PAC-S 3510 SH

EN

INSTRUCTIONS
LOCAL AIR CONDITIONER

TROTEC

TRT-BA-PAC-S3510SH-TC26TTRT10046-002-HS-EN

Table of contents

Information on the use of these instructions

Symbols

A2L **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:

PAC-S 3510 SH

https://hub.trotec.com/?id=47733

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.
- Never insert any objects or limbs into the device.
- 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 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 technical data when selecting extensions to the power cable. Completely unroll the extension cable. Avoid electrical overload.
- Before carrying out maintenance, care or repair work on the device, remove the mains plug from the mains socket. Hold onto the mains plug while doing so.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable.
  If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
  Defective power cables pose a serious health risk!
- When positioning the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the Technical annex.
- Make sure that the air inlet and outlet are not obstructed.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Make sure that the suction side is kept free of dirt and loose objects.
- Only transport the device in an upright position with an emptied condensation tray or drain hose.
- Discharge the collected condensate before transport and storage. Do not drink it. Health hazard!
- Use batteries of type AAA.
- Do not insert rechargeable batteries into the remote control.
- Never charge batteries that cannot be recharged.
- Different types of batteries and new and used batteries must not be used together.
- Insert the batteries into the battery compartment according to the correct polarity.
- Remove discharged batteries. Batteries contain materials hazardous to the environment. Dispose of the batteries according to the national regulations.
- Remove the batteries from the remote control if you will not be using the device for a longer period of time.
- Never short-circuit the terminals of batteries!
- Do not swallow batteries! If a battery is swallowed, it can cause severe internal burns within 2 hours! These burns can lead to death!
- If you think batteries might have been swallowed or otherwise entered the body, seek medical attention immediately!
- Keep new and used batteries and an open battery compartment away from children.
- If the battery compartment does not close securely, stop using the product via the remote control.

Safety warnings for devices containing flammable refrigerants

- 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^2.
- Store the device in a way that no mechanical damage can occur.
- Observe the maximum refrigerant capacity in the technical data.
- Not suitable for use in continuous rain.
- 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 cooling, ventilating, dehumidifying and heating indoor air whilst adhering to the technical data.

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

Reasonably foreseeable misuse

- Do not place the device on wet or flooded ground.
- Do not place any objects, e.g. clothing, on the device.
- Do not use outdoors.
- Never immerse the device in water.
- Do not make any unauthorised modifications, alterations or structural changes to the device.
- Do not use the device in the immediate vicinity of swimming pools, bathtubs and showers.

Personnel qualification

People who use this device must:

- have read and understood the instructions, especially the Safety chapter.

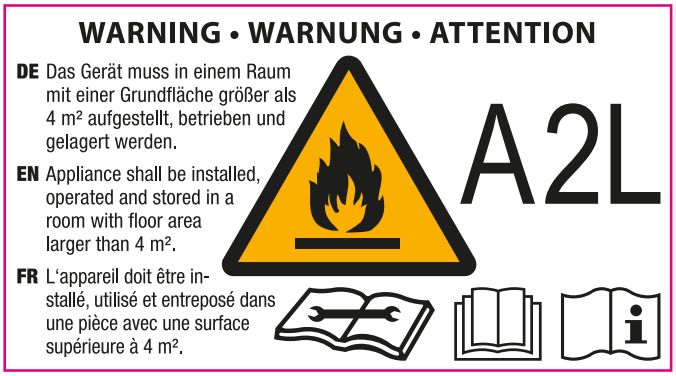
Maintenance tasks which require the housing to be opened must only be carried out by specialist companies for cooling and air-conditioning or by the manufacturer.

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

Difluoromethane refrigerant (R32)!

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.
P403 – 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

Before any work on the device, remove the mains plug from the mains socket!
Do not touch the mains plug with wet or damp hands.
Hold onto the mains plug while pulling the power cable out of the mains socket.

Warning 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

Risk of electric shock!
The internal unit is not protected against water.
There is a risk of electric shock!
Never use the internal unit in areas where dripping, spraying or running water can enter the device! Never immerse the device in water!

Notice

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

Behaviour in the event of an emergency

1. Switch the device off.
2. 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 serves the purpose of cooling the room air. It further filters and dehumidifies the air thus creating an agreeable room climate. Additionally, the device can be used as heater.

The device consists of two device units, the internal unit and the external unit. The two units are connected using the connection line. The external unit is hung in a window.

The device cools the room air by withdrawing warmth. The absorbed heat is transported to the external unit through a flexible connection line. The external unit emits the absorbed warmth to the outside air. By means of a condensate pump located in the internal unit the condensate accumulating during cooling operation is conveyed to the external unit and there it evaporates on the heat exchanger.

In *Cooling* mode the produced compressor performance adapts itself precisely to the demand and so regulates the target temperature with minimal temperature fluctuations.

In *Ventilation* mode the device provides the opportunity of air circulation without cooling effect.

In *Dehumidification* mode moisture is withdrawn from the air.

In *Heating* mode the room air is warmed up.

The device operates fully automatically and features a variety of further options. The device can, for instance, be switched on or off automatically with time delay via the timer function.

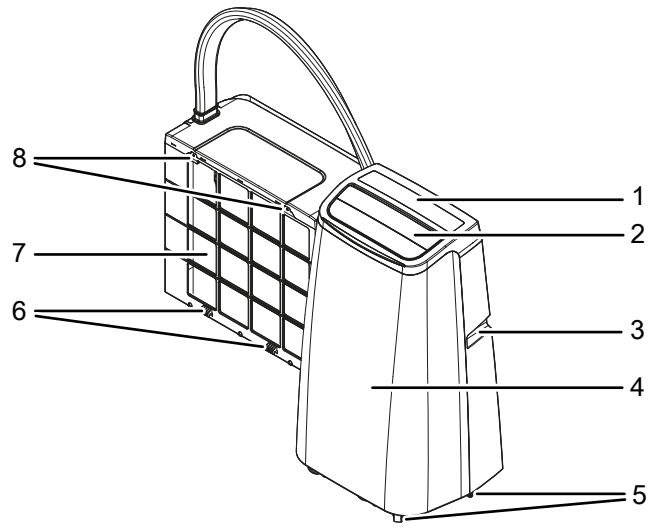
Furthermore the device comes with a night mode and a swing function.

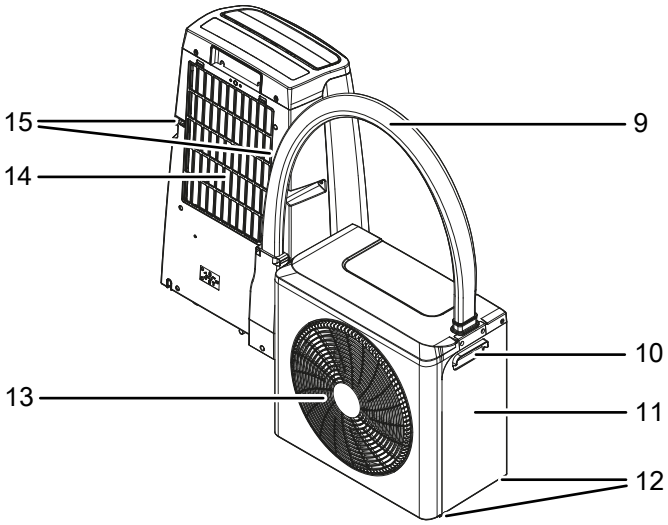
Operation of the device is possible either via the control panel at the internal unit or via the supplied infrared remote control. The device can also be operated via a WiFi connection and the Trotec Assistant app.

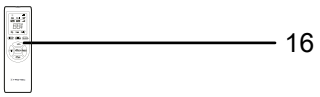
The external unit is protected against spray on all sides (IPX4).

The internal unit is not protected against water (IPX0).

Device depiction







No.	Designation
1	Control panel
2	Air outlet with adjustable ventilation flaps
3	Transport handle
4	Internal unit
5	Wheels
6	Suspension devices
7	Air inlet
8	Hooks for suspension
9	Connection line
10	Transport handle
11	External unit
12	Feet

No.	Designation
13	Air outlet
14	Air inlet with air filter
15	Hook slots
16	Remote control

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 wheels.

