

TTK 70 HEPA

EN

INSTRUCTIONS
DEHUMIDIFIER



 **TROTEC**

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Information on the use of these instructions

Symbols



A3 Danger

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



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

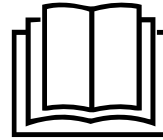
Information marked with this symbol helps you to carry out your tasks quickly and safely.



Follow the manual

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

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



TTK 70 HEPA



<https://hub.trotec.com/?id=45721>

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 condensation tank/tray or drain hose.
- Discharge the collected condensate before transport and storage. Do not drink it. Health hazard!
- Only use original spare parts, for otherwise safe and functional operation cannot be ensured.



Safety warnings for devices containing flammable refrigerants

- Only position the device in rooms where potentially leaking refrigerant cannot accumulate. Unventilated rooms in which the device is installed, operated or stored must be built in a way to ensure that potentially leaking refrigerant cannot accumulate. This serves to avoid fire or explosion hazards resulting from an ignition of the refrigerant by an electric furnace, cooking stove or another ignition source.

Warning

- Store the appliance in a room without continuously operating open flames (for example an operating gas appliance) or other potential ignition sources (for example an operating electric heater, hot surfaces).
- Please note that the refrigerant is odourless.
- Only install the device in compliance with the national installation regulations.
- Please observe the local regulations.
- Observe the national regulations for gas installations.
- Only install, operate and store the device in a room measuring more than 4 m².
- Store the device in a way that no mechanical damage can occur.
- R290 is a refrigerant that complies with European environmental regulations. No part of the cooling circuit may be perforated.
- Observe the maximum refrigerant capacity in the technical data.
- Do not drill into or burn.
- Do not use any means other than those recommended by the manufacturer for accelerating the defrosting process or cleaning the device.
- Every person working with or at the refrigerant circuit must be able to provide a certificate of qualification issued by a body accredited by the industry, demonstrating their competence in the safe use of refrigerants based on a procedure well-known in the industry.
- Service work may only be carried out in accordance with the manufacturer's specifications. If maintenance and repair work require the support of additional persons, the person trained in handling flammable refrigerants shall continuously supervise the work carried out.
- The entire refrigerant circuit is a maintenance-free, hermetically sealed system and may only be maintained or repaired by specialist companies for cooling and air-conditioning or by the manufacturer.

Intended use

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

In addition, the device may also be used as a kind of clothes dryer to dry wet laundry.

Intended use comprises:

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

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

Reasonably foreseeable misuse

- The device is not intended for industrial use.
- 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.
- Do not place the device on wet or flooded ground, e.g. near floor drains.

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.

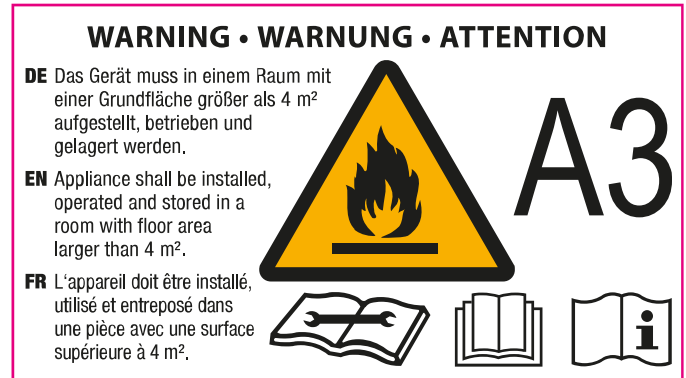
Maintenance tasks which require the housing to be opened must only be carried out by specialist companies for cooling and air-conditioning or by the manufacturer.

Safety signs and labels on the device

Notice

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

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



Follow the manual

This symbol indicates that the instructions must be observed.



Follow the repair manual

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

Residual risks



Danger

Natural refrigerant propane (R290)!

H220 – Extremely flammable gas.

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

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

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

P410+P403 – Protect from sunlight. Store in a well-ventilated place.



Warning of electrical voltage

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



Warning of electrical voltage

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

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.

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 device is equipped with an integrated HEPA filter that removes pollen, viruses, dust mite residues, mould spores and other allergens from the air with an efficiency of 95 %.

The fan sucks damp room air through the integrated air inlet, the air filter, the HEPA filter, the evaporator and to the condenser located behind it. The air is cooled at the cold evaporator until it is below the dew point. Water vapour contained in the room air precipitates on the evaporator fins as condensation or rime. The dehumidified, cooled air is slightly warmed at the condenser and blown out again. The drier air thus conditioned mixes with the air in the room. The humidity in the room where the device is positioned is reduced as air constantly circulates through the device.

The device uses the principle of condensation to automatically dehumidify rooms.

Depending on the air temperature and the relative humidity, the condensed water either drops continuously or only during the defrost phase through the integrated drain nozzle into the condensation tank below. It is fitted with a float to measure the filling level.

The device has a control panel for operating and controlling the functions.

Once the maximum filling level of the condensation tank is reached or in case the condensation tank is not installed correctly, the condensation tank indicator light (see chapter Operation) on the control panel is illuminated. The device switches off. The condensation tank indicator light only goes out again once the emptied condensation tank is reinserted.

Optionally, the condensed water can be drained by attaching a hose at the condensation connection.

