

EN

INSTRUCTIONS
DEHUMIDIFIER

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Information on the use of these instructions

Symbols



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

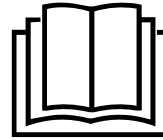
Information marked with this symbol helps you to carry out your tasks quickly and safely.



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-I 110 E



<https://hub.trotec.com/?id=47710>

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 TTK-I 110 E in a room measuring more than 6 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.
- The air flap must not be adjusted manually, otherwise it will be damaged.

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.

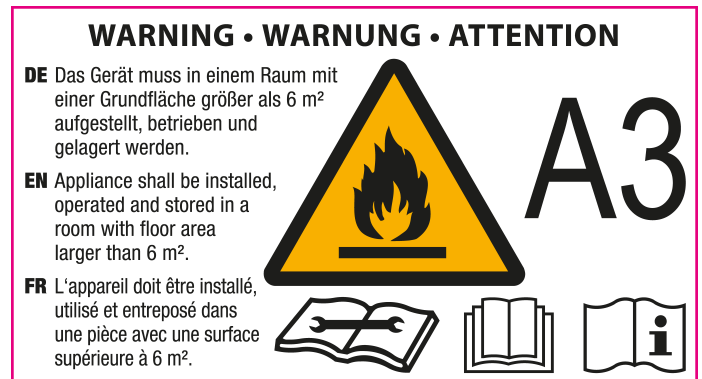
Maintenance tasks which require the housing to be opened must only be carried out by specialist companies for cooling and air-conditioning or by the manufacturer.

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

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.

By means of the inverter technology, the device adapts the motor power steplessly to the actual demand. This increases the energy efficiency.

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

In addition the device is equipped with a wifi connection and in this way can be controlled via the Trotec Assistant App.

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.

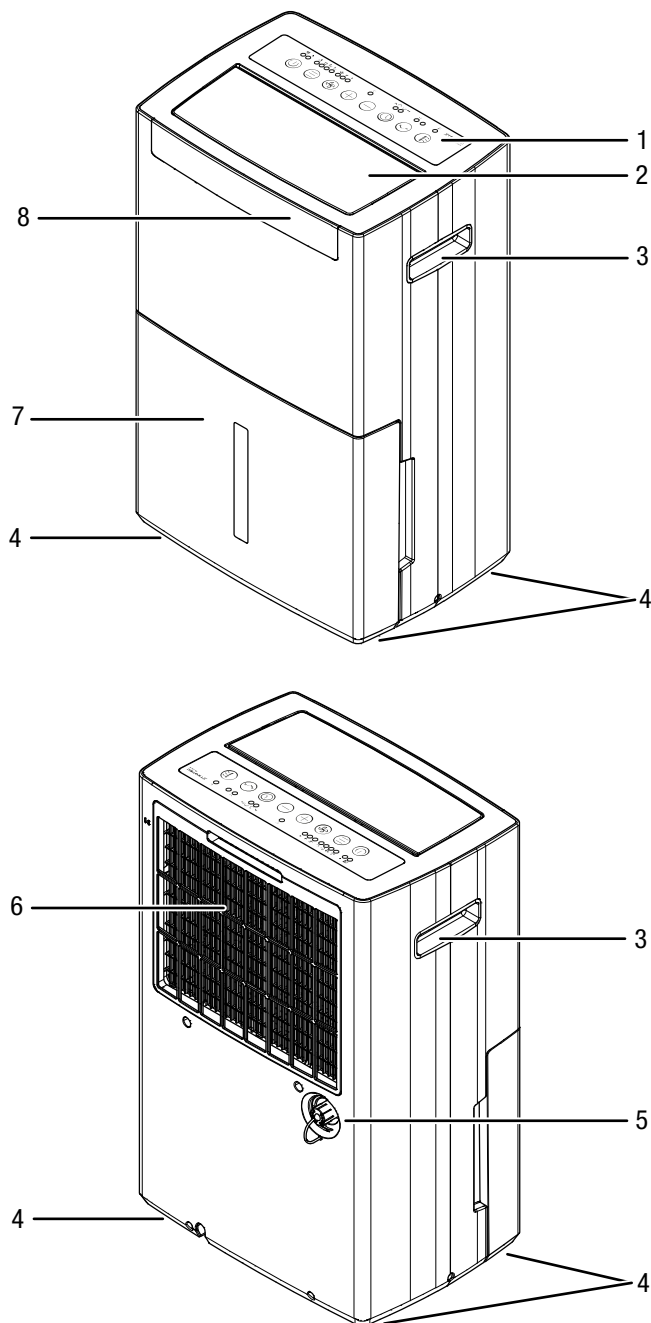
The device can reduce the relative humidity of a room to approx. 30 %.

