Air conditioner WDH-9000K

Dear customer,

You have chosen a high-quality product. Here are some tips that will help you enjoy this product:

After transport:

Because the appliance runs on refrigerant, improper transport can sometimes occur despite careful labeling on the packaging. Therefore, we ask that you leave it upright for at least 4 hours before using it for the first time so that the refrigerant in the appliance can stabilize again.

In case of problems:

We hope the device meets your expectations! If, despite the utmost care, there should be any grounds for complaint, please contact us briefly, as we value your satisfaction and would like to clear up any misunderstandings.

Important notes:

It is essential to read the following instructions before use to avoid injury or damage and to get the best results with the device. Keep these operating instructions in a safe place. If you give the appliance to another person, be sure to hand over these operating instructions as well.
In the event of damage caused by failure to follow the instructions in this operating manual, the warranty shall be void. The manufacturer/importer shall not be liable for damage caused by failure to follow the operating instructions, negligent use, or use not in accordance with the requirements of these operating instructions.

(Read and keep these instructions !)

Warning:

- The pictures in the operating instructions are for illustration purposes only !!!
- This appliance may be used by children 8 years of age and older and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, provided they have received supervision or instruction on how to use the appliance safely and understand the dangers involved.
- Children must not play with the device !
- Children should not clean or service this appliance without their supervision!
- If the mains connection cable of this appliance is damaged, it should be replaced by the manufacturer or its customer service or an equally qualified person to avoid risk.
- Use only indoors !
- Do not use the appliance near ignition sources or in the presence of oil splashes. Protect from direct sunlight and splashing water and do not install the appliance near bathrooms, laundries, showers or swimming pools !
- Do not put your fingers in the air intake. Especially sensitize children to these dangers !
- Always turn off the appliance and disconnect it from the power supply before cleaning or adjustment !
- Do not pull the power cord, modify it or immerse it in water. Tearing or misusing the power cord may cause damage to the appliance and electric shock !
- Repairs may be carried out only in accordance with the manufacturer's recommendations. Repair and maintenance work requiring other skilled personnel must be carried out under the supervision of a person familiar with the use of flammable refrigerants !
- Do not pull out the mains plug to interrupt or turn off the appliance. This may cause electric shock or fire due to heat release !
- Unplug it if strange noises, smells or smoke come from the appliance !
- Always use a grounded outlet to connect the device.
- In case of damage, turn off the appliance, disconnect it from the power supply and contact an authorized service center for repair.
- Apart from the aids recommended by the manufacturer, do not use any other means to speed up the defrosting process or to clean the appliance !
- The appliance should be stored in a room where there are no permanently operating ignition sources (e.g., open flames, a gas appliance, or an operating electric heater).
- This appliance contains gaseous refrigerant of the R290 type. R290 is a gaseous refrigerant that complies with European environmental directives. The refrigerant circuit must not be penetrated at any point !
- If the appliance is used or stored in an unventilated room, the room must be designed so that leaked refrigerant cannot accumulate and become a fire or explosion hazard if the refrigerant is ignited by an electric stove, oven, or other ignition source !
- The person who performs the work or operates the refrigerant circuit must be able to present a corresponding certificate, issued by an accredited institution, stating that the person has the necessary skills to handle refrigerants in accordance with industry standards !
- The manufacturer's recommendations should be followed for repairs. Maintenance and repair work requiring specialized personnel should be performed under the supervision of a person familiar with the use of flammable refrigerants.
- Observe the following paragraphs when repairing appliances with R290 refrigerant.
- After transportation to another location, the device should always be left to stand for at least 2 hours.
- Use the device only in an upright position and with a straight/level stand (Fig. 1) !
- Make sure that moisture does not enter the device (Fig. 2) !
- Maintain a minimum distance of about 40 cm from fixtures and walls (Fig. 3) !
- This is an electrical appliance, so never insert objects into the appliance (Fig. 4) !
- The appliance is filled with the flammable refrigerant R290, so the instructions in these operating instructions must be strictly adhered to and read in full. (Fig. 5) !
- Do not carry out any repairs to the device yourself! (Fig. 5) !

Precautionary measures:

- Before using the appliance for the first time, please turn on the power, press the power button, and connect the appliance to the faucet with the self-contained water inlet/outlet hose following the voice prompts.
- During cooling, the maximum water temperature is 40° C and the minimum water temperature is -9° C. The maximum operating pressure of the water circuit is 0.03 MPa and the minimum operating pressure is 0.005 MPa. The maximum water inlet pressure is 0.2 to 0.6 MPa. During heating, the maximum water temperature is 30° C and the minimum water temperature is -9° C.
- Since this is a mobile air conditioner with energy storage and heat pump, this unit can be used without installation. Before cooling or heating, complete the cold or heat storage. To achieve longer operation in cooling or heating, store as much energy as possible for cooling or heating.
- Move the device slowly to avoid collision or tipping.
- Do not place objects in front of the air inlet/outlet of the unit. The distance between the air inlet/outlet and surrounding objects should be at least 200 mm, and the air inlet/outlet should remain unobstructed so as not to affect air exchange at the air inlet/outlet of the appliance.
- When cleaning and maintaining the device, use a soft cloth. Do not use wax, thinner or irritating cleaning agents.
- Clean the filter regularly. It is recommended to clean the device every two weeks.
- If you are not using the appliance for an extended period, unplug it and drain the water from the tank.
- Do not disassemble or repair the device without the help of trained personnel.
- If the water temperature is 18 degrees or less, do not add or drain water. (The temperature of the water tank is shown on the digital display under the cold or heat preservation function and on the user interface of the app).

Special note:

- During cold storage, open doors and windows to promote ventilation.
- After switching the mode, the compressor can switch to protection mode. The device is stopped. It will
- must wait 3 minutes before the compressor restarts.
- When the compressor starts, a quiet noise of two-phase flow is heard. Once the compressor starts, the two-phase flow noise disappears.
- Unscrew the inlet/outlet pipe and remove it from the device after draining the water. Otherwise, backflow will occur. Water will continue to flow out of the appliance even if the water drainage has been stopped.
- Although the drain function of the appliance is used to empty the water in the tank, the water cannot be drained completely. Therefore, the appliance should be kept upright and not tilted when moving, transporting or storing it. If the appliance has been tipped over, do not turn on the power immediately. The appliance should be left for a period of time. Turn on the power after the water has completely evaporated.
- Users should pay attention to the temperature of the water in the tank when discharging water. The water in the tank should be discharged at a temperature above 18° C. If the temperature is below 18° C, use the heat storage function to raise the water temperature before draining. Otherwise, ice in the water tank may clog the drainage or the water may not be discharged completely.

Note: After each mode is turned on, the appliance fan runs for 30 seconds. The appliance then runs according to the function of the desired mode.

Fig. 1

Fig. 2

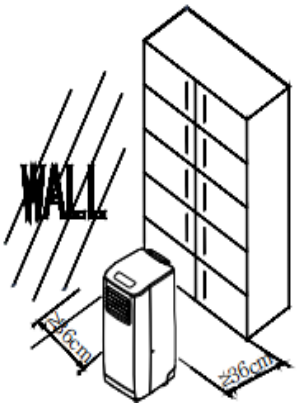

Fig. 3

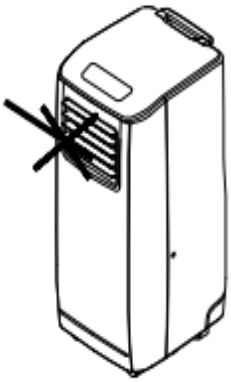

Fig. 4

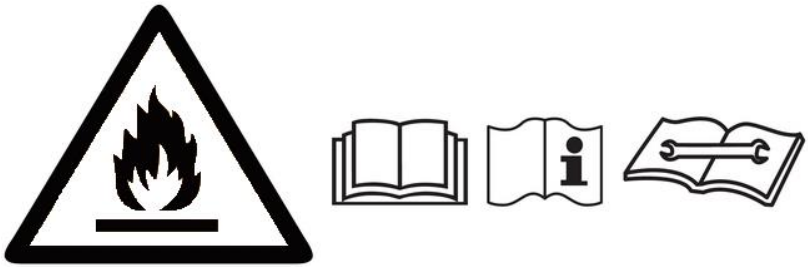

Fig. 5

This device has parts that should not be replaced or repaired !

