PAC-C 1500 S / PAC-C 1500 SH

EN

INSTRUCTIONS
LOCAL AIR CONDITIONER

TRT-BA-PAC-C1500S-PAC-C1500SH-TC25TTRT20031-005-EN

TROTEC

Table of contents

Information on the use of these instructions

Symbols

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

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

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

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

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

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

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

PAC-C 1500 S

https://hub.trotec.com/?id=47571

PAC-C 1500 SH

https://hub.trotec.com/?id=47701

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!
- Only install the device in compliance with the national installation regulations.
- 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.
- 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 instructions for servicing the refrigerant circuit:

- 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.
- Do not store the device together with ignition sources in rooms without ventilation.
- Do not use any means other than those recommended by the manufacturer for accelerating the defrosting process or cleaning the device.
- Do not drill into or burn.
- Please note that the refrigerant is odourless.
- Observe the national regulations for gas installations.
- Observe the maximum refrigerant capacity in the technical data.
- R290 is a refrigerant that complies with European environmental regulations. No part of the cooling circuit may be perforated.

Intended use

Only use the device for cooling, ventilating and dehumidifying caravans/camper vans 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.

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:

WARNING • WARNUNG • ATTENTION

DE Das Gerät muss in einem Raum mit einer Grundfläche größer als 4 m^2 aufgestellt, betrieben und gelagert werden.

EN Appliance shall be installed, operated and stored in a room with floor area larger than 4 m^2.

FR L'appareil doit être installé, utilisé et entreposé dans une pièce avec une surface supérieure à 4 m^2.

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.

!!! ACHTUNG !!!

1. Vor Inbetriebnahme MIND. 12 STUNDEN aufrecht und still stehen lassen! Das schützt den Kompressor, verlängert die Lebensdauer erheblich und verhindert so einen Verlust der Kühlleistung.
2. Das Klimagerät muss immer BESONDERS VORSICHTIG auf den Boden gestellt werden! Ansonsten können Mikrorisse in der Bodenplatte und der Kondensatwanne entstehen, was dazu führt, dass Kondenswasser auf den Boden tropft.

Für Schäden, die durch unsachgemäßen Gebrauch entstehen, übernehmen wir KEINE GEWÄHRLEISTUNG!

!!! WARNING !!!

1. Before operation, stand upright and rest for MIN 12 HOURS! This protects the compressor, greatly extending its life and preventing loss of cooling performance.
2. The air conditioner must always be placed on the floor with CAUTION! Otherwise, microcracks may form in the bottom plate and the condensate pan, causing condensation to drip onto the floor.

For damages caused by improper use, WARRANTY WILL BE NULL AND VOID!

!!! ATTENTION !!!

1. Avant la mise en service,laisser immobile en position verticale PENDANT AU MOINS 12 HEURES ! Cela protège le compresseur, prolonge sensiblement la durée de vie et évite ainsi une diminution des performances de refroidissement.
2. Le climatiseur doit toujours être posé sur le sol AVEC LES PLUS GRANDES PRÉCAUTIONS ! Sinon, des micro-fissures risquent de se former dans le socle ou le bac de récupération de l'eau de condensation, ce qui entraînerait que cette dernière coule sur le sol.

Toute utilisation incorrecte ou non conforme entraîne L'EXTINCTION DE LA GARANTIE !

Residual risks

Danger

Natural refrigerant propane (R290)!

H220 – Extremely flammable gas.
H280 – Contains gas under pressure; may explode if heated.
P210 – Keep away from heat, sparks, open flames and other ignition sources. No smoking.
P377 – Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P410+P403 – Protect from sunlight. Store in a well-ventilated place.

Warning of electrical voltage

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

Warning of electrical voltage

Risk of electric shock!
Risk of an electric shock if the internal unit comes into contact with water!
Do not use this device in the immediate vicinity of bathtubs, showers or swimming pools!

Warning of electrical voltage

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

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 in caravans. It further filters and dehumidifies the air thus creating an agreeable room climate.

The local room air conditioner consists of two device units, the internal unit and the external unit. They are interconnected by means of the mounting accessories, and the entire unit is hung into the window of the caravan. In *Cooling* mode the produced compressor performance adapts itself precisely to the demand and so regulates the target temperature with minimal temperature fluctuations.

The 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 *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 (PAC-C 1500 SH only) 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.

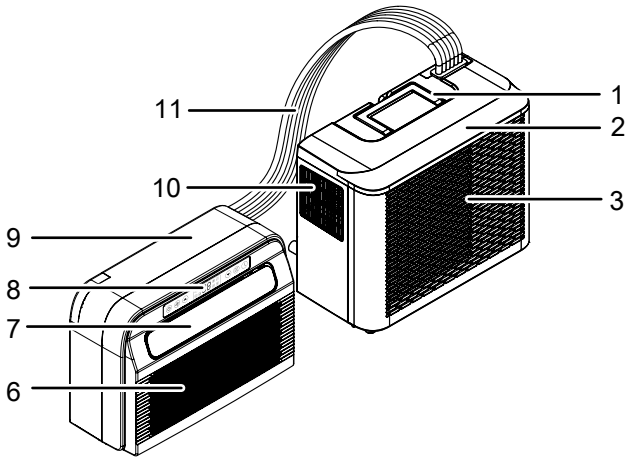
Furthermore the device comes with a night mode and a swing function.

