

TTR 56 E

EN

OPERATING MANUAL
DEHUMIDIFIER



 **TROTEC**

Table of contents

Notes regarding the operating manual..... 1

Safety 1

Information about the device..... 3

Transport and storage..... 4

Assembly and installation..... 4

Operation 5

Errors and faults 8

Maintenance 9

Technical annex..... 13

Disposal 13

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.

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 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:



TTR 56 E



<https://hub.trotec.com/?id=39929>

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 device's power input, cable length and intended use when selecting extensions to the power cable. Completely unroll extension cables. 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.
- 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 tank or drain hose.
- Discharge the collected condensate before transport and storage. Do not drink it. Health hazard!

Intended use

Only use the device for drying and dehumidifying room air, while adhering to and following the technical data.

Intended use comprises:

- dehumidifying and drying:
 - living rooms, bedrooms, bathrooms and basements
 - laundries, holiday homes, camper vans, boats
- maintaining the dryness of:
 - storage spaces, archives, laboratories, garages
 - bathrooms, wash rooms, changing rooms etc.

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, 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.

Notice

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

Behaviour in the event of an emergency

1. Switch the device off.
2. 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

Description of the device

The device operates on the desiccant principle, without compressor or cooling agent.

The fully automatic control and the condensation tank (6) with integrated overflow protection ensure fault-free operation.

The fan sucks in damp room air via the air inlet (4) with air filter (7), the condenser and the desiccant wheel located behind it.

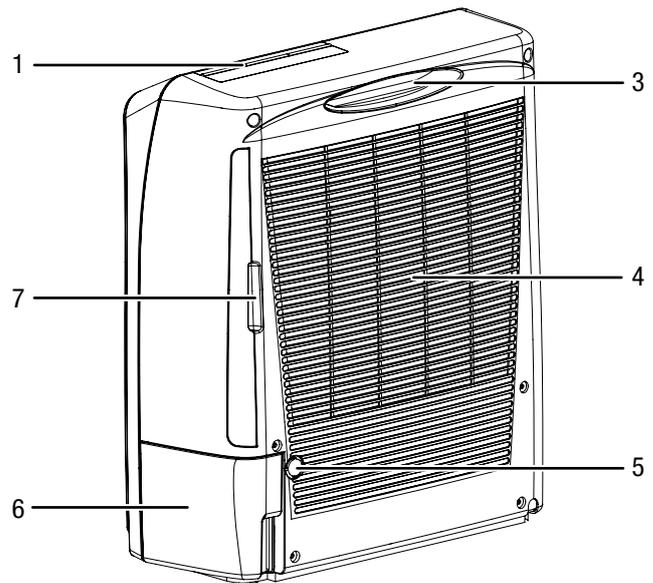
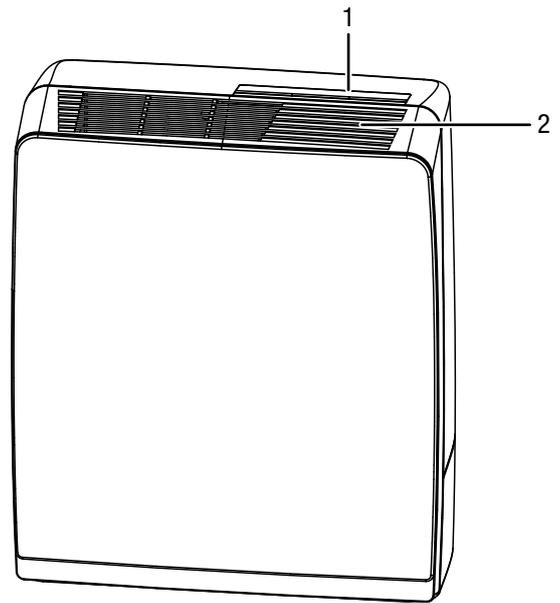
Within the internal regeneration circuit the air is led via a heating element, it dries the desiccant wheel and leads the moist, warm air through the condenser. At the cooler condenser, heat is withdrawn from the room air and cooled below dew point. The water vapour contained in the room air precipitates in form of condensate. The condensate drops into the condensation tank (6).

The drier air, thus conditioned, is fed back to the room air via the air outlet (2). The drier air mixes with the air in the room. The relative humidity in the room where the device is positioned is reduced by the constant circulation of the room air.

