

**EN**

**INSTRUCTIONS**  
DEHUMIDIFIER

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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.

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

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




TTK 27 E



<https://hub.trotec.com/?id=47491>

**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 m<sup>2</sup>.
- 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.

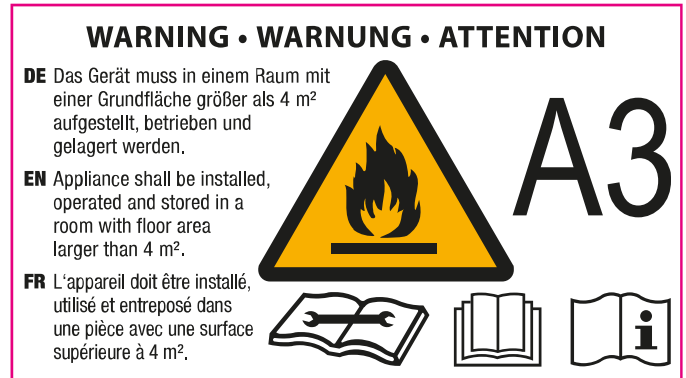
Maintenance tasks which require the housing to be opened must only be carried out by specialist companies for cooling and air-conditioning or by the manufacturer.


**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**

 **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.

 **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.

**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 uses the principle of condensation to automatically dehumidify rooms.

The fan sucks damp room air through the air inlet, the air 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.

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.

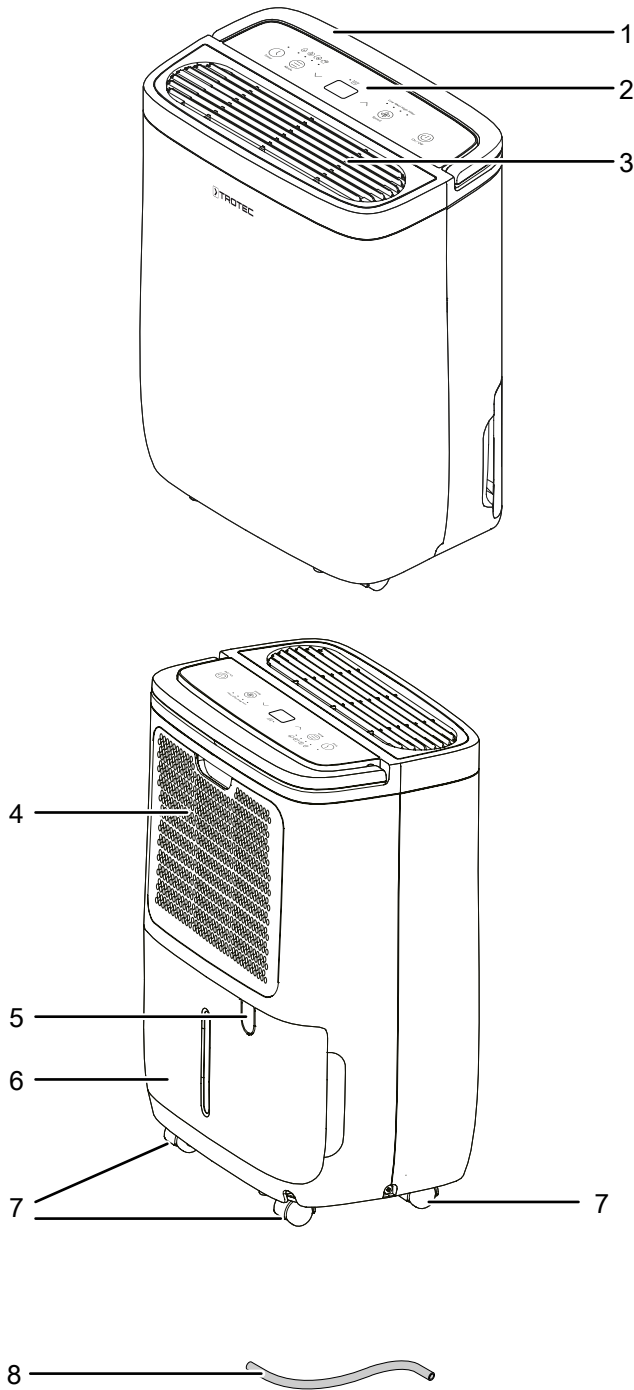
Optionally, the condensed water can be drained by attaching a hose at the condensation connection.