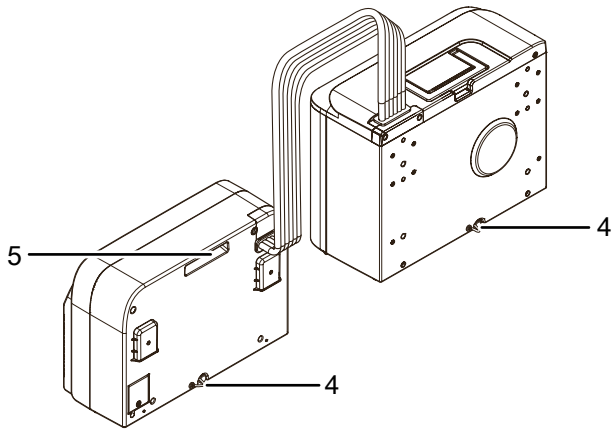
The device is operated via the control panel on the internal unit.

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	Carrying handle
2	External unit
3	Air outlet on the external unit
4	Condensate outlet with stopper
5	Carrying strap
6	Air inlet of the internal unit (with air filter)
7	Air outlet of the internal unit
8	Control panel
9	Internal unit
10	Air inlet of the external unit
11	Connection line

Transport and storage

Notice

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

Transport

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

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

Before transporting the device, observe the following:

- Switch off the device by pressing the *Power* button (30).
- 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.

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.
- Take the internal and external unit out of the window and disassemble both units. In doing this, do **not** disconnect the connection line.

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

- 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.

Assembly and start-up

Scope of delivery

- 1 x External unit
- 1 x Internal unit
- 2 x Fixture (inside)
- 2 x Fixture (outside)
- 2 x Star knob screw
- 12 x Screw
- 2 x Spacer
- 1 x Condensation drain hose
- 1 x Protective cover
- 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

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

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

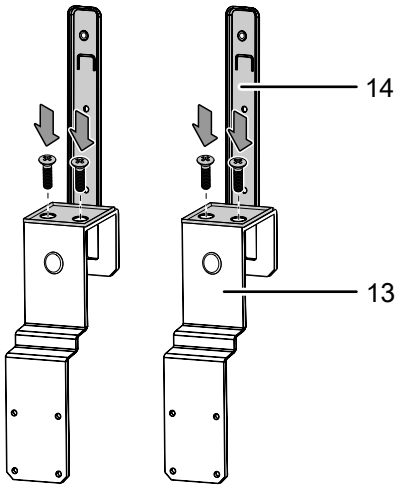
Notice

Depending on the weather, there might be condensate leaking out from the condensate drain at the rear 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.

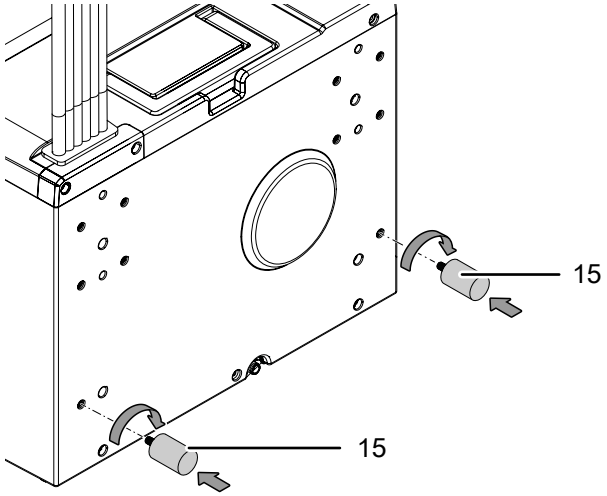
The external and internal unit are already connected to each other via the connection line. The fixtures for fastening and suspension in the window have to be fitted to the external and internal unit.

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

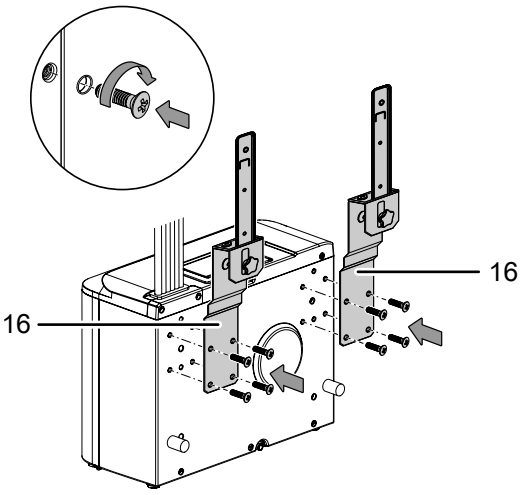
1. Screw the two outer fixtures (13) tightly to the two inner fixtures (14) using four screws.



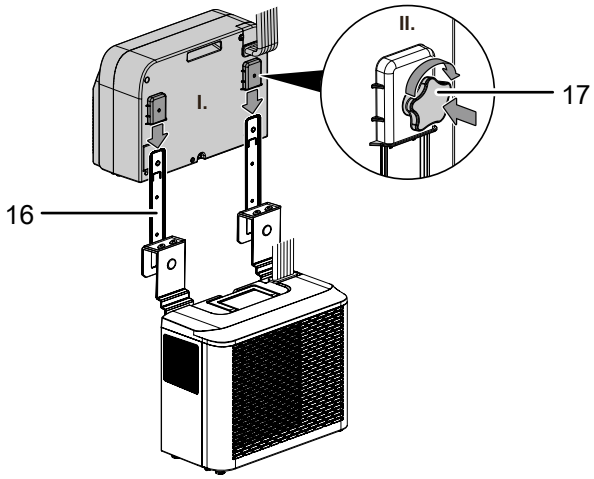
2. Fasten the two spacers (15) on the rear of the external unit.



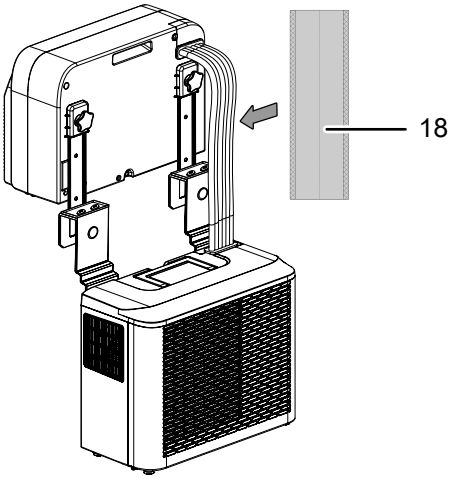
3. Screw the connected fixtures (16) to the rear of the external unit using 8 screws.



