PAC 3200 E A+

EN

OPERATING MANUAL
LOCAL AIR CONDITIONER

TROTEC

TRT-BA-PAC3200EA+-TC2019-13-001-EN

Table of contents

Notes regarding the operating manual

Symbols

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

Warning of electrical voltage
This symbol indicates dangers to the life and health of persons due to electrical voltage.

Warning
This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.

Caution
This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

Note
This signal word indicates important information (e.g. material damage), but does not indicate hazards.

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

Follow the manual
Information marked with this symbol indicates that the operating manual must be observed.

You can download the current version of the operating manual and the EU declaration of conformity via the following link:

PAC 3200 E A+

https://hub.trotec.com/?id=42044

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use!

Warning
Read all safety warnings and all instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury.
Save all warnings and instructions for future reference.
This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Do not use the device in potentially explosive rooms.
- Do not use the device in aggressive atmosphere.
- Set the device up in an upright and stable position.
- Let the device dry out after a wet clean. Do not operate it when wet.
- Do not use the device with wet or damp hands.
- Do not expose the device to directly squirting water.
- Never insert any objects or limbs into the device.
- Do not cover or transport the device during operation.
- Do not sit on the device.
- This appliance is not a toy! Keep away from children and animals. Do not leave the device unattended during operation.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.

- Ensure that all electric cables outside of the device are protected from damage (e.g. caused by animals). Never use the device if electric cables or the power connection are damaged!
- The electrical connection must correspond to the specifications in chapter Technical data.
- Insert the mains plug into a properly secured mains socket.
- Observe the 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 the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
  Defective power cables pose a serious health risk!
- When positioning the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the Technical data chapter.
- 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!

Safety warnings for air conditioners filled with R290

- Only position the device in rooms where potentially leaking refrigerant cannot accumulate.
- Only position the device in rooms where there is no permanent source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Please note that the refrigerant is odourless.
- Only install the device in compliance with the national installation regulations.
- Observe the national gas regulations.
- Only install, operate and store the device PAC 3200 E A+ in a room measuring more than 13 m^2.
- Store the device in a way that no mechanical damage can occur.
- Please note that the connected ducts must not contain any sources of ignition.
- R290 is a refrigerant that complies with European environmental regulations. No part of the cooling circuit may be perforated.
- Do not drill through or burn.
- Do not use any means other than those recommended by the manufacturer for accelerating the defrosting process.
- 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.
- 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.
- 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 Trotec.

Intended use

Only use the device for cooling, ventilating and dehumidifying indoor air whilst adhering to the technical data.

Improper use

- Do not place the device on wet or flooded ground.
- Do not place any objects, e.g. clothing, on the device.
- Do not use the device outdoors.
- Any unauthorised modifications, such as alterations or structural changes to the device, are forbidden.
- Any operation other than as described in this manual is prohibited. Non-observance renders all claims for liability and guarantee null and void.

Personnel qualifications

People who use this device must:

- be aware of the dangers that occur when working with electric devices in damp areas.
- have read and understood the operating manual, especially the Safety chapter.

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

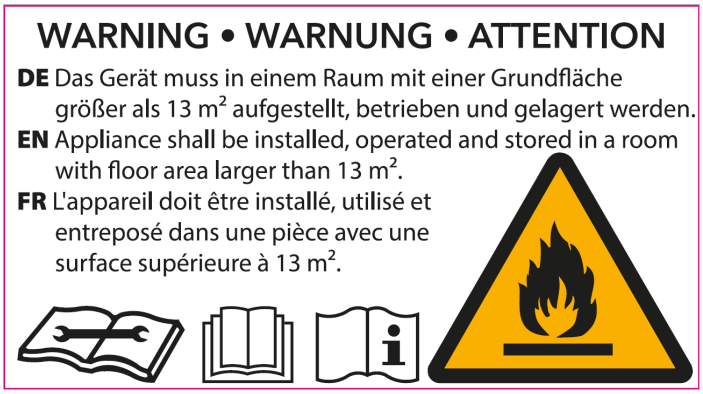
Safety signs and labels on the device

Note

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:

PAC 3200 E A+



Follow the manual

This symbol indicates that the operating manual 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
Before any work on the device, remove the mains plug from the mains socket!
Hold onto the mains plug while pulling the power cable out of the mains socket.

Warning
Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way!
Observe the personnel qualifications!

Warning
The device is not a toy and does not belong in the hands of children.

Warning
Risk of suffocation!
Do not leave the packaging lying around. Children may use it as a dangerous toy.

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

Behaviour in the event of an emergency

1. Switch off the device.
2. In an emergency, disconnect the device from the mains feed-in: Hold onto the mains plug while pulling the power cable out of the mains socket.
3. Do not reconnect a defective device to the mains.

Information about the device

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.

The unit cools the room air by withdrawing warmth. The absorbed warmth is emitted to the outside via the exhaust air hose; cooled air is fed to the installation site by means of a fan.

Accumulating condensate drips from the evaporator onto the hot condenser, there it evaporates and then is transported to the outside via the exhaust air hose.

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

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

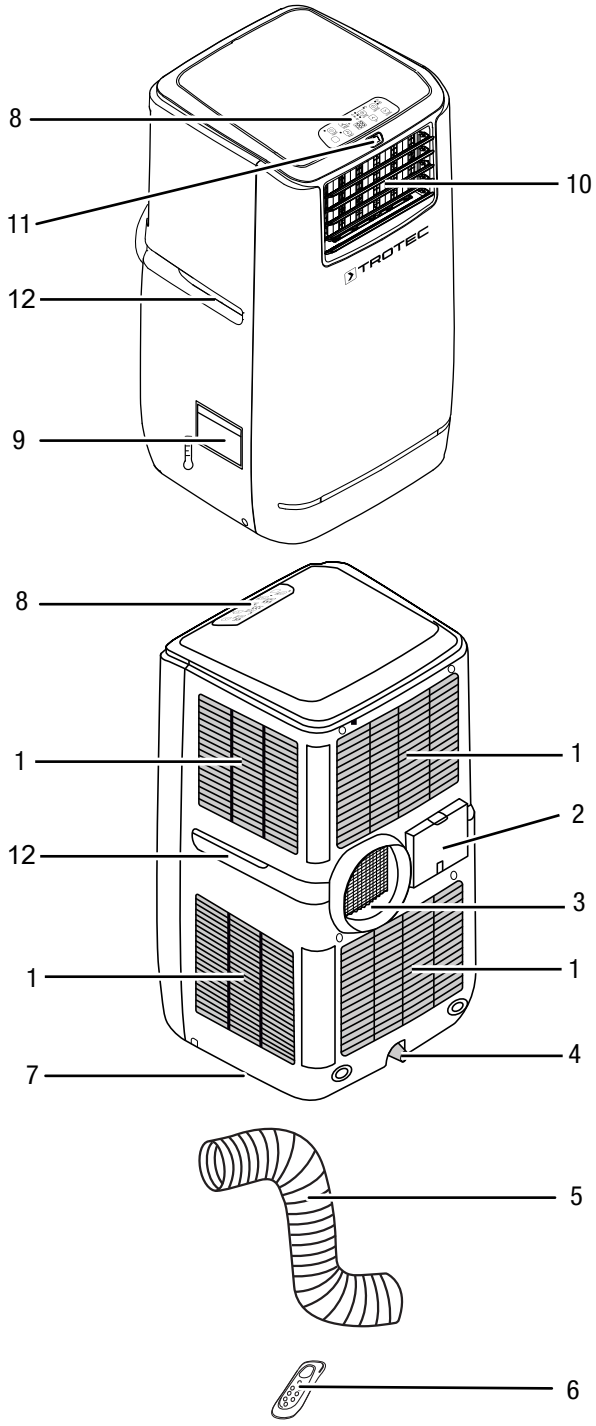
The device operates fully automatically and features a variety of further options. The device can, for instance, be switched on or off automatically with time delay via the timer function.