A float is attached inside the condensation tank (6), which in case of a filled condensation tank interrupts the dehumidification. When switching off, the device emits a triple acoustic signal and the condensation tank indicator light on the control panel (1) is illuminated (see chapter Operating elements). The indicator light only goes out again once the emptied condensation tank (6) is reinserted.

The device was designed to reduce the humidity level in living and working spaces.

Device depiction



No.	Designation
1	Control panel
2	Air outlet
3	Handle
4	Air inlet
5	Connection opening for condensation hose
6	Condensation tank
7	Air filter

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 a carry handle.

Before transporting the device, observe the following:

- Switch the device off.
 - Due to the follow-up time of the internal components, the device only switches off completely after approx. 2 minutes.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Do not use the power cable to drag the device.
- Drain the remaining condensate from the device and the condensation drain hose (see chapter Maintenance).

After transporting the device, observe the following:

- Set up the device in an upright position after transport.
- Leave the device to rest for one hour before switching it back on. Otherwise the device could be damaged and no longer work properly. Any warranty claims will be voided in this case.

Storage

Before storing the device, proceed as follows:

- Drain the remaining condensate from the device and the condensation drain hose (see chapter Maintenance).
- Empty and clean the condensation tank prior to storage.

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.

Assembly and installation

Scope of delivery

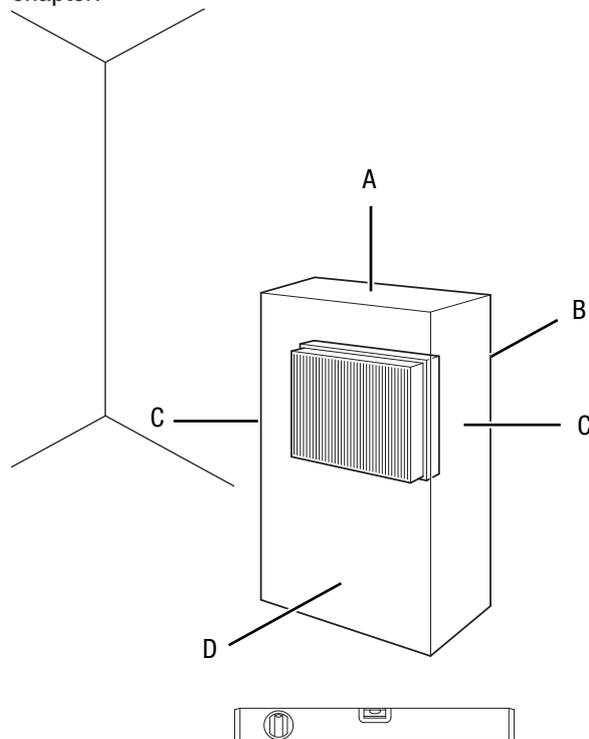
- 1 x Device
- 1 x Air filter
- 1 x Manual

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.
- When positioning the device, keep a sufficient distance to heat sources.
- Make sure that no curtains or other objects interfere with the air flow.

- When positioning the device, particularly in wet areas, secure it locally with an RCD (residual current device) which complies with the respective regulations.

Notes regarding the dehumidification performance

The dehumidification performance depends on:

- the layout of the room
- the room temperature
- the relative humidity

The higher the room temperature and relative humidity, the greater the dehumidification performance.

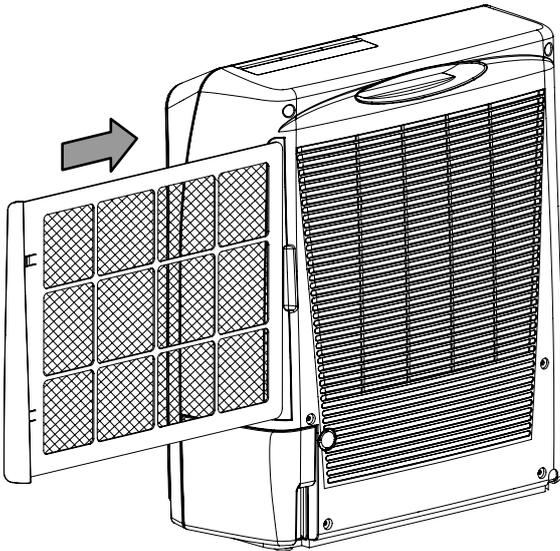
For use in living rooms, a relative humidity of approx. 50 to 60 % is sufficient. In storage facilities and archives, the humidity should not exceed approx. 50 %.

