

PAE 51 / PAE 51 B

EN

INSTRUCTIONS  
AIR COOLER



 TROTEC

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You can download the current version of these instructions via the following link:



PAE 51

<https://hub.trotec.com/?id=42017>



PAE 51 B

<https://hub.trotec.com/?id=47519>

**Information on the use of these instructions**

**Symbols**



**Warning**

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



**Warning of electrical voltage**

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

**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 protective gloves**

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

## 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 done 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 an aggressive atmosphere.
- Place the device in an upright and stable position on a horizontal and stable surface.
- 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.
- 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 the device occasionally 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 mains connection must correspond to the specifications in the Technical annex.
- Insert the mains plug into a properly fused mains socket.
- Observe the device's power input, cable length and intended use when selecting extensions to the power cable. Completely unroll extension cables. Avoid electrical overload.
- 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 a special cord or assembly available from the manufacturer or its service agent. Defective power cables pose a serious health risk!
- 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.
- 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.
- Make sure that the suction side is kept free of dirt and loose objects.
- Never insert any objects or limbs into the device.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Only transport the device in an upright position with an emptied water tank.
- Empty and clean the water tank prior to storage or transport. Do not drink the water. Health hazard!
- Never leave water in the reservoir when the appliance is not in use.
- Do not permit the area around the humidifier to become damp or wet. If dampness occurs, turn the output of the humidifier down. If the humidifier output volume cannot be turned down, use the humidifier intermittently. Do not allow absorbent materials, such as carpeting, curtains, drapes, or tablecloths, to become damp.
- Be aware that high humidity levels may encourage the growth of biological organisms in the environment.
- Micro-organisms that may be present in the water or in the environment where the appliance is used or stored, can grow in the water reservoir and be blown in the air causing very serious health risks when the water is not renewed and the tank is not cleaned properly every 3 days.
- Only fill the water tank with fresh drinking water, ice cubes made of fresh drinking water and / or suitable ice packs.
- Ice packs are not toys. Keep away from children and animals.
- Never open an ice pack. The liquid inside the ice packs can be harmful to health.
- Do not eat the ice that may form on the ice packs. Health hazard!

- Do not use the device if it has been dropped or if it shows visible signs of damage.
- Only use original spare parts, for otherwise safe and functional operation cannot be ensured.
- Use the CR 2032 button battery type.
- Do not insert a rechargeable battery into the remote control.
- Never charge a battery that cannot be recharged.
- Remove the discharged battery. Batteries contain materials hazardous to the environment. Dispose of the battery according to the national regulations.
- Remove the battery from the remote control if you will not be using the device for a longer period of time.
- Never short-circuit the terminal of the battery!
- 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.
- If the battery compartment does not close securely, stop using the product via the remote control.
- Unplug the appliance during filling and cleaning.
- Do not run the mains cable in front of the air outlet or in its immediate vicinity.
- Do not wrap the mains cable around the device and do not kink it to avoid damaging the cable insulation. Do not place any objects on the mains cable.

### **Intended use**

Only use the device for cooling the air in interior spaces while adhering to and following the technical data.

Intended use comprises cooling the air in:

- living spaces
- museums
- warehouses and archives
- libraries
- call centres and computer rooms

Any use other than the intended use is regarded as misuse.

### **Reasonably foreseeable misuse**

- Do not place the device on wet or flooded ground, e.g. near floor drains.
- Do not place any objects, e.g. clothing, on the device.
- Do not use outdoors.
- Do not use the device in the immediate vicinity of swimming pools, bathtubs and showers.
- 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:

- have basic knowledge of how to safely handle electrical equipment.
- 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 electrical companies or by the manufacturer.

### **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.

This label can be found on the device in English and German:

Operate the device with the adapter supplied by the manufacturer.

## 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

Risk of electric shock!

The device is not protected against water.

There is a risk of electric shock!

Never use the device in areas where dripping, spraying or running water can enter the device! Never immerse the device in water!



### Warning of electrical voltage

Risk of electric shock!

Risk of an electric shock if the device comes into contact with water!

Do not use this device in the immediate vicinity of bathtubs, showers or swimming pools!



### 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

The liquid inside the ice packs can be harmful to health!

If the liquid was swallowed, immediately seek medical attention.

If the liquid came into contact with your eyes, rinse with water and immediately consult an ophthalmologist.

### Notice

Do not operate the device without an air filter inserted into the air inlet!

Without the air filter, the inside of the device will be heavily contaminated. This can 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 by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
3. Do not reconnect a defective device to the mains.

## Information about the device

### Device description

The air cooler lowers the room temperature to a comfortable degree by evaporation-based cooling.

The device is filled with cold water or optionally with ice cubes and / or ice packs in order to cool down the incoming warm air at the evaporation filter and to blow out the cold air thus generated via the fan.

Besides its cooling function, the device can also be used for air freshening: thanks to an integrated air filter and the evaporation filter's honeycomb structure, the sucked-in air is filtered and humidified.

The fan speed can be set to four stages.

The discharge direction of the cooled air can be manually adjusted via the ventilation flaps as well as via the optionally selectable automatic swing mode.

The device has a night mode enabling ultra-silent operation at bedtime.