Operation of the device is possible either via the control panel at the device or via the supplied infrared remote control.

The device was designed for universal and flexible application.

Due to its compact dimensions it can be easily transported and used in all interior spaces.

Device depiction



No.	Designation
1	Air inlet with air filter
2	Cable storage compartment with power cable
3	Exhaust air hose connection
4	Hose connector with sealing cap and rubber stopper
5	Exhaust air hose
6	Remote control
7	Wheels
8	Control panel
9	Water funnel and filling level indication for energy saving
10	Air outlet with ventilation flaps
11	Remote control receiver
12	Transport handle

Transport and storage

Note

If you store or transport the device improperly, the device may be damaged.
Note the information regarding transport and storage of the device.

Transport

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

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

Before transporting the device, observe the following:

- Switch off the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Do not use the power cable to drag the device.
- Drain the remaining condensate from the device.
- Only wheel the device on a level and smooth surface.

After transporting the device, observe the following:

- Set up the device in an upright position after transport.
- Leave the device to rest for 12 to 24 hours, so the refrigerant can accumulate within the compressor. Wait 12 to 24 hours before switching the device back on! Acting contrary might lead to compressor damage and a malfunctioning device. If so, any warranty claims will be voided.

Storage

Before storing the device, proceed as follows:

- Drain the remaining condensate from the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.

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

- Only store the device in a room measuring more than 13 m^2.
- dry and protected from frost and heat
- in an upright position where it is protected from dust and direct sunlight
- with a cover to protect it from invasive dust, if necessary
- Place no further devices or objects on top of the device to prevent it from being damaged.
- Remove batteries from the remote control.

Assembly and installation

Scope of delivery

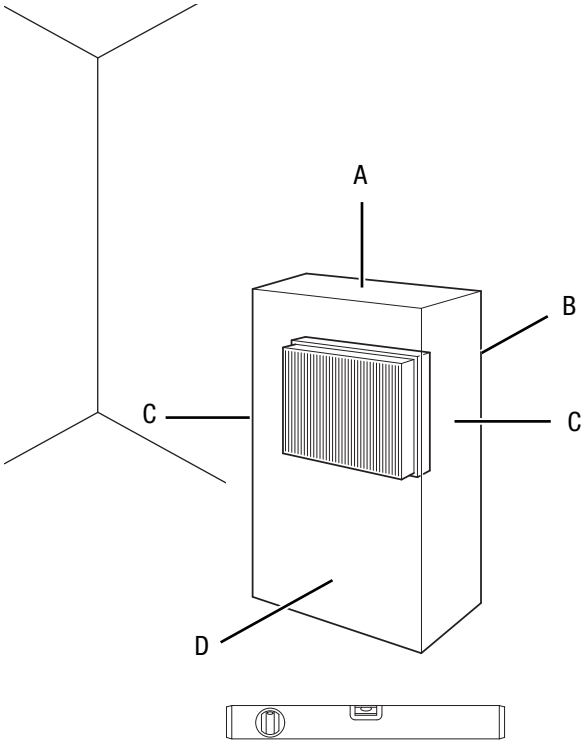
- 1 x Device
- 1 x Exhaust air hose
- 1 x Condensation drain hose, length: 1 m, diameter: 18 mm
- 1 x Air filter
- 3 x Insert for sliding window
- 1 x Cover (for sliding window insert)
- 1 x Hose adapter
- 1 x Remote control
- 1 x Manual

Unpacking the device

1. Open the cardboard box and take the device out.
2. Completely remove the packaging.
3. Fully unwind the power cable. Make sure that the power cable is not damaged and that you do not damage it during unwinding.

Start-up

When positioning the device, observe the minimum distance from walls or other objects as described in the Technical data chapter.

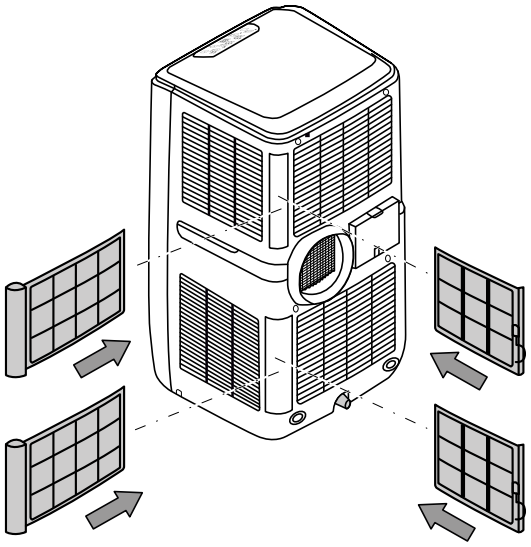


- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Only position the device in rooms where potentially leaking refrigerant cannot accumulate.
- Only position the device in rooms where there is no permanent source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Set the device up in an upright and stable position.
- Do not create tripping hazards when laying the power cable or other electric cables, especially when positioning the device in the middle of the room. Use cable bridges.
- Make sure that extension cables are unrolled completely.
- Keep air inlets and outlets as well as the exhaust air hose connection free.
- Make sure that no curtains or other objects interfere with the air flow.

