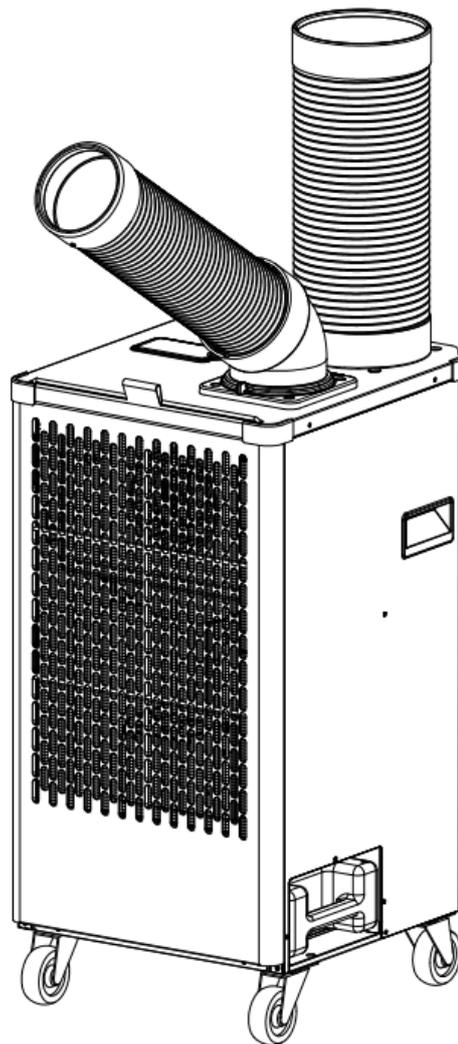




Mobile Industrial Air Conditioner

User Manual

Models: AC27, AC45, AC65



Thank you very much for choosing our LAVOR Pro Mobile Workshop Cooler.

To ensure safe and efficient use of your new Cooler, please read the Manual carefully.

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I. Safety Signs and Precautions

- Meaning and identification of signs
- Please read the safety signs and precautions carefully before using the machine.

 Danger	Incorrect use while ignoring the sign may cause casualty accident, fire and other property losses.
 Warning	Incorrect use while ignoring the sign may cause casualty accident, fire and other property losses.
 Forbidden	The sign indicates actions that are forbidden.
 Constraint	The sign indicates constraint and instruction.
	The sign indicates and urges to notice the contents.

Attention

Matters prompted in the following column may possibly cause grave consequences due to different situations.

All records are important. Please do read them carefully and observe.

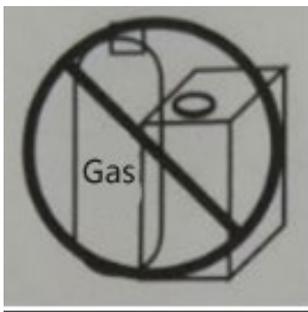
	If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
	This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge 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



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



Disconnect the appliance from its power source during service and when replacing parts



Please do not use air cooler in places that use or store volatile substances (diluent, gasoline, kerosene, liquefied gas and other volatile liquids; magnesium, aluminum, lead and other volatile dusts and vapors) to avoid possible ignition, explosion, fire and burn.



Please do not remold for use, which may lead to machine breakdown or even fire, etc.



Except for professional maintenance personnel, other personnel are not allowed to assemble or disassemble to avoid fire, electrocution, injury and other safety accidents.

If repair is needed, please contact the after-sales service department at the place of purchase.

	<p>Please do not use it in places with rain and snow water. Do not operate with wet hands.</p>
	<p>Please use 220-240V~ 50Hz, power supply; Otherwise there might be machine breakdown or safety accident.</p>
	<p>Please separately use socket of 20A rated current. Use of socket with other electrical appliances may cause error.</p>
	<p>Please do assign professionals to operate according to equipment standard and wiring upon installation; Otherwise there may be safety accident.</p>
	<p>Please do not get near fire source to avoid deformation of machine.</p>
	<p>Please equip safe and reliable ground lead and use leakage protector.</p>
	<p>Please use it in specified range of 18°C~45°C; otherwise there may be machine breakdown.</p>