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

Before transporting the device, observe the following:

- 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.
- Do not use the power cable to drag the device.
- Only wheel the device on firm and level surfaces.

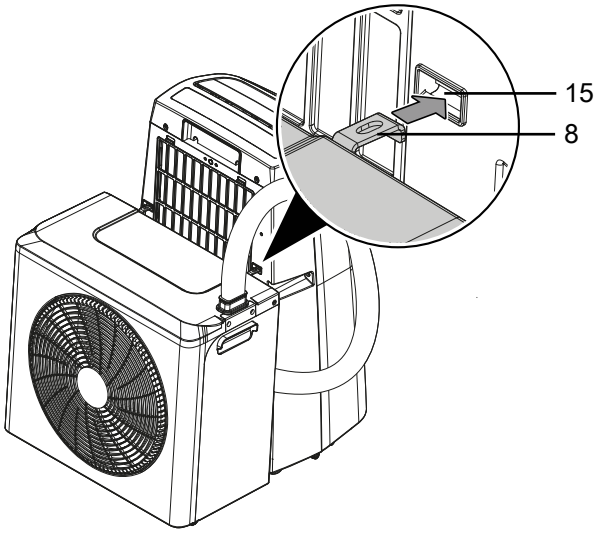
After transporting the device, proceed as follows:

- Set up the device in an upright position after transport.
- Mount the device as described in the Assembly chapter.
- Leave the device to rest for at least 12 hours if it has been tilted by more than 45° during maintenance. During this time, the lubricating oil can be returned to the compressor. Wait 12 hours before switching the device back on! Acting contrary might lead to compressor damage and a malfunctioning device.

Storage

Before storing the device, observe the following:

- Drain the remaining condensate from the device.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- Leave the device running in *Ventilation* mode to dry the inside of the device.
- Secure the external unit to the internal unit by hanging the hooks (8) on the external unit into the hook slots (15) on the internal unit.



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

- Only store the internal and external units indoors to prevent them from becoming dirty. Dismantle the external unit for this purpose.
- 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);
- Only store the device in a room measuring more than 4 m^2.
- Store the device in a dry location and protected from frost and heat.
- Store the device in an upright position where it is protected from dust and direct sunlight.
- If required, use a cover to protect the device from invasive dust.
- Place no further devices or objects on top of the device to prevent it from being damaged.
- Remove the batteries from the remote control.

Assembly and start-up

Scope of delivery

- 1 x Device
- 1 x Mounting bracket for external unit
- 2 x Star knob screw for mounting bracket
- 1 x Window seal
- 1 x Velcro® tape for window seal
- 1 x Condensation drain hose
- 1 x Clamp for securing the condensation drain hose
- 1 x Locking buckle with safety chain
- 1 x Thermal insulation sleeve for the connection line
- 1 x Remote control (without batteries)
- 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.

Assembly

Warning
The connection line is fitted between the external and internal unit and must never be disconnected. Otherwise there is the risk of refrigerant leaking. The refrigerant is highly flammable and can explode when it is heated. Never disconnect the connection line! If you have any questions about the connection line, please contact a specialist company for cooling and air-conditioning or the manufacturer.

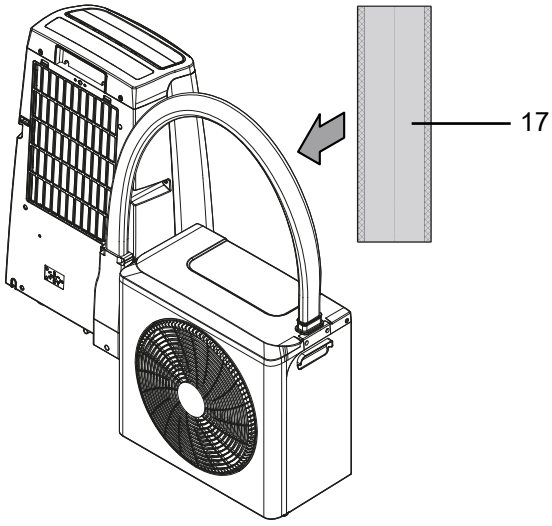
Notice
Depending on the weather, there might be condensate leaking out from the condensate outlet of the external unit. This is a perfectly normal process. Select an appropriate installation site for the external unit so that no damages are caused by the leaking water, or connect it to a drain.

Notice
The device must be installed in a flat, unobstructed location. Make sure that the airflow is not blocked. Keep a distance of at least 50 cm on all sides.

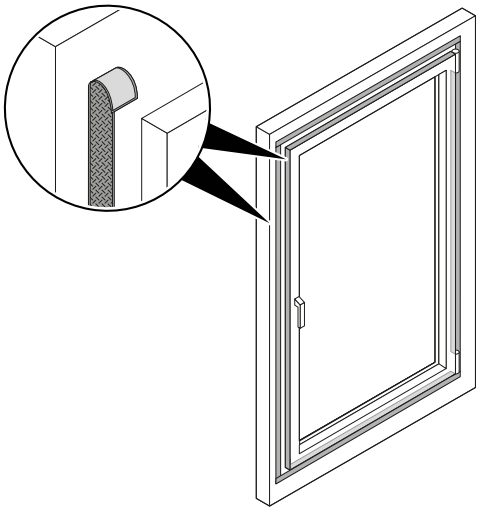
The internal and external unit are already connected to each other via the connection line. The mounting bracket for fastening and suspension in the window has to be fitted to the external unit.

✓ The device is switched off and disconnected from the mains.

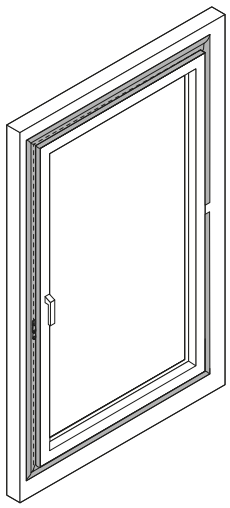
1. Check whether the connection line between the internal and external unit is properly connected. The connection line must not be kinked or twisted.
2. Check whether the caps on the condensate outlets are tightened securely.
3. Wrap the thermal insulation sleeve (17) around the connection line.

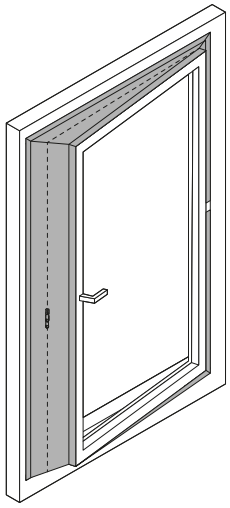


4. Stick the Velcro® tape to the window frame and the window.

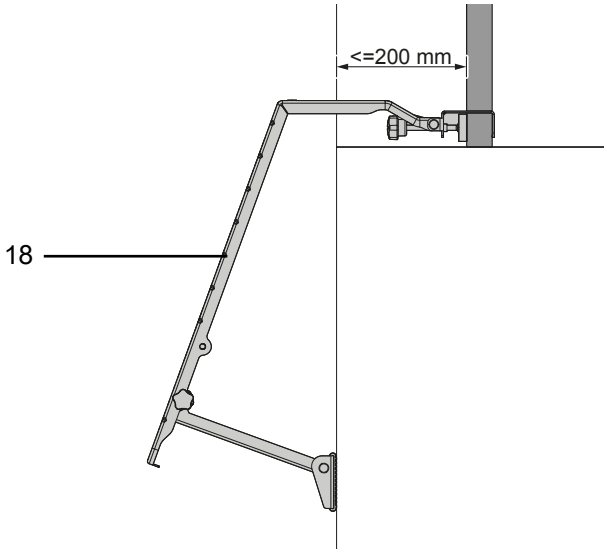


5. Stick the window seal onto the Velcro® tape on the window frame. Then open the zip on the window seal and stick the other side of the window seal onto the Velcro® tape on the window.