In addition, the device may also be used as a kind of clothes dryer to dry wet laundry in living 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	Control panel
2	Air outlet
3	Transport handle
4	Wheels
5	Condensation drain hose connection
6	Air inlet with air filter
7	Condensation tank with filling level indicator
8	Front display

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.

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

Before transporting the device, observe the following:

- Switch off the device by pressing the *ON/OFF* button (24).
- 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 6 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 Manual

Unpacking the device



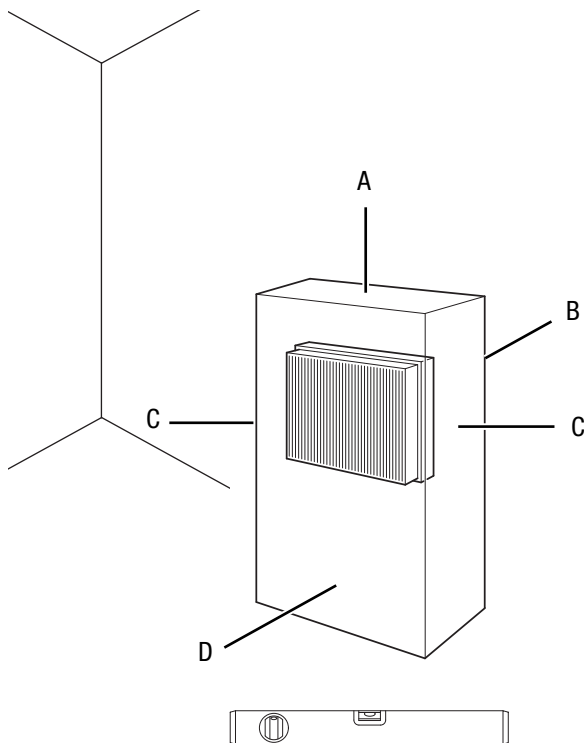
Warning

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.



- 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 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

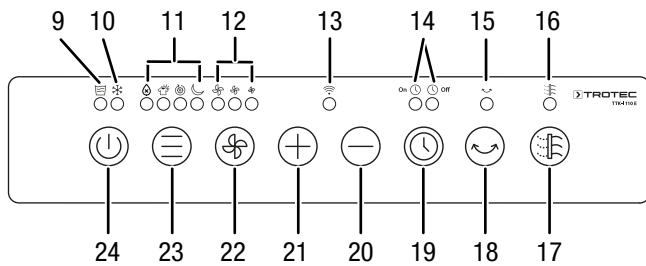
- Insert the mains plug into a properly secured mains socket.

Operation

- Avoid open doors and windows.
- After being switched on, the device operates fully automatically.
- The device can work continuously for 24 hours and then switches off for one hour. During this time, the device can be programmed, the *MODE* LEDs (11) will then flash for 3 seconds. When the rest period has elapsed, the device switches on again automatically with the desired settings.
- If the device has been switched off and then on again, the compressor will only switch on after a rest period of 3 minutes. The device will then run for 3 minutes before the room humidity is measured.

- 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.

Operating elements



No.	Designation	Meaning
9	Condensation tank full LED	Illuminated when the condensation tank is full
10	Defrost LED	Illuminated when automatic defrosting is in progress
11	MODE LEDs	Operating mode indication = dehumidification mode = laundry drying function = automatic mode = night mode
12	Fan speed LEDs	Fan speed indication = high = medium = low
13	WiFi LED	Is illuminated when the WiFi connection is active
14	Timer LEDs	Timer function indication on = timer for automatic switch-on active off = timer for automatic switch-off active
15	Swing LED	Illuminated when the swing function is active
16	Filter LED	Illuminated when a filter change is required
17	Filter button	Resetting the filter status
18	Swing button	Switching the swing function on or off
19	Timer button	Switching the timer on and off
20	Decrease value button	Setting the number of hours for the timer (1 h to 12 h)
21	Increase value button	Setting the relative humidity level (40 % to 70 % RH in increments of 5 %)
22	Fan speed button	Setting the fan speed
23	MODE button	Selecting the operating mode
24	ON/OFF button	Switching the device on and off



Warning of electrical voltage

Risk of electric shock!