Inserting the air filter

Notice

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

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



Inserting the condensation tank

- Ensure that the float inside the condensation tank is inserted correctly.
- Ensure that the condensation tank is empty and inserted correctly.

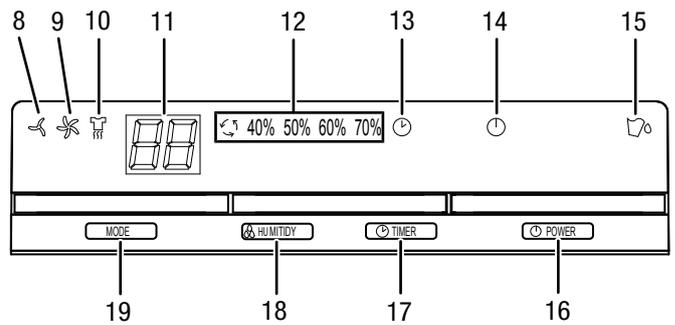
Connecting the power cable

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

Operation

- After being switched on, the device operates fully automatically – depending on the selected operating mode or until the float indicates that the condensation tank is full and the device switches itself off.
- Avoid open doors and windows.

Operating elements



No.	Operating element
8	Eco mode indicator light: Is illuminated when eco mode is activated.
9	Normal operation mode indicator light: Is illuminated when normal operation is activated.
10	Drying mode indicator light: Is illuminated when drying operation is activated.
11	Display: Indicates the ambient air's relative humidity (35 % to 95 % RH). While setting the timer, the display indicates the preselected number of hours for about 8 seconds.
12	Indication of the set humidity value: Indicates the preselected humidity value (40 %, 50 %, 60 % or 70 %) or permanent dehumidification. Default value: 50 %
13	Timer indicator light: Is illuminated when the timer was activated for the selected number of hours.
14	Operation indicator light: Is illuminated in green when the device is switched on. Flashes green when <ul style="list-style-type: none"> • the device was tilted (over): The device switches off. • the device is switching off (rundown operation). An acoustic signal is emitted additionally.
15	Condensation tank indicator light: Is illuminated in red when the condensation tank is full or not positioned properly.

No.	Operating element
16	POWER button: Switches the device on or off. An acoustic signal is emitted.
17	TIMER button: Sets the timer function. If no time is selected for drying operation, the device switches off after 24 hours.
18	HUMIDITY button: Setting the nominal value for humidity in normal operation or eco mode: 40 %, 50 %, 60 %, 70 % or permanent dehumidification. Default value: 50 %
19	MODE button: Setting the operating mode: eco mode, normal operation or drying mode.

Switching the device on

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

Notice

Wait for 3 minutes before you switch the device back on (e.g. after draining the condensation tank).

1. Use the POWER button (16) to switch the device on.
2. Select the desired operating mode by use of the MODE button (19).
3. Set the nominal humidity value by means of the HUMIDITY button (18).
4. Select the desired operating time in hours by use of the TIMER button (17).



Info

If the target humidity value is not reached within 24 hours, the device switches off automatically regardless of the operating mode.

The device also switches off if the target value was reached for a short time but the heating could not cool down sufficiently. After reaching the target value, the heating requires a certain time (approx. 6 min) to cool down.

If the target value is reached within 24 hours and the heating always has sufficient time to cool down, the device will remain in operation even for weeks.

Eco mode

The device operates at low fan speed to save energy.

The heating switches off when the relative humidity in the ambient air falls below the set nominal value. If the humidity increases to above the set value, the heating will switch on again.

Start eco mode as follows:

1. Press the MODE button (19) until the eco mode indicator light (18) is lit.

Normal operation mode

The device operates at normal fan speed. The heating switches off when the relative humidity in the ambient air falls below the set nominal value. If the humidity increases to above the set value, the heating will switch on again.

Start normal operation mode as follows:

1. Repeatedly press the MODE button (19) until the normal operation mode indicator light (9) is lit.

Drying mode (function for drying laundry)

In drying mode the device operates continuously at full capacity until the preselected time has run out. If no time is selected, the device switches off automatically after 24 hours.