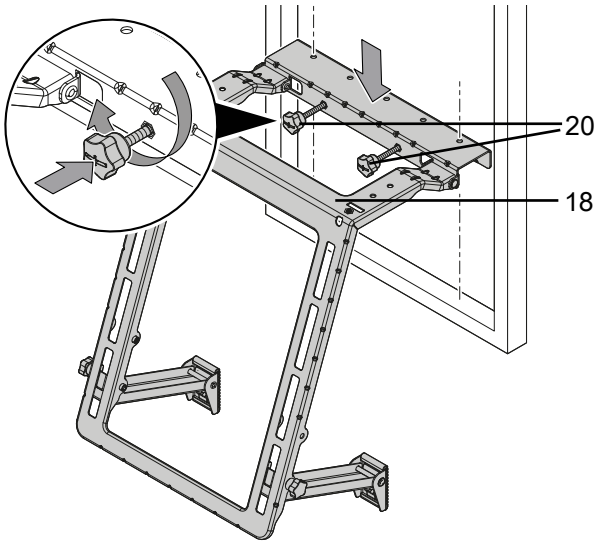




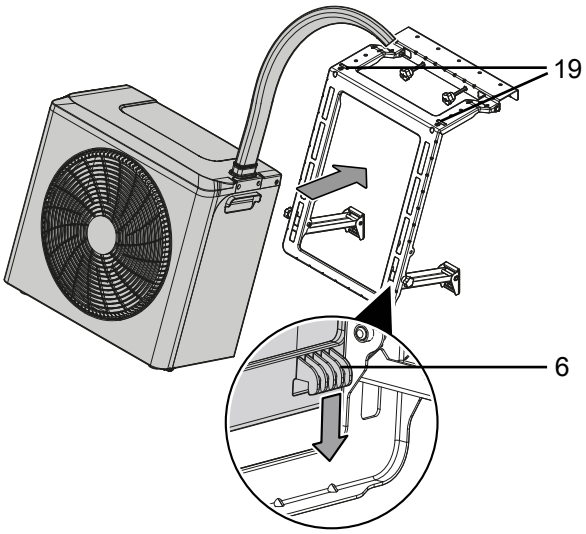
6. Hang the mounting bracket (18) on the window.



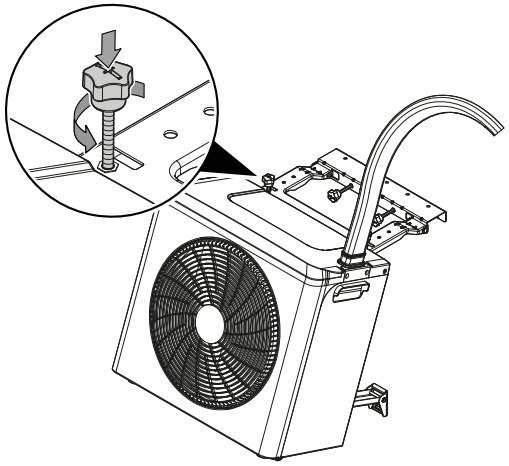
7. Tighten the star knob screws (20) at the top of the mounting bracket (18).



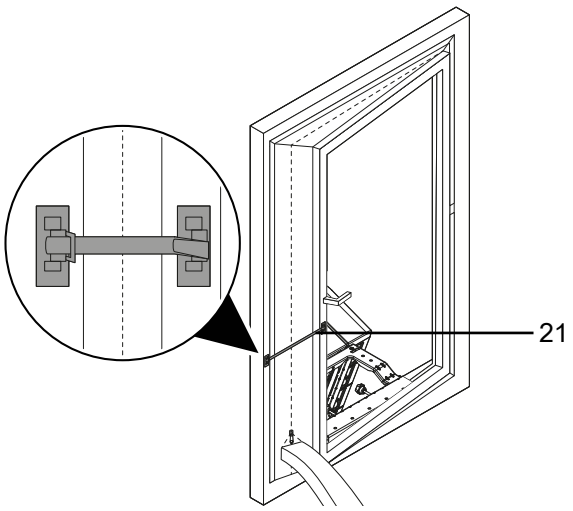
8. Attach the suspension device (6) of the external unit to the mounting bracket and hang the hooks (8) of the external unit into the hook slots (19) on the mounting bracket.



9. Tighten the star knob screws at the bottom of the mounting bracket.



10. Attach the locking buckle with safety chain (21) to the window and window frame to ensure that the window is closed as tightly as possible. To do so, stick the two parts of the locking buckle to the window and to the window frame. Make sure you do not attach the two parts of the locking buckle too far apart.

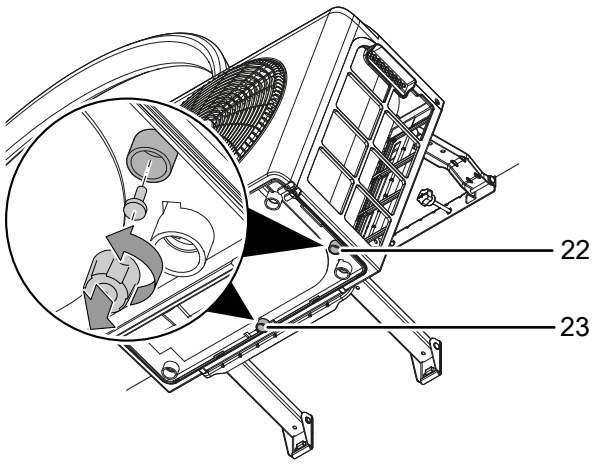


Connecting the condensation drain hose

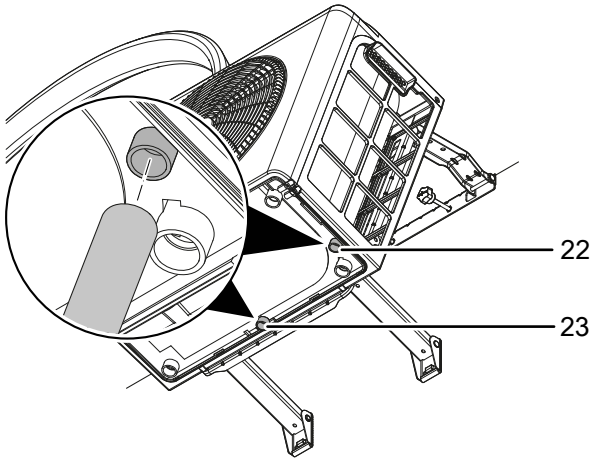
If you use the device for an extended period of time or you don't want to empty the tank all the time, you can connect a condensation drain hose to the condensate outlet. In *Cooling* and *Dehumidification* modes, use the *Cool* condensate outlet (22). In *Heating* mode, use the *Heat* condensate outlet (23).

- ✓ The device is switched off.
- ✓ The device is disconnected from the mains.

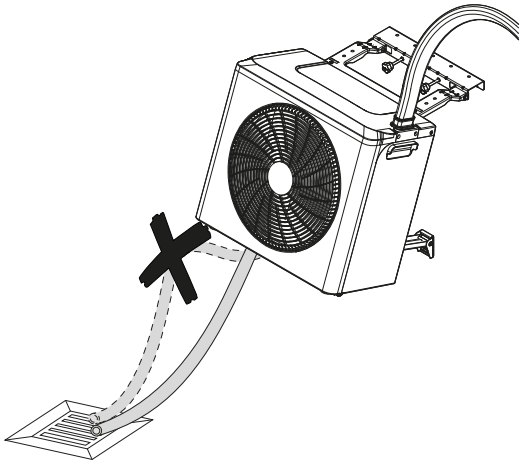
1. Carefully transport or wheel the device to a suitable location for discharging the condensate (e.g. a drain) or position a suitable collection container under the condensate outlet.
2. Remove the cap and the rubber stopper from the *Cool* (22) or *Heat* (23) condensate outlet.