The refrigerant cannot be renewed or replaced !

Do not personally make repairs or modifications to the device !

Maintenance and repair work requiring the assistance of other qualified persons must be carried out under the supervision of specialists in the use of flammable refrigerants.

Important operating and safety instructions regarding the refrigerant R290 contained in this appliance:

(Please read these instructions carefully and follow them before using the device).

1. Controlling the environment

Before working on systems containing flammable refrigerants, safety checks should be carried out to minimize the risk of ignition. When repairing refrigeration systems, the following safety precautions should be taken before performing any work on the systems.

Procedure

Work must be performed under controlled conditions to minimize the risk of the presence of flammable gases or vapors while working.

2. General work area

All maintenance personnel and other persons working in the work area should be instructed in the type of work to be done. Avoid working in insufficient space. The work area must be cordoned off. Make sure there is no flammable material in the work area!

3. Check for the presence of refrigerants

To check for the presence of refrigerant in the area before and during work, a suitable refrigerant detector must be used so that technical personnel are aware of the presence of a potentially flammable atmosphere. The leak detector used must be suitable for detecting flammable refrigerants, i.e., it must not produce sparks and must be properly sealed or intrinsically safe.

4. Presence of the fire extinguisher

If hot work is being performed on refrigeration systems or associated components, appropriate fire-fighting equipment must be readily available. A dry powder or CO_2 fire extinguisher must be available near the entry area.

5. No ignition source

Persons performing work on a refrigeration system that exposes piping in which flammable refrigerants are or have been transported must never use ignition sources in such a way as to cause a fire or explosion hazard. All possible ignition sources, such as cigarette smoke, must be kept at a safe distance from the place of installation, repair, relocation and disposal where flammable refrigerant may be released into the environment. Before any work is carried out, the area around the installation must be inspected for hazardous ignition sources or fire hazards. "No Smoking" signs must be posted.

6. Ventilated area

The work area must be outdoors or sufficiently ventilated before opening the plant or performing hot work. Some degree of ventilation must be maintained throughout the work. Ventilation must be able to safely distribute the released refrigerant and preferably transport it to the outside atmosphere.

7. Testing of refrigeration equipment

If electrical components need to be replaced, they must be suitable for their respective purpose and have the correct technical specifications. The manufacturer's maintenance and service instructions must always be followed. If in doubt, consult the manufacturer's technical department.
The following checks must be performed on systems with flammable refrigerants:

- The filling quantity should correspond to the size of the room in which the parts containing the refrigerant are installed;
- The machines and ventilation outlets work perfectly and are not blocked;
- If an indirect refrigerant circuit is used, the secondary circuit should be checked for refrigerant leakage;
- Markings on the system are clearly visible and legible. Unreadable labels and signs must be corrected;
- Piping or cooling components are installed in locations where a hazard from other substances that can corrode refrigerant-containing components is unlikely, unless the components are made of corrosion-resistant materials due to their substance or are protected from corrosion adequately.

8. Testing of electrical devices

Repair and maintenance work on electrical components also includes initial safety checks and component testing. If there is a fault that could affect safety, the power supply cannot be connected to the load until the fault has been satisfactorily eliminated. If the fault cannot be eliminated immediately, but operation must continue, an appropriate emergency solution must be used. This must be communicated to the system owner so that all parties concerned are informed.

Initial security checks include the following:

- Capacitors must be discharged. This operation must be done safely to avoid sparks;
- When filling, recharging or flushing the system, no live components and lines should be exposed;
- There must be a continuous connection to the protective earth.

9. Repairs to hermetically sealed components:

- When carrying out repairs on sealed components, all power supply equipment must be disconnected from the system being worked on before removing sealed protective devices or the like. If power supply to the system is unavoidable during maintenance work, a permanently operating leak detection system should be provided at the most critical points to warn of possible hazardous situations.

- Special attention should be paid to the following points to ensure that work on electrical components does not alter the enclosure to such an extent that its degree of protection is compromised. This includes damage to cables, excessive number of connections, connections not made according to the manufacturer's specifications, damage to seals, incorrect installation of cable glands, etc. Make sure that the equipment is installed securely. Also make sure that neither the gaskets nor the sealants have aged to such an extent that they can no longer prevent the penetration of flammable atmospheres and thus can no longer perform their function. Replacement parts must conform to the manufacturer's specifications.

Note: The use of silicone sealants may compromise the effectiveness of some leak detection devices. Intrinsically safe components should not be electrically disconnected before working on them.

10. Repair of intrinsically safe components.

Do not apply permanent inductive or capacitive loads to the circuit unless you have ascertained that the voltage and current exceed the allowable limits for system operation. Intrinsically safe components are the only ones that can be worked on in the presence of current and a flammable atmosphere. The test instrument must have the correct ratings. Replace components only with those specified by the manufacturer. Foreign parts can cause ignition of refrigerant in the atmosphere of a leak.

11. Wiring

Check cable connections for wear, corrosion, excessive pressure, vibration, sharp edges or other harmful environmental effects. The consequences of aging or continuous vibration from compressors or fans should also be considered during inspection.

12. Detection of flammable refrigerants

Under no circumstances should potential ignition sources be used to locate or detect refrigerant leaks. A halogen leak detector (or any other detector using an open flame) should not be used.

13. Methods of leak detection

The following leak detection methods are considered acceptable for systems containing flammable refrigerants. Electronic leak detectors should be used for detection of flammable refrigerants, but sensitivity may not be sufficient or may need to be recalibrated. (Detectors should be calibrated in an area free of refrigerants.) Ensure that the detector is not a potential ignition source for the refrigerant being used. The leak detector must be set to a percentage of the LFL of the refrigerant and must be calibrated for the refrigerant used. The appropriate amount of gas (maximum 25%) must be confirmed. Liquid leak detectors are suitable for most refrigerants, but detectors containing chlorine should be avoided, as chlorine can react with refrigerant and corrode copper piping. If a leak is suspected, all open flames should be removed or extinguished. If a refrigerant leak is detected and brazing work is required, all refrigerant should be collected from the system or drained (through gate valves) to a part of the system away from the leak. Next, oxygen-free nitrogen (OFN) should be used to flush the system before and during brazing work.

14. Removal and emptying

If the coolant circuit is interrupted for repair work or otherwise, conventional methods should be used. However, a proven procedure should always be used, since flammability is a critical point.

Follow the procedure described below:

- Remove the coolant;
- Flush the circuit with a noble gas;
- Evacuate;
- Rinse again with inert gas;
- Open the circuit by cutting or brazing.

Collect the refrigerant in appropriate containers. To make the system safe, "flush" with oxygen-free nitrogen. The process can be repeated several times. Neither compressed air nor oxygen can be used for this operation. For flushing, the negative pressure in the system is negated with oxygen-free nitrogen and filled further to operating pressure. The substance is then expelled into the atmosphere and the negative pressure is restored. This process is repeated until there is no more refrigerant in the system. After the last nitrogen purge, the system is vented to atmospheric pressure in order to do the job. This process is absolutely necessary if brazing work is to be performed on the piping. Make sure that the vacuum pump outlet is not close to ignition sources and that ventilation is available.

15. Filling process

In addition to the conventional filling steps, the following instructions should be followed:

- When using charging units, ensure that there is no contamination by different refrigerants. Hoses or lines should be as short as possible to minimize the amount of refrigerant they contain.
- Containers should be placed vertically.
- Make sure the refrigeration system is grounded before charging the refrigerant.
- Once filling is completed, the system should be labeled (if not already done).
- Special care must be taken so that the refrigeration system is not overfilled.

Before filling, the system should be pressure tested with oxygen-free nitrogen. After filling is complete and before commissioning, the system should be checked for leaks. A subsequent leak test should be performed before leaving the site.

