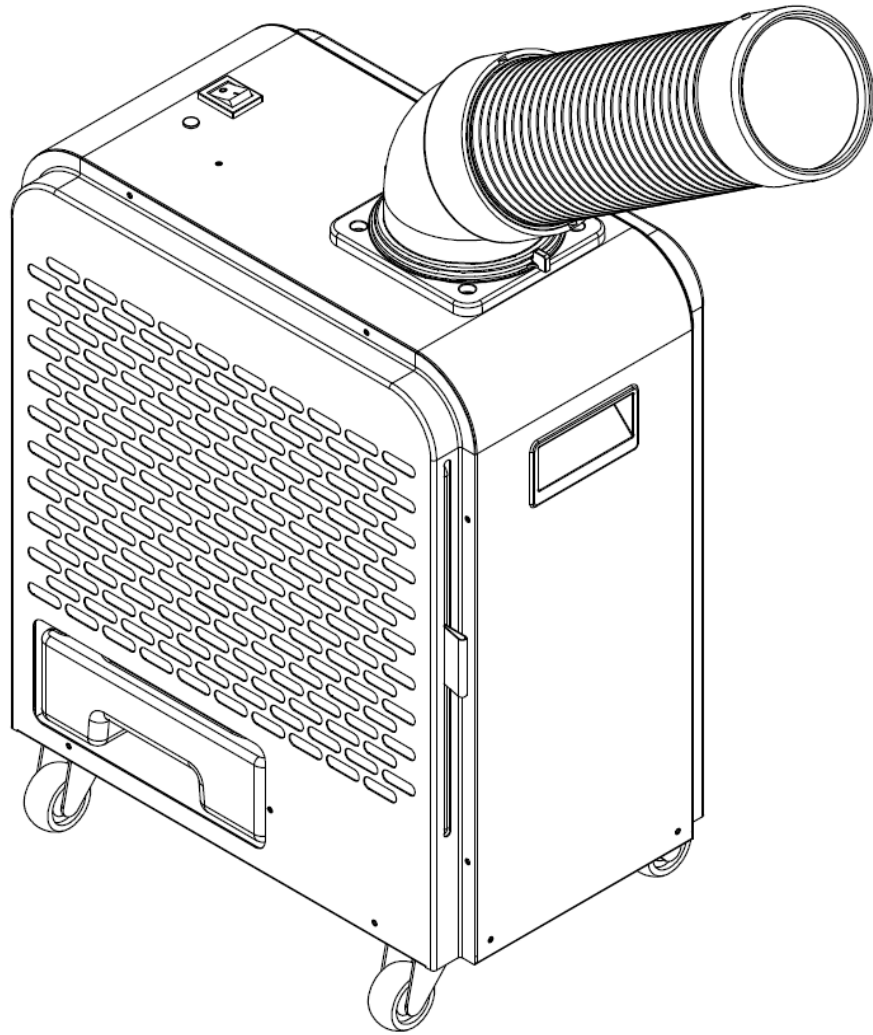


# Operation Manual for BGK1901-20-20-X

## Portable Industrial Air Conditioner



Thank you very much for choosing the product of this brand! In order to use this product safely, correctly and efficiently, please read this manual carefully and keep it properly!

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# 1.Safety Signs and Precautions

## **IMPORTANT SAFEGUARDS**

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.






If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

## **WARNING**

- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.







This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.








- Meanings and Identification of safety signs
- Please read the safety signs and precautions carefully before use.








 <b>Danger</b>	<p>The mis-operation due to ignoring the sign will cause casualties, fire or property losses.</p>
 <b>Warning</b>	<p>The mis-operation due to ignoring the sign will cause casualties, fire or property losses.</p>
 <b>Ban</b>	<p>This sign indicates the forbidden actions.</p>
 <b>Compulso ry</b>	<p>This sign means compulsory contents and instruction.</p>
 <b>Caution</b>	<p>This signs shows that the contents should be attended.</p>

The items indicated in the following columns have the potential to lead to significant consequences depending on the circumstances.