The device is not protected against water.

There is a risk of electric shock!

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

Switching the device on

Notice

If you switch the device off without disconnecting it from the power supply, it is in the standby mode.

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

1. Press the *ON/OFF* button (24).
⇒ The air flap at the air outlet (2) opens.
⇒ The device starts to dehumidify.

Operating modes

- Dehumidification
- Laundry drying mode
- Automatic mode
- Night mode

Dehumidification

The device keeps running until reaching the desired relative room humidity. If the desired humidity is exceeded, the device will switch back on.

1. Press the *MODE* button (23) several times until the LED (11) is lit.
⇒ The device switches to the *Dehumidification* mode and the current room humidity level is indicated on the front display (8).
2. Press the *Increase value* (20) or *Decrease value* button (21) to set the desired relative room humidity. The possible setting range is between 40 % and 70 % RH in increments of 5 %.
⇒ The set relative room humidity level flashes on the front display (8) for 3 seconds. Then the front display (8) changes back to show the current room humidity level again.
3. Press the *Fan speed* button (22) several times to select either high, medium or low fan speed.
⇒ The corresponding *fan speed* LED (12) will be illuminated.

Laundry drying mode

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 maximum operating time in this mode amounts to 10 hours.

1. Press the **MODE** button (23) several times until the  LED (11) is lit.
 - ⇒ The device switches to the *Laundry drying* mode and runs at the highest fan stage.
 - ⇒ The current room humidity level is indicated on the front display (8).

Automatic operation

In the *Automatic* mode, the device measures the room temperature and adapts the humidity level automatically. The fan speed is also adapted automatically. It only switches off automatically when necessary.

1. Press the **MODE** button (23) several times until the  LED (11) is lit.
 - ⇒ The device switches to the *Automatic* mode and the current room humidity level is indicated on the front display (8).

Night mode

In the night mode, the fan speed is preset to a low stage and cannot be adjusted.

Proceed as follows to switch on the night mode:

1. Press the **MODE** button (23) several times until the  LED (11) is lit.
 - ⇒ The device switches to the *Night* mode and the current room humidity level is indicated on the front display (8).

Swing function

Using the swing function, you can activate continuous movement of the air flap at the air outlet. This enables an even distribution of the air current in the room.

The swing function can be switched on and off regardless of the operating modes. The setting is maintained even if the operating mode is changed.

1. Press the **Swing** button (18).
 - ⇒ The *Swing* LED (15) is illuminated.
 - ⇒ The air flap moves up and down continuously.
2. Press the **Swing** button (18) again to stop the air flap in a specific position.
 - ⇒ The *Swing* LED (15) goes out.
3. Press the **Swing** button (18) again to reactivate the movement of the air flap.

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 hourly increments to a value between 1 and 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 (19).
 - ⇒ Depending on the function, the  or  LED (14) is illuminated.
 2. Press the *Increase value* (20) or *Decrease value* button (21) until the desired number of hours is shown on the front display (8).
 - ⇒ The set number of hours flashes on the front display (8) for 10 seconds.
 3. Only in *Dehumidification* mode:
 - Press the *Fan speed* button (22) to set the desired fan stage.
 - ⇒ After the predefined time, the device switches itself on or to standby mode.
 4. Press the **Timer** button (19).
 - ⇒ The front display (8) indicates the time until automatic switch-on/switch-off.
 5. Press the **Timer** button (19).
 - ⇒ The timer function is switched off.

The timer is automatically 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.

Notice

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

Trotec Assistant App



All settings can also be made via the Trotec Assistant App. The settings of the timer functions that are operated via the app are not additionally displayed on the control panel of the device.

Install the Trotec Assistant App on the terminal device you want to use in combination with the device.



Info

Some of the app's functions require access to your location and an active Internet connection.