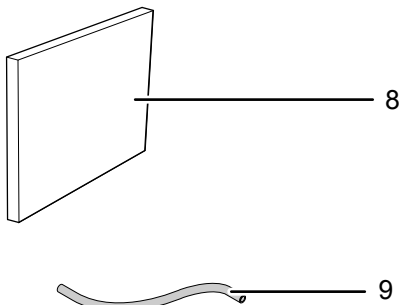
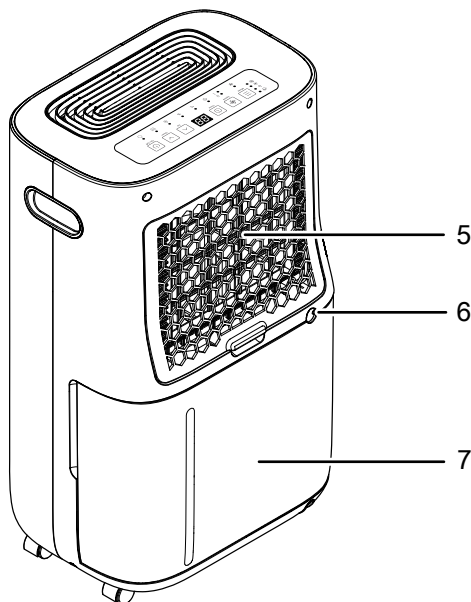
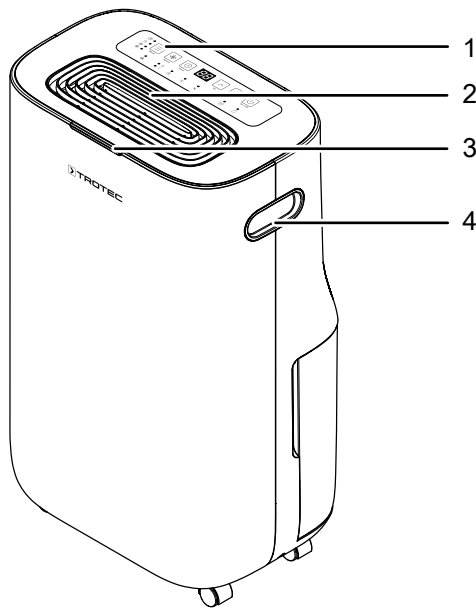
The device can reduce the relative humidity of a room to approx. 30 %.

In addition, the device may also be used as a kind of clothes dryer to dry wet laundry in living and working spaces.

Because of the heat radiation generated during operation, the room temperature may rise slightly.

The device is not protected against water (IPX0).

Device depiction



No.	Designation
1	Control panel
2	Air outlet
3	Colour LED for current room humidity
4	Transport handle
5	Air inlet with integrated air filter
6	Condensation drain hose connection
7	Condensation tank
8	HEPA filter
9	Condensation drain hose

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

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

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

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.
- Drain the remaining condensate from the device and the condensation drain hose (see chapter Maintenance).
- Do not use the power cable to drag the device.

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:

- Drain the remaining condensate from the device and the condensation drain hose (see chapter Maintenance).
- 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:

- Only store the device in a room measuring more than 4 m².
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance, an electric heater).
- Store the device in a dry location and protected from frost and heat.
- Store the device in an upright position where it is protected from dust and direct sunlight.
- If required, use a cover to protect the device from invasive dust.
- Place no further devices or objects on top of the device to prevent it from being damaged.

Assembly and start-up

Scope of delivery

- 1 x Device
- 1 x hose for the condensate drain, 30 cm length, 10 mm diameter
- 1 x HEPA filter
- 1 x Manual

Unpacking the device



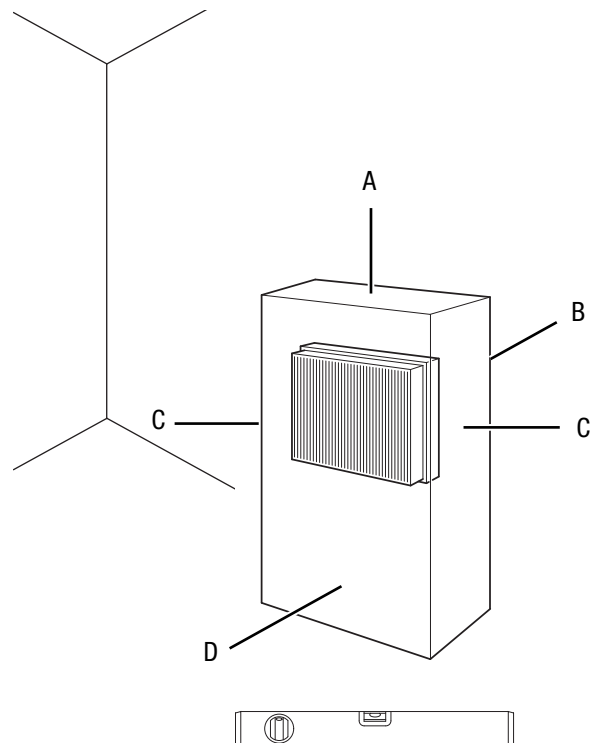
Warning

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.



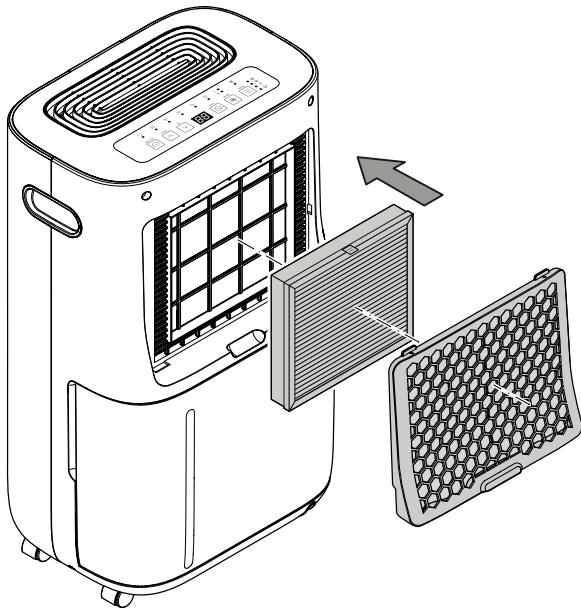
- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Only position the device in rooms where potentially leaking refrigerant cannot accumulate.
- Store the appliance in a room without continuously operating open flames (for example an operating gas appliance) or other potential ignition sources (for example an operating electric heater, hot surfaces);
- 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.
- When positioning the device, keep a sufficient distance to heat sources.
- Make sure that no curtains or other objects interfere with the air flow.