Inserting the air filter

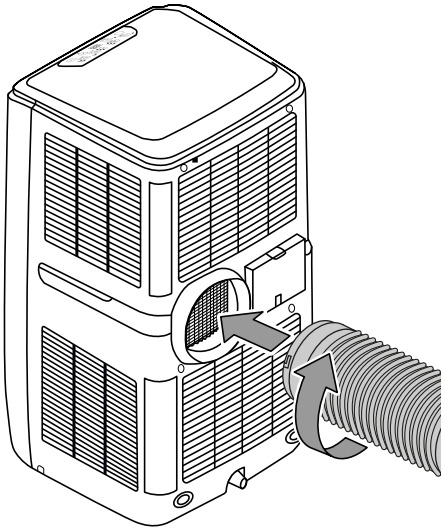
Note

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



Connecting the exhaust air hose

1. Screw the end of the exhaust air hose (5) counter-clockwise into the air conditioner's exhaust air hose connection (3).



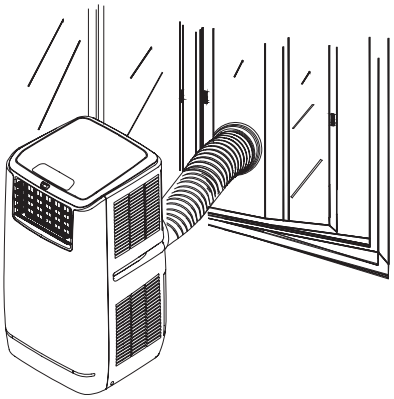
Discharging exhaust air

- The exhaust air coming from the device contains waste heat from the room to be cooled. For this reason it is recommended to discharge the exhaust air to the outside.
- The end of the exhaust air hose can be fed through the open window. If required, secure the open window with the corresponding means, so that the end of the exhaust air hose cannot shift.
- The end of the exhaust air hose can also be hooked into a tilted window.

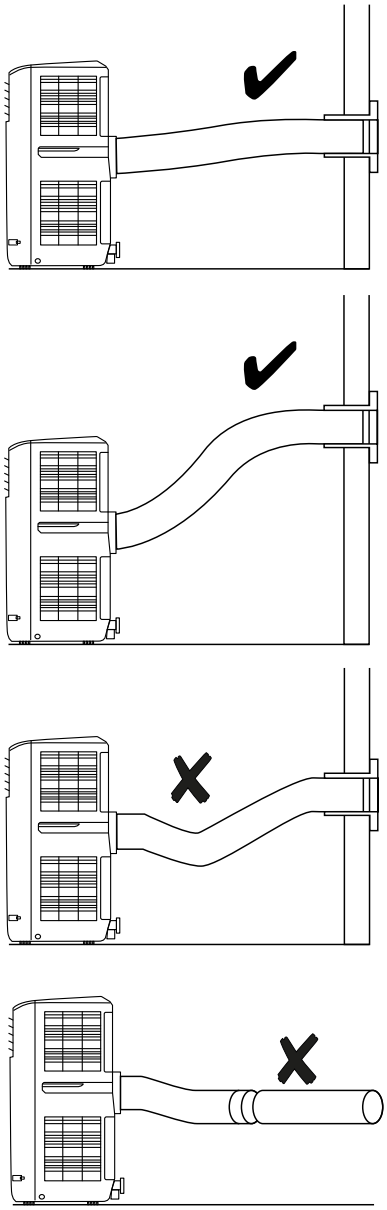
  For this purpose, we recommend using a window seal (optional).
- Install the exhaust air hose inclined with the air direction.
- The connected hose must not contain any source of ignition.

How to use the insert

- Affix the inserts in the window gap and adjust the length as needed. If required, use the extension pieces.
- Connect the hose adapter to the insert.
- Close the window until the insert is held securely.
- Connect the end of the exhaust air hose to the hose adapter in the insert.



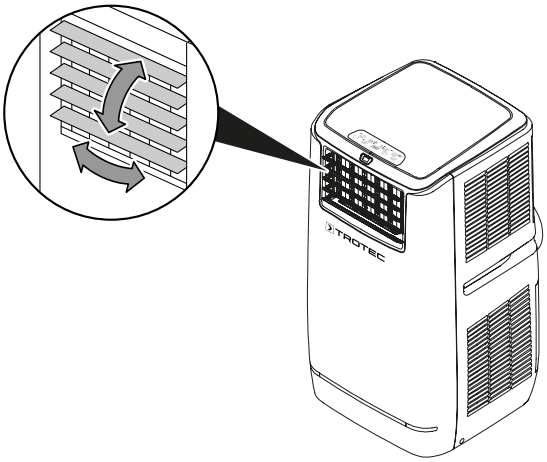
For installing the exhaust air hose please observe the following:



- Avoid kinks and bends in the exhaust air hose, as they would lead to an accumulation of emitted humid air causing the device to overheat and shut down.
- The dimensions of the exhaust air hose were especially made to fit the device. Do not replace or extend the hose, for it could cause a malfunction.

Opening the ventilation flaps

- Prior to switching the device on, open the ventilation flaps at the air outlet (10).



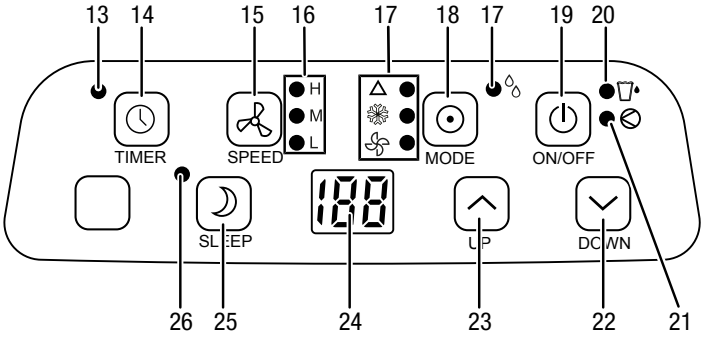
Connecting the power cable

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

Operation

- Avoid open doors and windows.