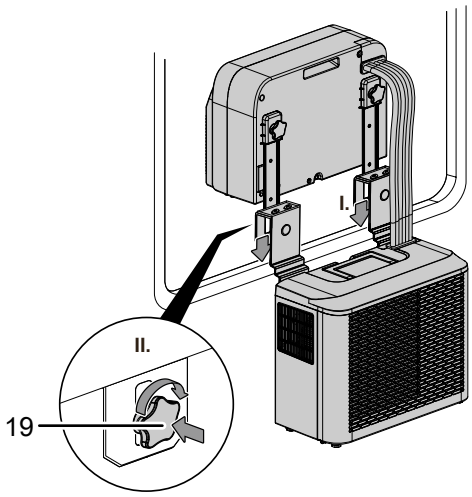
4. Place the internal unit onto the fixtures of the external unit (16) from above.
5. Insert the star knob screws (17) into the fixtures on the internal unit and tighten them.



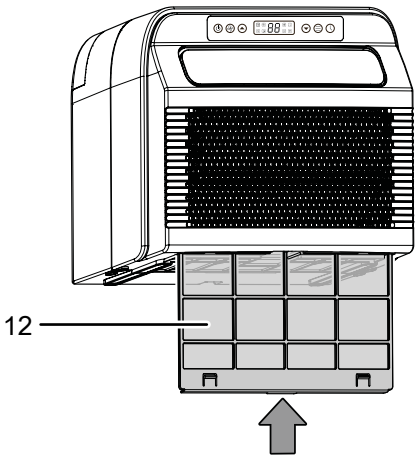
6. Wrap the protective cover (18) around the connection line for purposes of insulation and protection.
   ⇨ The connection line must not be subjected to tension or other mechanical stress.



7. Hang the external unit and internal unit into an open window, so that the external unit is outdoors and the internal unit is in the caravan.
8. Tighten the star knob screws (19) on the lower part of the fixture to fasten the device in its mounting position.
   ⇨ The internal and external unit should be fitted tightly to the window.



9. Ensure that the air filter has been inserted into the internal unit. Insert the air filter (12) into the internal unit later, if necessary.

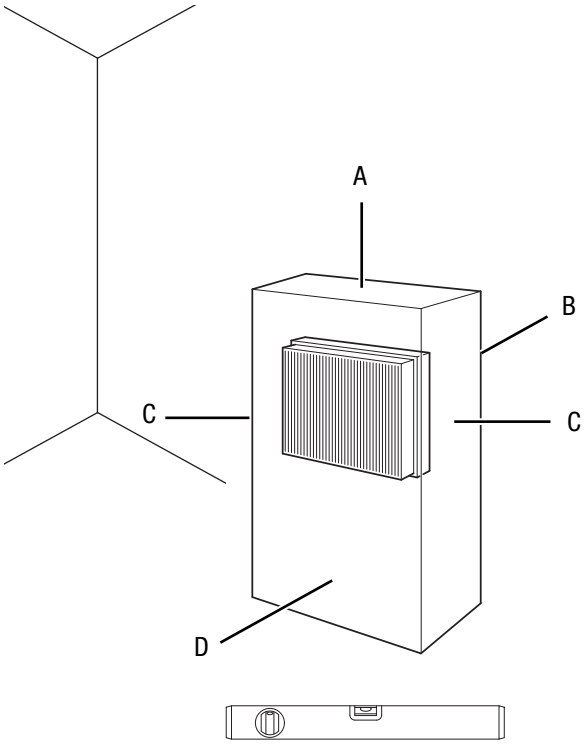


Notice

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.

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.

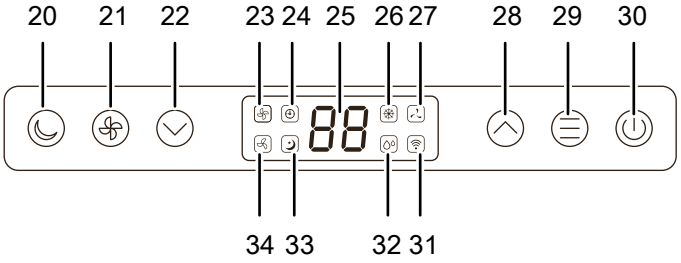
Connecting the power cable

- Connect the mains plug to a properly secured socket.

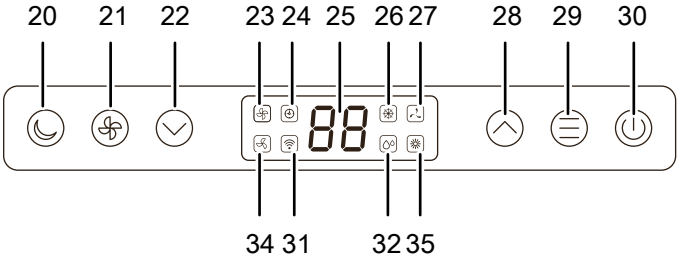
Operation

Control panel

PAC-C 1500 S



PAC-C 1500 SH



No.	Designation	Meaning
20	*Night mode* button	For switching night mode on or off
21	*Fan speed* button	Setting the fan speed
22	*Decrease value* button	For reducing the target temperature (16 °C to 30 °C) for cooling For reducing the number of hours when programming the timer
23	*Fan stage 1* LED	Illuminated when fan stage 1 is switched on
24	*Timer* LED	Illuminated when the *Timer* is activated
25	Segment display	Indication of the current room temperature in dehumidification and ventilation mode Indication of the target temperature in Cooling mode Indication of the set number of hours during timer programming Indication of the error code, see chapter Errors and faults
26	*Cooling* LED	Illuminated when Cooling mode is switched on
27	*Ventilation* LED	Illuminated when Ventilation mode is switched on