Inserting the HEPA filter

Notice

Remove any packing material from the HEPA filter. To change the filter, proceed as described in the Maintenance chapter under Cleaning and replacing the HEPA filter.

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



Inserting the condensation tank

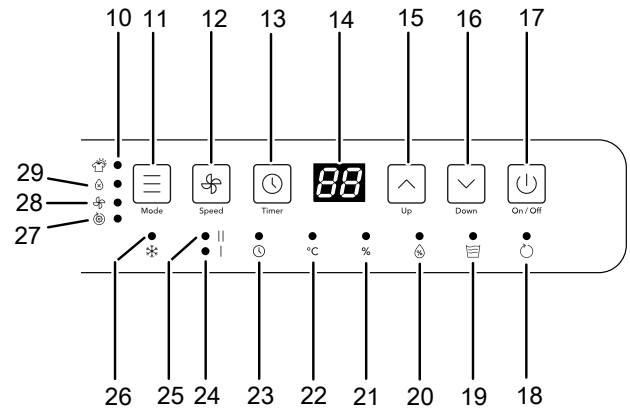
- Ensure that the float inside the condensation tank is inserted correctly.
- Ensure that the condensation tank is empty and inserted correctly.

Connecting the power cable

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

Operation

- Avoid open doors and windows.
- After being switched on, the device operates fully automatically.
- The fan continues to run in dehumidification mode for 3 minutes after the selected setpoint has been reached.



Operating elements

No.	Designation	Meaning
10	LED	Illuminated when the laundry drying mode is selected
11	Mode button	For setting the operating mode
12	Speed button	For setting the desired fan speed
13	Timer button	Automatic switch-off (1 to 24 h) activates child lock
14	Segment display	Displays the desired relative humidity level, the current room humidity, the number of hours of the timer or the temperature
15	Up button	Increasing the desired relative humidity/number of hours
16	Down button	Decreasing the desired relative humidity/number of hours
17	On/Off button	Switching the device on or off
18	LED	Flashes if the device is in stand-by mode/ Flashes if the device is switched on
19	LED	Illuminated when the condensation tank is full, not installed correctly or missing
20	LED	Illuminated once the set humidity level is reached
21	% LED	Illuminated if the relative humidity level is displayed
22	°C LED	Illuminated if the room temperature is displayed

No.	Designation	Meaning
23	 LED	Illuminated when the timer is activated
24	LED I	Illuminated when a low fan speed is set
25	LED II	Illuminated when a high fan speed is set
26	 LED	Illuminated when automatic defrosting is activated
27	 LED	Illuminated when the automatic operation mode is selected
28	 LED	Illuminated when the ventilation mode is selected
29	 LED	Illuminated when the dehumidification mode is selected



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, the  LED (18) is illuminated and indicates that the device is in stand-by mode.

- Press the *On/Off* button (17).
 - ⇒ The  LED (18) is permanently illuminated.
 - ⇒ The device is in the operating mode that was activated before it was last switched off.

Colour LED for current room humidity

Regardless of the operating mode, the colour LED (3) indicates the current relative room humidity by means of 3 different colours.

LED colour	Meaning
Blue	Relative room humidity below 50 %
Green	Optimal relative room humidity between 50 % and 70 %
Red	Relative room humidity is equal to/or above 70 %.

Setting the operating mode

The following operating modes can be set on the device:

- Dehumidification
- Laundry drying function
- Automatic operation
- Ventilation

Dehumidification

The device runs until the desired relative room humidity is reached. Then the compressor switches off and the fan continues to run for another 3 minutes before it switches off. Once the desired room humidity is exceeded, the compressor and fan switch back on.

- Press the *MODE* button (11) to select the operating mode.
 - ⇒ The indication of the currently selected operating mode flashes.
- Repeatedly press the *MODE* button (11) until the operating mode LED *Dehumidification* (29) flashes.
 - ⇒ The LED of the selected operating mode flashes for approx. 5 seconds before the operating mode is activated.

Setting the desired relative room humidity

You can only change the relative room humidity in *dehumidification* mode.

- Set the desired room humidity on the control panel by pressing the *Up* button (15) or the *Down* button (16).
 - ⇒ Setting is possible in the range between 30 % to 80 %.
 - ⇒ The set value flashes for 5 seconds on the segment display, then the current relative room humidity is permanently displayed.

Automatic operation

During automatic operation, the device automatically regulates the humidity level in the room. The compressor switches on and off as required. The  LED (27) is illuminated.

In automatic mode, the fan speed remains at a low level (LED I is illuminated) and cannot be adjusted.

The relative room humidity cannot be set.

The current humidity value is indicated on the segment display (14).

Laundry drying function

With activated laundry drying function, the device continuously dehumidifies with high power, regardless of the humidity level. The  LED (10) is illuminated.

The fan speed remains at the high level (LED II is illuminated) and cannot be adjusted.

The relative humidity cannot be set.

The current humidity value is indicated on the segment display (14).

Ventilation

In ventilation mode, the device cleans the air without dehumidification.

In *ventilation* mode you can choose between low and high fan speed.

The current humidity value is indicated on the segment display (14).

1. Press the *Speed* button (12).
 - ⇒ If the fan speed is set to a low level, LED I (24) is illuminated.
 - ⇒ If the fan speed is set to a high level, LED II (25) is illuminated.

Setting the timer

Notice

The device must not be left unattended in a freely accessible room with an activated timer.

The timer allows to switch the device off automatically after a preset number of hours.