16. Deactivation

Before performing this work, it is essential that the technician is familiar with the system and all the associated details. It is good practice to safely collect all refrigerant. Before performing the work, an oil and refrigerant sample should be taken for analysis before recycling the refrigerant. It is essential that power supply is available before starting the work.

a) The system and its mode of operation must be known.
b) Electrically disconnect the system.
c) Before starting the work, make sure of the following points:

- If necessary, mechanical transport equipment is available for handling coolant containers.
- All personal protective equipment is available and used properly.
- Recovery is always monitored by a competent person
- Recovery systems and containers comply with the respective standards

d) If possible, purge the refrigeration system.
e) If negative pressure is not possible, provide a distributor so that refrigerant can be extracted from various points in the system.
f) Remember to put the container on a scale before retrieval.
g) Start the recovery system and use it according to the manufacturer's instructions.
h) Do not overfill the containers. (No more than 80% of the liquid filling volume).
i) Do not exceed the maximum working pressure of the tank, even temporarily.
j) Once the containers have been properly filled and the process has been completed, the containers and system should be removed from the site as soon as possible. All shut-off valves in the system should be locked.
k) The collected refrigerant should not be fed into another refrigeration system unless it has been cleaned and checked.

17. Labeling

The system must be labeled to indicate that the refrigerant has been dismantled and drained. The labeling should be dated and signed. Ensure that signage on the system calls attention to the flammable refrigerant contained.

18. Retraction

When removing refrigerant from a system for maintenance or dismantling, it is good practice to safely remove all refrigerant. When transferring refrigerant to containers, ensure that only containers suitable for recycling are used. Make sure that enough containers are available to hold the entire system charge. All containers to be used are marked and labeled for recycled refrigerant (e.g., special container for refrigerant recycling). Containers shall be equipped with pressure relief valves and suitable shutoff valves in good working order. Empty recycling containers shall be removed and, if possible, cooled before recycling. Recycling equipment must be in good working order. Complete documentation of the equipment must be available and the equipment must be suitable for recycling flammable refrigerants. In addition, several scales must be available and in good condition. Hoses complete with tight fittings and in good condition must be available. Before using the recycling device, check that it is in good working order, has been properly maintained, and that all associated electrical components are sealed to prevent ignition in case of refrigerant leakage. If in doubt, contact the manufacturer. Filled refrigerant must be returned to the refrigerant supplier in the correct collection container. A corresponding waste transport notification must be issued for this purpose. Do not mix refrigerants in collection containers and especially in drums. If it is necessary to remove compressors or compressor oils, ensure that they have been removed from the system to an appropriate level to ensure that no flammable refrigerants remain along with the lubricant. Removal should be done before the compressor is returned to the supplier. To expedite this process, only an electric heater can be used on the compressor housing. If oil is drained from the system, the operation must be done safely.

19. Electrical components

Electrical components that may generate arcs or sparks and are not considered ignition sources under 22.116.1(b), (c), (d) or (f) may be replaced only with parts specified by the appliance manufacturer. Replacement with other parts may result in ignition of the refrigerant in case of leakage.

Other important notes

1. Training requirements

In addition to normal training on the repair steps of refrigeration systems, special training is required for systems with flammable refrigerants. In many countries, this training is conducted by national training institutes accredited to provide instruction in accordance with relevant national technical and legal standards. The competence acquired must be evidenced by a certificate.

1.1 Scope of training

The scope of training should include the following topics:

- Information on the explosion potential of flammable refrigerants to clarify that flammable substances can become dangerous if handled carelessly.
- Information on potential ignition sources, especially those that are not obvious, such as lighters, light switches, vacuum cleaners, and electric heaters.
- Information on various security concepts:

Unvented - The safety of a system does not depend on the ventilation of the enclosure. Turning off the appliance or opening the enclosure does not significantly affect safety. However, spilled refrigerant may have settled in the enclosure and a flammable atmosphere may be released when the enclosure is opened.
Ventilated housing - The safety of the system depends on the ventilation of the housing. Turning off the device or opening the housing greatly compromises safety. Special care must be taken to ensure adequate ventilation.
Ventilated room - The safety of the system depends on the ventilation of the room. Turning off the unit or opening the enclosure does not significantly affect safety. Room ventilation must not be interrupted during repair work. Information on the concept of sealed components and enclosures in accordance with IEC 60079-15:2010.

2. Commissioning.

- Ensure that the workshop area is sufficient for refrigerant charge or that the ventilation line has been properly installed.
- Connect the lines and perform a leak test before filling with coolant.
- Check safety devices before commissioning.

3. Maintenance

- Portable appliances must be repaired outdoors or in a workshop specially equipped to repair systems with flammable refrigerants.
- Ensure adequate ventilation at the repair site.
- Remember that a failure in the system can be caused by a refrigerant leak and that a refrigerant leak is possible.
- Discharge capacitors in a way that does not generate sparks. The standard method of discharging at the capacitor terminals usually produces sparks.
- Sealed housings must be reassembled accurately. Replace worn seals.
- Check safety devices before commissioning.

4. Repair

- Portable appliances must be repaired outdoors or in a workshop specially equipped to repair systems with flammable refrigerants.
- Ensure adequate ventilation at the repair site.
- Remember that a failure in the system can be caused by a refrigerant leak and that a refrigerant leak is possible.
- Discharge capacitors so that they do not generate sparks.
- If brazing is required, the following steps should be performed in the correct order:
- Remove the coolant. If recycling is not required by law, drain the refrigerant into the open air. Make sure the drained refrigerant does not cause any hazards. If in doubt, a person should monitor the drain. Take special care that the drained refrigerant does not flow back into the building.
- Empty the coolant circuit.
- Flush the coolant circuit with nitrogen for 5 minutes.
- Then empty again.
- Cut out the parts to be replaced, without flame.
- During the brazing process, flush the joint with nitrogen.
- Perform a leak test before charging the coolant.
- Sealed housings must be reassembled accurately. Replace worn seals.
- Check safety devices before commissioning.

5. Deactivation

- If safety is compromised during system decommissioning, the refrigerant charge must be removed before decommissioning.
- Ensure adequate ventilation at the system site.
- Remember that a failure in the system can be caused by a refrigerant leak and that a refrigerant leak is possible.
- Discharge capacitors so that they do not generate sparks.
- Remove the coolant. If recycling is not required by law, discharge the coolant into the open air.
- Make sure that the discharged refrigerant does not cause any hazard. If in doubt, a person should monitor the discharge. Take special care that the drained refrigerant does not flow back into the building.
- Empty the coolant circuit.
- Flush the coolant circuit with nitrogen for 5 minutes.
- Then empty again.
- Fill with nitrogen to atmospheric pressure.
- Attach a sign to the system indicating that the coolant has been removed.

6. Disposal

- Ensure adequate ventilation in the workplace.
- Remove the coolant. If recycling is not required by law, drain the refrigerant into the open air. Make sure the drained refrigerant does not cause any hazards. If in doubt, a person should monitor the drain. Take special care that the drained refrigerant does not flow back into the building.
- Empty the coolant circuit.
- Flush the coolant circuit with nitrogen for 5 minutes.
- Then empty again.
- Disconnect the compressor and drain the oil.
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7. Transportation, labeling, and storage of systems using flammable refrigerants.

7.1 Transportation of systems containing flammable refrigerant

Attention is drawn to the fact that additional transport regulations may exist for systems with flammable gases. The maximum number of system components or system configuration that can be transported together are determined by the applicable transportation regulations.

7.2 Labeling the system with signs

Signage for similar equipment generally used in a work area is governed by local regulations and specifies minimum requirements for safety and/or the provision of warning signs at a work site. All mandatory signs must be maintained. Employers must ensure that employees receive adequate and sufficient instruction and training on the meaning of relevant safety signs and actions to be taken in relation to such signs.
The effect of signage should not be compromised by too much signage used together. All pictograms used should be as simple as possible and contain only the most important information.

8. Disposal of systems with flammable refrigerants:

Refer to national regulations.