No.	Designation	Meaning
28	*Increase value* button	For increasing the target temperature (16 °C to 30 °C) for cooling For increasing the number of hours when programming the timer
29	*Operating mode* button	Setting the operating mode
30	*Power* button	Switching the device on or off
31	*WiFi* LED	Illuminated when WiFi is activated
32	*Dehumidification* LED	Illuminated when Dehumidification mode is switched on
33	*Night mode* LED	Illuminated when night mode is activated
34	*Fan stage 2* LED	Illuminated when fan stage 2 is switched on
35	*Heating* LED	Illuminated when Heating mode is switched on

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

Switching the device on

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 (30) to switch the device on.
   ⇨ The device switches on.
3. Select the desired operating mode.

Setting the operating mode

The device has the following operating modes:

- Cooling
- Ventilation
- Dehumidification
- Heating mode (PAC-C 1500 SH)

Info
The temperature is set to 22 °C by default.

Info
Press the *Decrease value* button (22) and *Increase value* button (28) simultaneously to switch between the temperature units °C and °F.

Cooling

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

1. Press the *Operating mode* button (29) repeatedly until the *Cooling* LED (26) is illuminated.
2. Press the *Decrease value* button (22) or *Increase value* button (28) to set the desired target temperature.
3. Use the *Fan speed* button (21) to select fan stage 1 or 2.
   ⇨ The *Fan stage 1* LED(23) or *Fan stage 2* LED (34) is illuminated.
   ⇨ The target temperature is indicated on the segment display (25).

Ventilation

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

1. Press the *Operating mode* button (29) repeatedly until the *Ventilation* LED (27) is illuminated.
2. Press the *Fan speed* button (21) to switch between fan stage 1 and 2.
   ⇨ The *Fan stage 1* LED(23) or *Fan stage 2* LED (34) is illuminated.

Dehumidification

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

1. Press the *Operating mode* button (29) until the *Dehumidification* LED (32) on the device is illuminated.
   ⇨ The internal unit draws humidity from the room air, which is then transported to the external unit by the condensate pump.

Notice
If required, connect the condensation drain hose to the condensate outlet (4) (see Maintenance chapter - Draining the condensate).

Heating mode (PAC-C 1500 SH)

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

1. Press the *Operating mode* button (29) repeatedly until the *Heating* LED (35) is illuminated.
2. Press the *Decrease value* button (22) or *Increase value* button (28) to set the desired target temperature.
3. Press the *Fan speed* button (21) to switch between fan stage 1 and 2.
   ⇨ The *Fan stage 1* LED(23) or *Fan stage 2* LED (34) is illuminated.
   ⇨ The target temperature is indicated on the segment display (25).

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 *Operating mode* button (29) for 3 seconds until the *Timer* LED (24) is illuminated.
   ⇨ The segment display shows the number 1 (for 1 hour).
2. Set the desired number of hours by use of the *Increase value* (28) and *Decrease value* (22) buttons.

⇨ The segment display (14) indicates the period of time in increments of 1 hour until automatic switch-on/ switch-off.
⇨ The timer setting equals the desired number of hours.
⇨ The *Timer* LED (24) 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

The night mode can be activated when in *Cooling* mode.

In night mode, the fan runs at minimum speed, the fan stage cannot be changed.

1. Press the *Night mode* button (20).
   ⇨ **PAC-C 1500 S**: The *Night mode* LED (33) is illuminated.
   ⇨ **PAC-C 1500 SH**: *SL* is displayed on the segment display (25).
   ⇨ After 20 seconds the segment display (25) switches off. The fan of the internal unit runs at minimum speed.

Swing function

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

By means of the swing function, the flap at the air outlet is moved automatically, ensuring continuous air circulation.

1. Press the *Night mode* button (20) and the *Fan speed* button (21) simultaneously to switch on the swing function.
   ⇨ The ventilation flap moves up and down continuously.
2. Press the *Night mode* button (20) and the *Fan speed* button (21) again to stop the ventilation flaps in a certain position and to switch off the swing function.

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 *fan speed* button (21) on the control panel of the device for approx. 3 seconds.
   ⇨ The *WiFi* LED (31) lights up.
5. Press the *fan speed* button (21) again on the control panel of the device for approx. 3 seconds.
   ⇨ The *WiFi* LED (31) flashes approx. twice per second.
   ⇨ The device is in *Quick Connect* mode.
6. Follow the instructions of the app on the smartphone.
   ⇨ Once the *WiFi* LED (31) 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 *fan speed* button (21).

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. Press the on/off button (30) to switch the device off.
2. Hold onto the mains plug while pulling the power cable out of the mains socket.
3. Drain the condensate reservoirs of the internal and external unit by means of the condensation drain hose at the condensate outlet (4).
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.

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 ventilation flap. The ventilation flap must be opened to the maximum.
- Check the air filter(s) for dirt. If necessary, clean or replace the air filter(s).
- 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 still does not operate correctly after these checks:

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

Error codes

In case of a fault, an error code is indicated on the segment display (25). Contact the customer service in case of the following faults.

Error code	Fault description	Possible cause / troubleshooting
FL	Condensate reservoir in the external unit is full	Remove the stopper on the rear of the device and drain the condensate.
E1 and E2	Room temperature sensor errors	Have the room temperature sensor replaced by the customer service.
EF	Motor fault in the internal unit	Have the motor replaced by the customer service.
EA (PAC-C 1500 SH only)	Malfunction of the 4-way reversing valve	Please contact the customer service.
Eb (PAC-C 1500 S only)	Lack of refrigerant	Please contact the customer service.
Ec (PAC-C 1500 SH only)	Overheating	Switch the device off and wait for 15 to 30 minutes.
E4	Defrost function active	Check the air outlet. Remove potential blockages.