The function can be set in addition in all operating modes. The number of hours can be set in hourly increments (1 h to max. 24 h).

Please proceed as follows to set the timer:

- ✓ The device is switched on.
- 1. Press the *Timer* button (13).
- 2. Repeatedly press the *Up* button (15) or the *Down* button (16) to set the desired number of hours (0 to 24).
 - ⇒ The set value flashes on the segment display for approx. 5 seconds, then the relative humidity level is displayed again.
 - ⇒ The ⌚ LED (23) is illuminated.
 - ⇒ The device switches off after the predefined time.



Info

If you are not sure to which number of hours the timer has been set to, you can display the set value by briefly pressing the *Timer* button.

Notes regarding automatic switch-off:

- Manually switching the device off disables the automatic switch-off function.
- If you select 0 hours, the timer will be off.

Memory function

If you switch the device back on again, the settings selected for the operating mode, the relative humidity level and fan speed are saved. If a timer has been set, it will not be saved.

The device memorises the settings even during short power failures. In this case, the device automatically switches back on. The previous settings are saved except for the timer.

Auto stop function

Once the condensation tank is full, the device will stop automatically. The  LED (19) is illuminated. Empty the condensation tank as described in section *Emptying the condensation tank*.

Locking function

The locking function locks using the buttons on the control panel.

1. Press the *Timer* button (13) for approx. 2 seconds to activate the child lock.
 - ⇒ The segment display indicates *LC*.
 - ⇒ Making inputs on the control panel is locked.
2. Press the *Timer* button (13) for approx. 2 seconds if you want to deactivate the child lock function.
 - ⇒ The segment display indicates the relative humidity level again.
 - ⇒ The buttons on the control panel are unlocked.

Indication of the room temperature

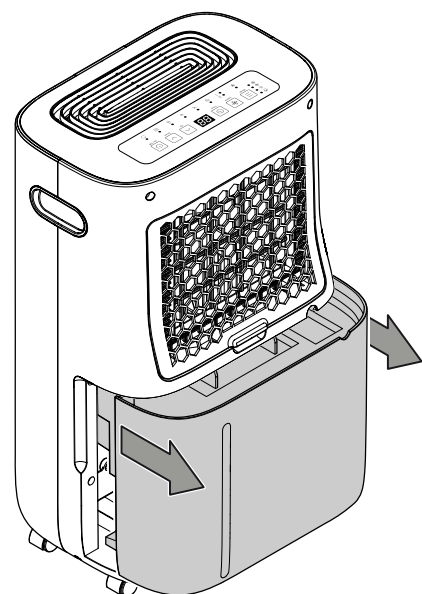
1. Press the *Up* button (15) for approx. 3 seconds.
 - ⇒ An acoustic signal is emitted and the room air temperature flashes on the segment display.
 - ⇒ The °C LED (22) is illuminated.
 - ⇒ After approx. 5 seconds, the segment display indicates the relative humidity level again.

Operation with hose attached to the condensation connection

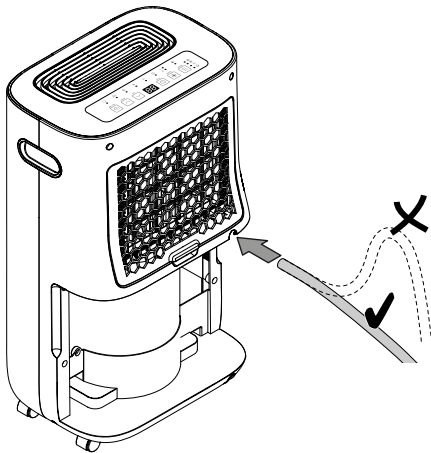
For continuous operation or unattended dehumidification, please connect the supplied condensation drain hose to the device.

- ✓ The supplied hose (diameter: 10 mm) is ready for use.
- ✓ The device is switched off.

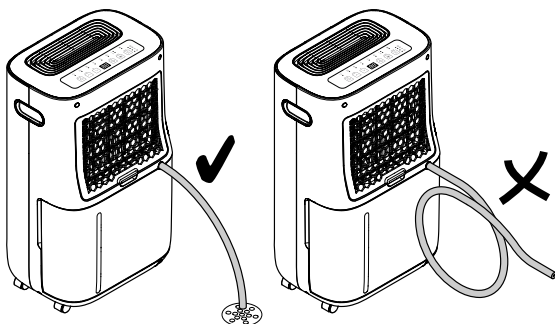
1. Remove the condensation tank.



2. Push one end of the hose onto the connection for the condensation drain hose (6).



3. Refit the condensation tank into the device. When doing so, make sure that the condensation drain hose does not slip out of place or does not become disconnected from the connection.
4. The other hose end must be guided to a sufficiently dimensioned collection container or to a suitable drain (e.g. floor drain). Please note that the hose must not be kinked nor guided upwards.



5. Remove the hose if you want to collect the condensate in the condensation tank again. Allow the hose to dry prior to storage.

Automatic defrosting

At low ambient temperatures, ice may form at the vaporizer during dehumidification. The device will then perform automatic defrosting. Dehumidification is briefly interrupted during defrosting. The fan keeps running. The duration of defrosting can vary. Do not switch off the device during automatic defrosting. Do not remove the mains plug from the mains socket.

The ❄️ (26) LED is illuminated during automatic defrost.

Drying laundry

In addition, the device may also be used as a kind of clothes dryer to dry wet laundry in living or working spaces.

When positioning the device or a clothes horse, please observe the minimum distances specified in the technical data.

The following humidity values are suitable for drying laundry:

- cupboard dry = 46 % relative humidity
- iron dry = 58 % relative humidity
- slightly dried = 65 % relative humidity

Adjust the settings for the relative humidity level to the device (e.g. 60 % relative humidity for iron dry laundry). If necessary, use a measuring device to determine the humidity level.