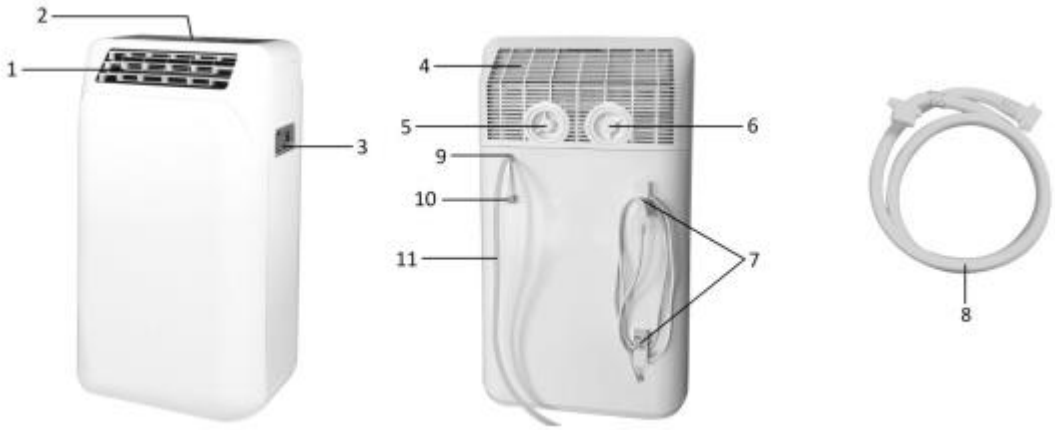
9. Storage of systems/devices:

Systems should be stored according to the manufacturer's instructions. Protection of packaged products during storage must be designed to prevent mechanical damage to equipment in the package from causing refrigerant leakage. The maximum number of systems that can be stored together is specified in local regulations.

Warning: Keep ventilation openings free from obstructions.

Warning: The appliance must be installed in a well-ventilated room whose dimensions correspond to the room specifications given in the technical data. A minimum distance of 20 cm must be maintained around the appliance. The appliance must be used and stored in a room with an area of more than 13 m².

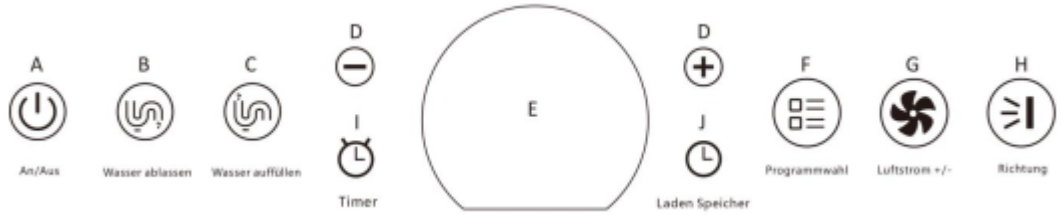
Naming of device parts:



1. Air outlet with adjustable swivel blade
2. Control Panel
3. Handle (on both sides)
4. Air inlet
5. Water inlet and screw
6. Water discharge and screw
7. Cable storage
8. Water inlet/outlet pipe
9. Exhaust opening
10. Plug
11. Exhaust pipe

For respective water connections, please refer to the attached sheet !

Control panel:



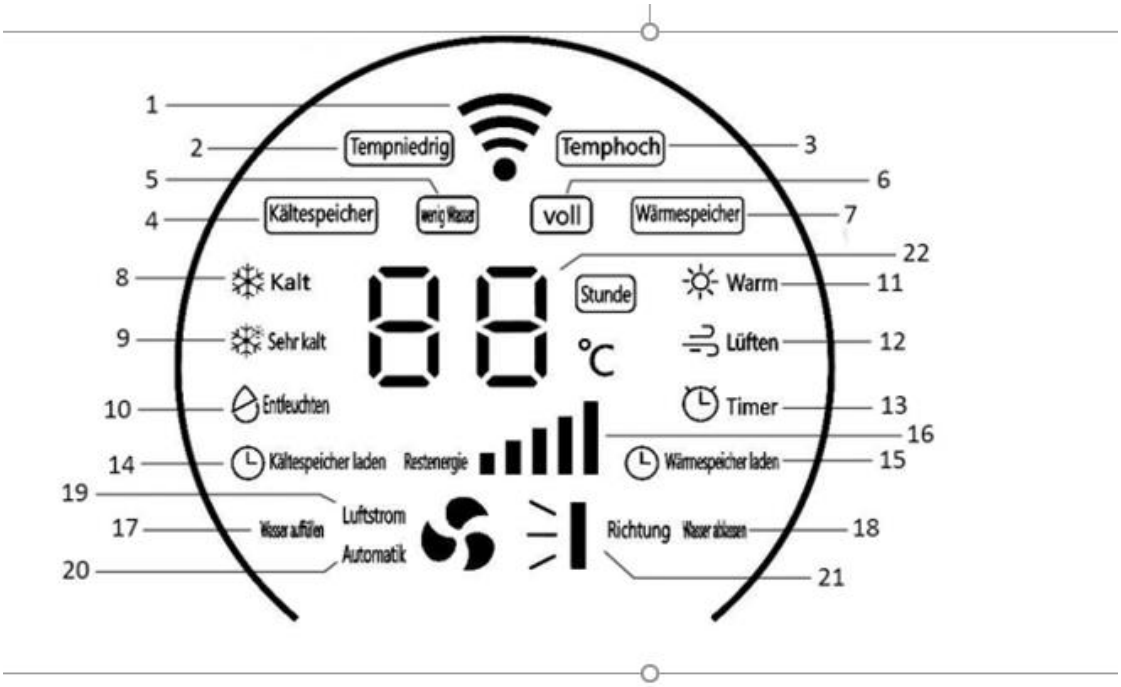
A) **Power on/off button**
Press this button to turn the device on and off.

B) **Water drain button**
Press this button to start the water drainage function.

C) **Water inlet button**
Press this button to start the water inlet function.

D) **Adjustment buttons**
In the modes, press the buttons for cold storage, cooling, strong cooling, hot storage or heating to increase or decrease the set temperature (each press sets 1 degree). Press the timer buttons to increase or decrease the set time (each press sets 1 hour).

E) **Display**



1. WLAN display
2. Low temperature
3. High temperature
4. Cold storage
5. Water shortage
6. Full water
7. Heat storage
8. Cooling mode
9. Powerful cooling mode
10. Dehumidification mode
11. Heating mode
12. Ventilation mode
13. Timer
14. Cold room presetting
15. Heat storage presetting.
16. Energy display (energy bar).
17. Water inlet function
18. Water drainage function
19. Low/medium/high ventilation speed
20. Automatic ventilation speed
21. Swivel function
22. Temperature display

F) **Mode button**
Press this button to select the mode: cold preservation, cooling mode, intensive cooling mode, dehumidification mode, heat preservation, heating mode and ventilation mode.

G) **Speed button**
Press this button to select the fan speed: low/medium/high/automatic.

H) **Rotation button**
Press this button to select the upward or downward rotation movement or to stop the rotation movement.

I) **Timer button**
If the appliance is in cooling, intensive cooling, dehumidification, heating or ventilation mode, press this button to set the mode end time. If the appliance has just been turned on, press this button to set the start and end time of the mode.

J) **Preset button**
Press this button to set the time period (hours) after which the appliance is activated. The appliance automatically stores energy (cold storage/heat storage) during this period.

Instructions for use:

Before using the device, please watch the following videos with installation instructions !

This device uses a unique energy storage system. It uses the stored cold or heat energy for cooling or heating operation. Therefore, before setting the intensive cooling/cooling mode or heating mode, cold or heat storage must be set.
Do not activate the cold storage function in the room you want to cool. During the cold storage function, the room is heated up a lot.
For the best and fastest result, during accumulation operation place the unit near an open door or window so that warm air can escape to the outside. The dehumidification or ventilation function does not require any energy storage. You can press the mode button to directly select the dehumidification or ventilation mode without first starting the cold or heat accumulation function.

Note: After each mode is turned on, the appliance fan runs for 30 seconds. The appliance then runs according to the function of the desired mode.