In addition, the device may also be used as a kind of clothes dryer to dry wet laundry in living or 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   | Carrying handle                      |
| 2   | Control panel                        |
| 3   | Air outlet                           |
| 4   | Air inlet with integrated air filter |
| 5   | Condensation drain hose connection   |
| 6   | Condensation tank                    |
| 7   | Wheels                               |
| 8   | 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 transport handle and wheels.

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

- Switch off the device by pressing the *Power* button (15).
- 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.
- 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:

- Drain the remaining condensate from the device and the condensation drain hose (see chapter Maintenance).
- Clean the condensation tank and/or the condensation drain hose if necessary (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 m<sup>2</sup>.
- 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 Condensation drain hose, length: 0.6 m, diameter: 13.5 mm
- 1 x Manual

### Unpacking the device



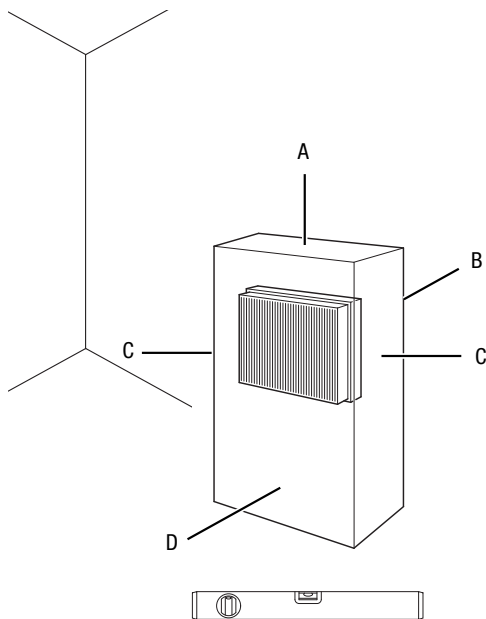
#### Warning

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.



- 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 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.

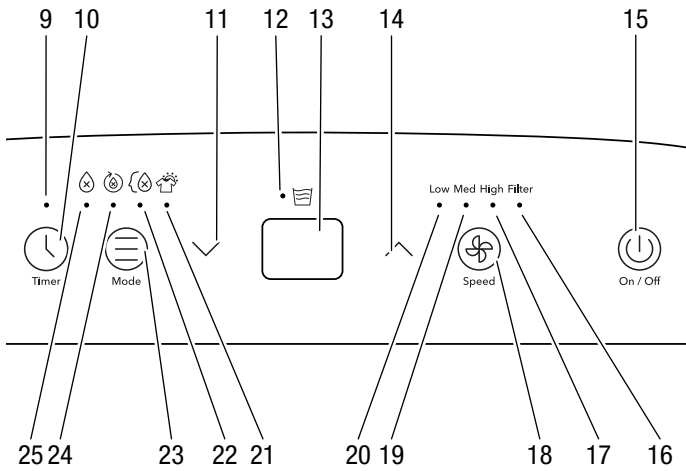
- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Only position the device in rooms where potentially leaking refrigerant cannot accumulate.
- Store the appliance in a room without continuously operating open flames (for example an operating gas appliance) or other potential ignition sources (for example an operating electric heater, hot surfaces).

**Operation**

**Notes:**

- 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   |
|-----|----------------------------|---|
| 9   | Timer LED                  | Illuminated when the timer function is activated  |
| 10  | Timer button               | Enabling/disabling the timer  |
| 11  | Down button                | Decreasing the desired relative humidity level  |
| 12  | Condensation tank full LED | Is illuminated when the condensation tank is full or not fitted properly.                       |
| 13  | Segment display            | Indicates the set and current room humidity<br>Indicates the error code in the event of a fault |
| 14  | Up button                  | Increasing the desired relative humidity level  |
| 15  | Power button               | For switching the device on or off  |
| 16  | Filter LED                 | Illuminated when the filter needs to be cleaned.  |
| 17  | High LED                   | Illuminated when a high fan speed is set  |
| 18  | Fan speed button           | For setting the desired fan speed   |
| 19  | Med LED                    | Illuminated when a medium fan speed is set  |