All records are important. Please read and follow them carefully.

	<p>Please do not use the air conditioner in the places where the use or storage of volatile substances (such as diluents, gasoline, kerosene, liquefied gas and other volatile liquids, volatile dust and steam of magnesium, aluminum, lead and other metals) in case of ignition, explosion, fire, burn or other dangers.</p>
	<p>Please do not modify it, or it will lead to machine damage and even fire and other dangers.</p>
	<p>Except the maintenance conducted by the professional maintenance personnel, other people are not allowed to disassemble it in order to avoid fire, electric shock, injury and other safety accidents.</p> <p>For repairs, please contact the local after-sales service department.</p>
	<p>Please do not use it in the places with rain water or snow water nor operate it with wet hands.</p>
	<p>Please use 220-240V~ 50Hz power supply. The application of power supply other than 220-240V ~ 50Hz will lead to the damage of the machine and safety accident.</p>
	<p>Please adapt the separate socket with rated current of 10A. The sharing of the socket with other electric appliances is prone to abnormalities.</p>

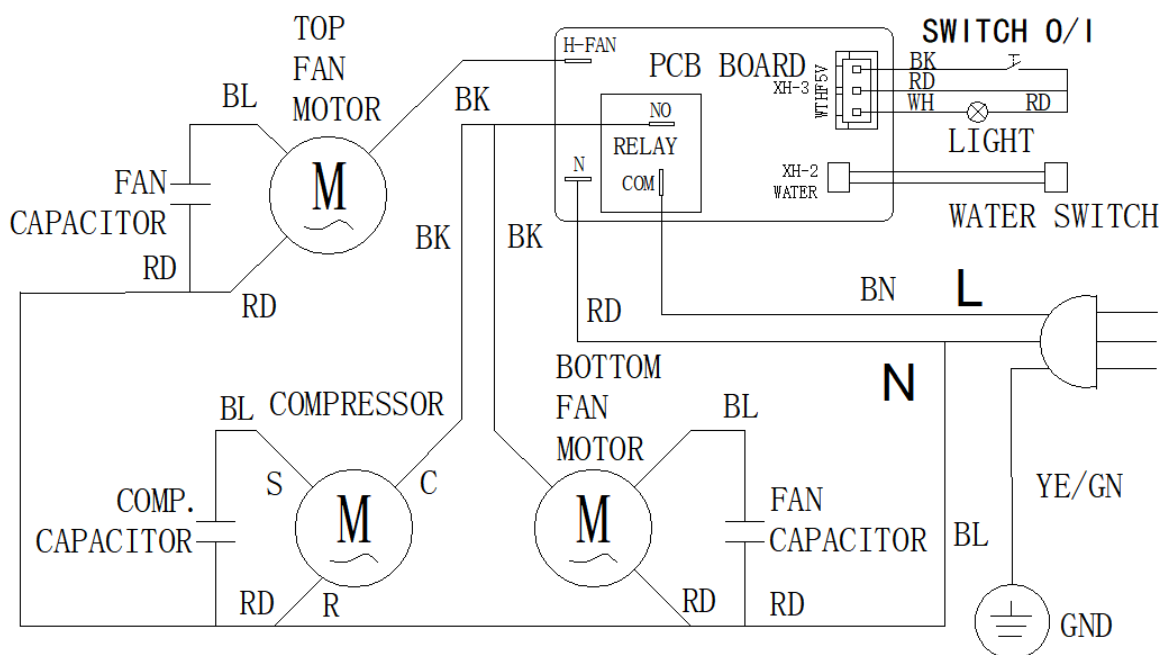
	Electrical installation must be carried out by the professionals in accordance with the equipment standards and wiring requirements, otherwise it will cause safety accidents.
	To prevent deformation of the machine, keep it away from the fire.
	Please equip the machine with a safe and reliable grounding wire and an earth leakage protective device.
	Please use it within the prescribed scope of 20 °C ~ 43 °C, otherwise it may be easy to cause the machine breakdown
	Do not move the air conditioner when the machine is running. Adjust the brake of the caster in the locked state.
	If there is any abnormality (rotation stop, abnormal sound, vibration or smell), please stop using it immediately.
	<p>In order to prevent disasters and injuries, the air conditioner shall not be used in the following places:</p> <ul style="list-style-type: none"> <li>● Vibrating ground</li> <li>● Sloping ground</li> <li>● Stairs, emergency exits, doors, etc.</li> <li>● Places where unstable objects are piled up</li> <li>● Windy or wet places; places with floating dust or</li> </ul>