The app is available for download in the Google Play Store as well as in Apple's app store and via the following link:



<https://hub.trotec.com/?id=45093>

WiFi connection

Proceed as follows to establish a WiFi connection:

- ✓ The device is in standby mode.
- 1. Download the Trotec Assistant App and open it on a smartphone.
- 2. Select *Add Device* by pressing the + symbol in the top right corner.
- 3. Select *Small household appliances* and *Dehumidifier (WiFi)* in the level below.
- 4. Follow the instructions of the app on the smartphone.
 - ⇒ While pairing with the router, the *WiFi* LED (13) passes through the following phases:

Phase	Description	LED status
1	Pairing configuration	flashing quickly
2	Pairing AP	flashing slowly
3	Pairing successful, but no connection to the router	off
4	Pairing successful and successful connection to the router	permanently lit
5	Connection to the app successful	permanently lit



Info

If the WiFi connection is interrupted, the device may not automatically reconnect to the network. In this case, re-establish the connection manually.

Memory function

After a power failure during operation the device will automatically be switched back on after a while. The operating mode is saved. Any programmed timer settings will not be saved.

Auto stop function

If the water tank is full, not inserted correctly or the relative room humidity has been reached, the device will stop automatically.

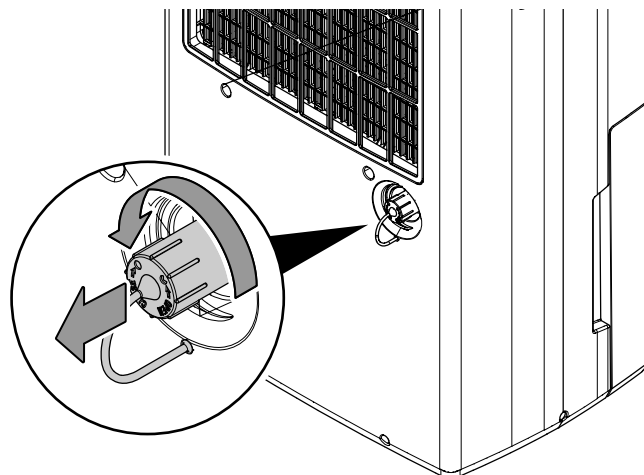
Operation with hose attached to the condensation connection

Notice

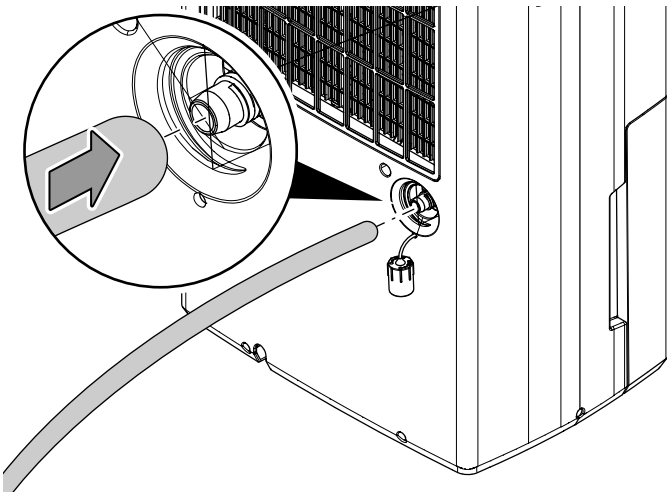
The condensation drain hose is not included in the scope of delivery.

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

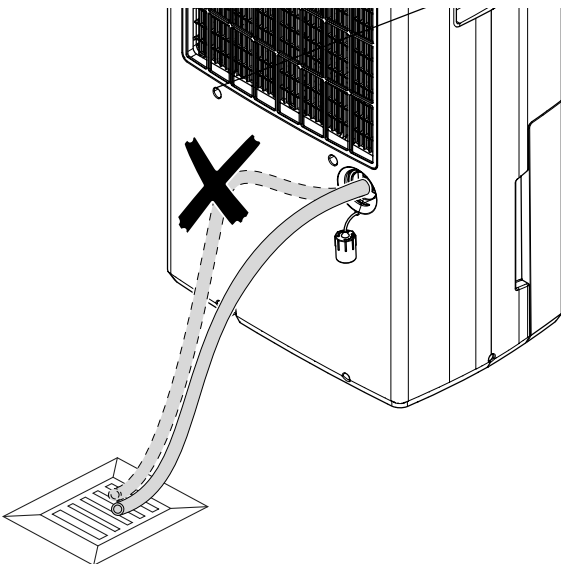
- ✓ A suitable hose (diameter: 13 cm) is ready for use.
 - ✓ The device is switched off.
1. Remove the rubber plug.



2. Push one end of the hose onto the hose connection.



3. Guide the other hose end to a suitable drain or sufficiently dimensioned collection container. Please note that the hose must not be kinked.