1. Commissioning.

1.2 Connect the power supply

- On first use, connect the power supply and go to step 2 "Water Inlet."
- If the appliance is not being used for the first time or if there is water in the tank, insert the plug into the power outlet and press the power button on the control panel.

1.3 Water Inlet

In case of a low water alarm (lack of water in the tank at first use or lack of water during use), follow the instructions below to add water to the tank inside the appliance.

- Remove the water inlet screw on the back of the unit by turning it counterclockwise.
- Connect the appliance to the faucet using the water inlet/outlet hose. Press the water inlet button and open the faucet at the same time.
- When the water level reaches the operating level, the water inlet valve automatically closes to cut off the water supply.
- Remove the water inlet/outlet tube and tighten the water inlet screw again.

1.4 Cold storage

- Press the mode button to select the cold storage function.
- Press the "+" or "-" button to set the storage temperature. The lower the temperature setting, the higher the storage capacity. The temperature range is -9°C to 5°C.
- Once cold storage is completed, the unit automatically switches to standby mode.

Note: During cold storage, the fan runs at high speed and the rotating blade is at the maximum exit angle. At this point, heat energy is dissipated. Open doors and windows to promote ventilation in a confined space. Do not activate the cold storage function in the room you want to cool. During the cold storage function, heat is blown into the room. For a better and faster result, during the preservation mode place the appliance near an open door or window so that warm air can escape to the outside. During cold storage, the current temperature of the water in the tank is displayed. The air inlet and outlet must not be covered.

2. Other instructions for use:

2.1 Cooling

At the end of cold storage:

- Press the mode button to select the cooling mode.
- Press the "+" or "-" button to set the cooling temperature between 16 °C and 32 °C.
- Press the fan speed button to select low/medium/high/automatic fan speed in 4 steps.
- Press the rotation button to turn the rotation function on/off.

Note: During cooling, the device displays the ambient temperature. When the cooling capacity of the water in the water tank is exhausted (water temperature reaches 40°C), cooling is stopped. The water can only be used after cold storage.

2.2 Strong cooling

This mode can be used when rapid cooling is needed.

- Press the mode button to select the strong cooling mode.
- Press the "+" or "-" button to set the strong cooling temperature between 16 °C and 32 °C.
- Wind speed is set by default and cannot be adjusted.
- Press the rotation button to turn the rotation function on/off.

Note: During intensive cooling, the device displays the ambient temperature. When the cooling capacity of the water in the water tank is exhausted (water temperature reaches 40°C), cooling is stopped. The water can only be used after cold storage.

3. Heat storage

- Press the mode button to select the heat storage function.
- Press the "+" or "-" button to set the heat preservation temperature between 20°C and 30°C.
- As soon as the digital display shows the set temperature, it means the heat storage is complete.

Note: During heat accumulation, the air outlet fan is closed and no air volume needs to be expelled. During heat accumulation, the current temperature of the water in the tank is displayed.

3.1 Heating

When heat accumulation is complete:

- Press the mode button to select the heating mode.
- Press the "+" or "-" button to set the heating temperature between 16 °C and 32 °C.
- Press the fan speed button to select one of 4 fan speed levels: low/medium/high/automatic.
- Press the rotation button to turn the rotation function on/off.

Note: During heating, the device displays the room temperature. The air inlet and outlet should not be covered.

4. Dehumidification

- Press the mode button to select the dehumidification mode.
- Press the rotation button to turn the rotation function on/off.

Note: During dehumidification, the unit displays the room temperature.

4.1 Ventilation

- Press the mode button to select the ventilation mode.
- Press the fan speed button to select one of 3 fan speed levels: low/medium/high.
- Press the rotation button to turn the rotation function on/off.

Note: The device displays the room temperature during ventilation.

4.2 Time settings (to set the timer for cooling, intensive cooling, dehumidification, heating or fan mode).

Set the end time of appliance operation in cooling, intensive cooling, dehumidification, heating or ventilation mode:

- Press the timer button.
- Press the "+" or "-" button to set the end time.
- Press the timer button again to confirm.

Set the start and end time if the unit has just been turned on and is not running in cooling, intensive cooling, dehumidification, heating or ventilation mode:

- Press the power button to turn the unit on and then press the timer button.
- Follow the voice prompt to press the mode button to select the desired mode: Cooling, intensive cooling, dehumidification, heating or ventilation.
- Press the timer button to confirm.
- Press the "+" or "-" button to set the start time, then press the timer button to confirm.
- Press the "+" or "-" button to set the end time, then press the timer button to confirm.

Example:

We set start time "1" and end time "2" at 9:00 a.m.: the device then starts at 10:00 a.m. and stops at 12:00 p.m.

Note: Once the timer setting is completed, a voice message is displayed. Once the timer is set, the mode cannot be changed. If you want to change the mode, press the power button to turn off and restart the device.

4.3 Presetting

(To set the timer for cold or hot storage).

- Press the preset button to activate the preset mode, then select the preset for cold storage or hot storage.
- Press the "+" or "-" button to select the number of hours within which to complete cold or heat preservation (time range from 4 hours to 24 hours). Once the time has been selected, press the preset button again to confirm; the voice prompt will indicate that the preset has been completed.

4.4 Delete the default setting:

- By pressing the preset button again, the previous preset is deleted and a new one can be created.
- After turning off, the default setting is automatically cleared.
- Press and hold the preset button for more than 3 seconds to cancel the preset.

Note: At the end of cold or heat preservation, the unit automatically switches to standby mode. Then press the mode button to select the cooling or heating function; after the preset is finished, no further operations can be performed. If you need to perform other operations, clear the preset first.

4.5 Child safety lock

- Press and hold the "+" and "-" buttons simultaneously for 3 seconds to activate the child safety lock. All buttons are locked and cannot be operated.
- Press and hold the "+" and "-" buttons at the same time for 3 seconds to turn off child protection or directly disconnect the device.

4.6 Waste water

If condensate accumulates in the water tank, the water level in the water tank rises above the level allowed for operation. In this case, the "tank full" alarm is triggered: the tank full indicator and error code "E2" will light up on the digital display. In case of an alarm due to full tank, follow the instructions below to drain the water from the inner tank of the appliance.

- Unscrew the water drain plug at the back of the appliance, connect one end of the water inlet/outlet hose to the drain hole and the other end to a water collection container or floor drain.
- Insert the mains plug into the socket and press the power button on the control panel.

- Press the water drain button. A voice prompt will be heard at this time. Press and hold the water drain button for more than 3 seconds. The system will automatically start the water pump to drain the water.
- If the water level is higher than the operating level, the drainage function will stop when it reaches the operating level. If it is necessary to completely drain the water in the water tank, repeat step (3) to continue draining until the water tank is empty.
- When drainage is completed, the drainage pump will automatically turn off.
- Remove the water inlet/outlet pipe and screw the water outlet screw back on.

Note: To avoid a complete stop of operation due to the "water tank full" alarm (such as at night in cold storage mode, cooling mode, or strong cooling mode), you can use the supplied drain hose to continuously drain the water. Remove the cap from the drain opening on the back of the appliance. Connect the drain hose to the opening and drain the water into a bucket or drain in the floor. (Condensation may leak out when removing the cap).

Important:

- After switching the mode, the compressor can switch to protection mode. The device stops. It is necessary to wait 3 minutes before the compressor restarts.
- Observe the energy bar to check the status of the remaining stored energy. If the energy bar is empty or if the low-temperature/high-temperature indicator lights up, it is recommended to perform heat/cold storage.

Note: As soon as the room temperature reaches the set temperature, the unit will automatically stop and restart (based on the room temperature with a difference of 2 degrees). The control panel will go dark after 3 minutes if no operation is performed. Press any button: the control panel will turn on again.

5 Setting up WLAN pairing

(APP instructions may not be updated regularly. This may be due to a software version update or for other reasons. These instructions serve only as a guide. The example below shows the German version of the iOS mobile app.)