	metal powder
	Please be sure to hold the plug when unplugging the power plug, and do not pull the power line directly. Otherwise, it may do damage to the plug, generate cause spark or cause safety accidents.
	If you do not use the machine for a long time, please remove the power plug from the socket.
	To prevent electric shock, remove the power plug from the socket during installation and maintenance.
	Please use the dry and clean cloth to wipe the dust on the power plug regularly. If there is dust or moisture on the plug, it will lead to poor contact or electric leakage, thus leading to a safety accident.
	Do not bend, pull, twist, clamp, alter or modify the power line. Otherwise, it will cause fire, electric shock and other accidents.
	Do not use it on ships, vehicles and other unintended purposes. Otherwise it will cause a safety accident.
	Please do not put your fingers and hands into the air outlets and air intakes.

## 2. Technical Parameters

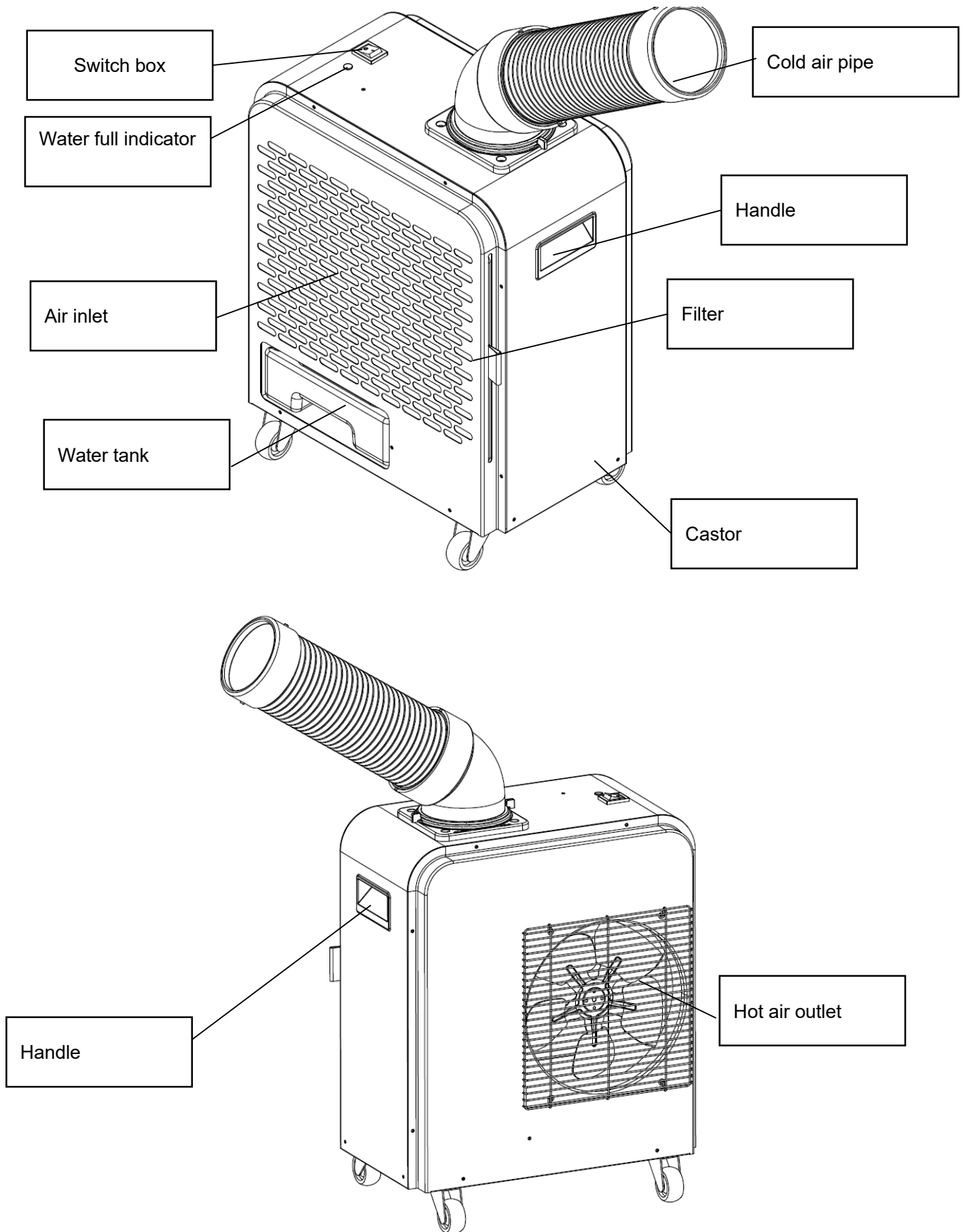
Model	BGK1901-20-20-X
Power Supply	220-240V/50Hz
Refrigerating Capacity	2000W
Rated Power	700W
Rated Current	3.2A
Air Volume	230m³/h
Working Pressure on Suction/Discharge Side	1.0/2.5MPa
Maximum Working Pressure of Heat Exchanger	2.5MPa
Refrigerant/ Refrigerant Charge	R290/180g
Operating Condition	20℃～43℃
Net Weight	25.5kg
Gross Weight	28.3kg
Product Dimensions	465*287*586mm