| No. | Designation              | Meaning  |
|-----|--------------------------|--|
| 20  | Low LED                  | Illuminated when a low fan speed is set                    |
| 21  | Laundry drying LED       | Illuminated when the laundry drying mode is selected       |
| 22  | Comfort LED              | Illuminated when the comfort mode is selected              |
| 23  | Mode button              | For setting the operating mode                             |
| 24  | Continuous operation LED | Illuminated when the continuous operation mode is selected |
| 25  | Dehumidification 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, you can switch it on.

1. Press the *Power* button (15).  
⇒ The device is switched on and in the operating mode that was activated before it was last switched off.

**Setting the operating mode**

The following operating modes can be set on the device:

- Dehumidification
- Continuous operation
- Comfort mode
- Laundry drying mode

**Dehumidification**

The device dehumidifies the air continuously until the set relative humidity level 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.

1. Press the *Mode* button (23) until the ☒ LED (25) is illuminated.  
⇒ Dehumidification mode is selected.

### Setting the desired relative room humidity


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

1. Use the *Up* (14) and *Down* (11) buttons to select the desired room humidity. The setting range for the humidity is between 35 % and 85 % and can be set in increments of 5 %.
  - ⇒ The selected humidity is indicated on the segment display (13) for approx. 5 seconds. Then the segment display changes back to the current humidity level.

### Continuous operation

Regardless of the room humidity level, the device dehumidifies continuously.


In continuous operation, only the fan speed can be manually selected.

1. Press the *Mode* button (23) until the  LED (24) is illuminated.
  - ⇒ Continuous operation mode is selected.

### Comfort mode

Depending on the room temperature, comfort mode automatically ensures an agreeable humidity level between 45 % and 55 %.

The relative humidity cannot be adjusted manually in comfort mode.


1. Press the *Mode* button (23) until the  LED (22) is illuminated.
  - ⇒ Comfort mode is selected.

### Laundry drying mode

In laundry drying mode, the device continuously dehumidifies with high power, regardless of the room humidity level.

The relative room humidity cannot be adjusted manually in laundry drying mode.

The current humidity value is indicated on the segment display (13).

1. Press the *Mode* button (23) until the  LED (21) is illuminated.
  - ⇒ Laundry drying mode is selected.

### Setting the fan speed

You can change between low, medium and high fan speed.

1. Press the *Fan speed* button (18) to select the desired fan speed.
  - ⇒ If the fan speed is set to a low level, the *Low* LED (20) is illuminated.
  - ⇒ If the fan speed is set to a medium level, the *Med* LED (19) is illuminated.
  - ⇒ If the fan speed is set to a high level, the *High* LED (17) is illuminated.

### Setting the timer

The timer function switches the device on or off after the set time has elapsed.

The function can be set in addition in all operating modes. The timer can be set in increments of 0.5 hours (1 hour to 10 hours) or in increments of 1 hour (10 hours to 24 hours).


- ✓ **Automatic switch-on:** The mains plug is inserted, the device is in standby mode.
- ✓ **Automatic switch-off:** The device is switched on.
  1. Press the *Timer* button (10).
  2. Press the *Up* button (14) or *Down* button (11) until the desired number of hours is indicated on the segment display.
  3. Wait for 5 seconds in order to save the setting.
    - ⇒ The current humidity level appears on the segment display (13) again.
    - ⇒ The *Timer* LED (9) is illuminated.
    - ⇒ After the predefined time, the device switches itself on or to standby mode.

The timer is deactivated in the following cases:

- Manually switching the device on disables the automatic switch-on function.
- Disconnecting the mains plug disables the automatic switch-off function.
- Setting the number of hours to 0.0 deactivates the timer function.
- *P2* is displayed on the segment display (13).

### Auto stop function

If the condensation tank is full or not inserted correctly, the device will stop automatically.

The  LED (12) lights up and an acoustic signal is emitted.

### 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 = 13.5 mm) is ready for use.
- ✓ The device is switched off.
  1. Remove the condensation tank.