3. Connect the condensation drain hose to the *Cool* (22) or *Heat* (23) condensate outlet.



4. Guide the other hose end to a suitable drain or sufficiently dimensioned collection container. To ensure that the condensate can run off, the condensation drain hose must not be kinked, nor should it have to overcome an uphill incline towards the drain.

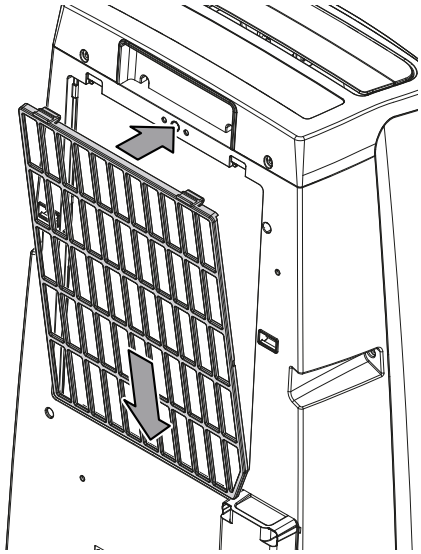


Inserting the air filter

Notice

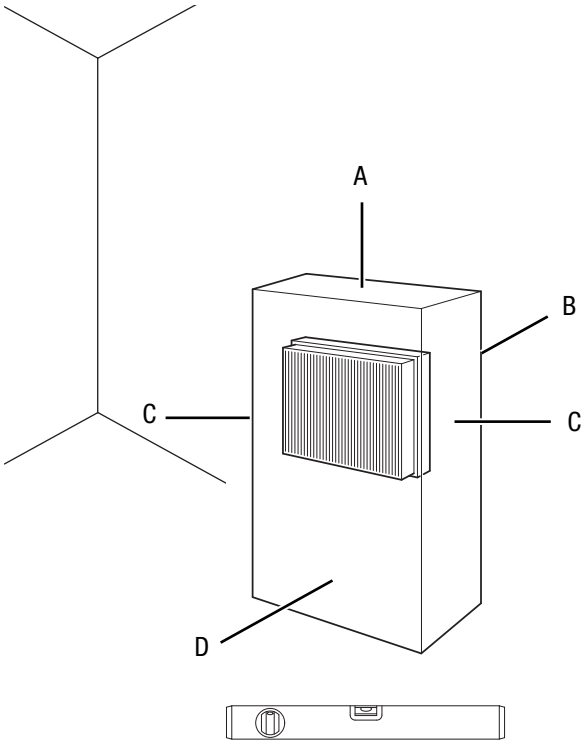
Do not operate the device without an inserted air filter! Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

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



Start-up

During operation, observe the minimum distance to objects as described in the chapter Technical data.



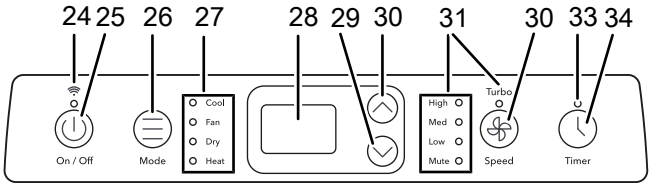
- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Do not create tripping hazards when laying the power cable or other electrical cables. Use cable bridges.
- Make sure that extension cables are completely unrolled.
- Make sure that the air inlet and outlet are not obstructed.
- Make sure that no curtains or other objects interfere with the air flow.
- The connection line must not be jammed or kinked.
- The connection line must not be subjected to tension or other mechanical stress.
- The pipe insulation and the protective cover must not be damaged.

Connecting the power cable

- Connect the mains plug to a properly secured socket.

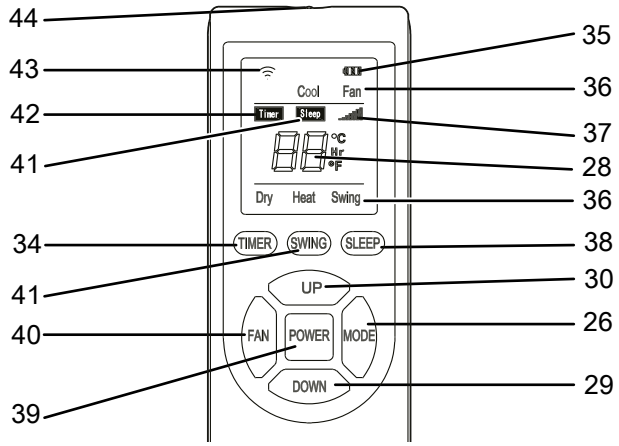
Operation

Control panel



No.	Designation	Meaning
24	*WiFi* LED	Illuminated when WiFi is activated
25	*On/Off* button	Switching the device on or activating standby mode
26	*Mode* button	Selecting the operating mode
27	Operating mode LEDs	Indication of the selected operating mode: Cool = *Cooling* Fan = *Ventilation* Dry = *Dehumidification* Heat = *Heating*
28	Segment display	Indication of the current room temperature in *Dehumidification* and *Ventilation* mode Indication of the target temperature in *Cooling* and *Heating* mode and in night mode Indication of the set number of hours during timer programming Indication of the error code, see chapter Errors and faults
29	*Down* button	Reducing the target temperature (16 °C to 30 °C) for cooling and heating For reducing the number of hours when programming the timer
30	*Up* button	Increasing the target temperature (16 °C to 30 °C) for cooling and heating For increasing the number of hours when programming the timer
31	Fan speed LEDs	Indication of the selected fan speed: Turbo = maximum fan speed High = high fan speed Med = medium fan speed Low = low fan speed Mute = lowest fan speed
30	*Speed* button	Setting the fan speed
33	*Timer* LED	Illuminated when the timer is activated
34	*Timer* button	Switching the timer function on or off

Remote control



No.	Designation	Meaning
35	*Battery* indication	Battery charge level of the remote control
36	*Operating mode* indication	Cool = *Cooling* Fan = *Ventilation* Dry = *Dehumidification* Heat = *Heating* Swing = Swing function
37	*Fan speed* indication	Maximum fan speed = High fan speed = Medium fan speed = Low fan speed = Lowest fan speed =
28	Segment display	Indication of the current room temperature in *Dehumidification* and *Ventilation* mode Indication of the target temperature in *Cooling* and *Heating* mode and in night mode Indication of the set number of hours during timer programming Indication of the error code, see chapter Errors and faults
38	*Sleep* button	For switching *night mode* on or off
30	*Up* button	Increasing the target temperature (16 °C to 30 °C) for cooling and heating For increasing the number of hours when programming the timer
26	*Mode* button	Selecting the operating mode: *Cooling* *Ventilation* *Dehumidification* *Heating*

No.	Designation	Meaning
29	*Down* button	Reducing the target temperature (16 °C to 30 °C) for cooling and heating For reducing the number of hours when programming the timer
39	*Power* button	Switching the device on or activating standby mode
40	*Fan* button	Setting the fan speed
41	*Swing* button	For switching the swing function on or off
34	*Timer* button	Switching the timer function on or off
41	*Sleep* indication	Night mode active
42	*Timer* indication	Timer active
43	*WiFi* indication	WLAN connection active
44	Remote control transmitter/ receiver	Communication between device and remote control

Warning of electrical voltage

Risk of electric shock!
The internal unit is not protected against water (IPX0). There is a risk of electric shock!
Do not use the internal unit in areas where dripping, spraying, splashing water or water jets can enter the device. Never immerse the device in water!
The external unit is protected against splash water from all sides (IPX4).
It is not protected against water jets.
Do not use the external unit in areas where water jets can enter the device. Never immerse the device in water!

Switching the device on

1. Once you have completely installed the device as described in the Start-up chapter, you can switch it on.
2. Press the *On/Off* button (25) on the control panel or the *Power* button (39) on the remote control to switch the device on.
   ⇨ The device switches on. The device starts in *Cooling* mode.
   ⇨ The *Operating mode* LED (27) *Cool* lights up.
   ⇨ The *Fan speed* LED (31) or the *Fan speed* indication (37) shows the set fan speed.
3. Select the desired operating mode.