In addition, the device may also be used as a kind of clothes dryer to dry wet laundry. When positioning the device or a clothes horse, please observe the minimum distances specified in the technical data.

Start drying mode as follows:

1. Repeatedly press the MODE button (19) until the drying mode indicator light (10) is lit.

Switch-off timer

Use the switch-off timer to automatically switch off the device after a specified time interval (hourly increments from 1 to 24 hours).

Start the switch-off timer as follows:

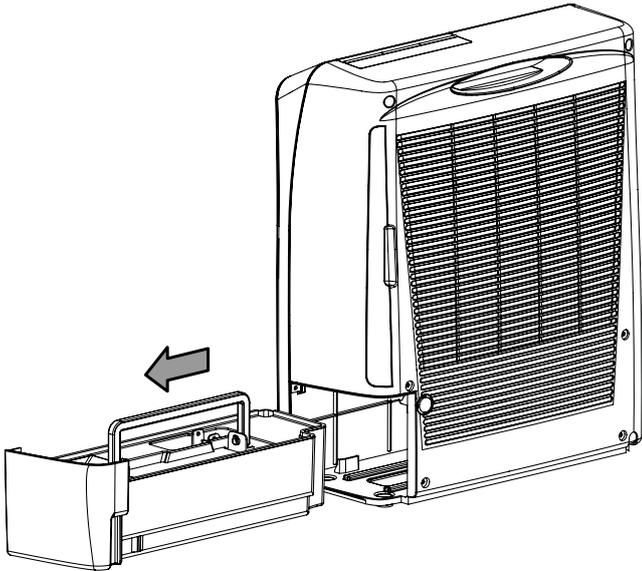
1. Repeatedly press the TIMER button (17) until the desired duration is displayed in hours.

Operation with hose attached to the condensation connection

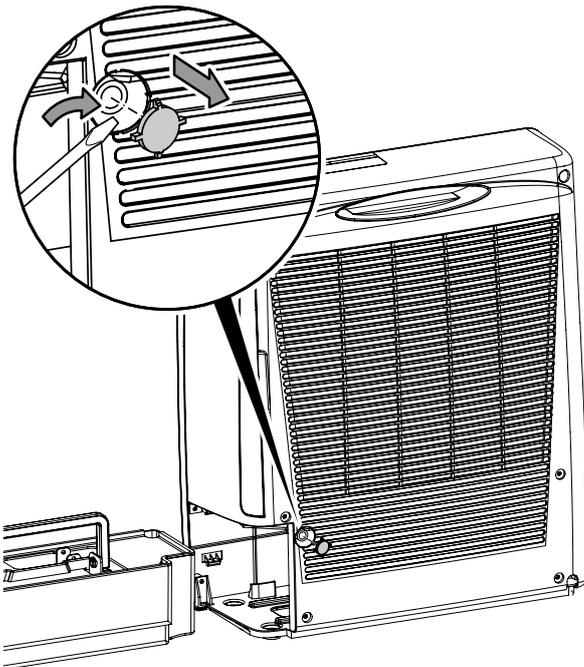
At a high humidity level it is recommendable to constantly drain the condensate via a hose, for otherwise the condensation tank has to be emptied too frequently.

To do so, proceed as follows:

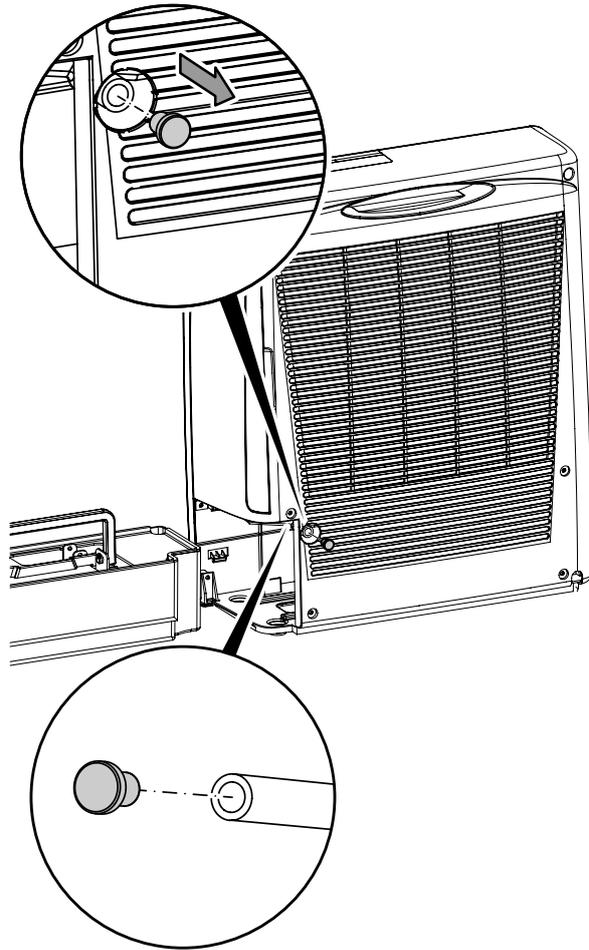
- ✓ A suitable hose (diameter: 12 mm) is ready for use.
 - ✓ The device is switched off.
1. Remove the condensation tank.