Operating elements



No.	Designation		Meaning
13	*TIMER* LED		Illuminated when the timer function is active
14	*TIMER* button		*Automatic switch-on* timer function in increments of 1 hour (1 h to 24 h) *Automatic switch-off* timer function in increments of 1 hour (1 h to 24 h)
15	*SPEED* button		Setting the fan speed
16	*Fan speed* LED	H	High fan speed
		M	Medium fan speed
		L	Low fan speed
17	Operating mode LEDs	△	*automatic operation*
		❄	*cooling*
			ventilation
			dehumidification
18	*MODE* button		Selecting the operating mode: *automatic operation* *cooling* *ventilation* *dehumidification*
19	*ON/OFF* button		Switching the device on and off
20	*Condensation tank full* LED		Condensate collection container is full and has to be emptied (see chapter Maintenance)
21	*Compressor* LED		Illuminated when the compressor is running
22	*DOWN* button (decrease value)		Setting the target temperature for cooling between 18 °C and 32 °C
23	*UP* button (increase value)		

No.	Designation	Meaning
24	Segment display	Display of current room temperature when in operation Display of target temperature while setting it Display of timer Indication of the error code, see chapter Errors and faults
25	*SLEEP* button	to de-/activate night mode
26	*Night mode* LED	illuminated when night mode is activated

Switching the device on

1. Allow the device to rest for a time.
2. Once you have completely installed the device as described in the Start-up chapter, you can switch it on.
3. Press the *ON/OFF* button (19).
   ⇨ The device will be switched on in *automatic operation*.
   ⇨ The current room temperature is indicated on the segment display (24).
   ⇨ The device runs in *automatic operation* mode.
4. Select the desired operating mode.

The device switches off automatically when the condensation tank is full. The *condensation tank full* LED (20) will be illuminated and an acoustic signal will be emitted.

Setting the operating mode

The device has the following operating modes:

- automatic operation
- cooling
- ventilation
- dehumidification

Automatic operation

In *automatic operation* mode the cooling and ventilation process will be regulated depending on the ambient temperature and the preset target temperature of 24 °C.

- With an ambient temperature of more than 25 °C (preset target temperature + 1 °C) the device automatically runs in cooling mode until the target temperature of 24 °C is reached. The LEDs for *automatic operation* and *cooling* (17) light up.
- If the ambient temperature is less than or equal to (≤) 25 °C, the device will automatically be operated in ventilation mode. The LEDs for *automatic operation* and *ventilation* (17) light up.

1. Press the *MODE* button (18) until the LED for *automatic operation* (17) lights up.

Cooling

In *cooling* mode the room will be cooled down to a certain preselected temperature.

Cooling commences when the ambient temperature equals the set temperature + 3 °C.

Default settings in *cooling* mode:

- The target temperature is preset to 24 °C.
- If the ambient temperature is greater than or equal to (≥) 27 °C (target temperature + 3 °C), the device runs automatically in cooling mode. The *cooling* LED (17) is illuminated.
- If the ambient temperature is less than or equal to (≤) 25 °C (target temperature + 1 °C), the device will automatically be in ventilation mode. The *ventilation* LED (17) is illuminated.

1. Press the *MODE* button (18) until the LED for *cooling* (17) lights up.
2. Press the buttons for increasing (23) or reducing (22) the temperature to adjust the desired target temperature.
   ⇨ The target temperature flashes for approx. 5 s. Then the current room temperature will be displayed.

Ventilation

Info

Remove the exhaust air hose during *ventilation*.

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

Possible fan speed settings are:

- H = high fan speed
- M = medium fan speed
- L = low fan speed

1. Press the *MODE* button (18) until the LED for *ventilation* (17) lights up.
2. Press the *SPEED* button (15) to set the desired fan speed.
   ⇨ The LED for the selected fan speed (16) will be illuminated.

Dehumidification

Info

Remove the exhaust air hose during *dehumidification*, otherwise the performance will be insufficient.

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

The temperature cannot be adjusted and the fan runs at the lowest speed level.

1. Press the *MODE* button (18) until the LED for *dehumidification* (17) lights up.
   ⇨ *Dehumidification* mode is selected.
   ⇨ The *compressor* LED (21) is illuminated.

Info

If the device is operated in a very humid environment, the accumulating condensate must be discharged at regular intervals (see chapter Condensate discharge).

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 hose connection.

1. Switch the device off.
2. Hold onto the mains plug while pulling the power cable out of the mains socket.
3. 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.
4. Unscrew the sealing cap from the hose connector (4).
5. Remove the rubber stopper from the hose connection.
6. Keep sealing cap and rubber stopper for later use.
7. Connect the condensation drain hose included in the scope of delivery to the hose connector. Check the condensation drain hose for tight fit.
8. Lead the condensation drain hose to a 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.
9. Insert the mains plug into a properly secured mains socket.
10. Switch the device on.

Setting the timer

The timer has two modes of operation:

- automatic switch-on upon expiry of a preset number of hours.
- automatic switch-off upon expiry of a preset number of hours.

The function can be set in all operating modes and also during stand-by.

The number of hours can be between 1 and 24 and can be adjusted in increments of 1 h.

Note

Do not leave the operating device unattended in a freely accessible room with an activated timer.

Automatic switch-on

✓ The device is switched off.

1. Press the *TIMER* button (14) until the desired number of hours is shown on the segment display (24).
   ⇨ The number of hours flashes in the segment display (24).
2. Wait for approx. 5 seconds in order to save the setting.
   ⇨ The *TIMER* LED (13) is illuminated.
   ⇨ The timer setting equals the desired number of hours.
   ⇨ The device starts in automatic operation mode after the set time has passed.

Notes regarding automatic switch-on:

- If the device is disconnected from the power supply, all settings for automatic switch-on are deleted.
- Manually switching the device on disables the automatic switch-on function.
- If you select **0** hours, the timer will be off.

Automatic switch-off

✓ The device is switched on.

1. Press the *TIMER* button (14) until the desired number of hours is shown on the segment display.
   ⇨ The number of hours flashes in the segment display (24).
2. Wait for approx. 5 seconds in order to save the setting.

⇨ The segment display changes back to the normal indication.
⇨ The *TIMER* LED (13) is illuminated.
⇨ The timer setting equals the desired number of hours.
⇨ The device switches off after the set period of time.

Notes regarding automatic switch-off:

- Pressing the *ON/OFF* button (19) deactivates the automatic switch-off function.

Night mode

Night mode can only be activated in *cooling* mode. Night mode comes with the following settings:

- After one hour the preset temperature is increased by 1 °C.

  After 2 hours the preset temperature will again be increased by 1 °C. Then the temperature is kept constant.
- The fan speed is automatically lowered to the min. level and cannot be changed manually.
- After 12 hours of operation in night mode the device switches off automatically.