Remove the hose if you want to collect the condensate in the condensation tank again. Allow the hose to dry prior to storage. The hose can be connected in any operating mode for continuous operation.

Automatic defrosting

At low ambient temperatures, ice may form at the vaporizer during dehumidification. The device then carries out automatic defrosting by means of the hot gas feed. Here, hot refrigerant is led into the iced evaporator for its surfaces to defrost.

The hot gas automatic defrost system integrated in the device automatically switches on the defrost cycle at regular intervals. The *Defrost* LED (10) is illuminated during defrosting.

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.

Switching the device off

Please proceed as follows to switch the device off:

1. Press the *ON/OFF* button (24).
 - ⇒ The device now switches over into standby mode.
 - ⇒ The fan continues to run for a short time.
2. Press the *ON/OFF* button (24) again.
 - ⇒ The device switches off.

Shutdown



Warning of electrical voltage

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

- Switch off the device by pressing the *ON/OFF* button (24).
- 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* LED (9) 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 preselected relative room humidity. The humidity in the room must be above the selected range.
- 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 relative room humidity. The humidity in the room must be above the selected range.
- 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.

Error codes

The following error messages can be indicated on the front display:

Error code	Cause	Remedy
E2	Defrost sensor – circuit interrupted / short circuit	Switch off the device and call the customer service.
90	Humidity sensor – circuit interrupted / short circuit	
F1	Motor fault.	

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: 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 by pressing the *ON/OFF* button (24).
- 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

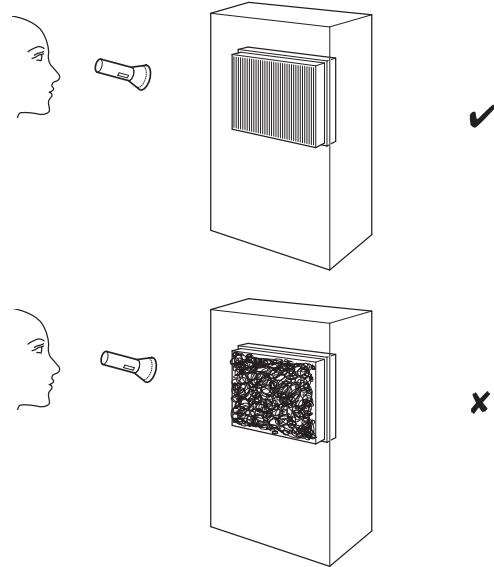
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

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 the air filter

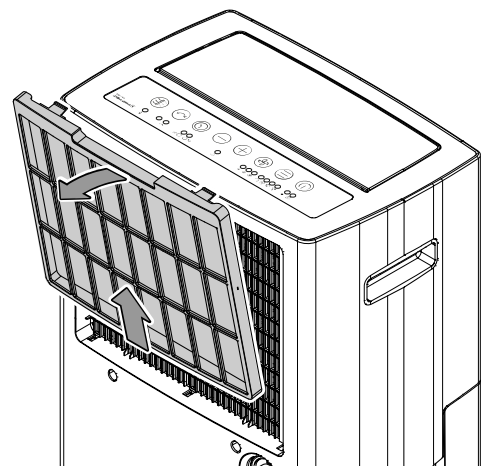
Notice

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

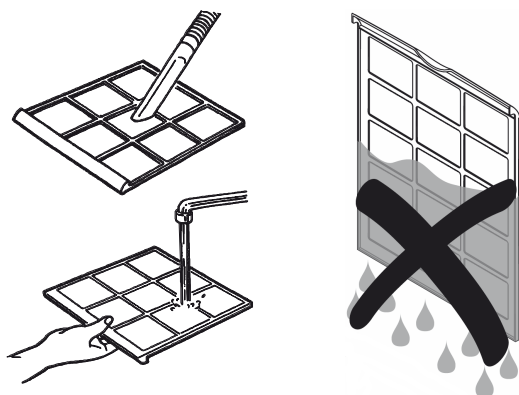
The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).

After 500 operating hours the device will remind you to clean the filter. The *Filter LED* (16) is illuminated.