## 3. Electrical Schematic Diagram



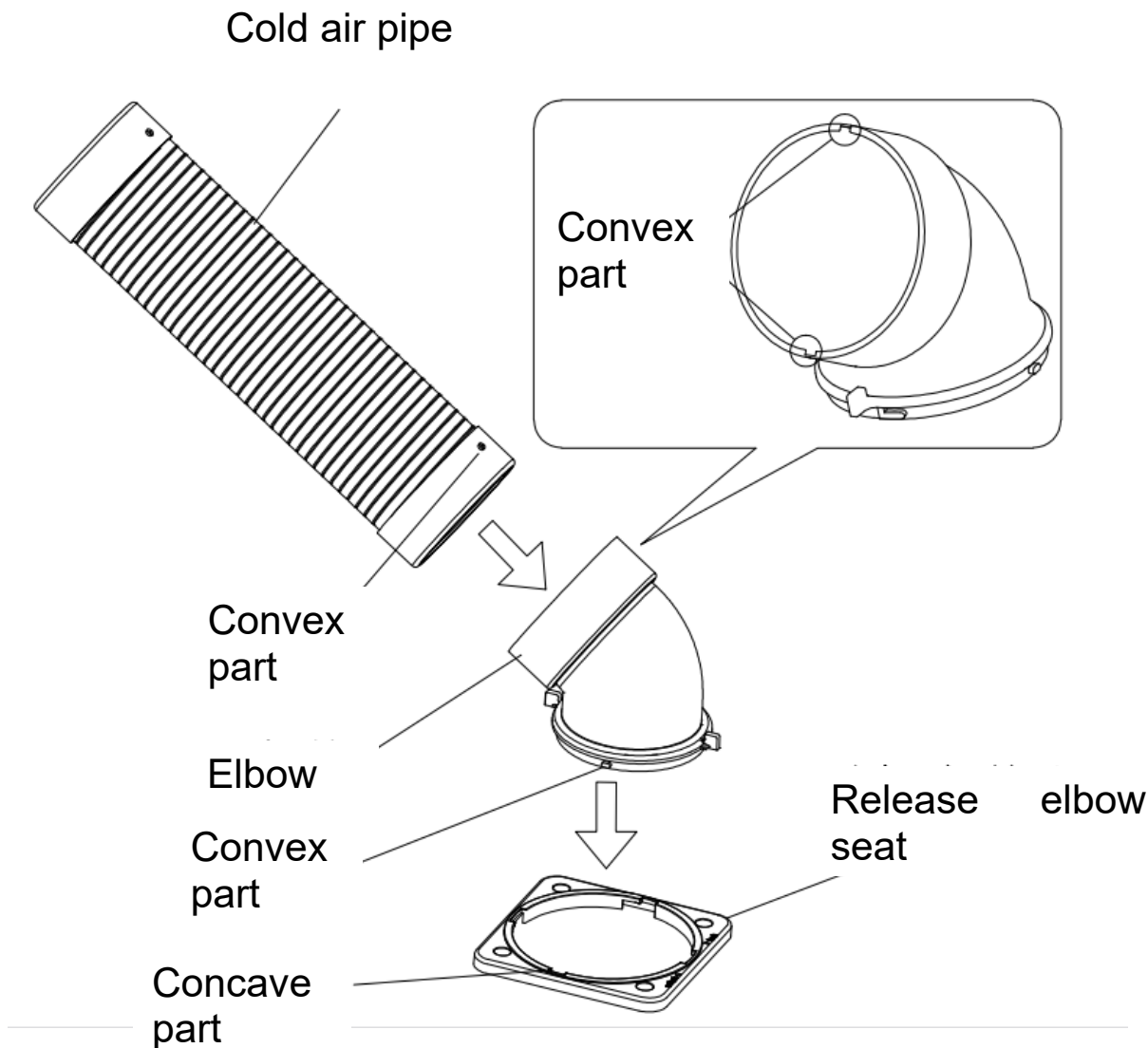


## 4. Production Structure



## 5. Installation Method

- Installation method of elbow: Align the convex part of the elbow with the concave part of the release elbow seat installed on the machine, then insert it and rotate it counterclockwise. When you hear a "click", it means that the elbow is installed in place (Figure 1).
- Installation method of cold air pipe: Insert the convex part of the cold air pipe into the concave part of the elbow and rotate it to the left in place (Figure 1).



(Fig.1)

Please make sure that the air outlet is unblocked. Do not get foreign matter to fall into the air pipe.

## 6.Operation Method

- Operation Method

- 1.Press down the rocker switch “I” in the upper part of the machine to start the compressor for the cooling operation immediately, and start the fan at the same time.
2. When the rocker switch "O" is pressed down, the machine will shut down and stop running.

### Notes

- 1.The air conditioner has a 3-minute delay protection function for the compressor. Restart after shutdown, and the compressor will automatically delay for 3 minutes to start. Before that, only the fan will send out natural air.
2. Please switch off the power to turn off the air conditioner before moving the machine.

- Overheating and overloading protection of compressor

The compressor will overheat and overload due to too high or too low voltage, high ambient temperature and other reasons. In order to protect the compressor, the overload protector will act and cut off the power supply of the compressor.

### Notes

When the overload protection device acts, the machine only blows out natural wind and does not provide the cold air. In case of frequent action of thermal

overload protection device, please find out and remove the cause before using the machine.

- Water full alarm and treatment

1. When the water storage in the water tank reaches about 3L, the water full indicator light (red) will automatically light up, and the buzzer will give an alarm sound, at this time, the compressor and the fan will stop working.
2. When the water full indicator light (red) will light up, please press the rocker switch "O" to turn the machine off. At this time, the water full indicator light (red) will turn off. At the same time, the buzzer will cancel the alarm, and then draw out the water tank. After pouring out the water, re-install the water tank. Finally, start the air conditioner and it will work normally.

#### Notes

1. Do not move the machine when the water is full. Please pour out the water before moving.
2. Please put the water tank back into the machine in time after pouring water and install it in place. If the water tank is not put in place, there will be no alarm when the water is full or the water will flow on the ground.
3. The compressor has a 3-minute delay protection function. Start the compressor after pouring water. The compressor will automatically delay for 3 minutes to start. Before that, only the fan will send out natural air.