To activate night mode, please proceed as follows:

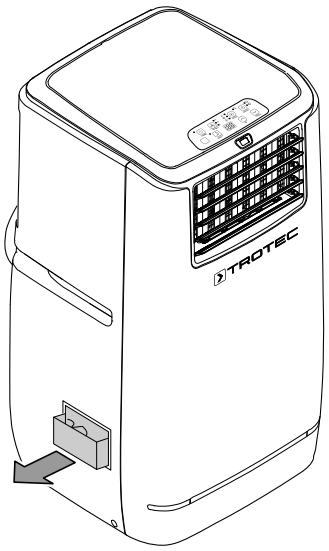
1. Press the *SLEEP* button (25).
   ⇨ The *night mode* LED (26) is illuminated.
   ⇨ The fan speed is automatically adjusted to the lowest level.
2. In order to switch the night mode off, press the *SLEEP* button (25) once again.
   ⇨ The LED for night mode (26) goes out.
   ⇨ Fan speed and temperature will return to the level that was set before night mode was activated.

Energy saving

The device comes with an energy efficiency boosting function. The energy efficiency can be enhanced by filling water into the water funnel (9) of the device.

✓ The device is switched on.
✓ The device has been in operation for at least one hour with the compressor.

1. Open the water funnel (9).

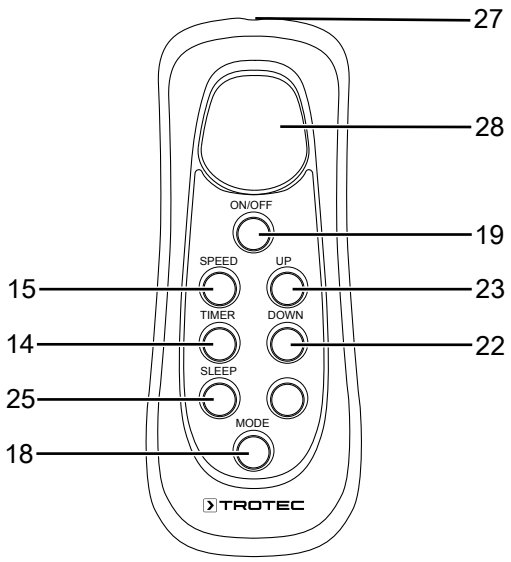


2. You can fill up to max. 2.5 l of water into the tank. In doing so, watch the filling level indication to the left of the water funnel.
3. Close the water funnel.

Note:
The *condensation tank full* LED (20) will light up if you fill too much water into the tank. If so, the condensation tank should be gradually emptied until the LED goes out again (see Emptying the condensation tank in the Maintenance chapter).
It is not possible to implement the energy-saving measure with a simultaneously connected condensation drain hose, for the water will immediately be drained from the tank.

Operation with the remote control

All settings of the device can also be made using the remote control included in the scope of delivery.
Insert suitable batteries in the remote control (see chapter Technical annex).



No.	Designation	Meaning
14	*TIMER* button	*Automatic switch-on* timer function in increments of 1 hour (1 h to 24 h) *Automatic switch-off* timer function in increments of 1 hour (1 h to 24 h)
15	*SPEED* button	Setting the fan speed in 3 stages: high, medium and low
18	*MODE* button	Selecting the operating mode: *automatic operation* *cooling* *ventilation* *dehumidification*
19	*ON/OFF* button	Switching the device on and off
22	*DOWN* button (decrease value)	Setting the target temperature for cooling between 18 °C and 32 °C
23	*UP* button (increase value)	
25	*SLEEP* button	to de-/activate night mode
27	Transmitter of the remote control	for infrared transmission to the remote control receiver (11) at the device
28	Display	Indication of different device functions

Shutdown

Warning of electrical voltage
Do not touch the mains plug with wet or damp hands.

- Switch off the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Empty the condensation tray if necessary.
- If necessary, remove the condensation drain hose and any residual fluid from it.
- Clean the device according to the Maintenance chapter.
- Store the device according to the Storage chapter.

Errors and faults

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

The device does not start:

- Check the power connection.
- Check the power cable and mains plug for damages.
- Check the on-site fusing.
- Observe the operating temperature according to the Technical data chapter.
- Check the filling level of the condensation tank, and empty it if necessary. The *condensation tank full* LED (20) must not light up.
- Wait for 10 minutes before restarting the device.
  If the device is not starting, have the electrics checked by a specialist company or by Trotec.

The device works with reduced or no cooling capacity:

- Check whether *cooling* mode is selected.
- Check the proper fit of the exhaust air hose. In case of kinks, bends or blockage in the hose, exhaust air cannot be discharged. Clear the way for the exhaust air.
- Check the position of the ventilation flaps. They should be opened to the maximum.
- 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 whether any windows and/or doors of the room are open. If so, close them. One window has to remain open for the exhaust air hose nonetheless.
- 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.
- Check whether the ambient temperature corresponds to the target temperature + 3 °C (in *cooling* mode) or to 25 °C (preset target temperature + 1 °C in *automatic operation* mode). The compressor will not switch on unless the target temperature is reached.
- 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 loses power:

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

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.
- Check the charging status of the batteries and change them if required.
- If the batteries have only just been changed, check them for correct polarity and change them if required.

> **Note**
> Wait for at least 3 minutes after maintenance and repair work. Only then switch the device back on.

Your device still does not operate correctly after these checks?

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

Error codes

The following error messages can be displayed on the segment display (24):

Error code	Cause	Remedy
E1	Defective temperature sensor	Disconnect the device briefly from the mains. Should the error still be displayed after the restart, please contact the customer service.
E2	Defective coil sensor	Disconnect the device briefly from the mains. Should the error still be displayed after the restart, please contact the customer service.

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 the air inlets and outlets for dirt and foreign objects and clean if necessary	X			X		
Clean the exterior		X				X
Visually check the inside of the device for dirt		X				X
Check the air filter for dirt and foreign objects and clean or replace if necessary	X		X			
Replace 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																
Clean the exterior																
Visually check the inside of the device for dirt																
Check the air filter for dirt and foreign objects and clean or replace if necessary																
Replace the air filter																
Check for damage																
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.
- Hold onto the mains plug while pulling the power cable out of the mains socket.

Warning of electrical voltage

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

Refrigerant circuit

Danger

Natural refrigerant propane (R290)!
H220 – Extremely flammable gas.
H280 – Contains gas under pressure; may explode if heated.

P210 – Keep away from heat, sparks, open flames and other ignition sources. No smoking.
P377 – Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P410+P403 – Protect from sunlight. Store in a well-ventilated place.