Shutdown



Warning of electrical voltage

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

- Press the *On/off* button (17) to activate the stand-by mode. The ⏻ LED (18) flashes.
- 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 condensation tank/tray if necessary.
- 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
HEPA filter Plus	7.710.000.077
Air filter Plus	7.710.000.080

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.
- Check the condensation tank for correct seating.
- Check the room temperature. Observe the device's permissible operating range according to the technical data.
- If the device is not starting, have the electrics checked by a specialist company or by the manufacturer.

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 preselected desired room humidity level. The relative humidity in the room must be above the selected range. If necessary, reduce the preselected desired room humidity.
- Check the air filter and HEPA filter for dirt. If necessary, clean or change the air filter or HEPA 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 the manufacturer.

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 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 preselected desired room humidity level. The relative humidity in the room must be above the selected range. If necessary, reduce the preselected desired room humidity.
- Check whether the overheating protection of the compressor has tripped. Disconnect the device from the mains and let it cool down for approx. 10 minutes before reconnecting it.
- The device might carry out an automatic defrost. During automatic defrost, the device does not dehumidify.

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

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

The device still does not operate correctly after these checks:

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

Maintenance

Maintenance intervals

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

1. Date: Signature:	2. Date: Signature:	3. Date: Signature:	4. Date: Signature:
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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.
- 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.

Refrigerant circuit



^{A3} Danger

Natural refrigerant propane (R290)!

H220 – Extremely flammable gas.

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

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

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

P410+P403 – Protect from sunlight. Store in a well-ventilated place.

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

Safety signs and labels on the device

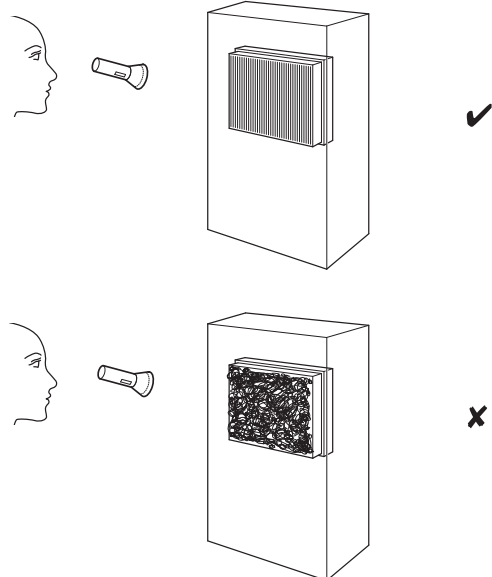
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

Cleaning the housing

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

Visual inspection of the inside of the device for dirt

1. Remove the cover with integrated 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 the manufacturer.
5. Replace the cover with the integrated air filter.



Cleaning and replacing the HEPA filter

Notice

Do not operate the device without a HEPA filter inserted!

Notice

The HEPA filter cannot be washed and must be replaced if necessary.

Notice

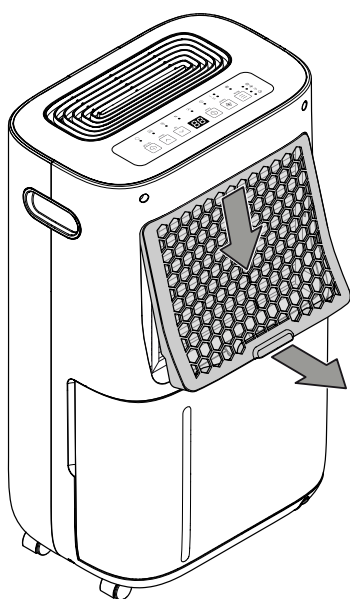
The lifetime of the HEPA filter depends on the ambient conditions and the application period of the device.

- The HEPA filter must be cleaned or replaced if it is very dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).
- Make sure that the HEPA filter is installed before switching the device on.

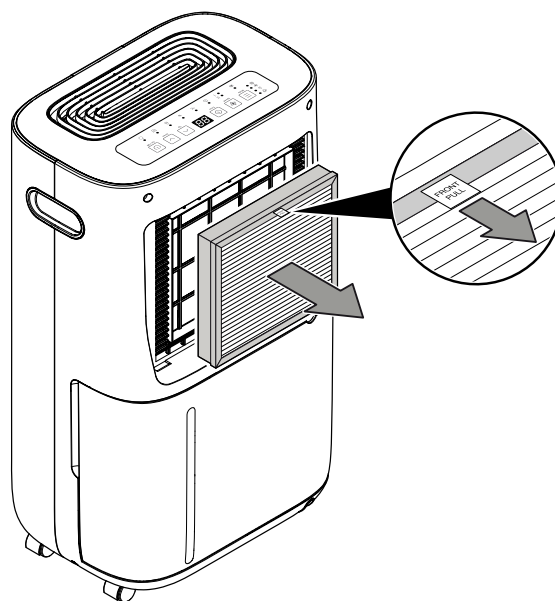
The operating life is approx. 1 year, depending on the degree of air pollution.

If required, visually inspect the HEPA filter for dirt.

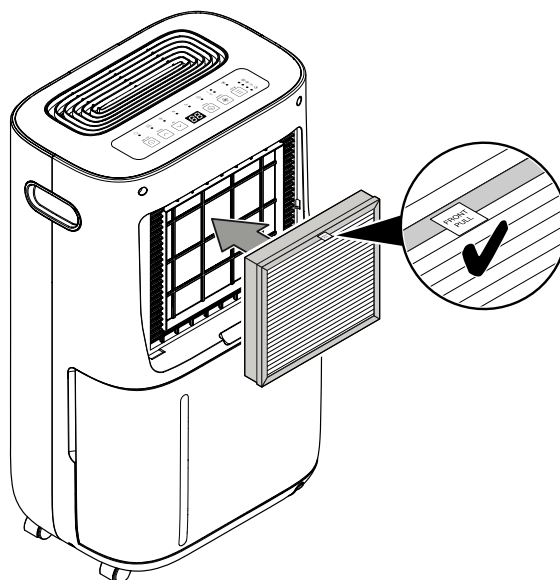
1. Remove the cover of the air inlet.