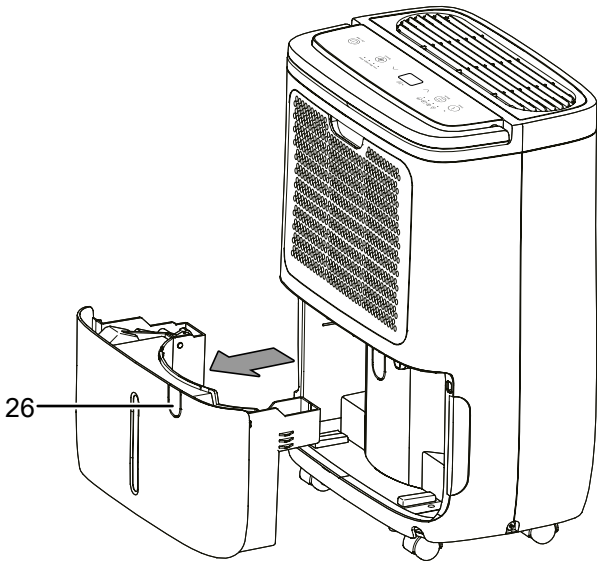


### Caution

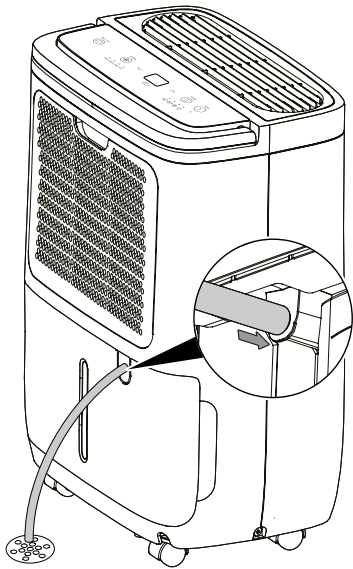
Risk of injury from sharp edges!

The perforation edges on the pushed-out part of the condensation tank may be sharp. Use protective gloves to connect the condensation drain hose or round off the perforated edges with a suitable tool.

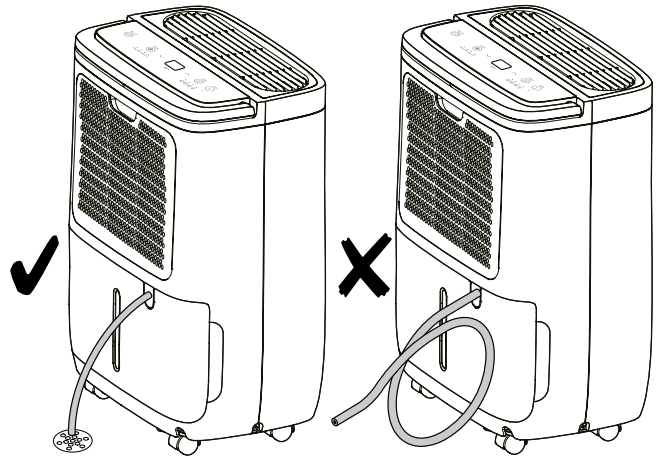
2. Press out the plastic part (26) on the condensation tank.



3. Push one end of the hose onto the connection for the condensation drain hose.  
 4. 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.



5. 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.



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

**Automatic defrost**

At low ambient temperatures, ice may form at the evaporator during dehumidification. The device will then carry out an automatic defrost. Dehumidification is briefly interrupted during defrosting. The fan keeps running.

The duration of the defrost process can vary. Do **not** switch off the device during automatic defrost. Do **not** remove the mains plug from the mains socket.

**Shutdown**



**Warning of electrical voltage**

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

- Press the *Power* (15) button to 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.
- If necessary, remove the condensation drain hose and any residual fluid from it.
- 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.

## 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 filling level of the condensation tank, and empty it if necessary. The *condensation tank full* indication (12) must not light up.
- 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 air filter for dirt. If necessary, clean or replace the air filter.
- Check the preselected relative room humidity. The humidity in the room must be above the selected range.
- Check whether the device is running in *comfort mode*. In this case, the compressor switches off automatically once the relative room humidity is below 45 %.
- 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 might carry out an automatic defrost. During automatic defrost, the device does not dehumidify.