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

Safety signs and labels on the device

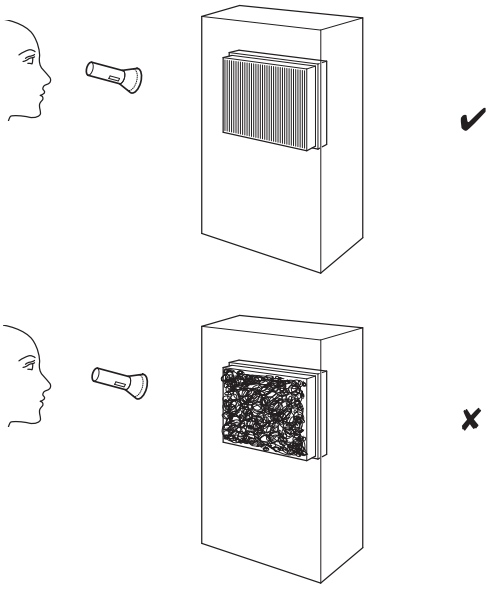
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

Cleaning the housing

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

Visual inspection of the inside of the device for dirt

1. Remove the air filter.
2. Use a torch to illuminate the openings of the device.
3. Check the inside of the device for dirt.
4. If you see a thick layer of dust, have the inside of the device cleaned by a specialist company for cooling and air-conditioning or by Trotec.
5. Put the air filter back in.

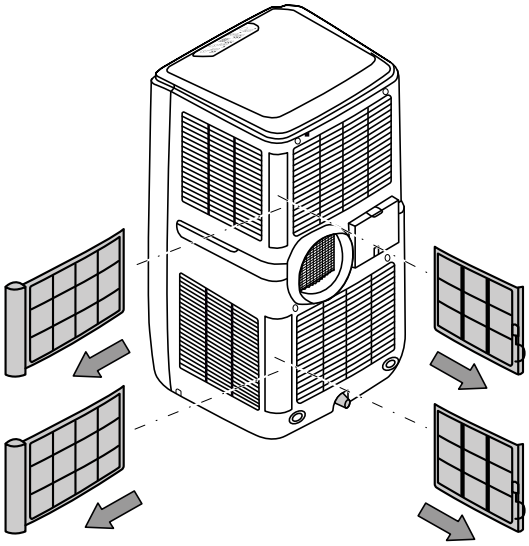


Cleaning the air filter

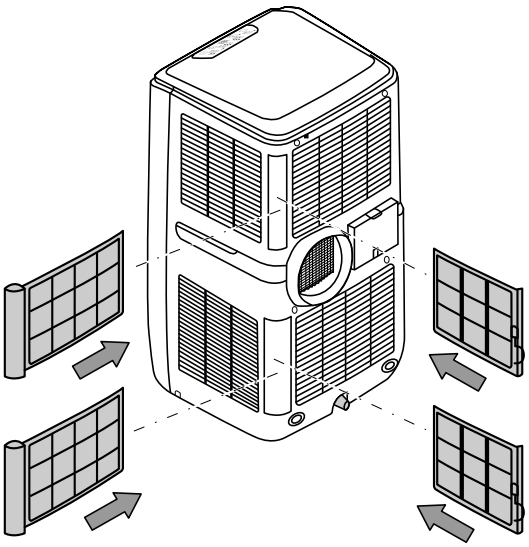
The air filters have to be cleaned as soon as they are dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).

Warning
Ensure that the air filters are neither worn nor damaged. The corners and edges of the air filters must not be deformed or rounded. Before reinserting the air filters, make sure that they are undamaged and dry!

1. Remove the air filters from the device.



2. Clean the filters using a slightly damp, soft, lint-free cloth. If the filters are heavily contaminated, clean them with warm water mixed with a neutral cleaning agent.
3. Allow the filters to dry completely. Do not put any wet filters into the device!
4. Reinsert the air filters into the device.



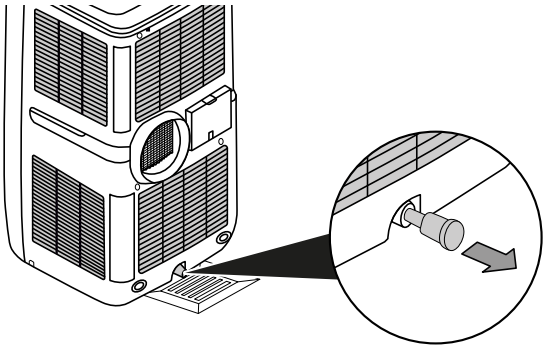
Condensate discharge (manual draining)

In *cooling* and *dehumidification* mode condensate is formed, which is mostly discharged via the exhaust air.

The remaining condensate is collected in a container within the housing. The condensate ought to be drained regularly.

If too much condensate accumulates, the device switches off and indicates this via the *condensation tank full* LED (20). An acoustic signal is emitted in addition.

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 rubber stopper from the condensate outlet.



3. Drain the condensate.
4. Reattach the rubber stopper to the condensate outlet. Ensure the tight fit of the rubber stopper, for otherwise there might be uncontrolled water leakage.
   ⇨ The *condensation tank full* LED (20) will go out as soon as the condensate has been drained.

Activities required after maintenance

If you want to continue using the device:

- Leave the device to rest for 12 to 24 hours, so the refrigerant can accumulate within the compressor. Wait 12 to 24 hours before switching the device back on! Acting contrary might lead to compressor damage and a malfunctioning device. If so, any warranty claims will be voided.
- Reconnect the device to the mains.