- Search for "Tuya Smart" in the App Store (for iOS) or Google Play (for Android) to download the app.
- Register or log in to your app account. Tap "+" or the "Add Device" button in the upper right corner to add your device. (Fig.1)
- Search for "Large appliances" and tap on the "Portable air conditioner (BLE+Wi-Fi)" icon (Fig. 2).
- Press and hold the power button on the device control panel for 5 seconds until the WLAN indicator flashes rapidly.
- Tap "Next" in Fig. 3. Continue to tap "Flashing or fast button" in Fig. 4. A message asks you to use a 2.4 GHz WLAN. Enter the WLAN password and tap "Next." (Fig. 5)

Note: When setting up the Wi-Fi function, an available 2.4 GHz network must be selected and the device connected. The cell phone must be connected to the same network in order to set up Tuya Smart in the phone. Once this is done, the device can be accessed from the phone on any network.

- Wait for the message in Fig. 6 to appear. Then tap "Finish" in the upper right corner.
- Now you can operate the device through the app interface. Tap the buttons to set up the device.

Note: The device is compatible with Alexa, Google Home and Smartlife.

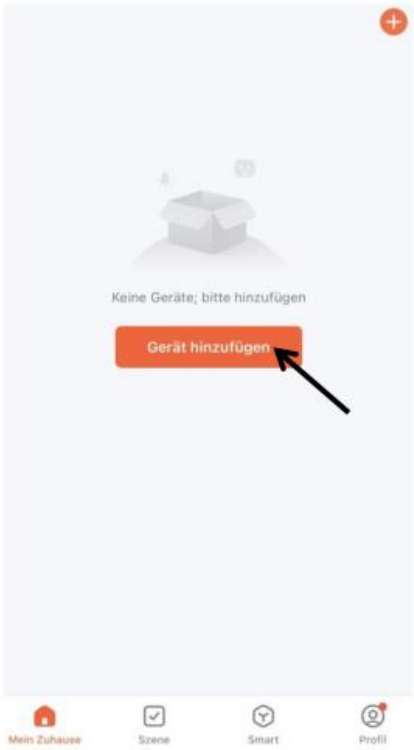


Fig. 1

Fig. 2

Fig. 3

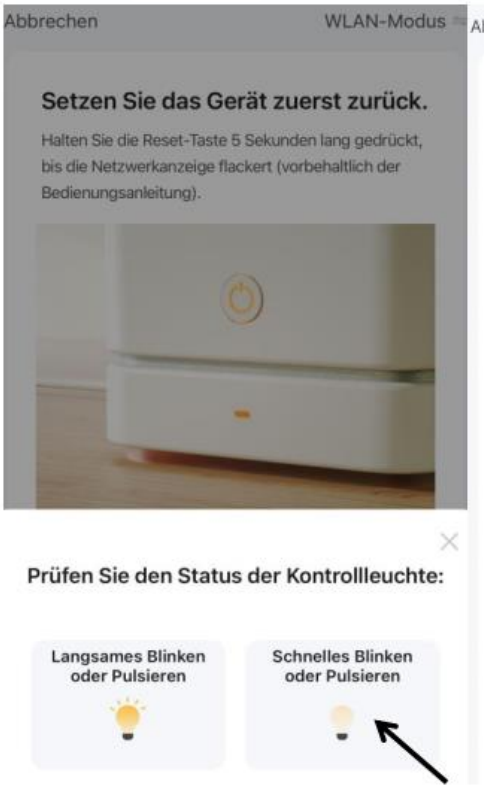


Fig. 4

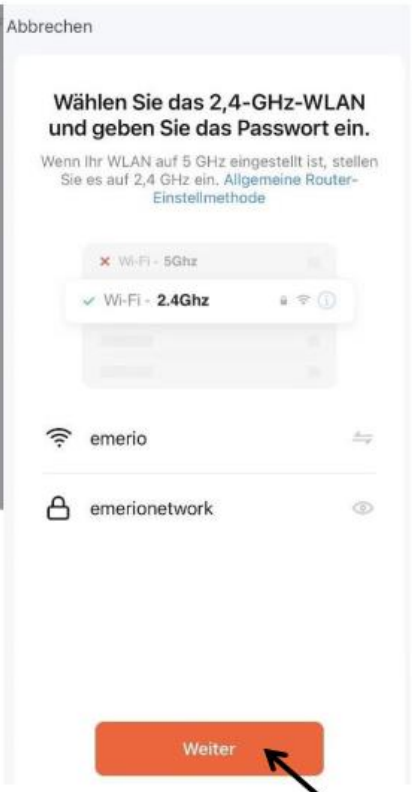


Fig. 5

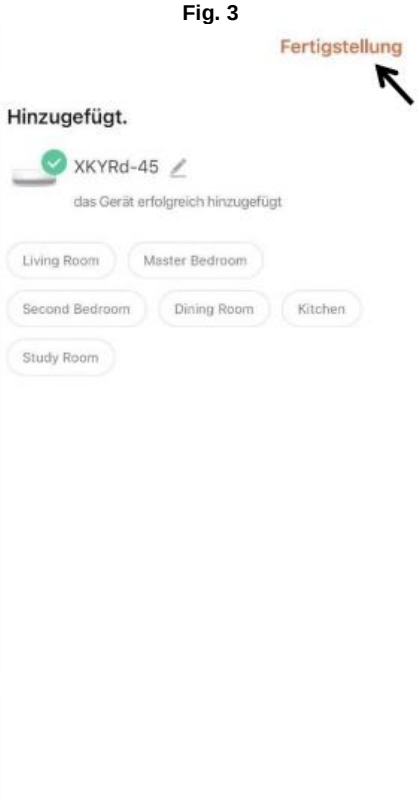
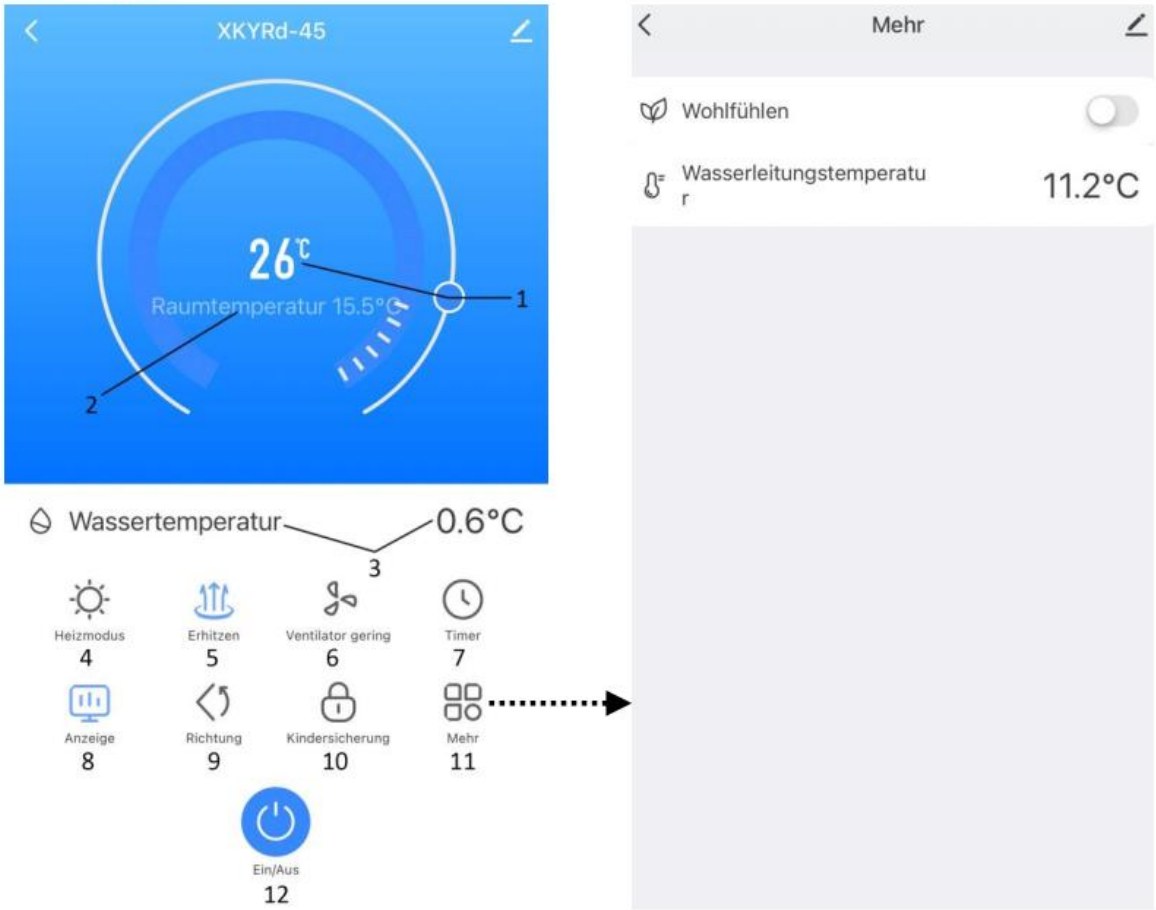