Setting the operating mode

The device has the following operating modes:

- Cooling
- Ventilation
- Dehumidification
- Heating

Info

An acoustic signal is emitted each time a setting is changed.

Cooling

In *Cooling* mode the room will be cooled down to a desired target temperature.

1. Repeatedly press the *Mode* button (26) until the *Operating mode* LED (27) *Cool* or the *Operating mode* indication (36) *Cool* lights up.
2. Press the *Up* (30) or *Down* (29) button to set the desired target temperature. The temperature can be adjusted in increments of 1 °C in a range between 16 °C and 30 °C.
   ⇨ The desired target temperature is indicated on the segment display (28).
3. Press the *Speed* button (30) or the *Fan* button (40) to set the desired fan speed.
   ⇨ The *Fan speed* LED (31) or the *Fan speed* indication (37) for the selected fan speed lights up.

Ventilation

In *Ventilation* mode the room air is circulated, it will neither be cooled nor dehumidified.

1. Repeatedly press the *Mode* button (26) until the *Operating mode* LED (27) *Fan* or the *Operating mode* indication (36) *Fan* lights up.
   ⇨ *Ventilation* mode is selected.
   ⇨ The current room temperature is indicated on the segment display (28). The target temperature cannot be set.
2. Press the *Speed* button (30) or the *Fan* button (40) to set the desired fan speed.
   ⇨ The *Fan speed* LED (31) or the *Fan speed* indication (37) for the selected fan speed lights up.

Dehumidification

In *Dehumidification* mode the humidity level in the room is reduced.

1. Repeatedly press the *Mode* button (26) until the *Operating mode* LED (27) *Dry* or the *Operating mode* indication (36) *Dry* lights up.
   ⇨ *Dehumidification* mode is selected.
   ⇨ The four-way valve is closed in *Dehumidification* mode.
   ⇨ The internal unit draws humidity from the room air, which is then transported to the external unit by the condensate pump.
2. Press the *Up* (30) or *Down* (29) button to set the desired target temperature. The temperature can be adjusted in increments of 1 °C in a range between 16 °C and 30 °C.
   ⇨ The desired target temperature is indicated on the segment display (28).
3. Press the *Speed* button (30) or the *Fan* button (40) to set the desired fan speed.
   ⇨ The *Fan speed* LED (31) or the *Fan speed* indication (37) for the selected fan speed lights up.

Heating

In *Heating* mode the room will be heated up to the desired target temperature.

1. Repeatedly press the *Mode* button (26) until the *Operating mode* LED (27) *Heat* or the *Operating mode* indication (36) *Heat* lights up.
   ⇨ *Heating* mode is selected.
2. Press the *Up* (30) or *Down* (29) button to set the desired target temperature. The temperature can be adjusted in increments of 1 °C in a range between 16 °C and 30 °C.
   ⇨ The desired target temperature is indicated on the segment display (28).
3. Press the *Speed* button (30) or the *Fan* button (40) to set the desired fan speed.
   ⇨ The *Fan speed* LED (31) or the *Fan speed* indication (37) for the selected fan speed lights up.

Setting the timer

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

The time can be set in increments of 1 hour (1 h to 24 h).

✓ **Automatic switch-on:** The device is in standby mode.
✓ **Automatic switch-off:** The device is switched on.

1. Press the *Timer* button (34) for 3 seconds until the *Timer* LED (33) is illuminated.
   ⇨ The segment display shows the number 1 (for 1 hour).
2. Use the *Up* (30) and *Down* (29) buttons to set the desired number of hours.

⇨ The segment display (28) indicates the time until automatic switch-on/ switch-off.
⇨ The timer is now set to the desired number of hours.
⇨ The *Timer* LED (33) or the *Timer* indication (42) is illuminated as long as the timer is active.
⇨ After the predefined time, the device switches itself on or off.
⇨ Setting the number of hours to 0 switches the timer function off.
⇨ If the device is disconnected from the power supply, all settings for automatic switch-on/switch-off are deleted.

Night mode

Night mode can be activated in *Cooling* and *Heating* mode.

Night mode comes with the following settings:

- After 1 hour the preset temperature is increased (*Cooling* mode) or reduced (*Heating* mode) by 1 °C. Then the temperature is kept constant for 8 hours before the device switches off automatically. The switch-off time cannot be adjusted.
- The fan speed is preset to the lowest stage and cannot be adjusted.

To activate night mode, please proceed as follows:

1. Select *Cooling* or *Heating* mode.
2. Press the *Sleep* button (38) on the remote control, or simultaneously press the *Timer* button (34) and the *Speed* button (30) on the control panel.
   ⇨ *SL* will be indicated on the segment display (28).
   ⇨ The *Fan speed* LED (31) or the *Fan speed* indication (37) for the lowest fan speed lights up.

Swing function

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

By means of the swing function, the flaps at the air outlet (2) of the internal unit are moved automatically, ensuring continuous air circulation.

1. Press the *Swing* button (41) on the remote control, or simultaneously press the *Up* button (30) and the *Down* button (29) on the control panel to switch on the swing function.
   ⇨ The ventilation flaps move up and down continuously.
2. Press the *Swing* button (41) on the remote control again, or simultaneously press the *Up* button (30) and the *Down* button (29) on the control panel again to stop the ventilation flaps in a certain position or to switch off the swing function.

Operation with WiFi

Trotec Assistent 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 *Large household appliances* and *Air conditioning (Wi-Fi)* among them.
4. Press the *Speed* button (30) on the control panel of the device for approx. 3 seconds.
   ⇨ The *WiFi* LED (24) lights up.
5. Press the *Speed* button (30) on the control panel of the device for approx. 3 seconds again.
   ⇨ The *WiFi* LED (24) flashes approx. twice per second.
   ⇨ The device is in *Quick Connect* mode.
6. Follow the instructions in the app on your smartphone.
   ⇨ Once the *WiFi* LED (24) is permanently illuminated, the connection is established.

Info
If the WiFi connection is interrupted, the device may not automatically reconnect to the network. If this is the case, re-establish the connection with the *Speed* button (30).

Shutdown

Warning of electrical voltage
Do not touch the mains plug with damp or wet hands. Never switch off the running device by pulling the power cable.

1. Switch the device to standby mode by pressing the *On/Off* button (25) on the control panel or the *Power* button (39) on the remote control.
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. Empty the condensation tanks via the two condensate outlets (22 and 23).
4. Clean the device according to the Maintenance chapter.
5. Store the device according to the Storage chapter.

Errors and faults

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

> **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. If you notice damages, do not try to take the device back into operation.
  If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Check the on-site fusing.
- Observe the operating temperature according to the chapter Technical annex.
- If the device is not starting, have the electrics checked by a specialist company or by the manufacturer.

The device works with reduced or no cooling capacity:

- Check whether *cooling* mode is selected.
- Check the position of the flap at the air outlet (2). The flap at the air outlet (2) must be opened as far as possible.
- Check the air filter(s) for dirt. If necessary, clean or replace the air filter(s).
- Check the minimum distance to walls or other objects. Position the device a little more in the room's centre if required.
- Check the temperature setting at the device. Reduce the set temperature if it is higher than the room temperature.

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 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 compressor may start up with a delay of 3 minutes, as it is provided with an internal protection against direct restart.

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

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

The device does not respond to the infrared remote control:

- Check whether the distance between remote control and device is too large and reduce it if necessary.
- Make sure there are no obstacles, such as furniture or walls, between the device and the remote control. Ensure visual contact between device and remote control.

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.

The device is loud or vibrates:

- Check whether the device is set up in a stable and upright position.
- Check that the mounting bracket is secure and tighten the fastening screws on the device.

Condensate is leaking:

- Check the internal unit for leaks.
- Check the rubber stopper for tight fit. If necessary, replace the rubber stopper.
- Make sure that the internal unit is positioned upright and securely on a horizontal and stable surface.

An odour is emitted during operation:

- Switch the device off immediately and contact the manufacturer.

Error codes

The following error messages can be displayed on the segment display (28). Contact the manufacturer and state the error message.