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

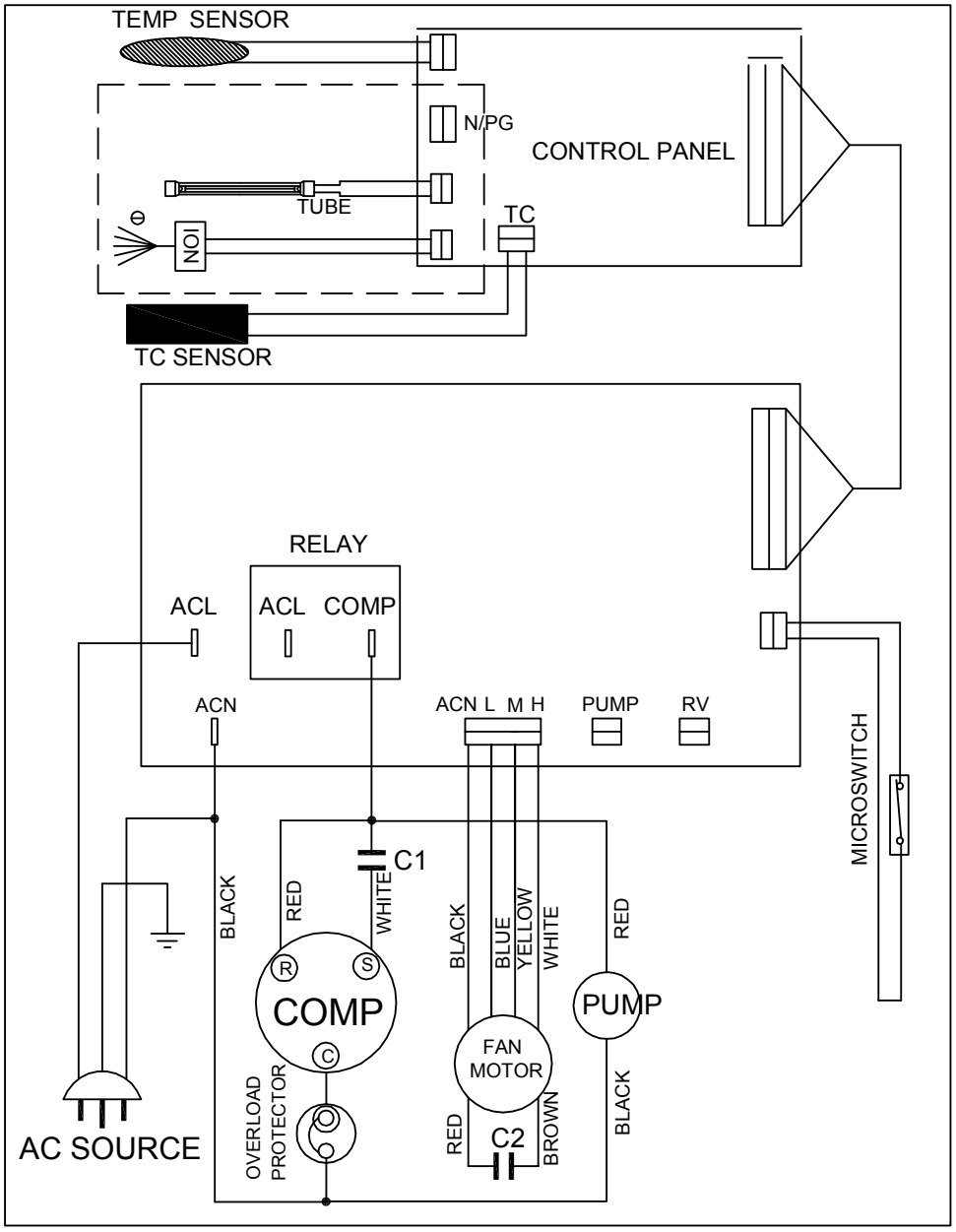
- Store the device according to the Storage chapter.

Technical annex

Technical data

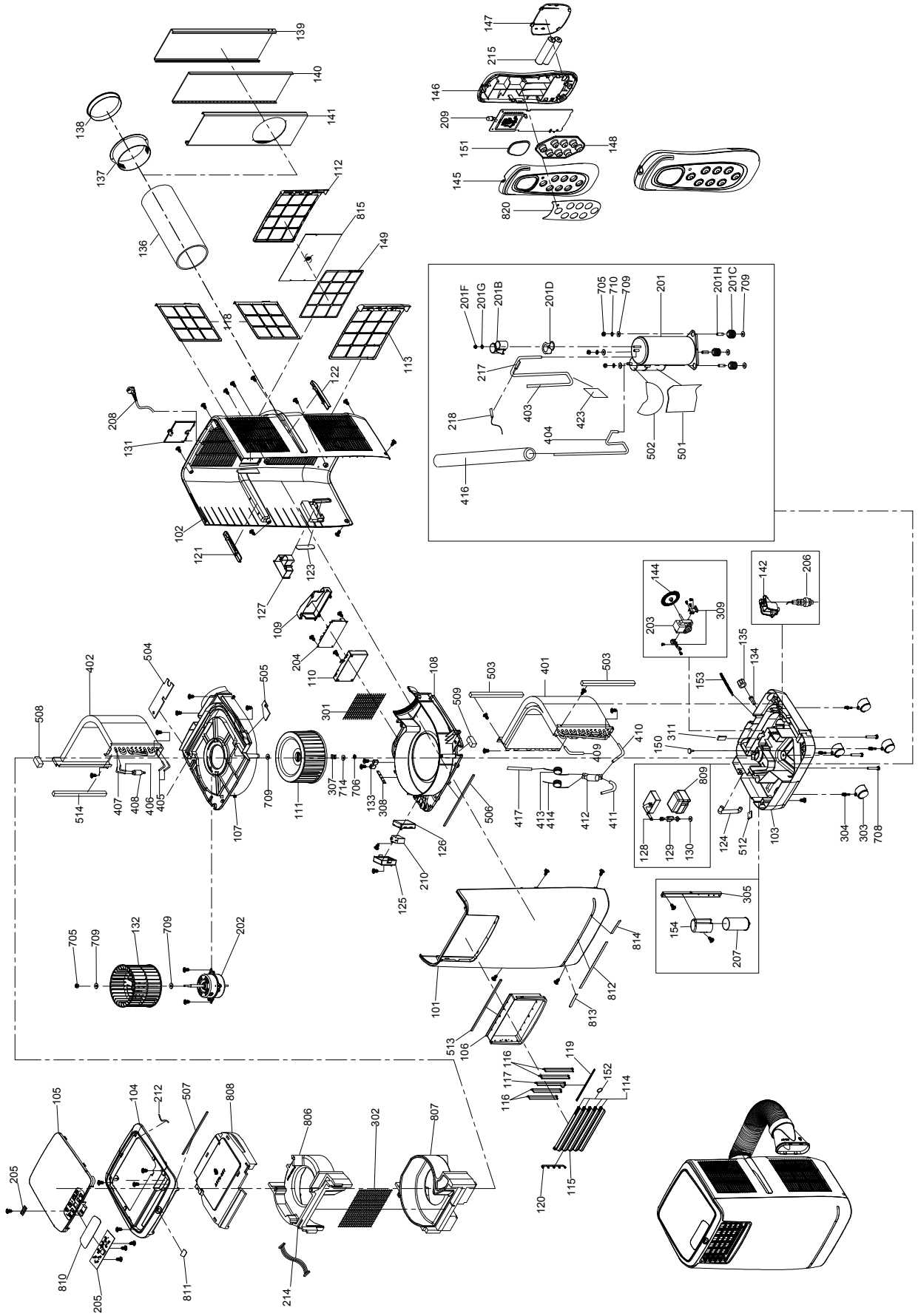
Model	**PAC 3200 E A+**
Cooling capacity	3.2 kW
Dehumidification performance	1.16 l/h
Operating temperature	18 °C to 32 °C
Temperature setting range	18 °C to 32 °C
Max. air volume flow	490 m^3/h
Pressure suction side	0.85 MPa
Pressure outlet side	2.2 MPa
Mains supply	220 V – 240 V / 50 Hz
Nominal current	4.6 A
Max. power input	1.03 kW
Sound pressure level at a distance of 1 m	57 dB(A)
Refrigerant	R290
Amount of refrigerant	280 g
GWP factor	3
CO_2 equivalent	0.00084 t
Dimensions (length x width x height)	418 x 415 x 790 mm
Minimum distance to walls and other objects: top (A): rear (B): sides (C): front (D):	 50 cm 50 cm 50 cm 50 cm
Weight	28 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 other parts mentioned in this operating manual.