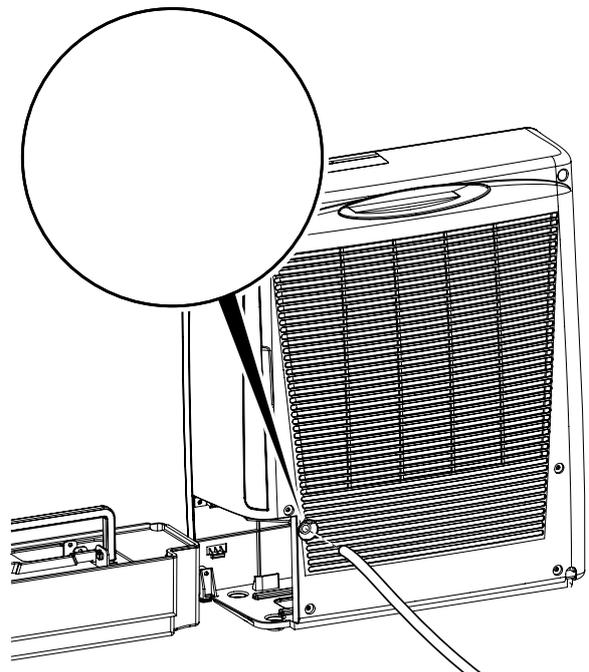
2. Remove the protective cap at the condensation connection, e.g. by means of a slotted screwdriver.



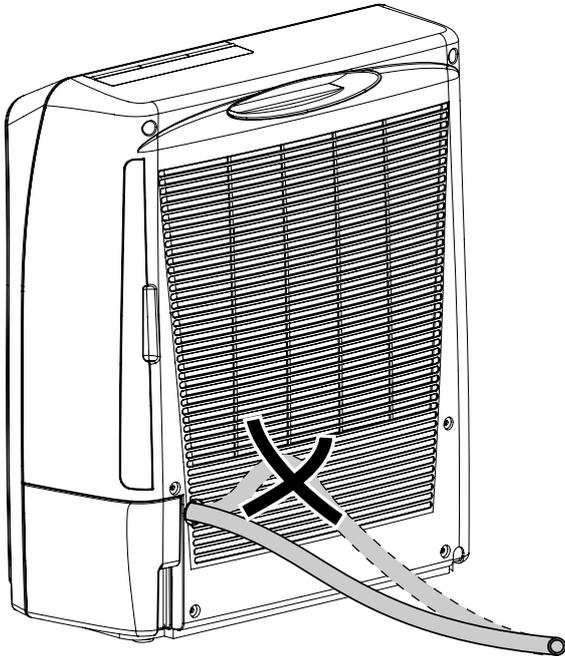
3. Remove the rubber stopper from the condensation connection.



4. Insert the plug into the condensation tank drain located within the device.
5. Push one end of the hose onto the hose connection.



6. Put the condensation tank back in.
7. Guide the other hose end to a suitable drain or sufficiently dimensioned collection container. Please observe that the hose must not be kinked.



Shutdown



Warning of electrical voltage

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

- Switch off the device.
- Wait for approx. 2 minutes.
 - Due to the follow-up time of the internal components, the device only switches off completely after approx. 2 minutes.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Empty the condensation tank, if need be.
- Clean the device according to the Maintenance chapter.
- Store the device according to the Storage chapter.