### 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 relative room humidity. The humidity in the room must be above the selected range.
- Check whether the device is running in *comfort mode*. In this case, the compressor switches off automatically once the relative room humidity is below 45 %.
- 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:

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

### Error codes

The following error messages can be displayed on the segment display (13):

| Error code | Cause   | Remedy  |
|------------|---|---|
| EH60       | Fault at humidity sensor                          | Disconnect the device briefly from the mains. Should the error still be displayed after the restart, please contact the customer service. |
| EH61       | Error at the temperature sensor of the evaporator |   |
| EH02       | Fan driver error                                  |   |
| EH03       | Fan malfunction                                   |   |
| EH0b       | Chip communication failure                        |   |
| P2         | Condensation tank full or not inserted correctly  | Empty the condensation tank or check the condensation tank for correct fit.   |

**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                       |                   |
| 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  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Check the attachment screws   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Test run  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Empty and clean the condensation tank and/or drain hose                             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Comments  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |

|                                     |                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Date: .....<br>Signature: .....  | 2. Date: .....<br>Signature: .....  | 3. Date: .....<br>Signature: .....  | 4. Date: .....<br>Signature: .....  |
| 5. Date: .....<br>Signature: .....  | 6. Date: .....<br>Signature: .....  | 7. Date: .....<br>Signature: .....  | 8. Date: .....<br>Signature: .....  |
| 9. Date: .....<br>Signature: .....  | 10. Date: .....<br>Signature: ..... | 11. Date: .....<br>Signature: ..... | 12. Date: .....<br>Signature: ..... |
| 13. Date: .....<br>Signature: ..... | 14. Date: .....<br>Signature: ..... | 15. Date: .....<br>Signature: ..... | 16. Date: .....<br>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 by pressing the *Power* button (15).
- 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



### 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

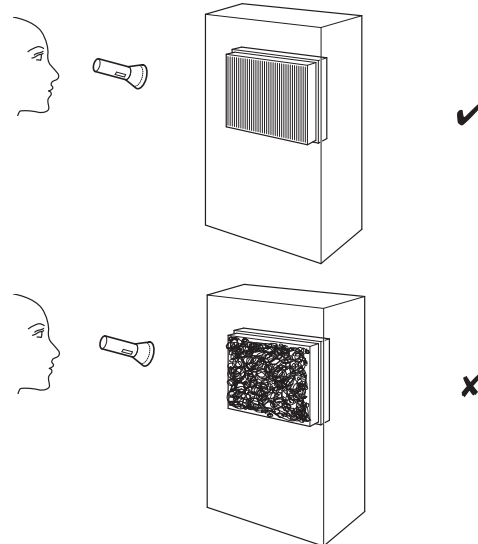
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

## 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 the air filter

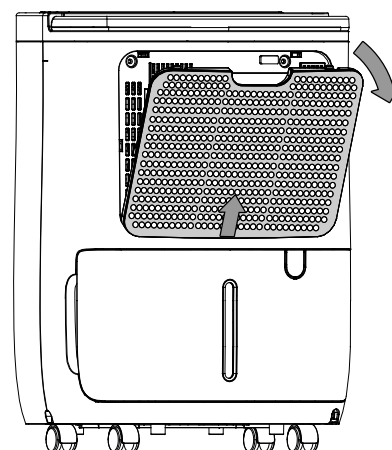
### Notice

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

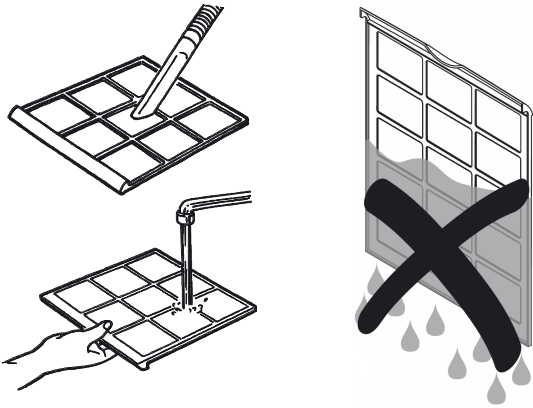
The filter has to be cleaned as soon as it is dirty. It becomes clear that it is contaminated if the device's performance is reduced (see chapter Errors and faults).