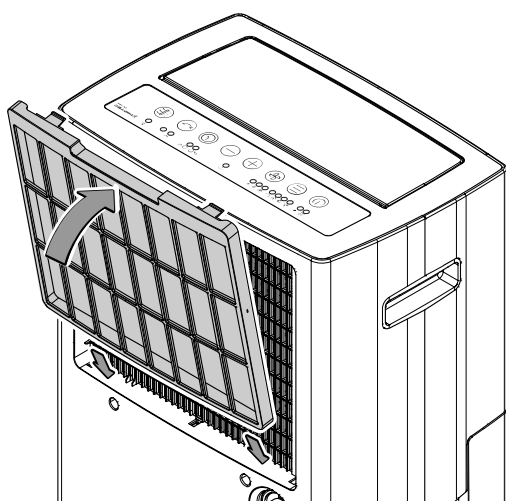
1. Remove the cover of the air inlet.



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.



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 back into the device.

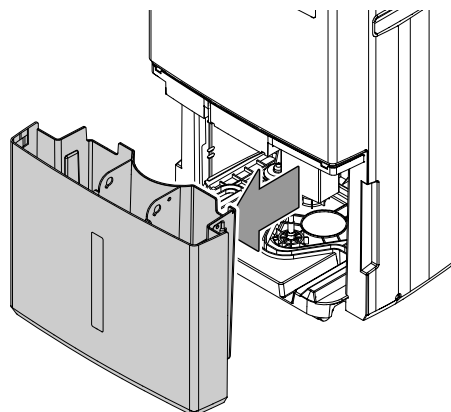


5. Press the *Filter* button (17) to confirm cleaning of the filter and reset the reminder.
⇒ The *Filter* LED (16) goes out.

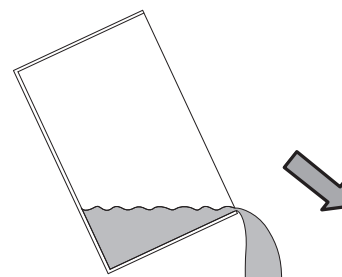
Emptying the condensation tank

If the condensation tank is full or not inserted correctly, an acoustic signal will be emitted. In addition, the *Condensation tank full* LED (9) is illuminated. The compressor and fan will switch off.

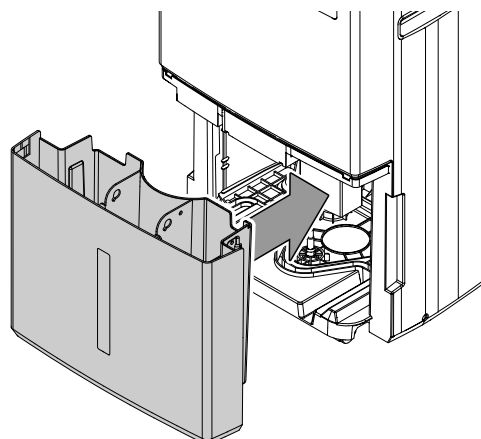
1. Take the condensation tank out of the device.



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.



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:

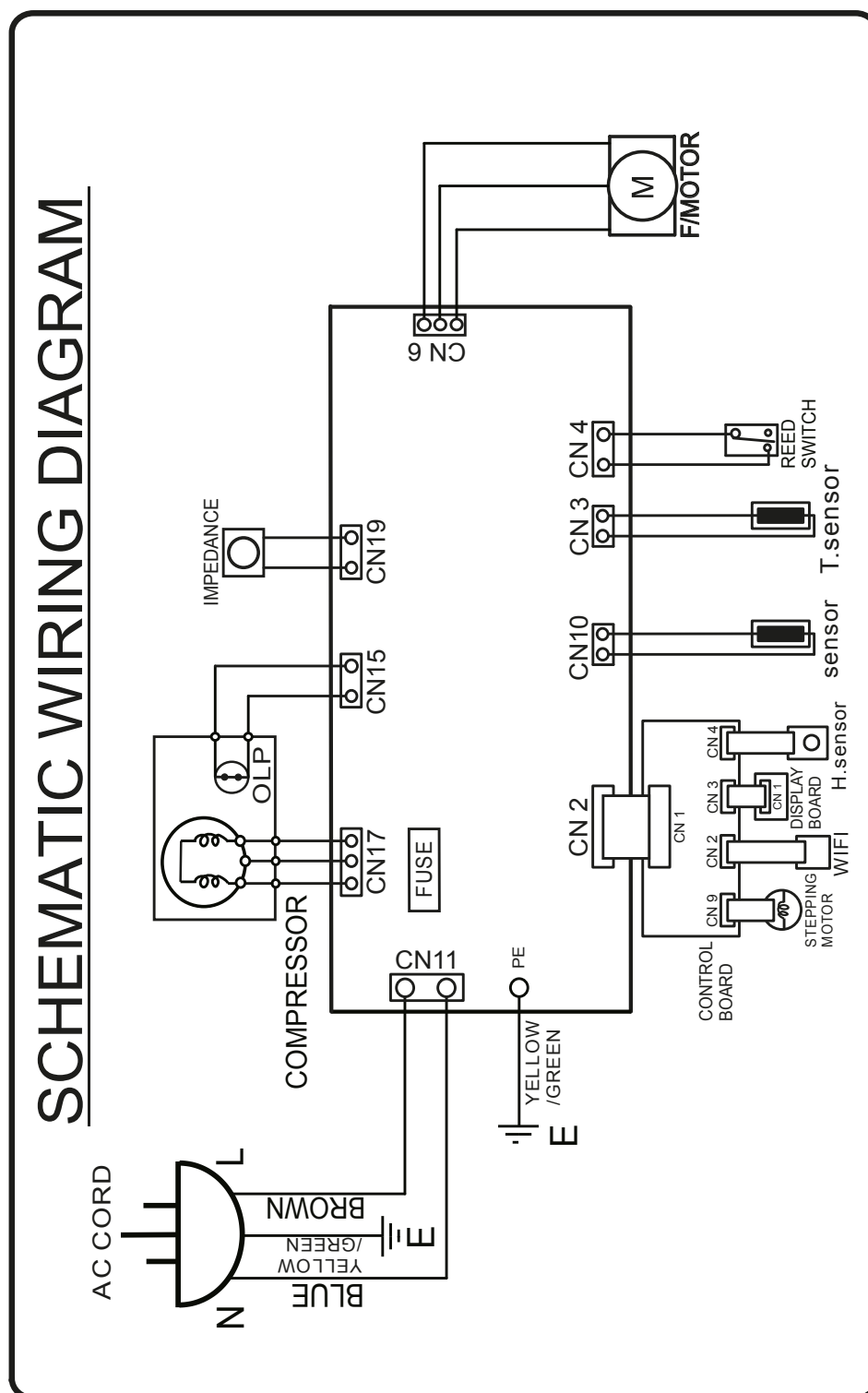
- Store the device according to the Transport and storage chapter.

