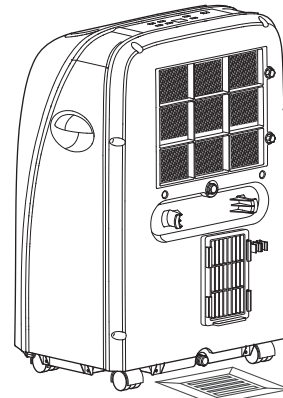
### Condensate discharge (manual draining)

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

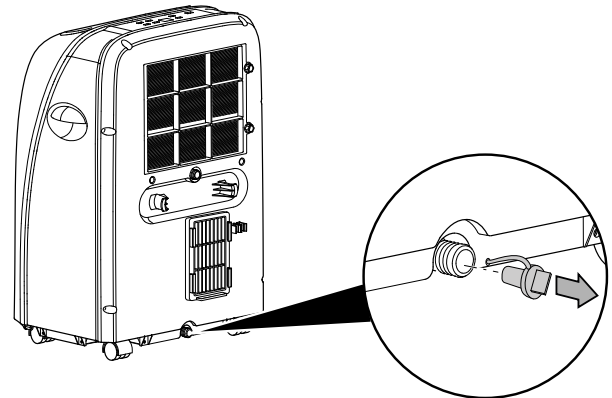
The remaining condensate is collected in a container within the housing. The condensate ought to be drained regularly.

If too much condensate accumulates, the device switches off and indicates this via the *E4* error code on the segment display (15).

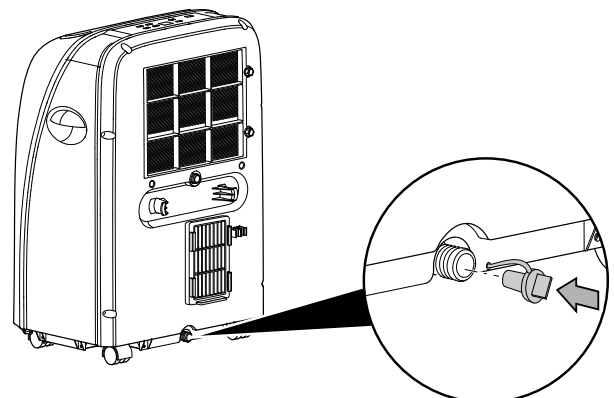
1. Carefully transport or wheel the device to a suitable location for discharging the condensate (e.g. a drain) or position a suitable collection container under the condensate outlet.



2. Remove the rubber stopper from the condensate outlet.



3. Drain the condensate.
4. Reattach the rubber stopper to the condensate outlet. Ensure the tight fit of the rubber stopper, for otherwise there might be uncontrolled water leakage.



⇒ The *E4* error code on the segment display (15) will disappear 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 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 Storage chapter.

## Technical annex

### Technical data

Model	PAC 2000 SH
Cooling capacity	2 kW
Dehumidification performance	0.8 l/h
Heating capacity	2 kW
Operating temperature	15 °C to 35 °C
Temperature setting range	15 °C to 31 °C
Max. air volume flow	320 m <sup>3</sup> /h
Mains supply	1/N/PE~ 220 V - 240 V / 50 Hz
Nominal current	3.4 A
Power input (cooling operation)	0.8 kW
Power input (heating operation)	0.7 kW
Sound pressure level	54 dB(A)
Refrigerant	R-410A
Amount of refrigerant	380 g
GWP factor	2088
CO <sub>2</sub> equivalent	0.79 t
Dimensions (length x width x height)	305 x 420 x 636 (mm)
Minimum distance to walls and other objects:	top (A): 50 cm rear (B): 50 cm sides (C): 50 cm front (D): 50 cm
Weight	23 kg

## 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 [www.trotec24.com](http://www.trotec24.com).

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.

The device is operated with fluorinated greenhouse gas which can be dangerous for the environment and contribute to global warming when emitted to the atmosphere.

Further information is provided on the nameplate.

Dispose of the refrigerant appropriately and 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.



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