Error code	Cause
F1	Fault in the compressor's IPM drive
F2	PFC/IPM error
F3	Abnormal compressor start
F4	Compressor operational fault (pressure outside the set range)
F5	Malfunction of the position detection circuit
FA	Phase current overcurrent protection
P2	DC bus overvoltage and undervoltage protection
E4	Communication failure indoors and outdoors
F6	Communication error between main control board and driver board
P3	AC Input voltage protection
P4	AC overcurrent protection
P5	AC overvoltage and undervoltage protection
F7	Malfunction of the outdoor panel sensor (reserved)
F8	Malfunction of the return air sensor (reserved)
E0	Malfunction of the exhaust gas sensor
E6	Malfunction of the outdoor sensor (reserved)
E7	Malfunction of the external DC fan
FE	Malfunction of the external lighting
PA	Protection against abnormal temperature of the return air sensor
P1	High-temperature protection on top of the compressor
PE	Abnormal refrigerant circulation
PH	Exhaust temperature protection
PC	Overload protection for outdoor coil (reserved)
E3	Faulty feedback from DC fan for indoor use
P6	Overload protection for indoor heat exchanger
P7	Frost protection for indoor heat exchanger
E2	Malfunction of the indoor coil sensor
E1	Malfunction of the indoor ambient temperature sensor
P8	Error in zero-crossing detection of the internal unit
EE	Indoor EE malfunction
E5	Feedback error of the water motor
E8	Faulty feedback from cooling fan
FL	Complete water protection
EA	Reverse flow error of the four-way valve
Eb	System error

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 inlets and outlets for dirt and foreign objects and clean if necessary	X			X		
Clean the exterior		X				X
Visually check the inside of the device for dirt		X				X
Check the air filter for dirt and foreign objects and clean or replace if necessary	X		X			
Replace the air filter					X	
Check for damage	X					
Check the attachment screws		X				X
Test run						X
Empty the condensation tray and 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 air inlets and outlets for dirt and foreign objects and clean if necessary																
Clean the exterior																
Visually check the inside of the device for dirt																
Replace the air filter																
Check the attachment screws																
Test run																
Empty the condensation tray and 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 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

A2L **Danger**
Flammable difluoromethane refrigerant (R32)!
During installation or maintenance, keep ignition sources such as open flames, an active gas appliance or an electric heater away from the working environment.

- 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

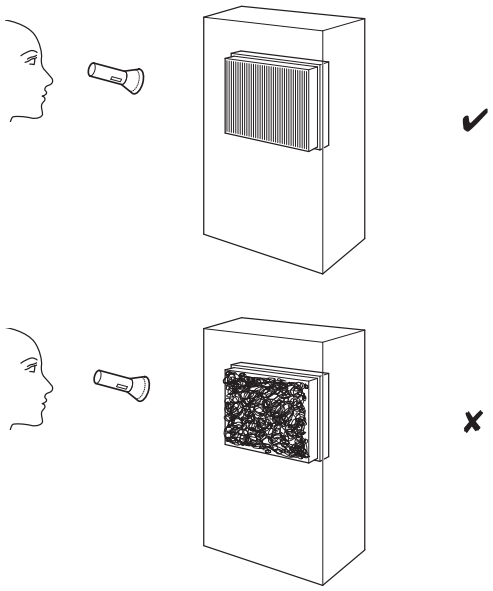
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

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 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. Put the air filter back in.

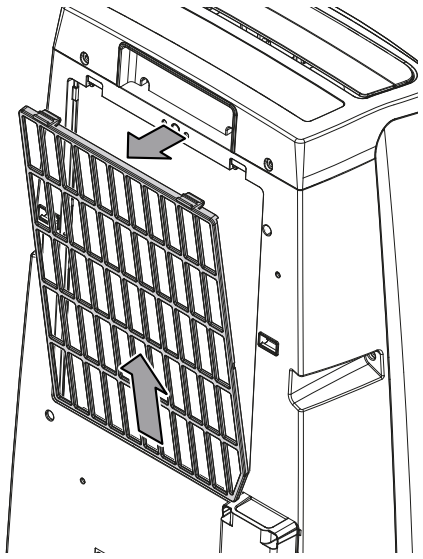


Cleaning the air filter

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

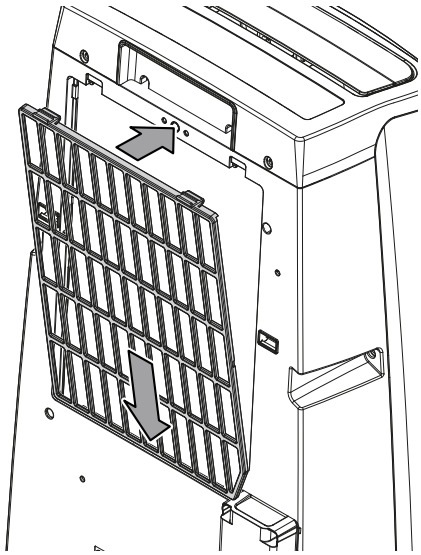
Warning
Ensure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry!

1. Remove the air filter from the device.



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

4. Reinsert the air filter into the device.

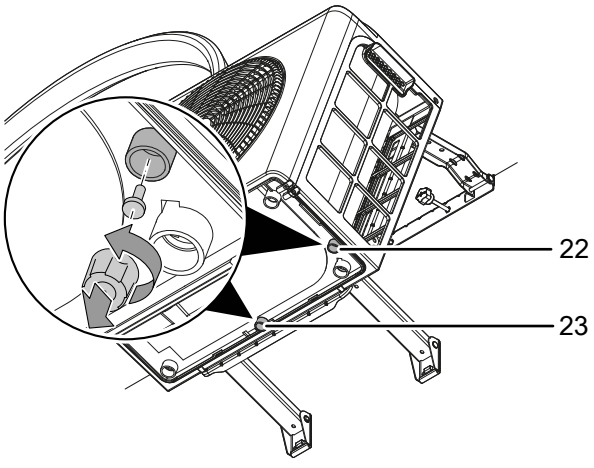


Condensate discharge (manual draining)

In *Cooling*, *Dehumidification* and *Heating* mode condensate is formed, which is conveyed to the external unit by the condensate pump.

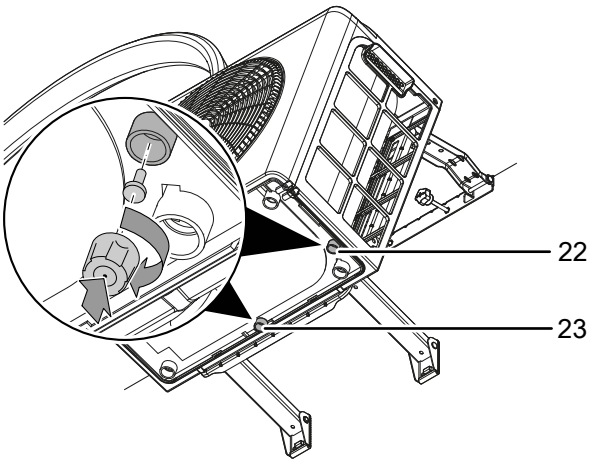
If too much condensate collects in the external unit, the error code *FL* is shown on the segment display (28).

1. Check whether there is a drain at the installation site, or provide a suitable collection container under the condensate outlet.
2. Remove the cap and the rubber stopper from the *Cool* (22) or *Heat* (23) condensate outlet and let the condensate run off.



⇨ The *FL* error code will no longer be displayed on the segment display (28) once the condensate has been drained.

3. Refit the rubber stopper and the cap to the *Cool* (22) or *Heat* (23) condensate outlet. Ensure a tight fit of the rubber stopper and cap, for otherwise there might be uncontrolled water leakage.



Activities required after maintenance

If you want to continue using the device:

- Leave the device to rest for at least 12 hours, so the refrigerant can accumulate within the compressor. Wait 12 hours before switching the device back on! Acting contrary might lead to compressor damage and a malfunctioning 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.