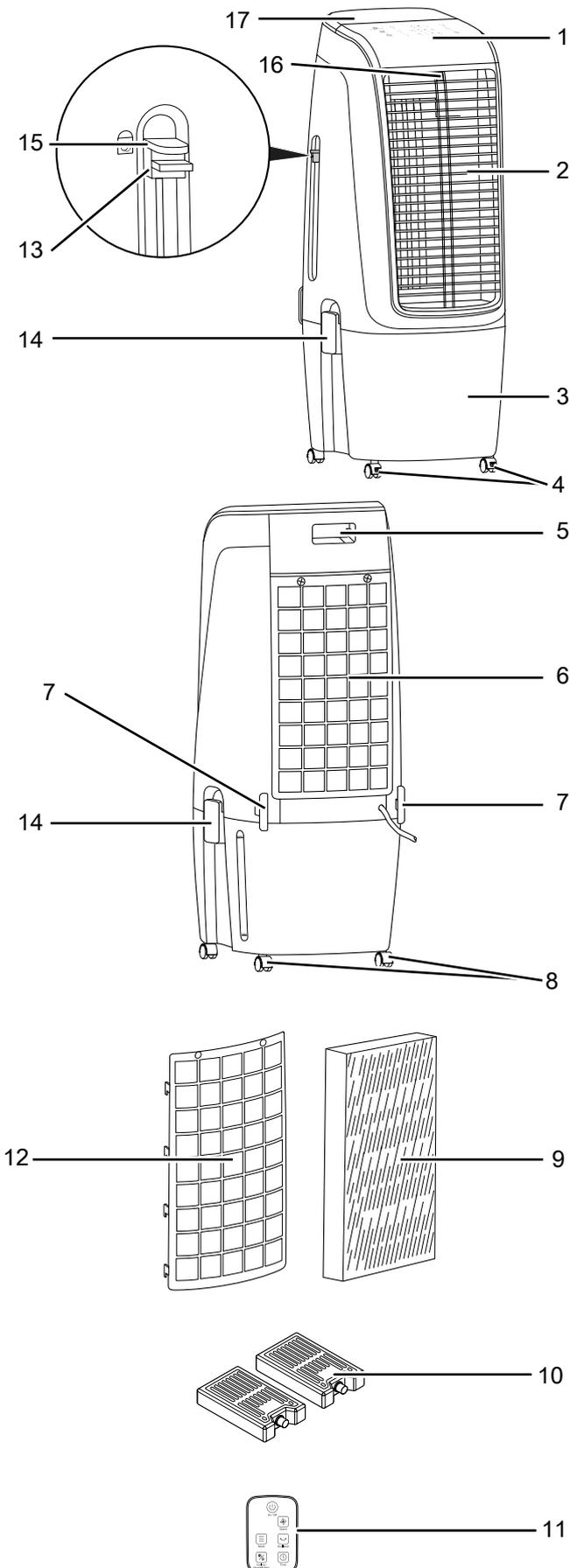
Moreover, using the timer function, the device can be switched off automatically with time delay.

The device can be operated via the control panel at the device or via the infrared remote control.

The device can be operated in an energy-efficient manner. If none of the operating elements have been actuated for a period of 60 seconds, the LEDs are automatically dimmed.

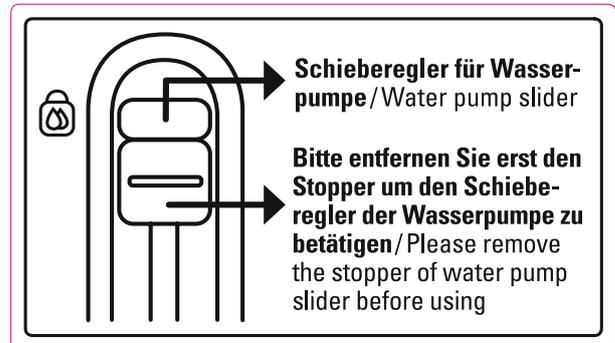
The device PAE 51 is available in white and the device PAE 51 B is available in black.

**Device depiction**



| No. | Designation   |
|-----|---|
| 1   | Control panel   |
| 2   | Air outlet with adjustable ventilation flaps and air flaps for swing function |
| 3   | Water tank with filling level indicator                                       |
| 4   | Wheels with parking brake   |
| 5   | Compartment for remote control  |
| 6   | Air inlet with air filter and evaporation filter                              |
| 7   | Power cable holder  |
| 8   | Wheels without parking brake  |
| 9   | Evaporation filter  |
| 10  | Ice packs   |
| 11  | Remote control  |
| 12  | Air filter  |
| 13  | Stopper for slider  |
| 14  | Locking clasp for water tank  |
| 15  | Slider for pump   |
| 16  | Remote control receiver   |
| 17  | Water funnel  |

Please note the warnings on the labels attached to the device.



## 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

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

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

- Switch the device off.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- Empty the water tank.
- Do not use the power cable to drag the device.
- Release the brakes at the castors.
- Only wheel the device on firm and level surfaces.

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

- Set up the device in an upright position after transport.

### Storage

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

- Empty and clean the water tank prior to storage (see chapter Maintenance).
- Allow the evaporation filter to dry prior to storage. Otherwise the device may distribute a musty smell after restart.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.

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

- 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.
- Remove the battery from the remote control.

## Assembly and start-up

### Scope of delivery

- 1 x Device
- 1 x Remote control (without batteries)
- 1 x Evaporation filter
- 1 x Air filter
- 2 x Ice pack
- 1 x Manual

### Unpacking the device



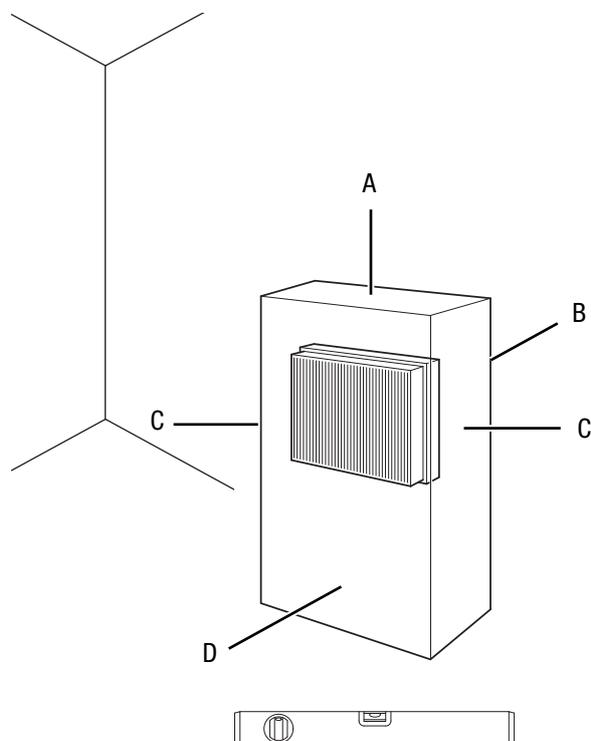
#### Warning

There is a danger of suffocation for children due to packaging material! Keep packaging films and parts away from children. There is a risk of death due to suffocation.

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 chapter Technical annex.



- 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 a horizontal and stable surface.
- 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.
- Make sure that no curtains or other objects interfere with the air flow.

Observe the following before operating the device after a period of non-use or after the device has been stored:

- Clean the housing and the water tank prior to recommissioning (see chapter Maintenance).

**Inserting the battery into the remote control**



**Warning of electrical voltage**

Do not touch the battery compartment with wet or damp hands.

**Notice**

Do not use rechargeable batteries!