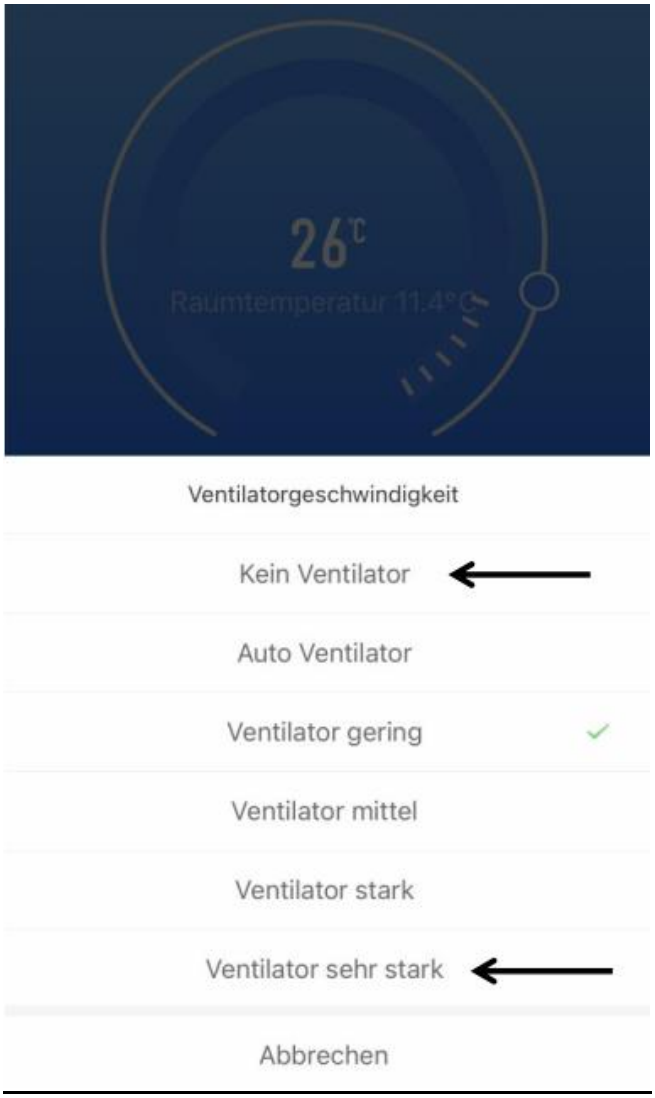
Fig. 6

Steuerschnittstelle

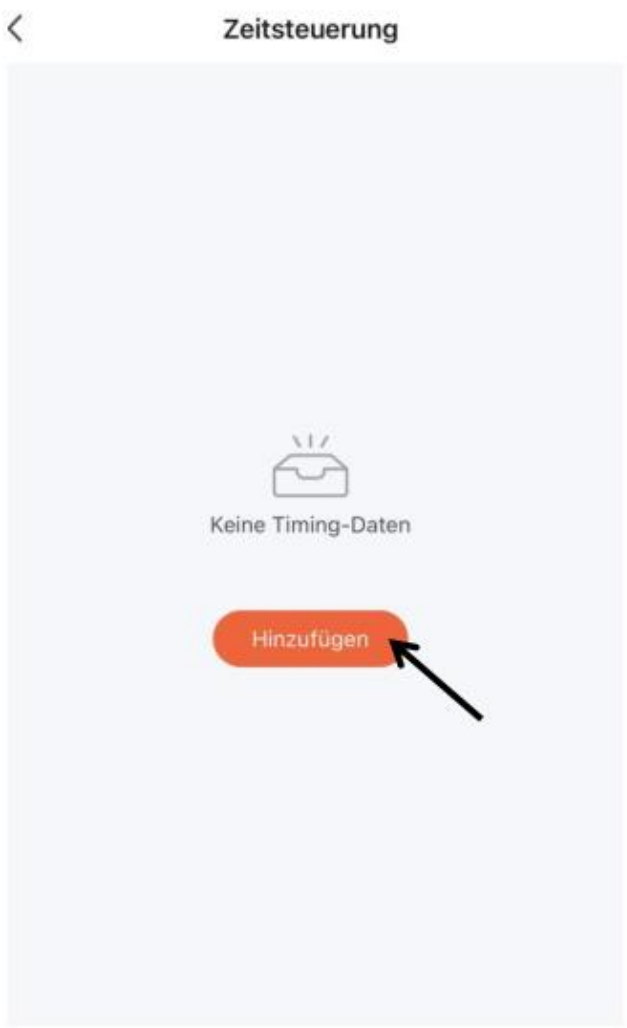


1. Temperature setting
2. Room temperature
3. Tank temperature
4. Selecting the operating mode
5. Auxiliary heating (works only in heating mode)
6. Fan speed selection
7. Timer function
8. Turning on and off the display illumination
9. Swivel function
10. Childproof lock
11. Other functions (no indicative value for this product model)
12. ON/OFF button

Note: The "No fan" and "Very strong fan" options in the fan speed selection list are determined by the application's default setting. They are not valid for this device.



Note: There is no preset button in the app. Users can set start and shutdown times for all modes, including cold storage and hot storage, by adding programs to the timer function.



If you need to set a start time for a mode, proceed as follows:

- Select the start time.
- Tap "On/Off" and select "On."
- Select the desired mode.
- Set other functions such as temperature, swivel function and fan speed.
- Tap "Save" in the upper right corner.

If you need to set a shutdown time for a mode, proceed as follows:

- Select the shutdown time.
- Tap "On/Off" and select "Off."
- Select the desired mode.
- There is no need to set the temperature, fan speed or swivel function.
- Tap "Save" in the upper right corner.

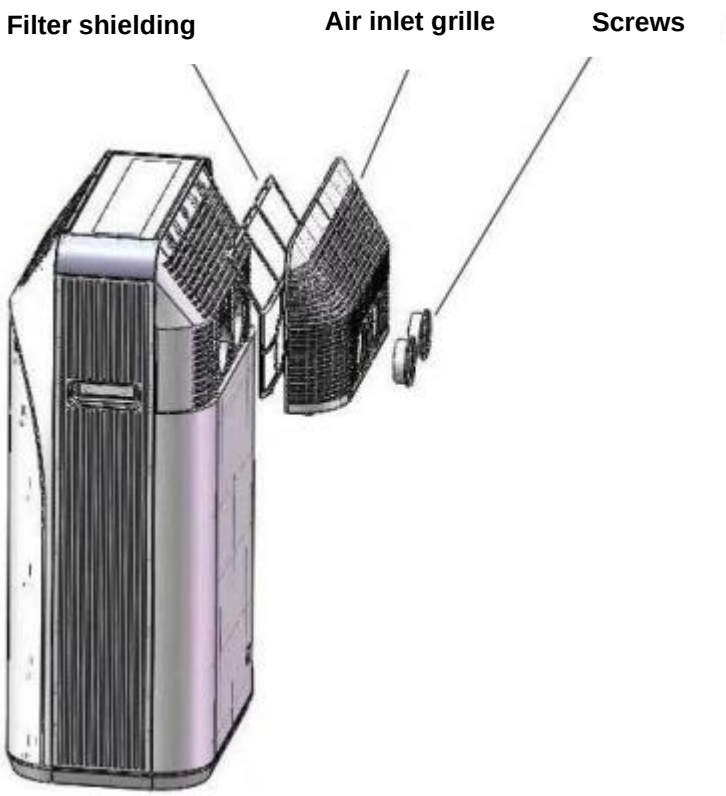
Ensure that all settings fall within the valid options/areas (see "OPERATION" section).