Errors and faults

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

The device does not start:

- Check the power connection.
- Check the power cable and mains plug for damages.
- Check the on-site fusing.
- Check the condensation tank for correct seating.

- The device comes equipped with a tilt protection, it switches off automatically when tilted. The operation indicator light (44) must be illuminated in green. When the lamp flashes, check whether device is in an upright position on a level surface.
- Check the room temperature. Observe the device's permissible operating range according to the technical data.
- Wait for 10 minutes before restarting the device. If the device is not starting, have the electricians checked by a specialist company or by Trotec.

The device is running, but there is no formation of condensate:

- Check the float in the condensation tank for dirt. If necessary, clean the condensation tank. The float must be able to move freely.
- Check the room temperature. Observe the device's permissible operating range according to the technical data.
- Ensure that the relative room humidity complies with the technical data.
- Check the air filter for dirt. If necessary, clean or replace the air filter.
- From the outside, check the condenser for dirt (see chapter Maintenance). If the condenser is dirty, have it cleaned by a specialist company or by Trotec.

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 device gets very warm, is loud or loses power:

- Check the air inlets and air filter 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.

Notice

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.

Notice

For reasons of safety, the device switches off automatically after a period of 24 hours.

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
Empty condensation tank and drain hose		X				
Check the 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 air filter					X	
Check for damage	X					
Check the attachment screws		X				X
Test run						X

Maintenance and care log

Device type:

Device number:

Maintenance and care interval	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Empty condensation tank and drain hose																
Check the 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 air filter																
Check for damage																
Check the attachment screws																
Test run																
Remarks:																

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 off the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Allow the device to cool down completely.



Warning of electrical voltage

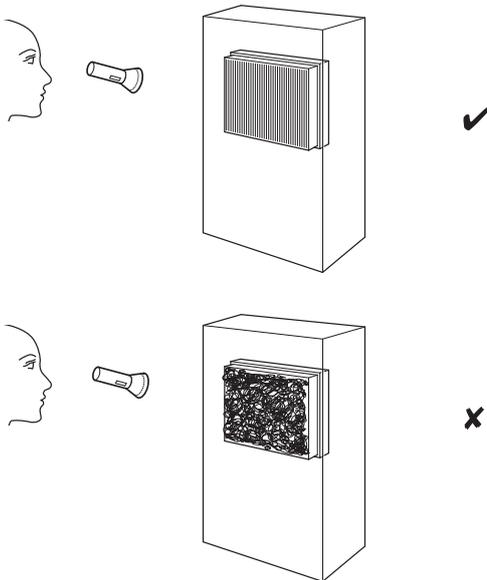
Tasks which require the housing to be opened must only be carried out by authorised specialist companies or by Trotec.

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.

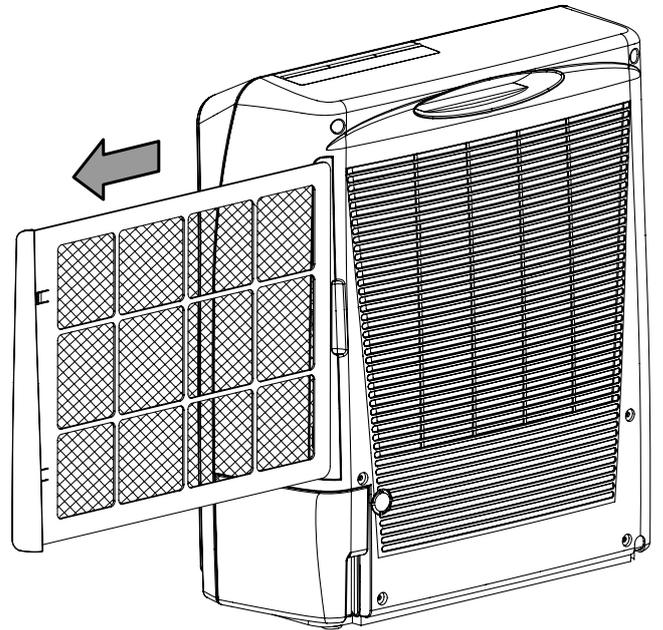
Visual inspection of the inside of the device for dirt

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.