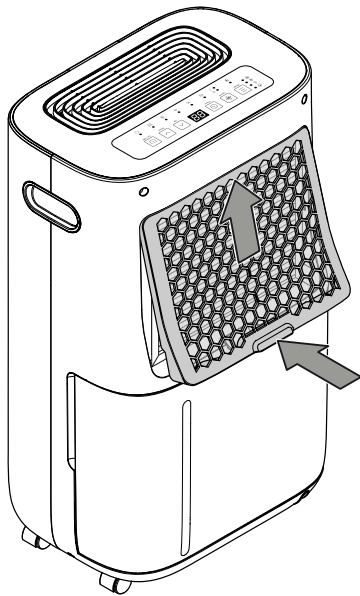
2. Pull the strip to take the HEPA filter out of the device.



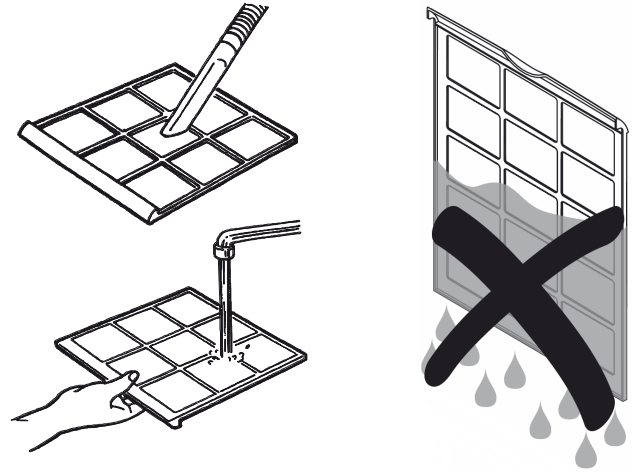
3. Clean the HEPA filter with a dry, lint-free cloth if it is slightly dirty. If heavily soiled, dispose of the HEPA filter in accordance with the national regulations and remove the new HEPA filter from the plastic cover.
4. Insert the cleaned / new HEPA filter into the device. Make sure that the strip is positioned as indicated.



5. Insert the air inlet cover back into the device.



2. Clean the cover and the integrated filter with a slightly damp, soft, lint-free cloth. If the filter is heavily contaminated, clean it with warm water mixed with a neutral cleaning agent.



Cleaning the air filter

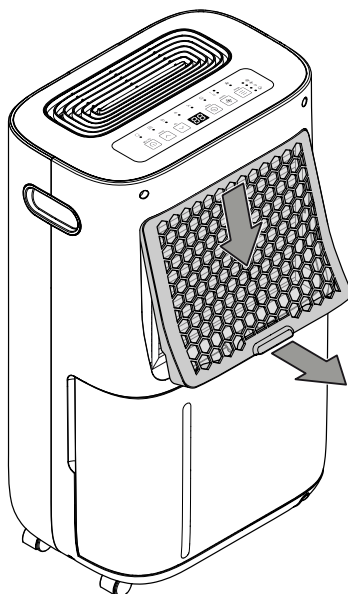
Notice

Ensure that the integrated air filter is not worn or damaged. Before reinserting the air filter, make sure that it is undamaged and dry!

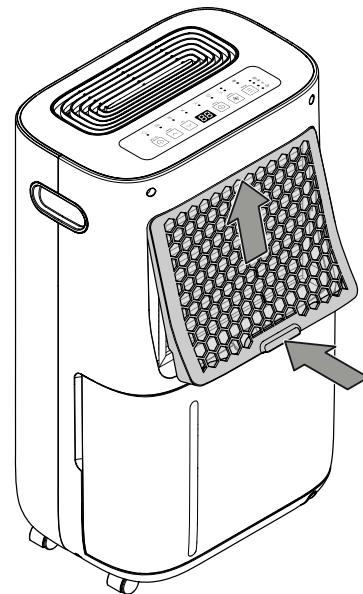
The device is equipped with an air filter (prefilter) that is integrated into the the air inlet cover.

The filter has to be cleaned as soon as it is dirty. It becomes clear that it is contaminated if the device's performance is reduced (see chapter Errors and faults).

1. Remove the cover of the air inlet.



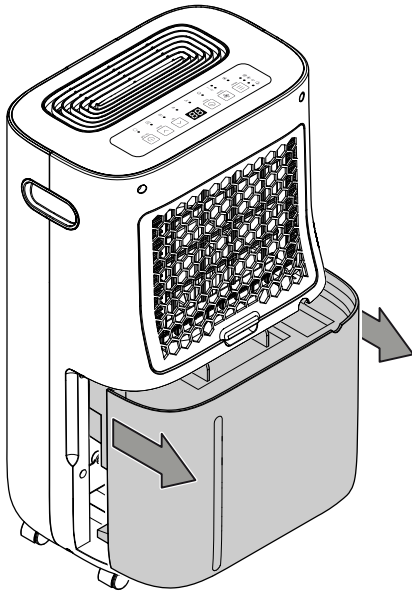
3. Allow the filter to dry completely. Do not insert the air inlet cover into the device with a wet filter!
4. Insert the air inlet cover into the device.