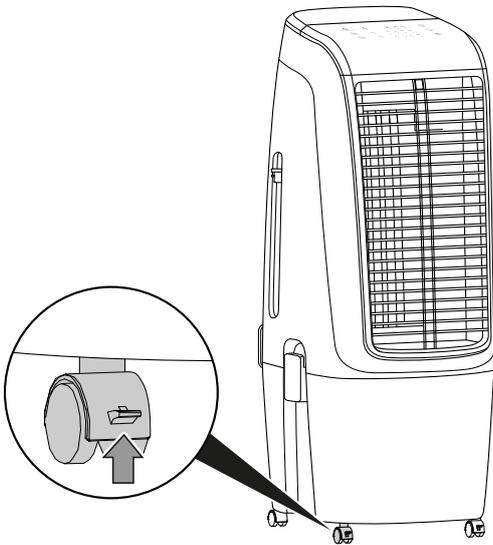
Please proceed as follows to insert or exchange the battery:

1. Press the locking at the side of the battery compartment together and pull the battery compartment out of the remote control.
2. Insert a type CR 2032 battery into the battery compartment and slide the battery compartment back into the remote control.

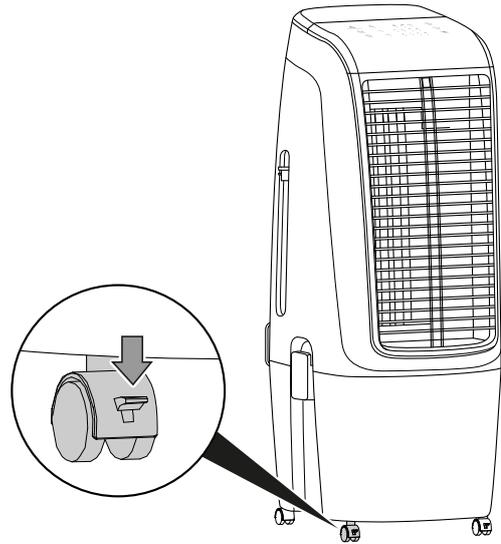
**Wheels**

To ensure simple transportation the device comes equipped with wheels. Moreover, two of the wheels are fitted with a parking brake to ensure a firmly fixed position. Please proceed as follows to apply or release the parking brakes:

- To facilitate easy transport, release the parking brakes.



- To ensure a firmly fixed position, apply the parking brakes.



**Filling the water tank**

The device requires fresh drinking water for air cooling.



**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.

**Notice**

Fill the device with fresh drinking water only. The water temperature must not exceed 40 °C.



**Info**

If possible, change the water every 3 days to prevent bacterial growth.

Observe the following when using the ice packs:

- Put the ice packs into a freezer for at least 4 hours before use.
- Put the ice packs into the water tank before filling water into the tank.



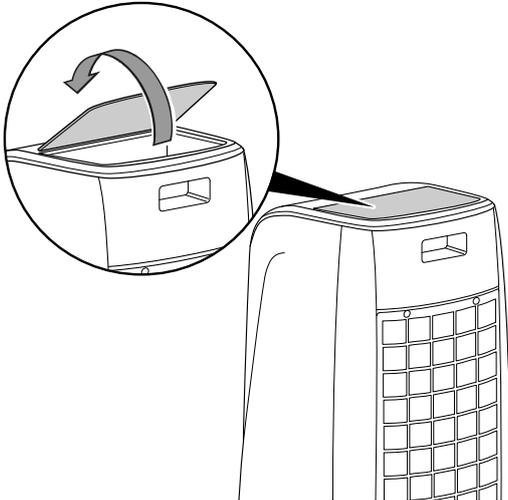
**Info**

When using ice packs at high outside temperatures, condensation may form at the water tank and drip onto the floor.

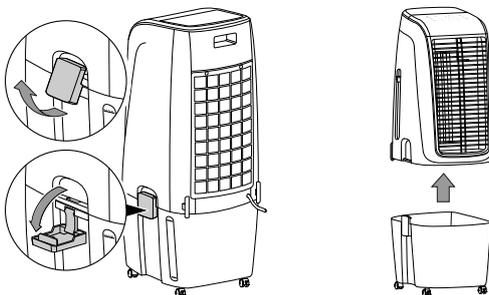
1. Disconnect the device from the mains before refilling water or putting ice packs into the device.

2. There are two ways to fill water into the tank. Choose option 2 if you want to add ice cubes or ice packs for additional cooling.

⇒ Option 1:  
Open the water funnel (17).

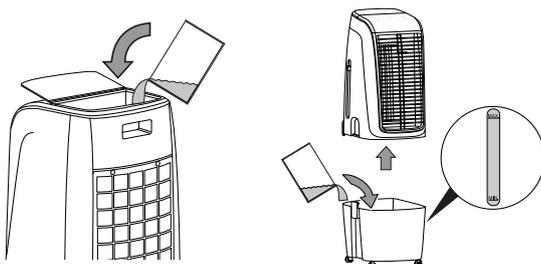


⇒ Option 2:  
Make sure that the slider (15) is secured in the upper position. Undo the locking clasps (14) and lift off the top section of the device.

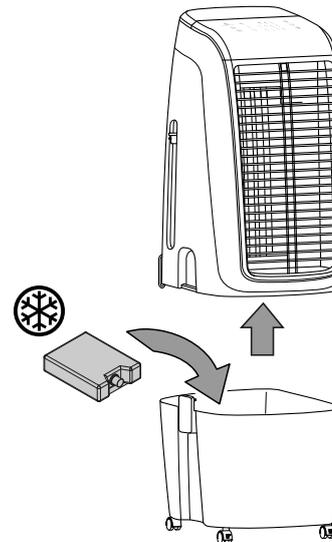


3. Fill the water tank (3) with fresh drinking water only. Optionally, you can add ice cubes made of drinking water for additional cooling.

⇒ Observe the minimum and maximum filling level at the filling level indicator.  
The water tank must be filled up to minimum filling level to enable pump operation.