After 250 operating hours the *Filter* LED (16) will light up to remind you to clean the filter.

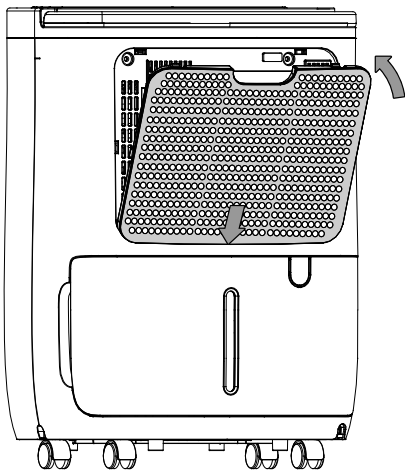
1. Remove the cover of the air inlet.



- 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.



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



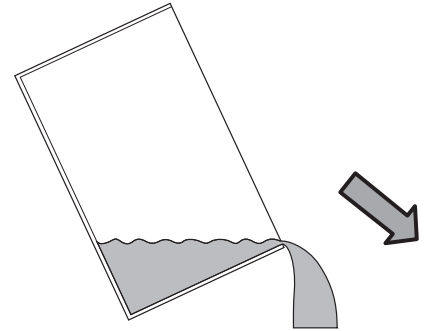
- Press the *Fan speed* button (18) for three seconds to reset the *Filter* LED (16).

### Emptying the condensation tank

If the condensation tank is full or not installed correctly, the *condensation tank full* LED (12) will be illuminated.

The compressor and fan will switch off.

- Take the condensation tank out of the device.
- Empty the condensation tank over a drain or sink.



- Rinse the tank with clear water. Clean the tank regularly using a mild cleaning agent (no detergent!).
- 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