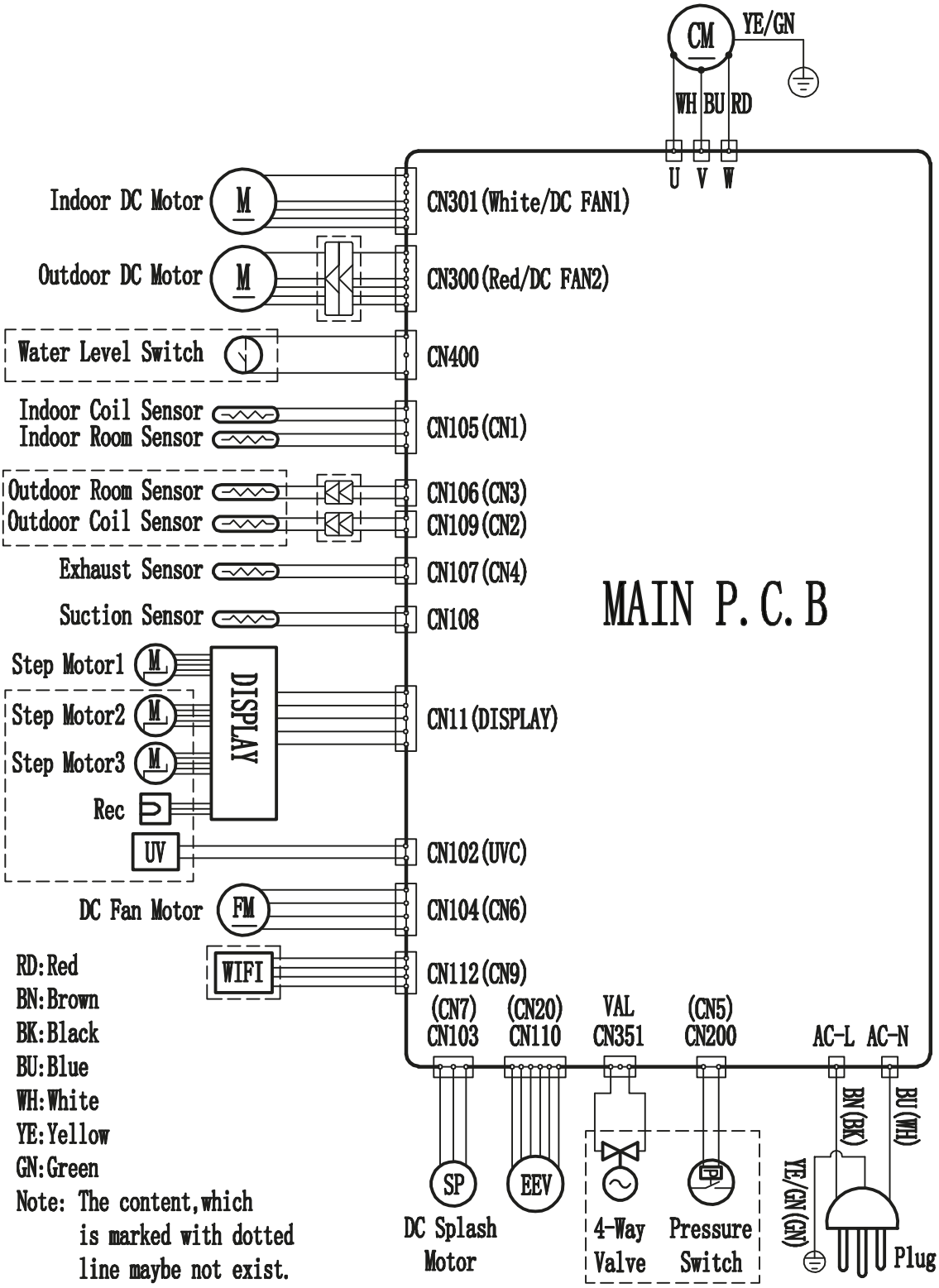
Technical annex

Technical data

Model	PAC-S 3510 SH
Max. cooling capacity	3.5 kW
Max. heating capacity	3.5 kW
Dehumidification performance	1.2 l/h
Dehumidifying capacity max.	28.8 l/24 h
Operating temperature: Internal unit: External unit:	 16 °C to 30 °C -10 °C to 45 °C
Temperature setting range	16 °C to 30 °C
Max. air volume flow	450 m^3/h
Mains connection	220 V – 240 V / 50 Hz
Nominal current Cooling	5.3 A
Nominal current Heating	4.8 A
Fusing	25 A
Type of protection: Internal unit: External unit:	 IPX0 IPX4
Max. power consumption: Cooling: Heating:	 1.2 kW 1.1 kW
Sound pressure level at a distance of 1 m: Internal unit: External unit:	 51 dB(A) 57 dB(A)
Refrigerant	R32
Amount of refrigerant	640 g
GWP factor	675
CO_2 equivalent	0.432 t
Suction side pressure	1.5 MPa
Discharge side pressure	4.0 MPa
Max. permissible pressure	5.0 MPa
Dimensions (length x width x height): Internal unit: External unit:	 320 x 430 x 730 mm 280 x 510 x 475 mm
Minimum distance to walls and other objects: top (A): rear (B): sides (C): front (D):	 50 cm 50 cm 50 cm 50 cm

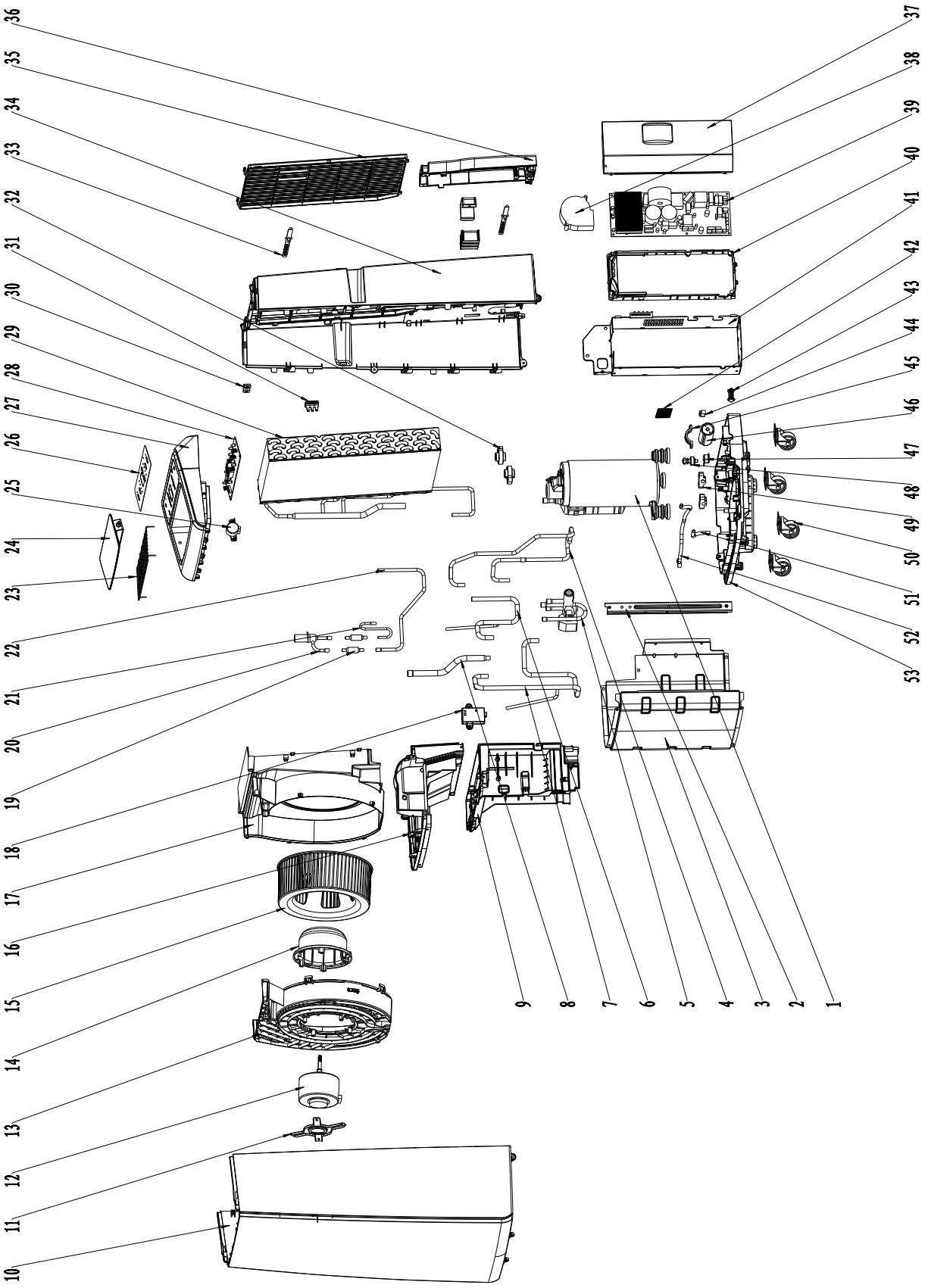
Model	PAC-S 3510 SH
Weight: Internal unit: External unit:	 24.5 kg 10 kg
Remote control batteries	Type LR03 / AAA – 1.5 V (2 pcs.)