Plastic parts

No.	Part Name	Quantity	No.	Part Name	Quantity
101	FRONT PANEL	1	131	COVER FOR CORD COMPARTMENT	1
102	REAR PANEL	1	132	UP FAN BLADE	1
103	BASE PANEL	1	133	SUPPORTER TO FIX WIRES	1
104	SIDE PANEL	1	134	RUBBER STOPPER	1
105	TOP PANEL	1	135	DRAIN KNOB	1
106	AIR VENT PANEL	1	136	EXHAUST PIPE	1
107	TOP FUNNEL	1	137	ADAPTOR	1
108	DOWN FUNNEL	1	138	COVER FOR ADAPTOR	1
109	TOP COVER FOR MAIN P.C. BOARD	1	139	SLIDE WINDOW KIT A	1
110	BOTTOM COVER FOR MAIN P.C. BOARD	1	140	SLIDE WINDOW KIT B	1
111	DOWN FAN BLADE	1	141	SLIDE WINDOW KIT C	1
112	FILTER FRAME FOR EVAPORATOR	1	142	FLOATER	1
113	FILTER FRAME FOR CONDENSER	1	144	PUMPING BLADE	1
114	HORIZONTAL LOUVER A	4	145	REMOTE CONTROL	1
115	HORIZONTAL LOUVER B	1	149	FILTER FRAME	1
116	VERTICAL LOUVER A	4	150	RUBBER STOPPER	1
117	VERTICAL LOUVER B	1	153	DRAIN TUBE	1
118	SIDE FILTER FRAME	2	154	PROTECTION BOX FOR COMPRESSOR CAPACITOR	1
119	CONNECTING ROD FOR VERTICAL LOUVER	1	806	POLYFOAM WINDUCT (TOP)	1
120	CONNECTING ROD FOR HORIZONTAL LOUVER	1	807	POLYFOAM WINDUCT (BOTTOM)	1
121	LEFT HANDLE	1	808	COVER FOR POLYFOAM WINDUCT	1
122	RIGHT HANDLE	1	809	POLYFOAM FOR WATER BASE	1
123	TRANSPARENT COVER	1	810	NAMEPLATE	1
124	WATER LEVEL INDICATOR	1	811	NAMEPLATE FOR RECEIVER	1
125	PROTECTION BOX (TOP) FOR CAPACITOR	1	812	FRONT SLOT STICKER (A)	1
126	PROTECTION BOX (BOTTOM) FOR CAPACITOR	1	813	FRONT SLOT STICKER (B)	1
127	WATER CASE	1	814	FRONT SLOT STICKER (C)	1
128	FLOAT FOR WATER CASE	1	815	ACTIVE CARBON FILTER	1
129	PROP FOR WATER CASE	1	820	NAMEPLATE FOR REMOTE CONTROL	1
130	SEALED RING FOR WATER CASE	1			

Electrical parts

No.	Part Name	Quantity	No.	Part Name	Quantity
201	COMPRESSOR		206	FLOAT LEVEL SWITCH	1
201B	PROTECTIVE COVER FOR COMPRESSOR		207	COMPRESSOR CAPACITOR	1
201C	RUBBER GROMMET		208	POWER CORD	1
201D	PAD		209	REMOTE CONTROL PCB	1
201F	NUT		210	MOTOR CAPACITOR	1
201G	PAD FOR NUT		212	SENSOR WIRE WITH RESIN HEAD	1
201H	ANTI-VIBRATION SOCKET		214	CONNECTION WIRES FOR COOLING	1
202	MOTOR	1	216	THERMAL TUBE	1
203	PUMP MOTOR	1	217	SENSOR TUBE (WITH COPPER HEAD)	1
204	MAIN P.C. BOARD	1	218	R290 SENSOR WIRE (WITH COPPER HEAD)	1
205	CONTROL P.C.BOARD	1			

Metal parts

No.	Part Name	Quantity	No.	Part Name	Quantity
301	SAFETY NET BETWEEN TOP VOLUTE AND LOWER VOLUTE	1	406	DISCHARGING TUBE FOR EVAPORATOR A	1
302	NET FOR AIR VENT	1	407	DISCHARGING TUBE FOR EVAPORATOR A	1
303	CASTER	4	408	3 WAY VALVE	1
305	MAIN SUPPORTER	1	409	SUCTION TUBE FOR CONDENSER	1
306	CAPACITOR CLIP	1	410	DISCHARGING TUBE FOR CONDENSOR	1
307	FAN BLADE FIXER	1	411	REFRIGERANT CHARGING TUBE	1
309	SUPPORTER FOR THE PUMP MOTOR	2	412	DRYER A	1
401	CONDENSOR	1	413	CAPILLARY	1
402	EVAPORATER	1	414	CAPILLARY	1
403	DISCHARGING TUBE	1	416	SLEEVE FOR CAPILLARY	1
404	SUCTION TUBE	1	417	THERMAL SLEEVE	1
405	SUCTION TUBE FOR EVAPORATOR	2			

Foam parts

No.	Part Name	Quantity	No.	Part Name	Quantity
501	FOAM FOR ACCUMULATOR (DOWN)	1	507	FOAM FOR REAR PANEL (ANTI-WIND)	1
502	FOAM FOR ACCUMULATOR (UP)	1	508	SEAL FOAM FOR WIND FUNNEL	1
504	SEAL FOAM FOR TOP FUNNEL (A)	1	509	SEAL FOAM FOR TUBE	1
505	SEAL FOAM FOR TOP FUNNEL (B)	1	512	SEAL FOAM FOR CONDENSER	2
506	SEAL FOAM FOR AIR VENT PANEL	1	513	SEAL FOAM FOR AIR VENT	1

Disposal

The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. For further return options provided by us please refer to our website www.trotec24.com.

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

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

In the European Union, batteries and accumulators must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.

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