4. If required, put ice packs into the water tank (3) for additional cooling.

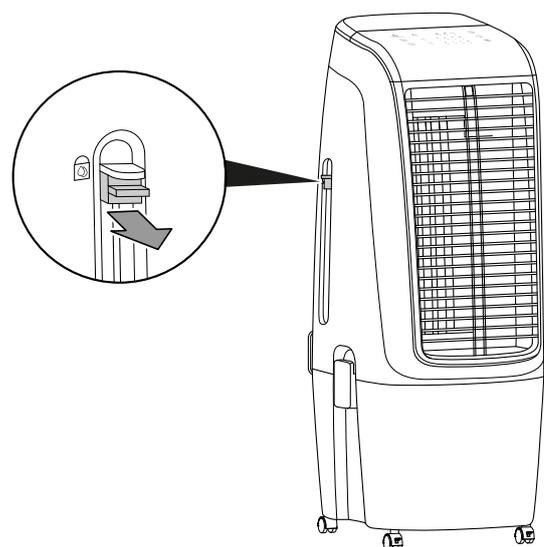


5. Close the flap for the water funnel (17) or put the upper section back onto the water tank and shut the locking clasps (14).  
6. Make sure that the device is neither damp nor wet on the outside. Otherwise wipe it dry.

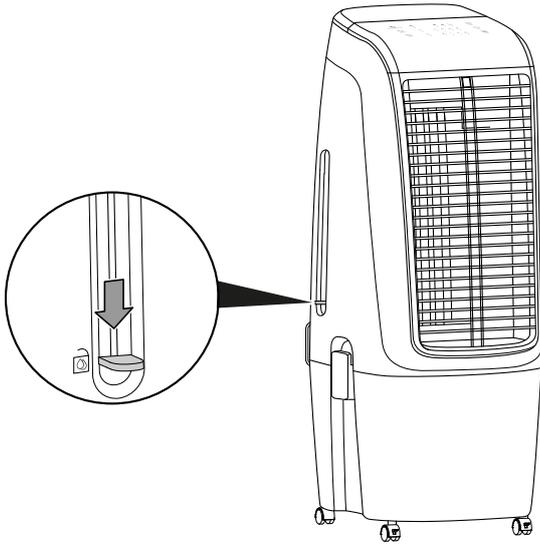
#### Adjusting the position of the slider

After having filled the water tank, insert the pump in the water tank in order to use the air cooling function.

1. Remove the stopper from the upper position of the slider (15) at the device.



2. Push the slider (15) down.



**Notice**

Always secure the slider in its upper position by means of the stopper before lifting off the top section of the device. Otherwise the pump and the mechanism might be damaged.

**Inserting evaporation filter and air filter**

**Notice**

When set to air cooling mode, the device must not be operated without the evaporation filter, otherwise *cooling* will not work.

**Notice**

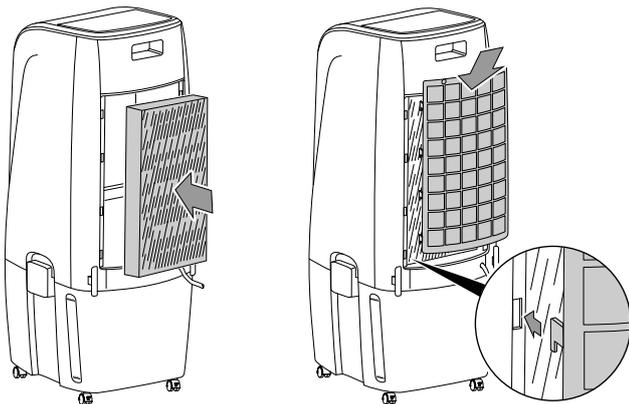
Do not operate the device without an air filter inserted into the air inlet!  
Without the air filter, the inside of the device will be heavily contaminated. This can reduce the performance and result in damage to the device.



**Warning**

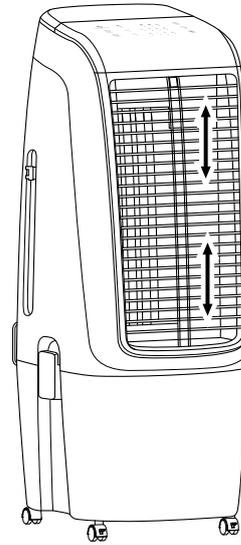
Do not reach into the device. Keep your hands away from the fan. Risk of injury upon contact with the fan.

- Make sure that both the evaporation and the air filter are installed before switching the device on.



**Adjusting the ventilation flaps**

- Prior to switching the device on, adjust the ventilation flaps at the air outlet.



**Connecting the power cable**

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



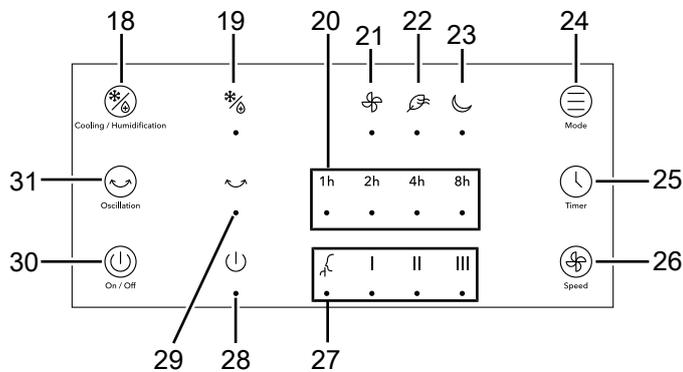
**Info**

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

## Operation

- Avoid open doors and windows.

### Operating elements



| No. | Designation                     | Meaning   |
|-----|---------------------------------|---|
| 18  | Cooling / Humidification button | Switching the <i>air cooling</i> mode on or off   |
| 19  | Cooling / Humidification LED    | Illuminated when <i>air cooling</i> mode is activated   |
| 20  | Hours LEDs                      | Indication of the number of hours of the activated timer 1 h, 2 h, 4 h and 8 h  |
| 21  | Ventilation LED                 | Illuminated when <i>ventilation</i> mode is activated   |
| 22  | Air freshening LED              | Illuminated when <i>air freshening</i> mode is activated  |
| 23  | Night mode LED                  | Illuminated when night mode is activated  |
| 24  | Mode button                     | Selection button for <i>ventilation</i> , <i>air freshening</i> and <i>night mode</i>   |
| 25  | Timer button                    | Switching the timer on or off   |
| 26  | Speed button                    | Setting the fan speed and the filter drying function  |
| 27  | Fan stage LEDs                  | Fan speed indication is illuminated:<br>Silent stage = ultra-silent operation<br>I Stage 1 = low<br>II Stage 2 = medium<br>III Stage 3 = high |
| 28  | On / Off LED                    | Illuminated during operation  |
| 29  | Oscillation LED                 | Illuminated when swing function is activated  |
| 30  | On / Off button                 | For switching the device on or off  |
| 31  | Oscillation button              | For switching the swing function on or off  |



### Warning of electrical voltage

Risk of electric shock!