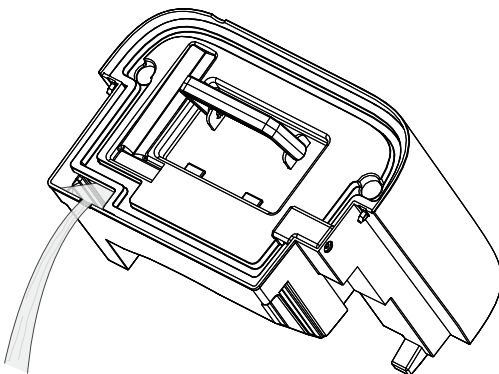
Emptying the condensation tank

If the condensation tank is full or not installed correctly, the  LED (19) will be illuminated.

1. Take the condensation tank out of the device.

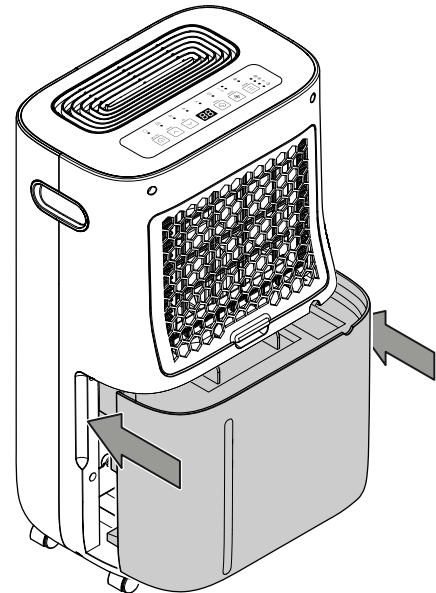


2. Empty the condensation tank over a suitable drain, e.g. a toilet, a wash basin or a sink.



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.



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.

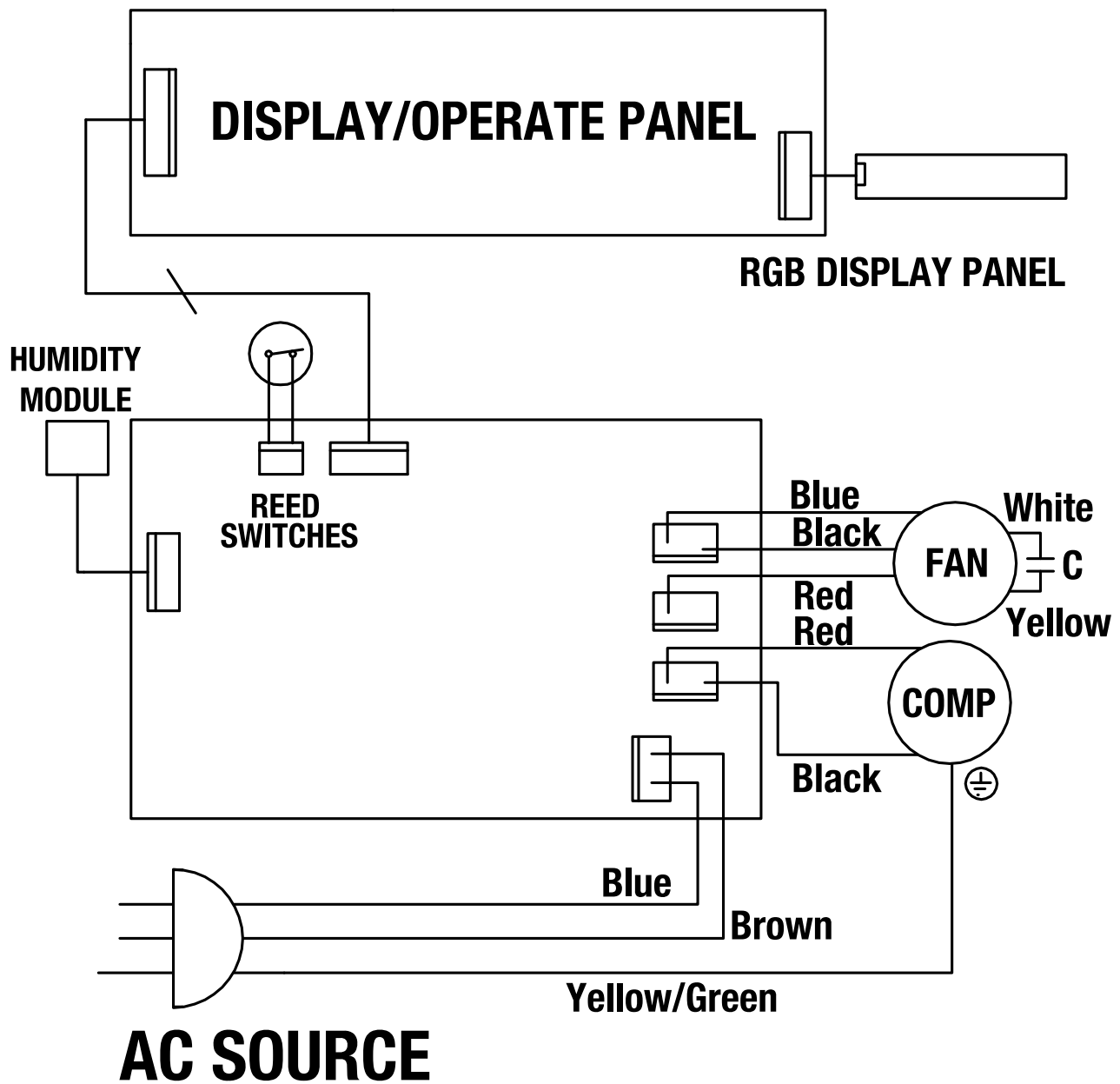
Technical annex

Technical data

Parameter	Value
Model	TTK 70 HEPA (Plus)
Max. dehumidification performance	20 l / 24 h
Dehumidification performance @ 30 °C and 80 % RH	18 l / 24 h*
Air flow rate	140 m³/h
Operating range (temperature)	5 °C to 32 °C
Operating range (relative humidity)	30 % to 80 % RH
Suction side pressure	1.2 MPa
Discharge side pressure	2.5 MPa
Max. permissible pressure	2.5 MPa
Mains connection	220–240 V / 50 Hz
Max. power consumption	420 W
Nominal current	1.91 A
Fusing 	3.15 A (slow-blowing)
Type of protection	IPX0
Refrigerant	R290
Amount of refrigerant	60 g
GWP factor	3
CO ₂ equivalent	0.00018 t
Water tank	6.5 l
Sound pressure level	48 dB(A)
Dimensions (length x width x height)	225 x 340 x 565 mm
Minimum distance to walls and other objects	A: top 50 cm B: rear 50 cm C: side 50 cm D: front 50 cm
Weight	13 kg