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

Danger
Natural refrigerant propane (R290)!
H220 – Extremely flammable gas.
H280 – Contains gas under pressure; may explode if heated.
P210 – Keep away from heat, sparks, open flames and other ignition sources. No smoking.
P377 – Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P410+P403 – Protect from sunlight. Store in a well-ventilated place.

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

Safety signs and labels on the device

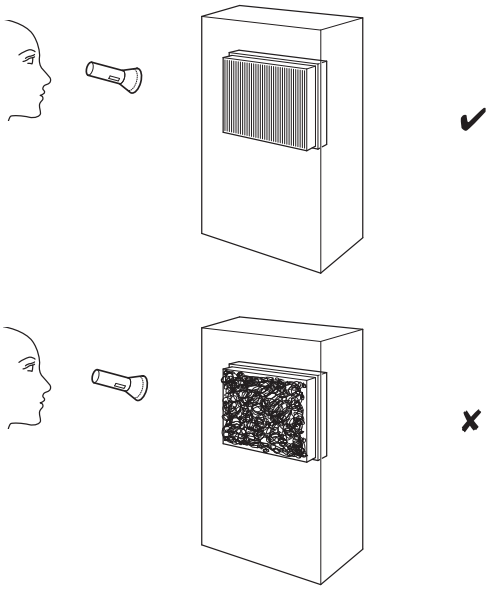
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

Cleaning the housing

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

Visual inspection of the inside of the device for dirt

1. Remove the 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.

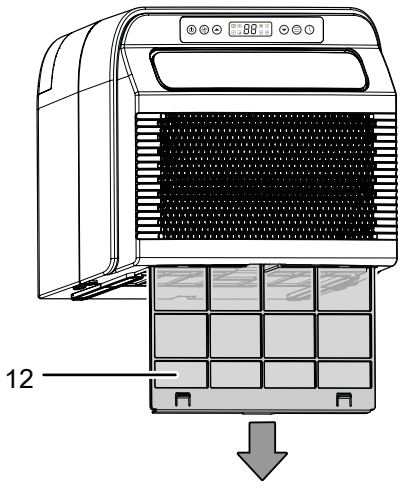


Cleaning the air filter

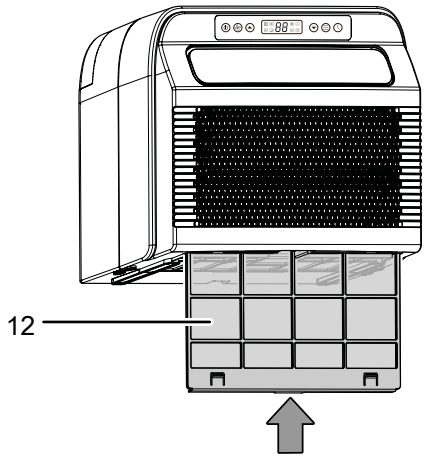
The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).

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 (12) 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 filters to dry completely. Do not put any wet filters into the device!
4. Reinsert the air filter (12) into the device.



Condensate discharge (manual draining)

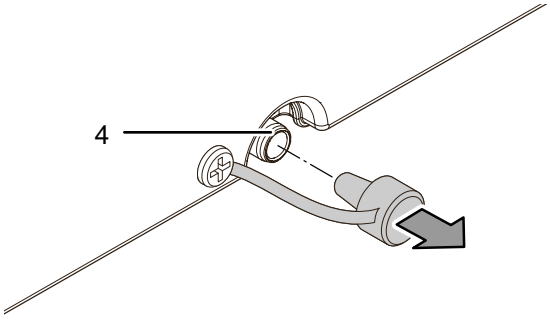
In *Cooling* and *Dehumidification* mode condensate is formed, which is conveyed to the external unit by the condensate pump.

If too much condensate collects in the external unit, the error code **FL** is shown on the segment display (25). Remove the rubber stopper on the rear of the external unit and drain the condensate. You can connect the condensation drain hose to the rubber stopper to drain the condensate in a directed fashion.

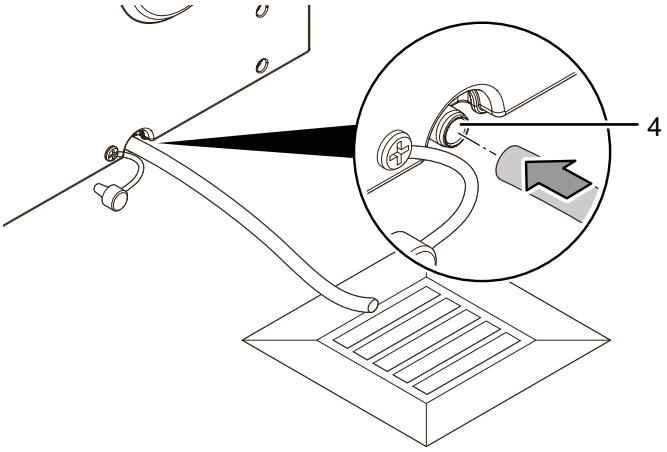
Please proceed as follows to connect the condensation drain hose:

✓ There is no condensate in the device.

1. Unplug the rubber stopper from the condensate outlet (4).



2. Fasten the condensation drain hose on the condensate outlet (4).



⇨ The condensate will drain off automatically now when it collects in the device.

Notice

Remove the condensation drain hose again if you do not wish to have it connected continuously. When you do so, make sure that there is no condensate in the device.