The device is not protected against water.

There is a risk of electric shock!

Never use the device in areas where dripping, spraying or running water can enter the device! Never immerse the device in water!

### Switching the device on

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

1. Press the *On / Off* button (30).

⇒ The device starts in *ventilation* mode at fan stage II.

⇒ The LEDs *On / Off* (28), *Ventilation* (21) and *Fan stage II* (27) are illuminated.

### Setting the operating mode

The device comes with the following operating modes:

- *Air cooling*
- *Ventilation*
- *Air freshening*
- *Night mode*

### Air cooling

The *air cooling* mode can be switched on in addition during all other operating modes.

During *air cooling* the pump is switched on and the water is distributed over the evaporation filter to cool the circulating air. If the water tank is empty, an acoustic signal will be emitted.

Please proceed as follows to activate *air cooling*:

1. Press the *Cooling / Humidification* button (18).  
 ⇒ The *Cooling / Humidification* LED (19) is illuminated.  
 ⇒ The pump starts.
2. Press the *Speed* button (26) to set the desired fan stage (Silent and 1 to 3).
3. Press the *Cooling / Humidification* button (18) again to switch *air cooling* off.  
 ⇒ The *Cooling / Humidification* LED (19) goes out.  
 ⇒ The device continues to run in the previously selected operating mode.

### Notice

When *air cooling* mode is activated, the air and evaporation filter must not be removed, otherwise the water from the filter will drip down into the device.

### Ventilation

In *ventilation* mode, you can select all 4 fan speeds manually.

Please proceed as follows to activate *ventilation*:

1. Press the *Mode* button (24) until the *Ventilation* LED (21) is illuminated.
2. To adjust the fan stage, press the *Speed* button (26) until the LED for the desired *fan stage* (27) is illuminated.

#### Notice

The Silent fan stage can only be selected in *ventilation* mode, possibly combined with *air cooling*.

### Air freshening

In *Air freshening* mode, the fan speed increases and decreases alternately to generate a pleasant, natural air stream.

Please proceed as follows to activate *air freshening*:

1. Press the *Mode* button (24) until the *Air freshening* LED (22) is illuminated. The fan stages are automatically adjusted.

### Activating night mode

In night mode, it is possible to additionally switch on *air cooling*.

*Air freshening* cannot be activated.

In night mode, the device operates using a preset programme with different fan speeds to generate an air stream that is adapted to human sleeping habits.

1. Press the *Mode* button (24) until the *Night mode* LED (23) is illuminated.

### Setting the timer

Using the timer function, the device can be switched off automatically after a preset number of hours.

The function can be set in all operating modes.

The number of hours can be set to 1 h, 2 h, 4 h or 8 h.

### Automatic switch-off

✓ The device is switched on.

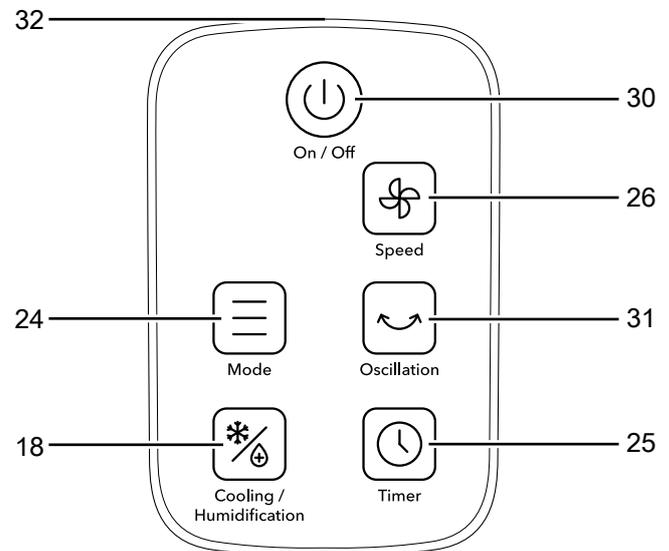
1. Press the *Timer* button (25) until the desired number of hours is displayed by the *Hours* LEDs (20).
- ⇒ The timer setting equals the desired number of hours.
  - ⇒ The device switches off automatically after the set number of hours has elapsed.

Notes regarding automatic switch-off:

- Pressing the *On / Off* button (28) does not deactivate the automatic switch-off function.
- A power failure during operation does not deactivate the automatic switch-off function.

### Remote control

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



| No. | Designation                            | Meaning  |
|-----|--|--|
| 18  | <i>Cooling / Humidification</i> button | Switching the <i>air cooling</i> mode on or off                                      |
| 24  | <i>Mode</i> button                     | Selection button for <i>ventilation</i> , <i>air freshening</i> or <i>night mode</i> |
| 25  | <i>Timer</i> button                    | Switching the timer on or off  |
| 26  | <i>Speed</i> button                    | Setting the fan speed  |
| 30  | <i>On / Off</i> button                 | For switching the device on or off   |
| 31  | <i>Oscillation</i> button              | For switching the swing function on or off   |
| 32  | Remote control transmitter/receiver    | For infrared transmission to the device  |

### Swing function

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

Behind the horizontal ventilation flaps, there are vertical air flaps integrated in the device. By means of the swing function, these air flaps are moved automatically and thus ensure continuous air circulation.

1. Press the *Oscillation* button (31) to switch the swing function on or off.
- ⇒ With activated swing function the *Oscillation* LED (29) is illuminated.

### Memory function

If a power failure has occurred during operation, an acoustic warning signal will be emitted and the device will automatically be switched back on.

If you switch the device back on from standby, a perhaps previously set timer and fan stage will have been stored by the device which starts in *ventilation* mode.

### Auto stop function

If the water tank is empty and *air cooling* activated, an acoustic warning signal will be emitted and the *Cooling / Humidification* LED (19) goes out.

The pump operates for 50 seconds. If the programme detects a water shortage that lasts for 5 seconds, the pump is switched off automatically. An acoustic warning signal will be emitted for 10 seconds.

### Adding water

An empty water tank is indicated by the device with an acoustic warning signal. In this case, the water tank must be refilled.



#### 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.

#### Notice

Fill the device with fresh drinking water only. The water temperature must not exceed 40 °C.