Technical annex

Technical data

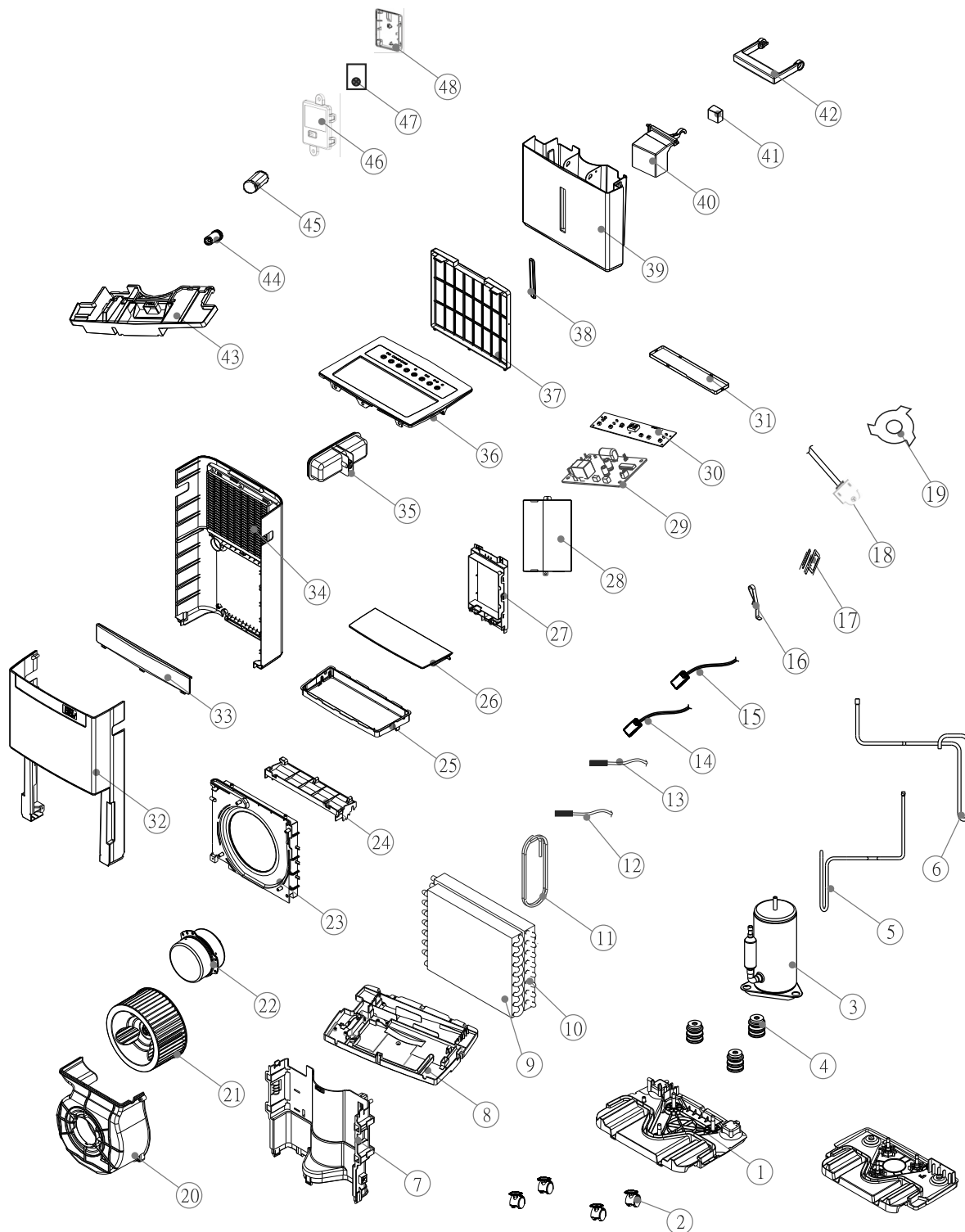
Parameter	Value
Model	TTK-I 110 E
Max. dehumidification performance	35 l / 24 h
Air flow rate	170 m³/h
Operating range (temperature)	5 °C to 32 °C
Operating range (relative humidity)	30 % to 80 % RH
Suction side pressure	1.2 MPa
Pressure outlet side	2.4 MPa
Max. permissible pressure	2.6 MPa
Mains connection	220–240 V / 50 Hz
Max. power consumption	0.37 kW
Nominal current	1.6 A
Refrigerant	R290
Amount of refrigerant	120 g
GWP factor	0.02
CO ₂ equivalent	0.0000024 t
Water tank	6.4 l
Sound pressure level (at a distance of 1 m)	46 dB(A)
Dimensions (length x width x height)	380 x 280 x 610 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	16.4 kg

Wiring diagram



Overview and list of spare parts

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



No.	Spare part	Quantity	No.	Spare part	Quantity
1	Base Pan	1	25	Dischar Gelle	1
2	Turning Wheel Ass'y	4	26	Van Air Deflector	1
3	Compressor Ass'y (36K035-A4)	1	27	Fix Ture	1
4	Rubber	3	28	Cover	1
5	Suction Pipe	1	29	Control Board	1
6	Discharge Pipe	1	30	PC Board	1
7	Plate	1	31	Cover	1
8	Drainage Pan	1	32	Front Panel	1
9	Evaporator Ass'y	1	33	Decorative	1
10	Condenser Ass'y	1	34	Rear Panel	1
11	Capillary Tube	1	35	Handle	2
12	Sensor (for evap)	1	36	Top Cover	1
13	Sensor (for suction pipe)	1	37	Air Filter	1
14	Sensor (for humidity)	1	38	Cover	1
15	Reed Switch	1	39	Drain Bucket	1
16	Fix Ture	1	40	Float	1
17	Fix Metal	1	41	Magnet	1
18	Power Supply Cord Complete	1	42	Handle	1
19	Fix Ture	1	43	Water Tank Cover	1
20	Fan Casing	1	44	Soft Cap	1
21	Blower Wheel	1	45	Plug	1
22	Fan Motor WBA-038AL-BA-NJC)	1	46	Cover	1
23	Fan Tank	1	47	Fix Ture	1
24	Cover	1	48	WIFI Module	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.

Simplified EU Declaration of Conformity

Hereby, Trotec GmbH declares that the radio equipment type (TTK-I 110 E – Wifi module) is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://hub.trotec.com/?id=47710>

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