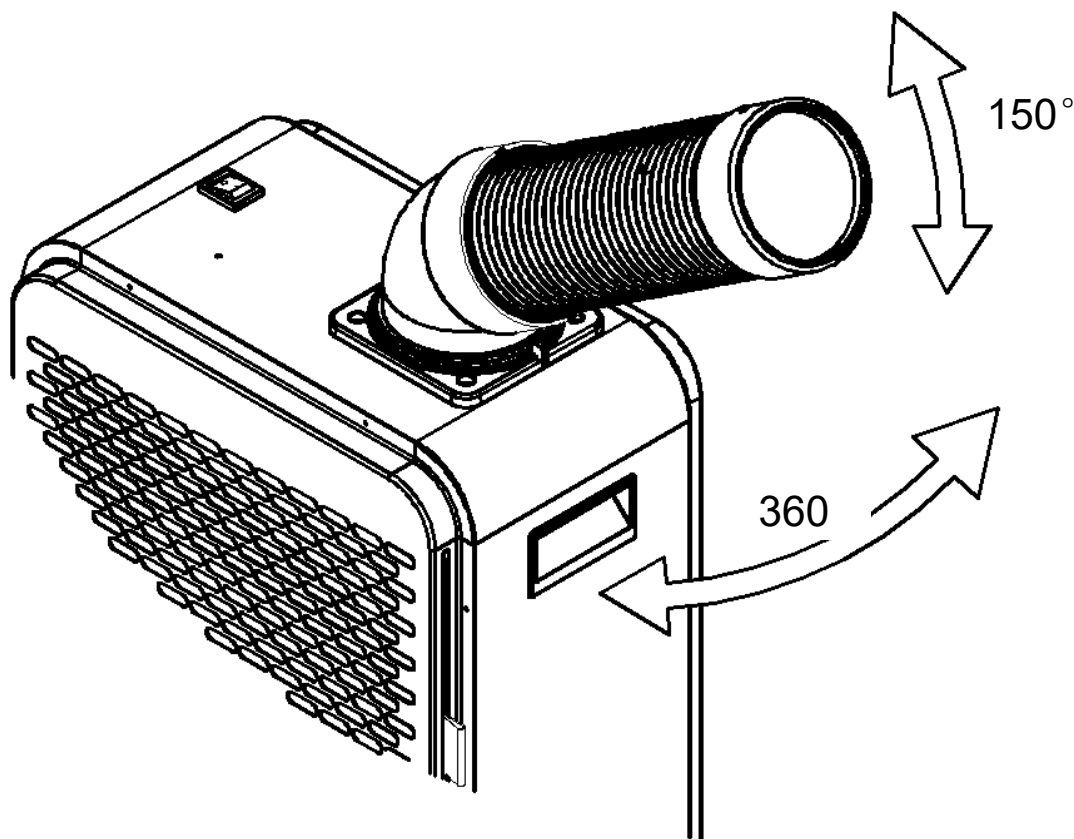
- Adjustment and its scope of outlet air direction

The cold air pipe can rotate to left and right with the angle about 360 degrees.

The cold air pipe can be moved up and down in a range of about 150 degrees.

## Notes

When adjusting the air outlet angle of the cold air pipe, please hold the elbow for adjustment, and never directly hold the cold air pipe for adjustment.



## 7. Water Tank

- How to use the water tank: When the water level in the water tank is about 2.5cm from the upper end of the water tank, The water storage in the water tank reaches about 3L, the water full indicator light (red) will automatically light up,

and the buzzer will give an alarm sound, please close the air conditioner first and then draw out the water tank. After emptying the water tank, re-install the water tank. The air conditioner can be started and work normally.

Note:

1. Do not move the machine when the water is full. Please pour out the water before moving.
2. The compressor has a 3-minute delay protection function. Start the compressor after pouring water. The compressor will automatically delay for 3 minutes to start. Before that, only the fan will send out natural air.