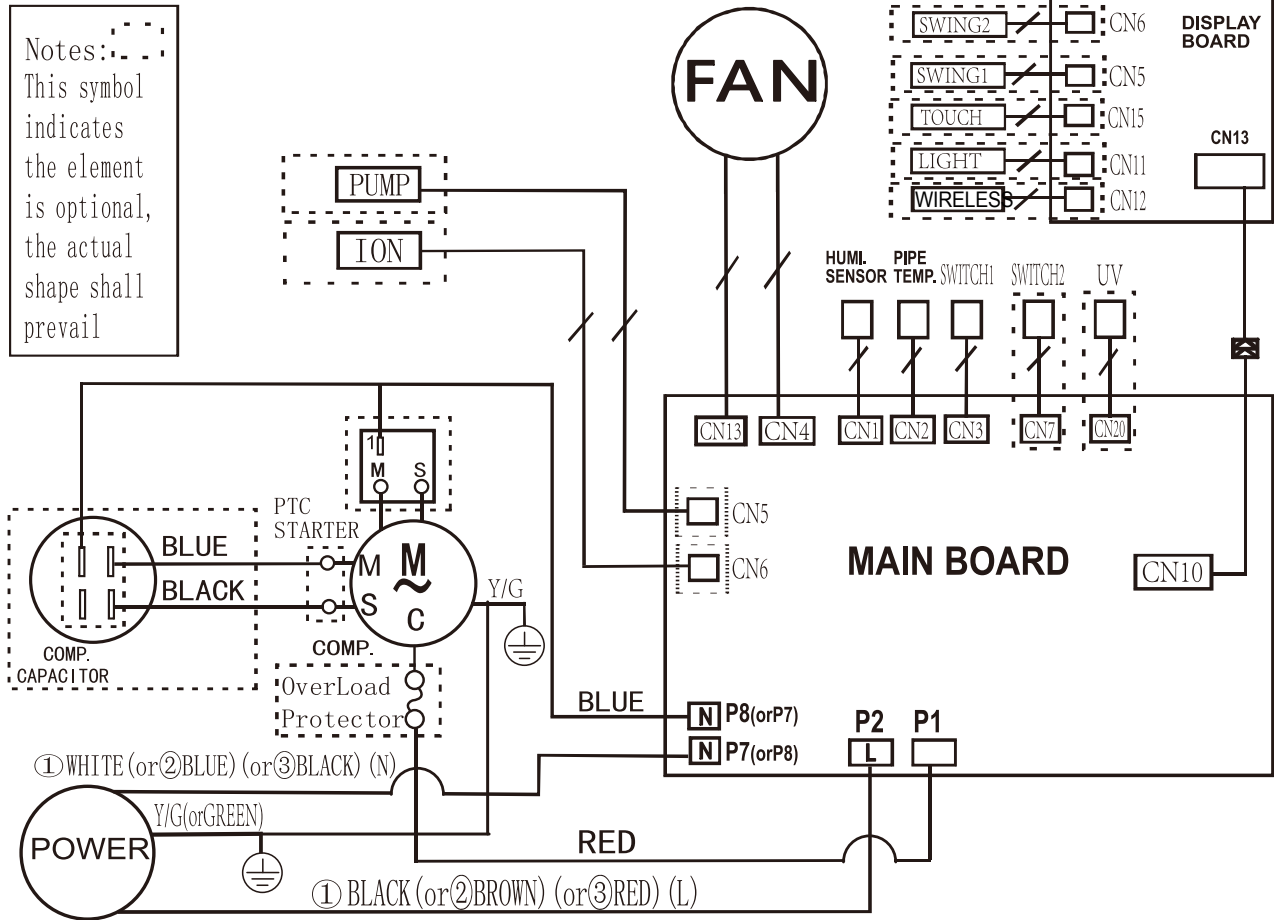
### Technical data

| Parameter  | Value  |
|--|--|
| <b>Model</b>   | <b>TTK 27 E</b>  |
| Max. dehumidification performance  | 12 l / 24 h  |
| Dehumidification performance at 30 °C and 80 % RH  | 10 l / 24 h  |
| Air flow rate  | 120 m <sup>3</sup> /h max.                                       |
| Operating range (temperature)  | 5 °C to 32 °C  |
| Operating range (relative humidity)  | 35 % to 85 % RH  |
| Suction side pressure  | 1.0 MPa  |
| Discharge side pressure  | 2.6 MPa  |
| Max. permissible pressure  | 4.0 MPa  |
| Mains connection   | 220 – 240 V / 50 Hz  |
| Max. power consumption   | 360 W  |
| Nominal current  | 1.9 A  |
| Fusing  | T 3.15 A / 250 V   |
| Type of protection   | IPX0   |
| Refrigerant  | R290   |
| Amount of refrigerant  | 45 g   |
| GWP factor   | 0.02 (IPCC6)   |
| CO <sub>2</sub> equivalent   | 0.0000009 t  |
| Water tank   | 1.6 l  |
| Sound pressure level   | 41 dB(A)   |
| Dimensions (length x width x height)   | 210 x 325 x 462 mm   |
| Minimum distance to walls and other objects  | A: top 40 cm<br>B: rear 20 cm<br>C: side 20 cm<br>D: front 20 cm |
| Weight   | 11.5 kg  |