#### Info

If possible, change the water every 3 days to prevent bacterial growth.

Observe the following when using the ice packs:

- Put the ice packs into a freezer for at least 4 hours before use.
- Put the ice packs into the water tank before filling water into the tank.



#### Info

When using ice packs at high outside temperatures, condensation may form at the water tank and drip onto the floor.

To refill with water, proceed as described under *Filling the water tank* (see chapter *Assembly and start-up*).

### Filter drying function

The filter drying function can be switched on in addition as needed, e.g. for transport purposes.

The fan runs at the maximum speed and the device will be switched off after 20 minutes. No other function may be selected in this mode.

1. Press and hold the *Speed* button (26) for 3 s to activate the filter drying function.  
⇒ The *Fan stage III* LED (27) flashes.

#### Notice

To terminate the filter drying function prematurely, switch the device off by means of the *On / Off* button (30).

### Automatic switch-off function

After 15 hours of continuous operation the device switches off automatically.

### Shutdown



#### Warning of electrical voltage

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

- Switch off the device.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- Empty and clean the water tank (see chapter *Maintenance*).
- If required, clean the device according to the "Maintenance" chapter.
- 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 |
|------------------------------------|----------------|
| Evaporation filter PAE 51/PAE 51 B | 7.710.000.860  |

## 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.

### The device does not start:

- Check the power connection.
- Check the power cable and mains plug for damage.
- Check the on-site fusing.
- If the device is not starting, have the electricians checked by a specialist company or by the manufacturer.

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

- Check the position of the horizontal ventilation flaps. They should be opened to the maximum.
- Check the air filter for dirt. If necessary, clean or replace the air filter.
- Check the minimum distance to walls or other objects. Position the device a little more in the room's centre if required.

### The device is running, but there is no air cooling or pump operation:

- Check whether *air cooling* mode is activated. The *Cooling / Humidification* LED (19) should be illuminated.
- Check the filling level of the water tank (see Filling the water tank). There must be no acoustic signal.
- Check whether there are any objects blocking the pump inlet. Make sure that the pump inlet is not blocked.
- In case the pump does not operate despite a correctly filled water tank and activated air cooling mode, the pump might be defective. Please contact the customer service.

### Water is leaking:

- Check the device for leaks.
- Check the water tank for tight fit.

### The swing function is not working:

- The swing function motor might be defective. Please contact the customer service.

### The device is loud or vibrates:

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

### 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 battery and replace the battery, if necessary.
- If the batteries have just been changed, check them for correct polarity.

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

Contact the manufacturer's customer service. If necessary, take the device to an authorised specialist electrical company or to the manufacturer for repair.

## Maintenance

## Maintenance intervals

| Maintenance and care interval  | before every start-up | as needed | every 3 days | at least every 2 weeks | at least every 4 weeks | at least annually |
|--|-----------------------|-----------|--------------|------------------------|------------------------|-------------------|
| Clean the water tank   |                       |           | X            |                        |                        |                   |
| 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 if necessary         | X                     |           |              | X                      |                        |                   |
| Replacing the evaporation 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 |
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Clean the water tank   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| 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 if necessary         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Replacing the evaporation filter   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Check for damage   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Check attachment screws  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Test run   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Remarks:   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |

|                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|
| 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: ..... |

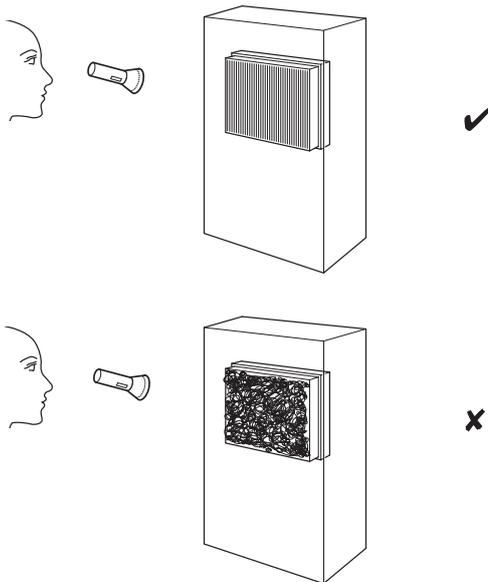
**Activities required before starting maintenance**

- Warning of electrical voltage**  
Do not touch the mains plug with wet or damp hands.
- Switch the device off.
  - Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.

- 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.

**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 electrical company or by the manufacturer.
5. Put the air filter back in.



**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.

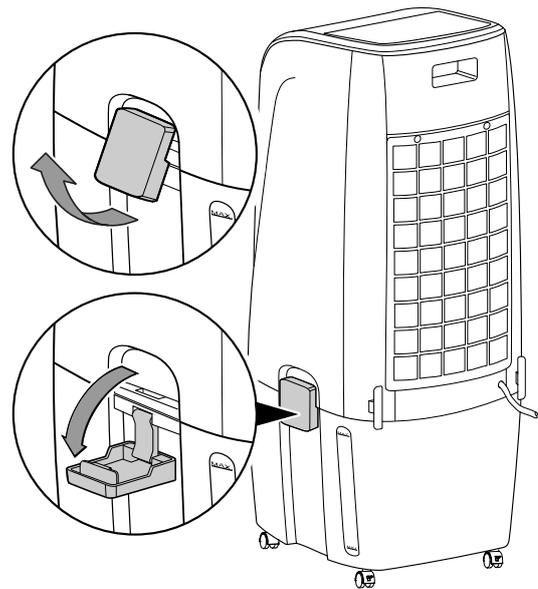
**Cleaning the water tank**

- Warning**  
Use citric acid as cleaning/descaling agent for the water tank. Always wear gloves and protection glasses when cleaning the device since the acid may have caustic effects. Additionally, please observe the manufacturer's specifications and hazard warnings for citric acid.

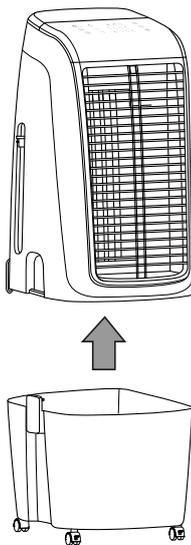
**Notice**  
Clean the device with citric acid if you detect visible signs of limescale. To clean the device, heat it to max. 40 °C. Otherwise, the formation of citrate may cause damages to the device.