Insert the rubber stopper into the condensate outlet (4) and ensure that it is fit tightly, since otherwise there may be uncontrollable water leakage.

Activities required after maintenance

If you want to continue using the device:

- 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.

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

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

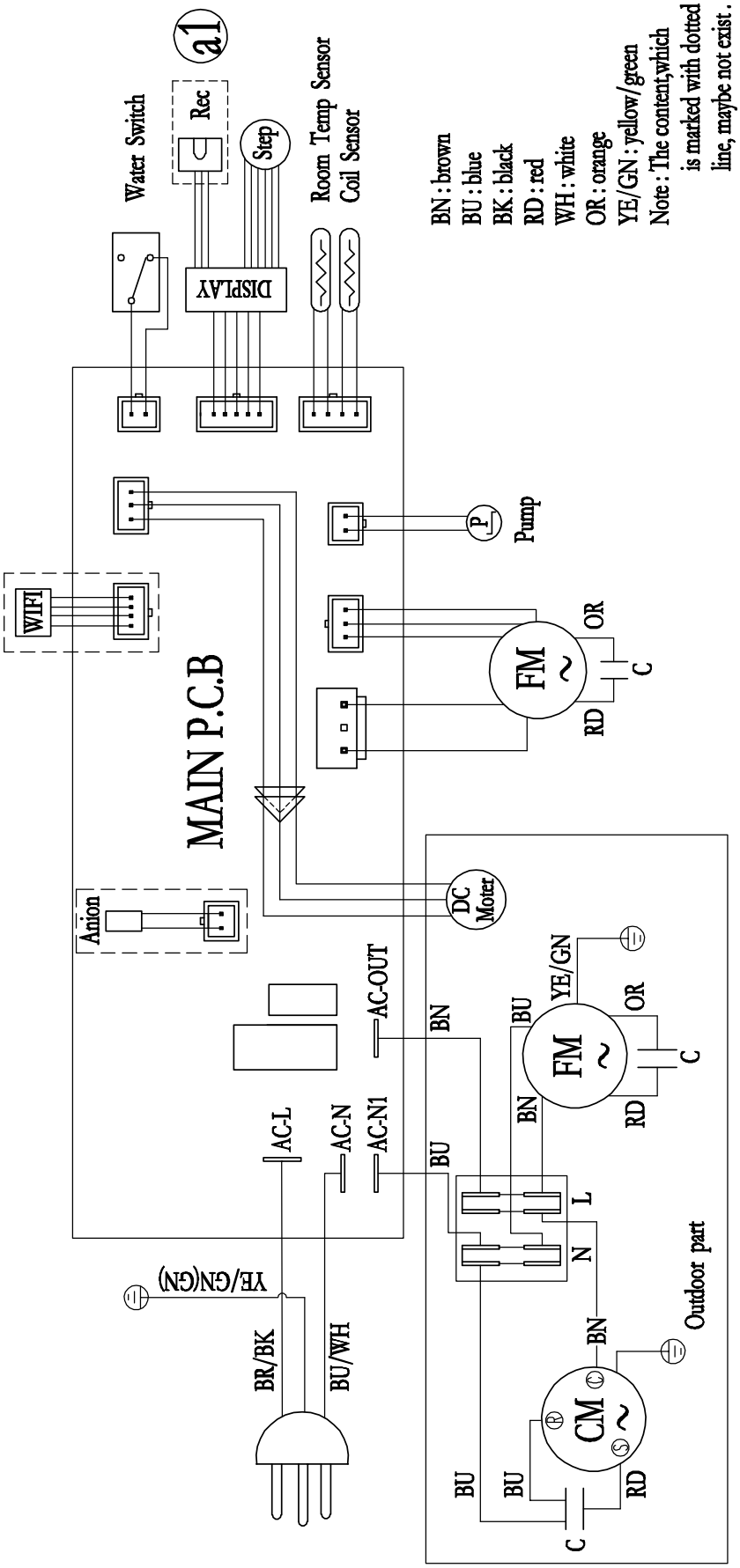
Technical annex

Technical data

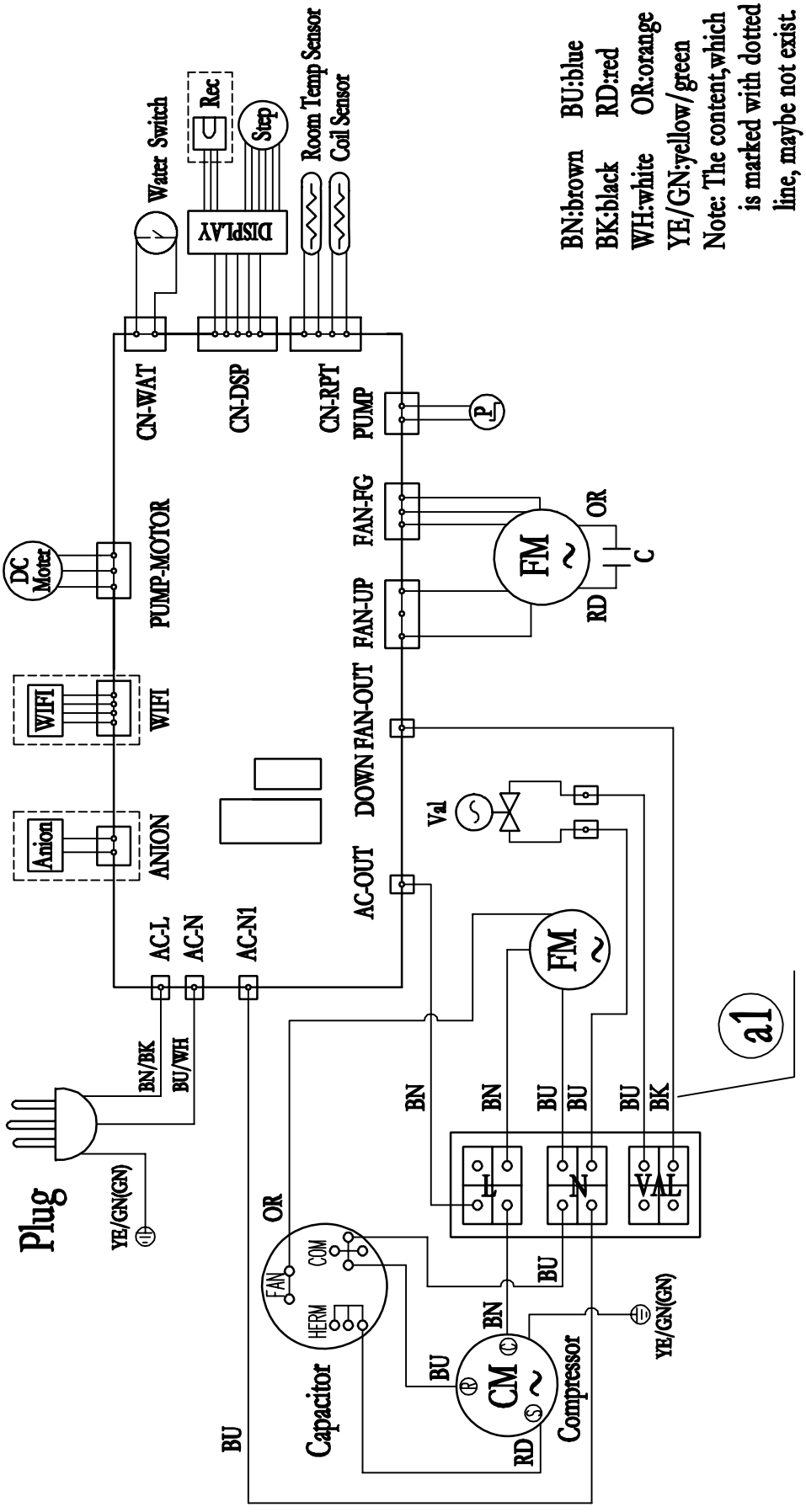
Parameter	Value	
Model	**PAC-C 1500 S**	**PAC-C 1500 SH**
Nominal cooling capacity	1465 W	1465 W
Nominal heating capacity	-	1465 W
Energy efficiency class	A	A (cooling) A+ (heating)
Energy efficiency ratio EER	2.6	2.6
Energy efficiency ratio COP	-	2.6
Application area (room volume), approx.	15 m^2 / 37 m^3	15 m^2 / 37 m^3
Setting range of the internal unit	+16 °C to +30 °C / 35 % RH to 80 % RH	+16 °C to +30 °C / 35 % RH to 80 % RH
Operating range of the external unit	+21 °C to +43 °C / 35 % RH to 80 % RH	+18 °C to +40 °C / 35 % RH to 80 % RH
Refrigerant	R290	R290
Refrigerant capacity	130 g	120 g
Length of the connection line	1 m	0.56 m
GWP factor	0.02	0.02
CO_2 equivalent	0.0000026 t	0.0000026 t