**Wiring diagram**

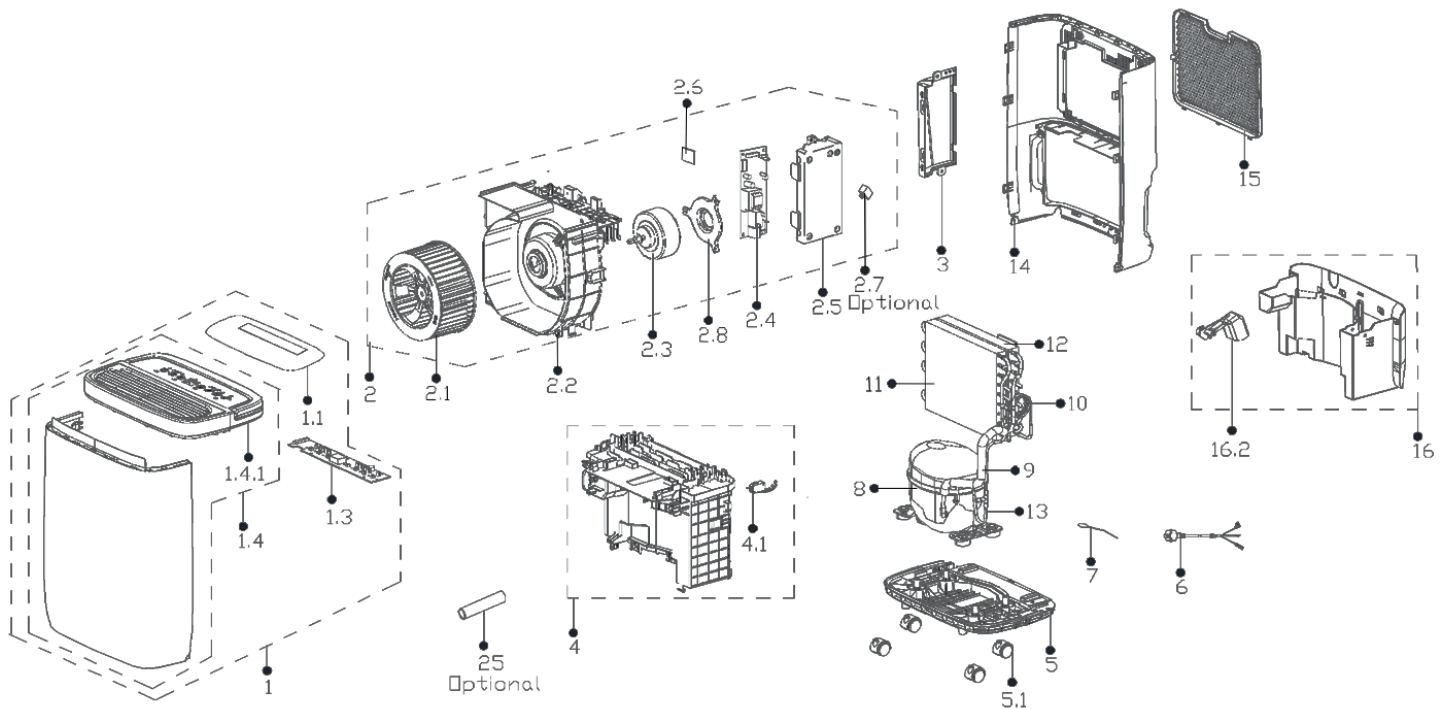
16020100002074

Notes: Display and Fan's connctors must be match the actual indicates .



## Overview of spare parts

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



## Spare parts list

| No. | Spare Part  | Qty. | No.  | Spare Part                           | Qty. |
|-----|---|------|------|--------------------------------------|------|
| 1   | Front panel assembly  | 1    | 4.1  | Microswitch                          | 1    |
| 1.1 | Display label   | 1    | 5    | Chassis                              | 1    |
| 1.3 | Display box subassembly   | 1    | 6    | European standard power cord         | 1    |
| 1.4 | Front panel susassembly   | 1    | 7    | Pipe temperature sensor              | 1    |
| 2   | Volute shell assembly   | 1    | 8    | Fixed speed reciprocating compressor | 1    |
| 2.1 | Centrifugal fan   | 1    | 9    | Suction pipe assembly                | 1    |
| 2.2 | Volute shell subassembly  | 1    | 10   | Capillary assembly                   | 1    |
| 2.3 | Single phase asynchronous motor   | 1    | 11   | Condenser assembly                   | 1    |
| 2.4 | Dehumidifier main control board subassembly                             | 1    | 12   | Evaporator assembly                  | 1    |
| 2.5 | Electronic control box subassembly                                      | 1    | 13   | Discharge pipe assembly              | 1    |
| 2.6 | Humidity sensor board module (Plug-in) (Double Letter Ksh-02Bhs Scheme) | 1    | 14   | Rear panel                           | 1    |
| 2.7 | Ion generator   | 1    | 15   | Air inlet grille                     | 1    |
| 2.8 | Supporter of fan motor  | 1    | 16   | Water tank subassembly               | 1    |
| 3   | Electronic control box subassembly                                      | 1    | 16.2 | Dobber case                          | 1    |
| 4   | Partition board   | 1    |      |                                      |      |

## 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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