The water tank should be cleaned every 3 days if actively used. Empty and clean the water tank before a longer period of non-use or storage and prior to recommissioning (e.g. if the unit has been stored for several months and is dusty).

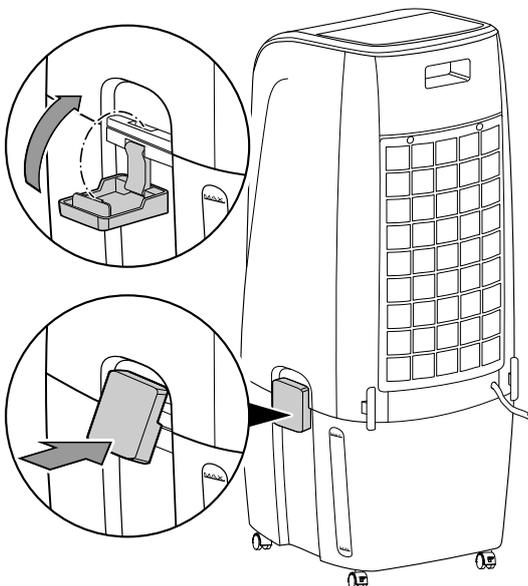
1. Make sure that the slider (15) is secured in the upper position.
2. Open the locking clasps (14) at the device.



- Lift off the top section of the device.



- Thoroughly rinse the water tank with citric acid (descaling agent). Allow the citric acid to work for max. 20 minutes.
- Then rinse the inside of the device with water.
- Dry the inside of the tank with a lint-free cloth.
- Fill the water tank with fresh drinking water if you want to continue operation (see chapter Adding water).
- Put the upper section of the device back onto the water tank.
- Close the locking clasps at the device.



### Cleaning the air filter

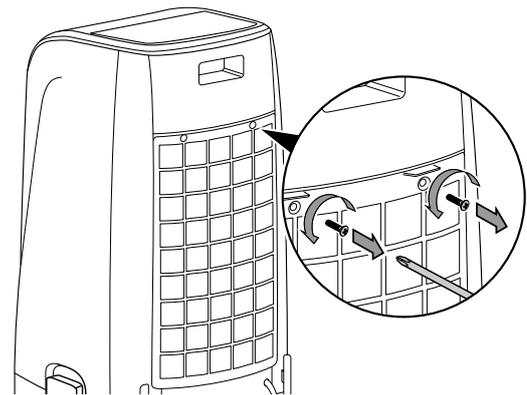
The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).



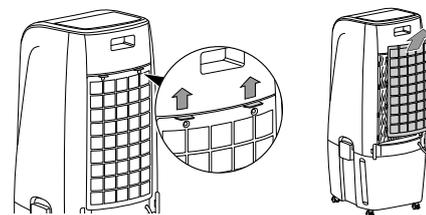
#### Warning

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!

- Loosen the screw at the air filter.

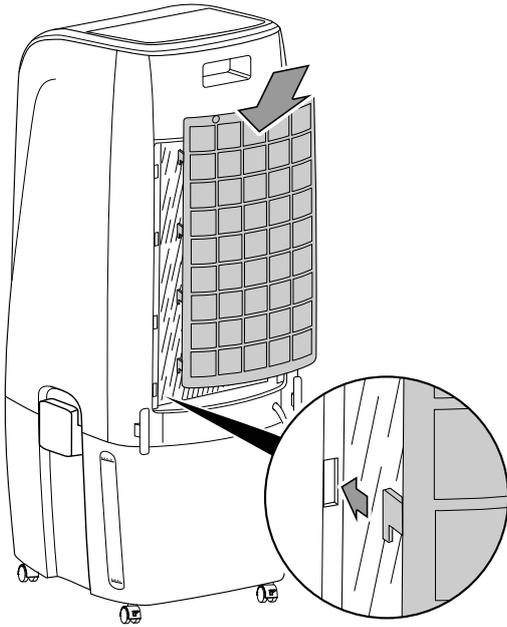


- Remove the air filter from the device.

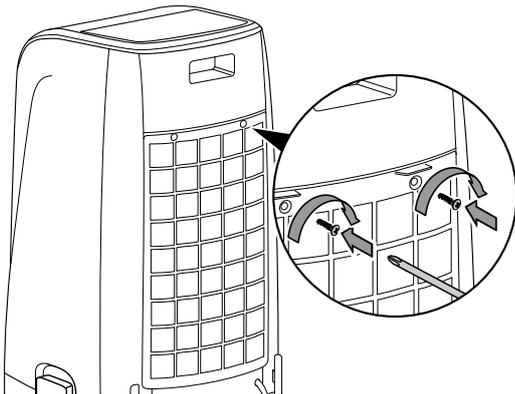


- Clean the filter using a slightly damp, soft, lint-free cloth. If the air filter is heavily contaminated, clean it with warm water mixed with a neutral cleaning agent.
- Allow the filter to dry completely. Do not insert a wet filter into the device!

5. Reinsert the air filter into the device.



6. Reattach the screw to the device.



## Replacing the evaporation filter



### Warning

Do not reach into the device. Keep your hands away from the fan. Risk of injury upon contact with the fan.

### Notice

When set to air cooling mode, the device must not be operated without the evaporation filter, otherwise *cooling* will not work.

### Notice

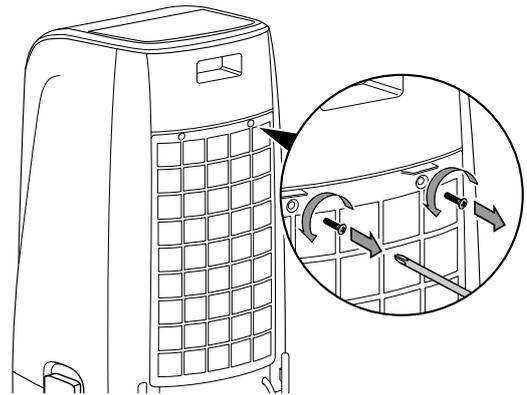
Do not operate the device without an inserted air filter! Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

The evaporation filter should be replaced in case of heavy soiling.

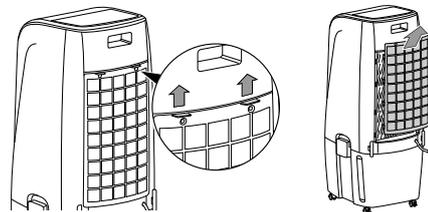
In standard operation, the interval for replacing the evaporation filter is approx. 1 year.