## 8. Requirements for Machine's Work Place

Special notes for user:

- When using the machine, make sure that the air inlet and cold air pipe should be 30cm away from the wall surface or other obstructions or more, and the hot air outlet should be 80cm away from obstructions or more.
- The machine should be placed in a flat place before use and it is prohibited to place it on the slope, uneven floor, doors and other similar places to operate it so as not to cause safety accidents.
- It is forbidden to use it in wet places with rain water and snow water to avoid safety accidents.

Note: Do not place obstacles in front of the air inlet, cold air pipe and hot air outlet. Please do not aim the hot air outlet at the objects with poor heat resistance.

## 9. Maintenance and Inspection

- Please clean the filter regularly. If there is dust, dirt and other sundries on the filter, it will affect the supply air rate, and it is easy to cause frosting in the heat exchanger, which leads to the machine failure.
- When cleaning the filter, please use a vacuum cleaner to absorb the dust on the filter, and then wash the filter with water, and use it after it is completely dry.

Note: When cleaning the surface of the machine, do not use the thinner, volatile oil, chemicals and other items that may do damage to the surface of the machine.

- Please check whether the power cord is damaged. If it is damaged, please replace it immediately.**Warning: If the power cord is damaged, it must be replaced by a professional from the manufacturer, its maintenance department or similar department to avoid danger.**
- Please confirm whether the screws are loose and tighten them when necessary.
- Before the machine is idle for a long time, please empty the water tank and do not store it until the water tank is dry.
- Please do not store the machine horizontally or upside down.
- Please keep the machine out of the reach of children and keep it away from high temperature, rain and direct sunlight.

Note: During maintenance and inspection, be sure to unplug the power plug when replacing parts.

Be sure to unplug the power plug in maintenance process of the machine.

## 10. Fault Causes and Solutions



1. In case of any fault of the air conditioner, please immediately cut off the power supply and unplug the power plug from the socket to check the following items:

Symptom	Reason Analysis	Troubleshooting
Out of operation	Whether the power plug is loose or falls off	Please insert the power plug into the power socket in place
	The power fuse is burnt out	Ask the professional to replace the fuse
	Water tank full	pour out the water in the water tank
Refrigeration failure	Filth blockage on the surface of heat exchanger	Clean up the surface of the heat exchanger to make it ventilate and heatdissipation
	Hot exhaust motor fault	Repair the hot exhaust motor
	Too high ambient temperature	Please use it in the proper place
	Compressor capacitor damaged	Replace the compressor capacitor
	Refrigerating system pipe blocked	Replace the pipe system
	Too low or too high input voltage	Please select the proper voltage
	Overheating/overloading protection of compressor	Restart it after cooling it down
	Compressor motor fault	Repair or replace the compressor
	Continuous on / off, compressor not running	Wait for 3 minutes
Water leakage	Drain pipe blocked	Dredge the drain pipe
	Water tank is not installed in the place	Replace it again
	There is dust or dirt on the filter	Please clean up the filter
	The water in the water tank overflows	Pour away the water in time
	Float stuck in water tank	Shake the water tank to make the float move
	Water tank damage	Replace or repair the water tank



## **Correct Disposal of this product**

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## **Warranty Information**

The manufacturer provides warranty in accordance with the legislation of the customer's own country of residence, with a minimum of 1 year (Germany: 2 years), starting from the date on which the appliance is sold to the end user.

The warranty only covers defects in material or workmanship.

The repairs under warranty may only be carried out by an authorized service centre. When making a claim under the warranty, the original bill of purchase (with purchase date) must be submitted.

The warranty will not apply in cases of:

- Normal wear and tear
- Incorrect use, e.g. overloading of the appliance, use of non-approved accessories
- Use of force, damage caused by external influences
- Damage caused by non-observance of the user manual, e.g. connection to an unsuitable mains supply or non-compliance with the installation instructions.
- Partially or completely dismantled appliances