*Dehumidification performance @ 30 °C / 80 % RH with HEPA filter 15 l / 24 h

Circuit diagram

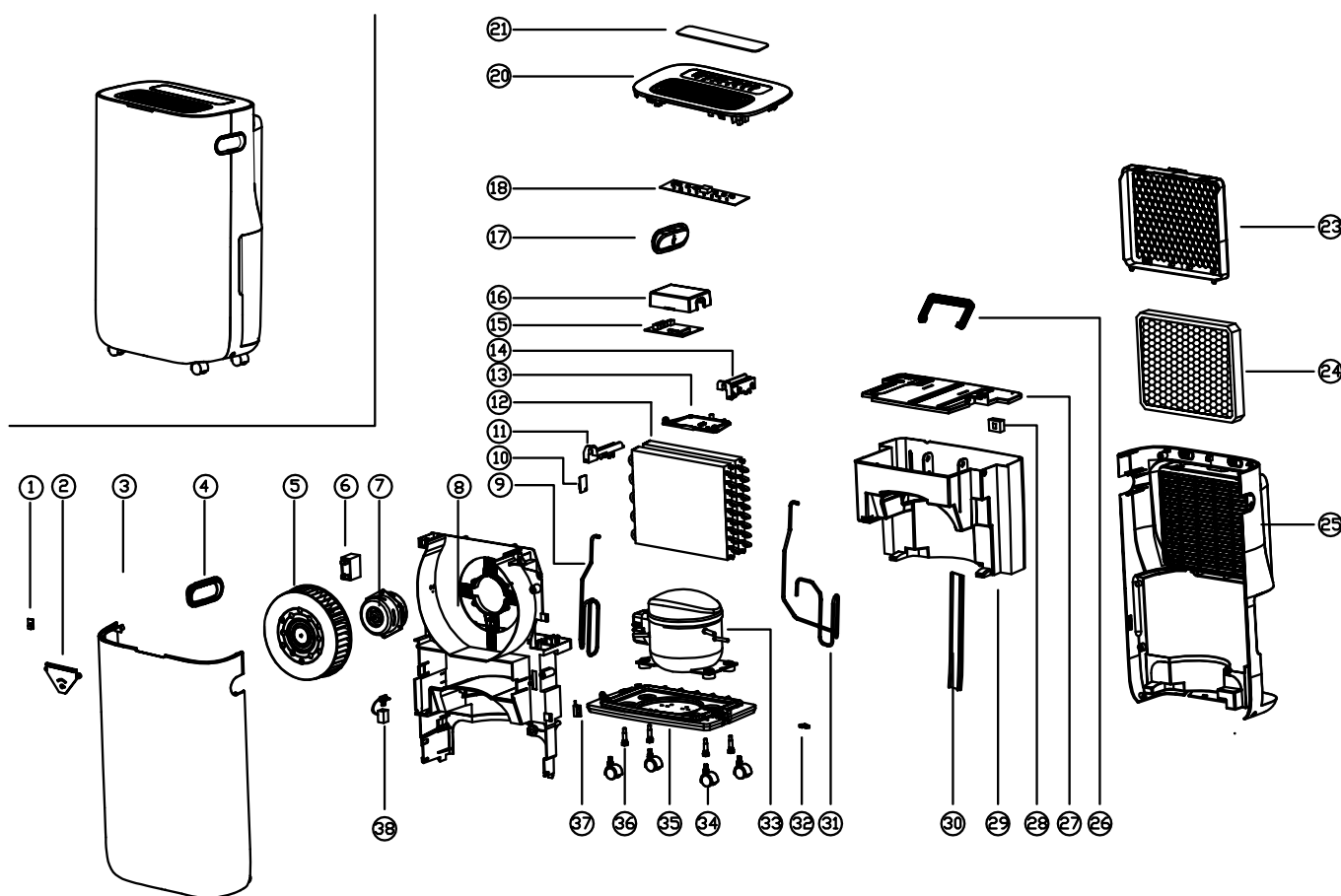


Overview of spare parts



Info

The position numbers of the spare parts differ from those describing the positions of the components mentioned in these instructions.



List of spare parts

No.	Spare part	No.	Spare part	No.	Spare part
1	LED Lamp	12	Condenser & Evaporator	25	Back Cover (H)
2	Guided Light	13	Electrical Box	26	Handle
3	Front Cover	14	Fixed Mount (R)	27	Tank Cover
4	Handle (R)	15	Main PCB	28	Floating Switch
5	Wind Wheel	16	Electrical Cover	29	Water Tank
6	Capacitor	17	Handle (L)	30	Water Level Mark
7	Motor	18	Control PCB	31	Exhaust Pipe
8	Main Body	20	Top Cover	32	Block
9	Return Pipe	21	Panel Sticker	33	Compressor Assembly
10	Sensor	23	Inlet Frame incl. Air Filter	34	Universal Wheel
11	Fixed Mount (L)	24	HEPA-Filter (H)	35	Chassis

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 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.

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

Only for United Kingdom

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

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