Suction side pressure	0.8 MPa	0.8 MPa
Pressure outlet side	2.8 MPa	2.8 MPa
Max. permissible pressure	3.8 MPa	3.8 MPa
Air volume flow per stage, internal unit	140 m^3/h (stage 1) 200 m^3/h (stage 2)	140 m^3/h (stage 1) 200 m^3/h (stage 2)
Sound pressure level, internal unit	46 dB(A)	46 dB(A)
Sound pressure level, external unit	58 dB(A)	58 dB(A)
Max. sound power, internal unit	63 dB(A)	63 dB(A)
Power supply	220~240 V 50/60 Hz	220~240 V 50 Hz
Protection type internal unit / external unit	IPX0 / IPX4	IPX0 / IPX4
Nominal electrical power consumption	560 W	560 W
Nominal electrical current consumption	2.5 A	2.5 A
Starting current, LRA	9.8 A	8 A
Fusing ⊣▭⊢	3.15 A (slow-blowing)	3.15 A (slow-blowing)
Condensate pump, conveying capacity	0.5 l/h	0.5 l/h
Dimensions of the internal unit (length x width x height)	440 x 180 x 315 mm	440 x 180 x 315 mm
Dimensions of the external unit (length x width x height)	440 x 215 x 355 mm	440 x 215 x 355 mm
Minimum distance to walls and other objects:		
top (A):	20 cm	20 cm
rear (B):	0 cm	0 cm
sides (C):	20 cm	20 cm
front (D):	20 cm	20 cm

Parameter	Value	
Weight of the internal unit	15 kg	15 kg
Weight of the external unit	2 kg	2 kg
Weight of internal and external unit incl. connection line	17.5 kg	17.5 kg