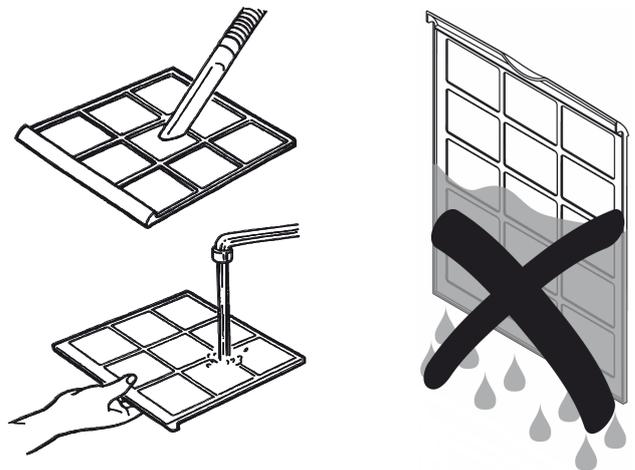


The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).

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.



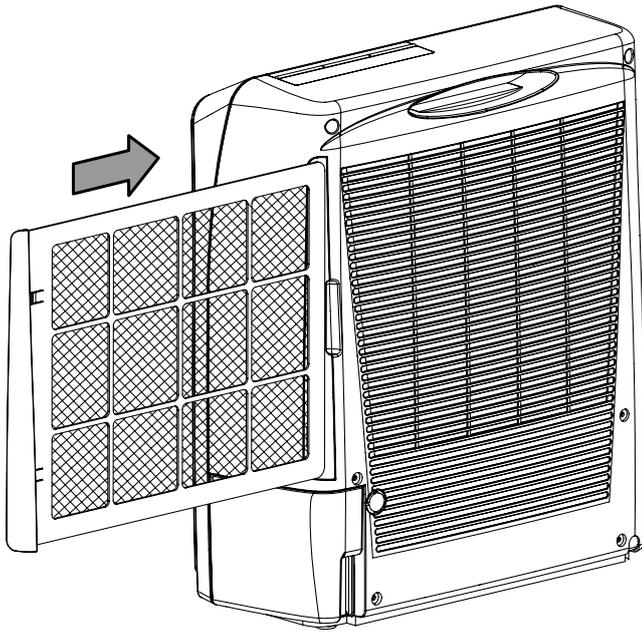
3. Allow the filter to dry completely. Do not insert a wet filter into the device!

Cleaning the air filter

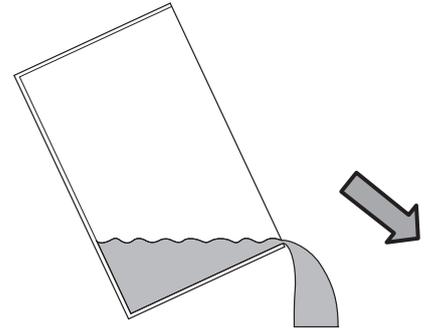
Notice

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!

4. Reinsert the air filter into the device.



2. Empty the condensation tank over a drain or sink.

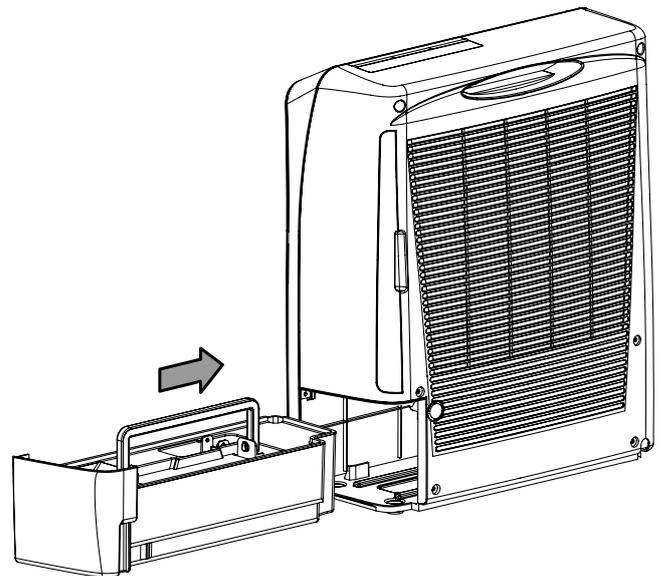
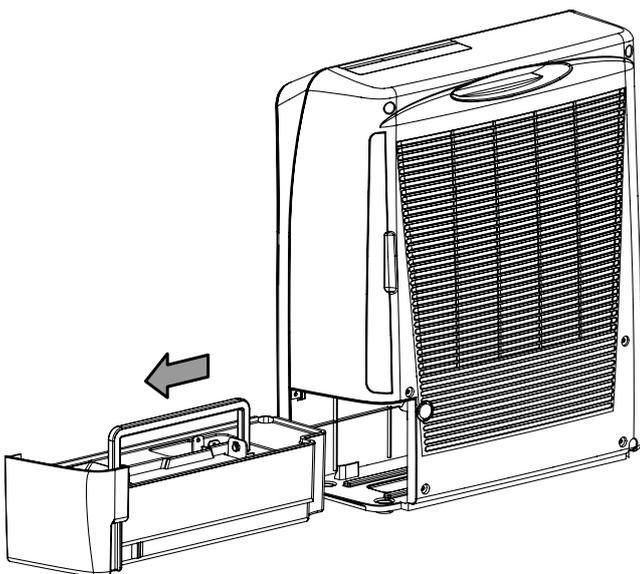