For example, the valid temperature range for heating mode is 16°C to 32°C. However, the list of set temperatures shows -9°C to 32°C in the app. Remember to set a temperature between 16°C and 32°C when selecting the heating mode.

6. Cleaning and care:

- Before cleaning, unplug the appliance from the power outlet.
- Do not use gasoline or other chemicals to clean the device.
- Do not wash the appliance directly. Do not splash water inside the appliance. Wipe with a soft, semi-dry cloth.

6.1 Clean the filter grid:



Unscrew the two screws of the water inlet and outlet at the back. Then remove the rear air inlet grille and remove the filter screen from the rear air inlet grille for cleaning. Place the filter screen in clean water or warm water (about 40°C) with the addition of a mild detergent and store it in a dry place to dry naturally. Then put the filter screen back on.

Note: To clean the filter screen, do not use water at too high a temperature (an appropriate temperature is about 40°C) or harsh detergents (such as alcohol, gasoline, benzene, etc.). To avoid deformation of the filter screen, the cleaned filter screen should be kept away from heat sources and placed in a dry place to dry naturally. It is recommended to clean the filter screen every two weeks.

Replace the water in the tank regularly !

It is recommended to replace the water in the tank at least quarterly through the water drain/inlet.

6.2 Seasonal maintenance

If the device is not used for an extended period of time, perform the following maintenance tasks:

- Drain the water from the tank.
- Clean the filter and reinsert it.
- Cover the device with plastic bags and store it in a cool, dry place.

If it is not used for an extended period of time, keep the following points in mind when using it again:

- Check if there is water in the water tank or if the amount of water meets the requirements. A voice message is played when the device starts. Follow the prompt.
- Check that the power cord is in good condition. Do not use it if it is damaged.

7. Common errors and troubleshooting:

Intelligent fault detection:

Wrong code	Meaning of the code	Solution
E1	Insufficient water in the water tank	Connect the water inlet/outlet hose and press the inlet button to add water.
E2	The water tank is full	Connect the water inlet/outlet hose and press the drain button to drain the water.

Fault maintenance

The following table lists the most common malfunctions and maintenance methods for this mobile air conditioner with energy storage. If malfunctions occur, simple troubleshooting and maintenance can be performed using the table below. If you are unable to solve the problem, contact specialized maintenance personnel.

Problem	Possible reason	Solution
The device does not work	The device is not turned on	Turn on the device.
	The cooling and heating functions do not start.	Check whether the set temperature has been reached
	There was no three-minute wait after the cooling/heating mode was activated or turned off.	Wait more than three minutes.
Poor cooling (heating) effect	Doors and windows are open and there is a cold or heat loss in the room. There are other sources of heat (sources of cold)	Close the door or window and remove the heat source (cold source).
	The filter is dirty.	Clean or replace the filter
	Blocked air inlet or outlet; poor air circulation	Remove the obstruction
The device is noisy	The device is not level	Place it on a flat surface to prevent it from wobbling.
Compressor does not work	Compressor protection (delay on relay activation) is activated.	Wait more than 3 minutes and turn on the appliance after the temperature has dropped.

	If the water temperature does not reach the compressor start condition in cooling mode, the water circuit is used for cooling and the compressor does not start at this time.	When the cooling of the water circuit is complete, the compressor is automatically started for cooling.
	If the water temperature is below 18°C in dehumidification mode, the compressor will not run.	As soon as the water temperature exceeds 18°C, the compressor starts running.
During cold storage, condensation forms on the front and back of the appliance.	If the humidity is high and the water vapor in the air is cold, dew will condense on the front and back of the device.	This is not a malfunction; you can continue to use the device.

Technical data:

Model designation:	WDH-9000K
Cold storage volume:	4.5 kWh
Cold storage consumes electricity:	0.8 kWh
Cooling capacity:	600 - 2500 W
Heat output:	900 - 2500 W
Air circulation:	350 m³/h
Avoid electric shock:	Class I
Rated voltage and frequency:	220-240
Noise development:	33/40/45 dB(A)
Voltage:	220-240V ~ 50Hz
Rated power consumption for cooling:	30 - 800 W
Rated current consumption during cooling:	0,14 - 3,7 A
Rated current consumption for heating (including auxiliary):	600 - 1400 W
Rated current consumption during heating:	2,8 - 6,5 A
Max. Input power:	1400 W
Type of auxiliary heater:	PTC
Auxiliary heater input power:	1000 W
Auxiliary heating current:	4.2 A
Net weight (without water):	40 kg
Circulation of water in the reservoir (to be added by the user):	37 L
Refrigerant:	R290
Max. Working pressure of the heat exchanger:	2.1 MPa
Max. Output pressure:	2 MPa
Max. Side suction pressure:	1 MPa
Maximum allowable pressure on the high pressure side:	2.1 MPa
Maximum allowable pressure on the low pressure side:	1 Mpa
Temperature control range:	16-32°C
Use an ambient temperature range:	5-38°C
Tank pressure rating:	0 MPa
Net dimensions (H/W/D):	92 x 33 x 49.5 mm
Max. Transmission power:	15.3 dBm
Frequency range:	2412-2472 MHz
Frequency band:	2.4 GHz (WLAN) with: < 20 dBm power of transmission

Warranty statement and customer service:

Before delivery, our devices undergo rigorous quality control. If, despite due care, damage has occurred during production or transportation, please return the device to the dealer. In addition to legal rights, the buyer has the option to claim warranty under the following conditions:
We offer a 2-year warranty for the purchased device, starting from the day of sale. If the product is defective, please contact the seller directly.
Defects caused by improper use of the unit and failures due to third-party intervention and repair or installation of non-original parts are not covered by this warranty. Always keep the receipt; without a receipt, the warranty is excluded. Damage caused by failure to follow operating instructions will void the warranty and we are not responsible for any consequential damage. We are not responsible for property damage or injury caused by improper use or failure to follow safety instructions. Damage to accessories will not result in free replacement of the entire appliance. In this case, please contact our customer service department. Breakage of glass or plastic parts is always subject to a charge. Damage to consumables or wear parts, as well as cleaning, maintenance or replacement of such parts, is not covered by the warranty and is therefore subject to a charge.

Compliance:

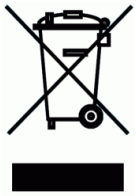
The air conditioner has been tested and has been manufactured in accordance with the following (safety) standards:

"GS" tested by Intertek and, of course, with CE (EMC + LVD) compliance.

Safety tested according to:	EN 55014:2021 EN 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019 EN 55014-2:2021
CE compliance tested according to:	EN 60335-2-40: 2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012 EN 603351:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021 EN 62233:2008
RED compliance tested according to:	EN 301489-1 V2.2.3, EN 301489-17 V3.2.4 EN 300328 V2.2.2 EN IEC 62311:2020

- Health and safety in accordance with Article 3 (1) a
- Electromagnetic compatibility, Article 3 (1) (b)
- Efficient use of the radio spectrum Article 3 (2)

Proper disposal of this product:



Within the EU, this symbol indicates that this product should not be disposed of with household waste. Old appliances contain valuable recyclable materials that should be recycled and not harm the environment or human health through uncontrolled waste disposal. Therefore, please dispose of old appliances through proper collection systems or send the appliance to the place where it was purchased for disposal. They will arrange for recycling of the appliance.

We hope that the use of this device will be enjoyable

Your Aktobis AG

Keep these operating instructions in a safe place !

Notes:

Aktobis AG, Borsigstr. 20, D-63110 Rodgau / Germany
www.AKTOBIS.de
Email: Info@Aktobis.de