Allow the evaporation filter to dry before removing it from the device.

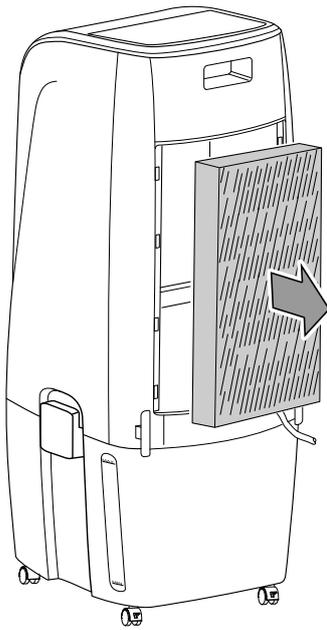
1. Loosen the screw at the air filter.



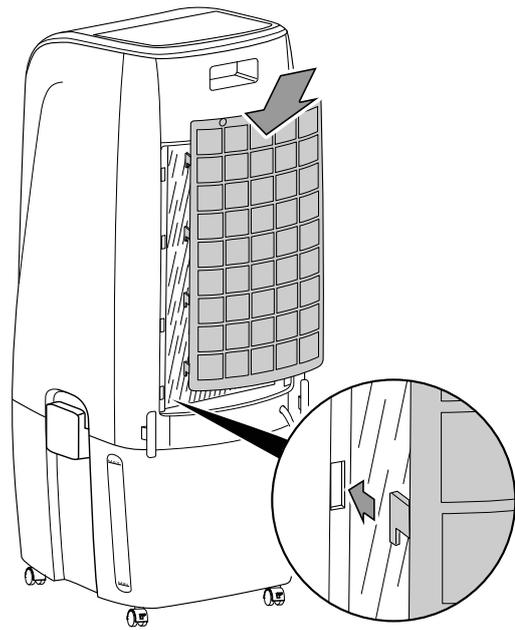
2. Remove the air filter from the device.



3. Remove the evaporation filter from the device.

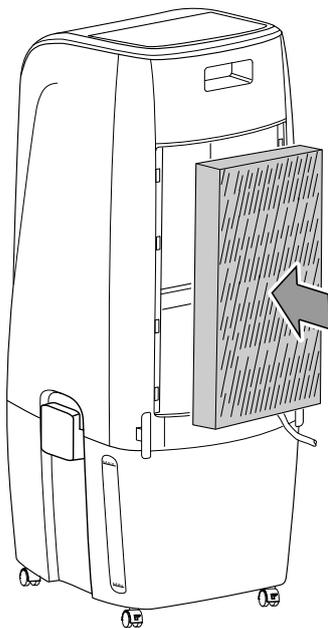


6. Reinsert the air filter into the device.

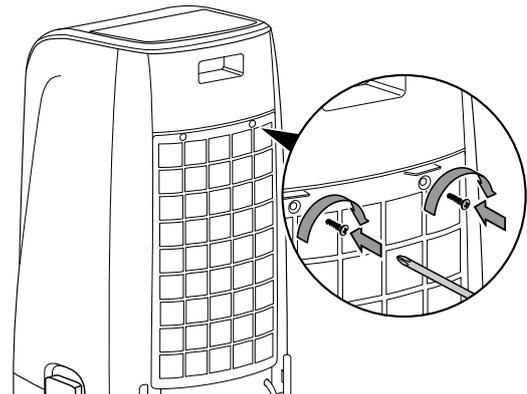


4. Dispose of used evaporation filters according to the national regulations.

5. Insert the new evaporation filter into the device.



7. Reattach the screw to the device.



### Activities required after maintenance

If you want to continue using the device:

- 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

| Parameter                                       | Value   |
|---|---|
| <b>Model</b>                                    | <b>PAE 51/PAE 51 B</b>  |
| Evaporation capacity                            | 2000 ml/h   |
| Air flow rate                                   | 661 m <sup>3</sup> /h   |
| Mains connection                                | 220–240 V / 50 Hz   |
| Nominal current consumption                     | 0.48 A  |
| Power consumption                               | 110 W   |
| Sound pressure level<br>(1 m distance)          | 60 dB(A)  |
| Water tank capacity                             | 20 l  |
| Weight  | 8 kg  |
| Dimensions<br>(length x width x height)         | 390 x 342 x 897 mm  |
| Minimum distance to walls and<br>other objects: | top (A): 100 cm<br>rear (B): 100 cm<br>sides (C): 100 cm<br>front (D): 100 cm |
| Remote control batteries                        | CR2032 - 3 V  |

Information requirements for comfort fans according to Regulation (EU) No 206/2012:

| Parameter                                      | Symbol   | Value | Unit                    |
|--|--|-------|-------------------------|
| Maximum fan flow rate                          | F  | 11.02 | m <sup>3</sup> /min     |
| Fan power input                                | P  | 85.36 | W                       |
| Service value                                  | SV   | 0.13  | (m <sup>3</sup> /min)/W |
| Standby mode power consumption                 | P <sub>SB</sub>                                    | 0.45  | W                       |
| Fan sound power level                          | L <sub>WA</sub>                                    | 66.58 | dB(A)                   |
| Maximum air velocity                           | c  | 7.31  | m/s                     |
| Measurement standard for service value         | EN ISO 5801:2017+A1:2025                           |       |                         |
| Contact details for obtaining more information | Trotec GmbH · Grebbener Straße 7 · 52525 Heinsberg |       |                         |

## Disposal

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



The icon with the crossed-out wheeled bin indicates that this device and any associated components (e.g. remote controls) must not be disposed of with household waste at the end of their life, in accordance with the Waste Electrical and Electronic Equipment Directive (2012/19/EU) and national laws.

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. You can also find out about other return options that apply for many EU countries on the website <https://hub.trotec.com/?id=45090>. 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.



This icon with the crossed-out wheeled bin indicates that batteries or accumulators must not be disposed of with household waste at the end of their life. If the device contains batteries or accumulators that contain mercury, cadmium or lead, the respective chemical symbol (Hg, Cd or Pb) is shown below the icon of the crossed-out wheeled bin. To prevent environmental pollution, do not carelessly leave batteries or electrical and electronic equipment containing batteries in public areas. In the European Union, batteries and accumulators must be returned to a designated collection point in accordance with REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023 concerning batteries and waste batteries. Remove batteries/accumulators and dispose of them separately 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.

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