3. Rinse the tank with clear water. Clean the tank regularly using a mild cleaning agent (no detergent!).
4. Refit the condensation tank into the device. Make sure not to damage the float when inserting or removing the condensation tank. In doing so, make sure that the float is positioned correctly. In doing so, make sure that the condensation tank is inserted correctly, for otherwise the device cannot be switched back on.

Emptying the condensation tank

The condensation tank needs to be drained when the condensation tank indicator light (15) lights up. The device stops operation and emits an acoustic signal. In order to interrupt the acoustic signal, you can switch the device off by means of the POWER button (16).

1. Take the condensation tank out of the device.



Activities required after maintenance

If you want to continue using the device:

- Leave the device to rest for one hour before switching it back on. Otherwise the device could be damaged and no longer work properly. Any warranty claims will be voided in this case.
- Reconnect the device to the mains.

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

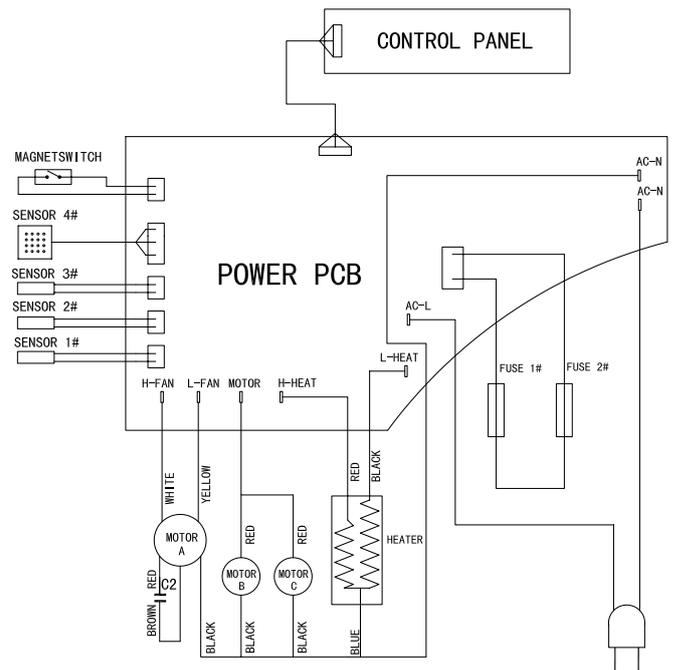
- Store the device according to the Storage chapter.

Technical annex

Technical data

Parameter	Value
Max. dehumidification performance	9 l / 24 h
Operating temperature	1 °C to 32 °C
Operating range	35 % to 95 % RH
Air flow rate	200 m ³ /h
Mains connection	230 V / 50 Hz
Power consumption, max.	780 W
Power input, min.	470 W
Fuse on site	10 A
Condensation tank capacity	3.5 l
Weight	8.5 kg
Dimensions (depth x width x height)	200 x 445 x 525 mm
Minimum distance to walls and other objects	A: top 90 cm B: rear 40 cm C: side 40 cm D: front 50 cm
Sound pressure level LpA (1 m; complies with DIN 45635-01-KL3)	45 dB(A)

Wiring diagram



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.

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.

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