Circuit diagram PAC-C 1500 S



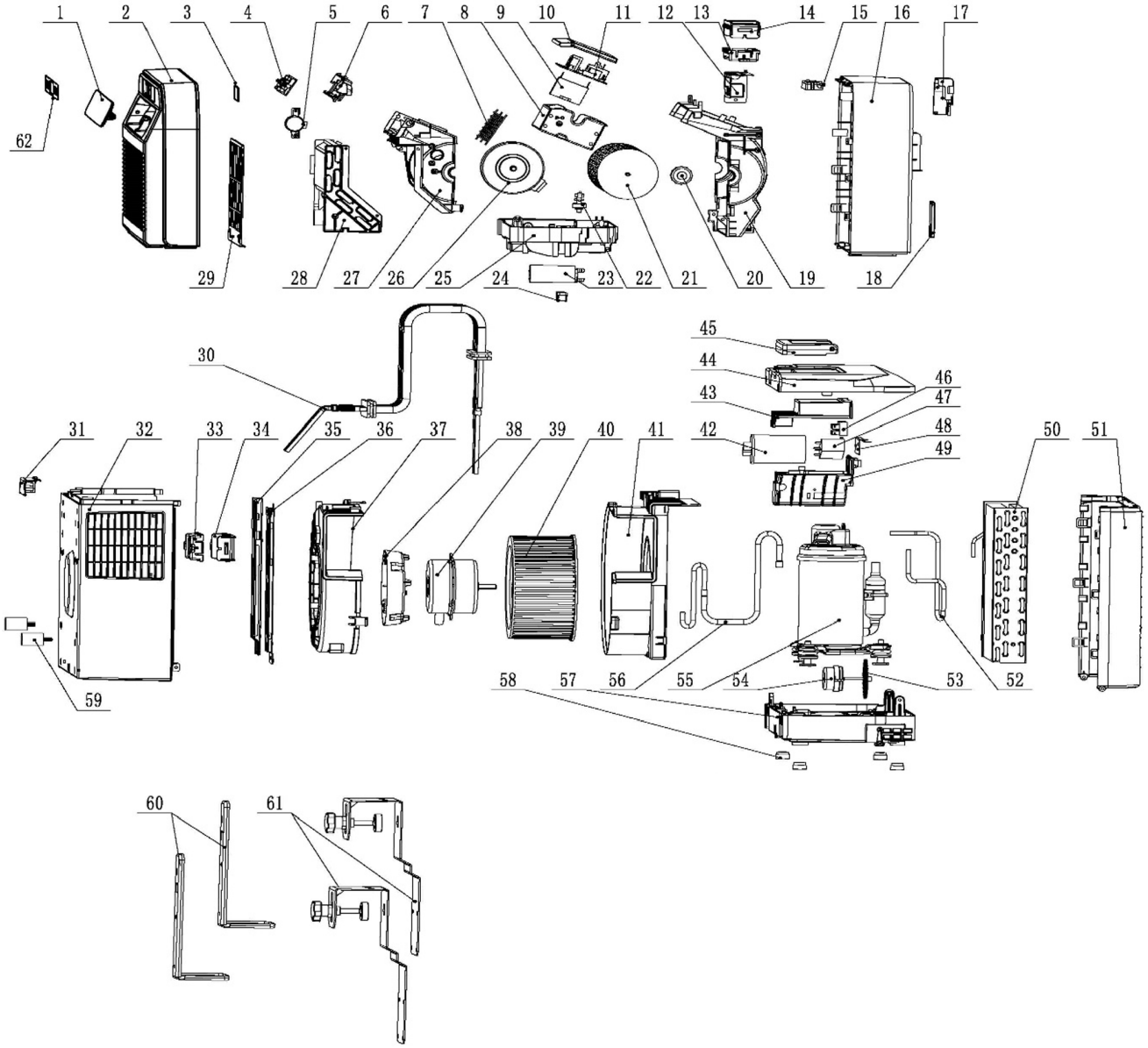
Circuit diagram PAC-C 1500 SH



Overview and list of spare parts

Info

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



No.	Spare part	Quantity	No.	Spare part	Quantity	No.	Spare part	Quantity
1	Air deflector	1	22	Water level switch	1	43	PCB box cover (external unit)	1
2	Front panel (internal unit)	1	23	Water pump	1	44	Top cover (external unit)	1
3	Display screen	1	24	Water pump fixing bracket	1	45	Handle	1
4	Display light panel	1	25	Bottom base (internal unit)	1	46	Connector	1
5	Stepper motor	1	26	Motor	1	47	Capacitor	1
6	Control panel	1	27	Lower air duct (internal unit)	1	48	PCB box bracket	1
7	Outlet guard	1	28	Evaporator assembly	1	49	PCB box (external unit)	1
8	PCB box (internal unit)	1	29	Filter	1	50	Condensor Assembly	1
9	Capacitor	1	30	Silicone sheath assembly	1	51	Front panel (external unit)	1
10	PCB box cover (internal unit)	1	31	Pipe cover (external unit)	1	52	Exhaust Pipe	1
11	PCB	1	32	Rear panel (external unit)	1	53	Water wheel	1
12	Pipe bracket	1	33	Pipe fixing box cover	1	54	Water drawing motor	1
13	Pipe fixing box	1	34	Pipe fixing box	1	55	Compressor	1
14	Pipe fixing box cover	1	35	Wall bracket 2	1	56	Sunction pipe	1
15	Handle cover	1	36	Wall bracket 1	1	57	Bottom base (external unit)	1
16	Rear panel (internal unit)	1	37	Outer exhaust volute	1	58	Rubber foot	4
17	Pipe cover (internal unit)	1	38	Motor base	1	59	Shock-absorbing of rubber feet	2
18	Power cord cover	1	39	Exhaust motor	1	60	Accessory brackets 4	2
19	Uper air duct (internal unit)	1	40	Exhaust fan wheel	1	61	Accessory brackets 3	2
20	Rubber shaft of fan wheel	1	41	Inner exhaust volute	1	62	Accessory brackets 3	1
21	Cross-flow fan	1	42	Compressor capacitor	1			

Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.

The icon with the crossed-out wheeled bin indicates that this device and any associated components must not be disposed of with household waste at the end of their life, in accordance with the Waste Electrical and Electronic Equipment Directive (2012/19/EU) and national laws.

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

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

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

Only for United Kingdom

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

Simplified EU Declaration of Conformity

Hereby, Trotec GmbH declares that the radio equipment type (PAC-C 1500 S – WiFi module / PAC-C 1500 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:
PAC-C 1500 S: https://hub.trotec.com/?id=47571
PAC-C 1500 SH: https://hub.trotec.com/?id=47701

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