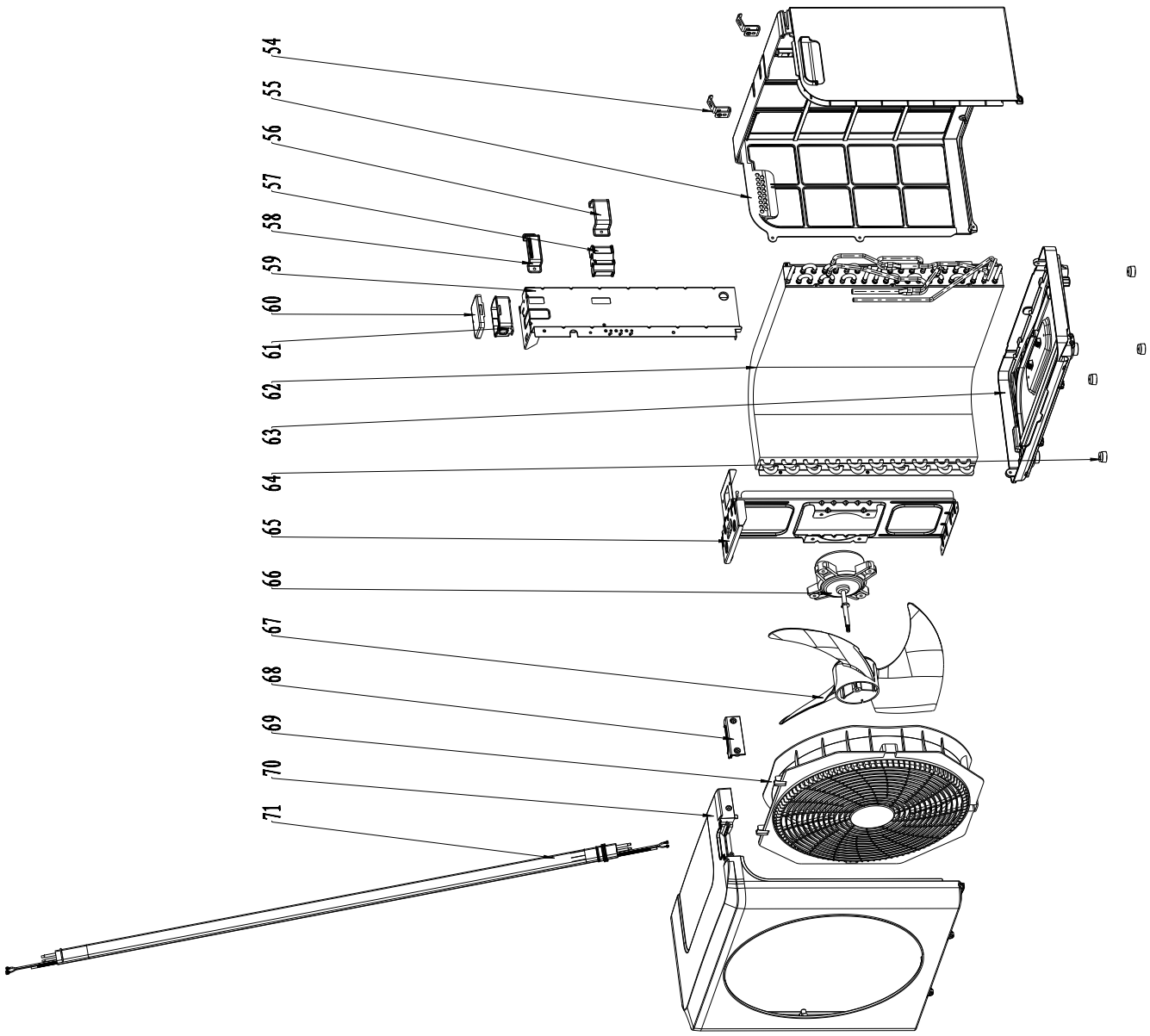
Circuit diagram



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.

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No.	Spare part	Quantity	No.	Spare part	Quantity	No.	Spare part	Quantity
1	Compressor	1	25	Step motor	1	49	Support plate 2	2
2	Sheet metal bracket	1	26	Display printing	1	50	Caster	4
3	Lower support plate	1	27	Top cover (replacement insert)	1	51	The inlet pipe of the water pump	1
4	Exhaust pipe components (cooling&heating)	1	28	Display light board	1	52	Water pump outlet pipe component	1
5	Four-way valve	1	29	Evaporator components	1	53	The chassis filter of the internal unit	1
6	Indoor outlet pipe connection pipe	1	30	Internal machine hook	1	54	Hook of outdoor machine	2
7	Return airway (cooling&heating)	1	31	Temperature sensing head fixed bracket	1	55	Rear panel of outdoor unit	1
8	Outlet pipe connecting pipe of evaporator	1	32	Suction pipe shock-absorbing rubber	2	56	Pipe fixing cover	2
9	Water tray of indoor unit	1	33	Power cord tie	2	57	Pipe fixing rubber	2
10	Front panel	1	34	Back panel of internal unit	1	58	Windshield bracket for outdoor unit	1
11	Motor support	1	35	Inlet grille of the internal unit	1	59	Windshield of the outdoor unit	1
12	Motor (air supply)	1	36	Pipe cover for internal unit	1	60	Terminal box cover of outdoor unit	1
13	Outside the air duct of the internal unit	1	37	Variable frequency control box cover	1	61	Terminal box of outdoor unit	1
14	Motor seat (DC)	1	38	Cooling blower fan	1	62	Condenser components	1
15	Centrifugal fan blade	1	39	PCB board	1	63	The chassis of the outdoor unit	1
16	Internal machine partition	1	40	Outer frame of variable frequency drive board	1	64	Rubber feet	4
17	Inside the air duct of the internal unit	1	41	Variable frequency control box	1	65	Motor support	1
18	WiFi components	1	42	The chassis filter of the internal unit	1	66	Exhaust fan motor	1
19	Filter	2	43	Drain plug for water tray	1	67	Axial flow fan blade	1
20	Electronic expansion valve body	1	44	Power line card	1	68	Piping cover for outdoor unit	1
21	Electronic expansion valve connecting pipe	1	45	Fixed bracket for water pump	1	69	External fan coil	1
22	Inlet pipe connection pipe of indoor unit	1	46	DC drainage pump	1	70	Front panel of outdoor unit	1
23	Wind safety net	1	47	Water level switch bracket	1	71	Silicone sheath component	1
24	Air deflector	1	48	Float Switch	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 (e.g. remote controls) must not be disposed of with household waste at the end of their life, in accordance with the Waste Electrical and Electronic Equipment Directive (2012/19/EU) and national laws.

You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website https://hub.trotec.com/?id=45090. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

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

Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) 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 (PAC-S 3510 SH – 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=47733

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