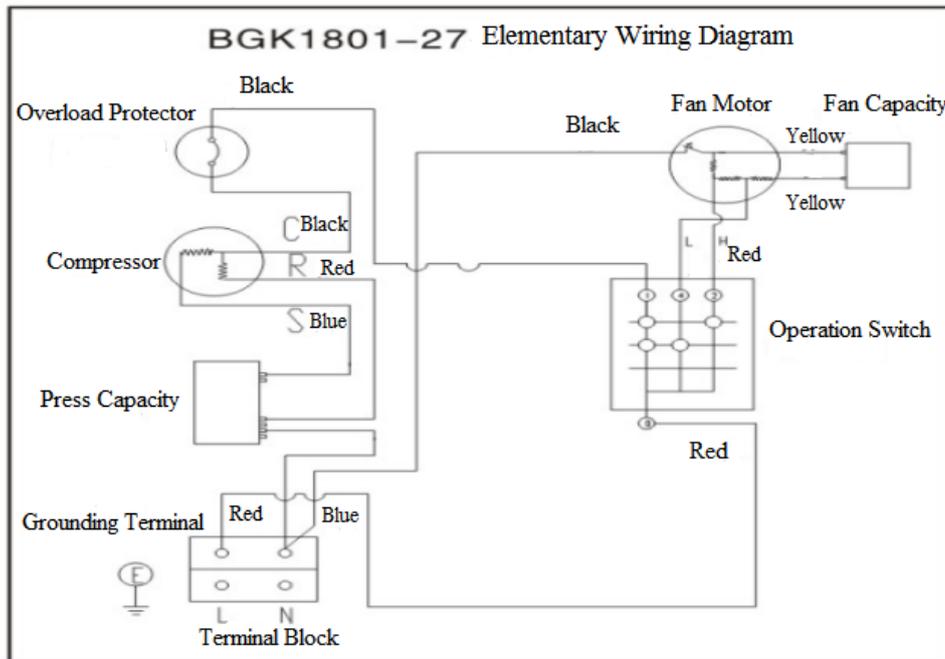
	<p>Do not move air cooler when the machine is running and set the brake of trundle to locked status.</p>
	<p>Please immediately stop using it in case of error (stopped rotation, strange noise, improper vibration and unusual odor).</p>
	<p>To prevent disaster and damage, air cooler cannot be used in the following places:</p> <ul style="list-style-type: none">● Vibrating floor● Gradient floor● Stairway, emergency exit and house exit and entrance, etc.● Place with unstable articles piled around● Windy and moist place or place with floating metal powder
	<p>Please grip the plug when pulling it off instead of pulling the power line directly. Otherwise it may damage the plug, or cause sparkle or safety accident.</p>

	<p>Please pull the power plug off the socket if the machine is not used for long terms.</p>
	<p>To prevent electrocution, please pull the power plug off the socket upon installation and maintenance.</p>
	<p>Please use dry and clean cloth to rub down the dust on power plug on schedule. Dusty or moist plug may cause poor contact or electric leakage, leading to safety accident.</p>
	<p>Do not haphazardly bend, drag, twist, pinch or change the power line. Do not overload the power line. Otherwise there may be fire, electrocution and other accidents.</p>
	<p>Please do not use it as air conditioner for boat and vehicle, etc. Otherwise there may be safety accident.</p>
	<p>Please do not stick finger or hand in the vent.</p>

II. Technical Parameters

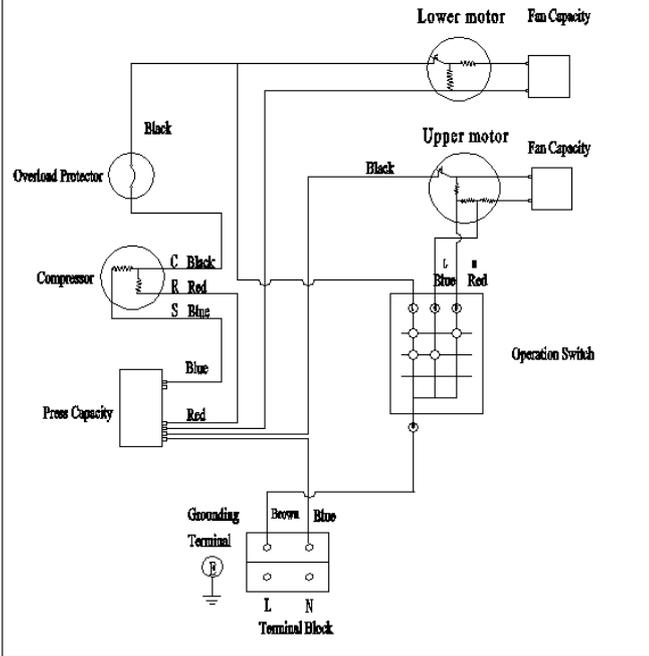
Model	AC27	AC45	AC65
Power	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Refrigerating Capacity	2700W	4500W	6500W
Rated Power	950W	2000W	3000W
Rated Current	4.2A	9A	13.5A
Blast Capacity	400m ³ /h	800m ³ /h	1200m ³ /h
Working Pressure on Suction/Exhaust Side	2.5/4.5MPa	2.5/4.5MPa	2.5/4.5MPa
Max Working Pressure of Heat Exchanger	4.5MPa	4.5MPa	4.5MPa
Refrigerant/Charge Quantity	R410a/460g	R410a/800g	R410a/1050g
Service Environment	18°C~45°C	18°C~45°C	18°C~45°C
Net Weight	42kg	70kg	100kg
Gross Weight	47kg	75kg	155kg
External Dimension	405 *430 *855	610*570*1110mm	740*660*1730mm

III. Electrical Schematic Diagram

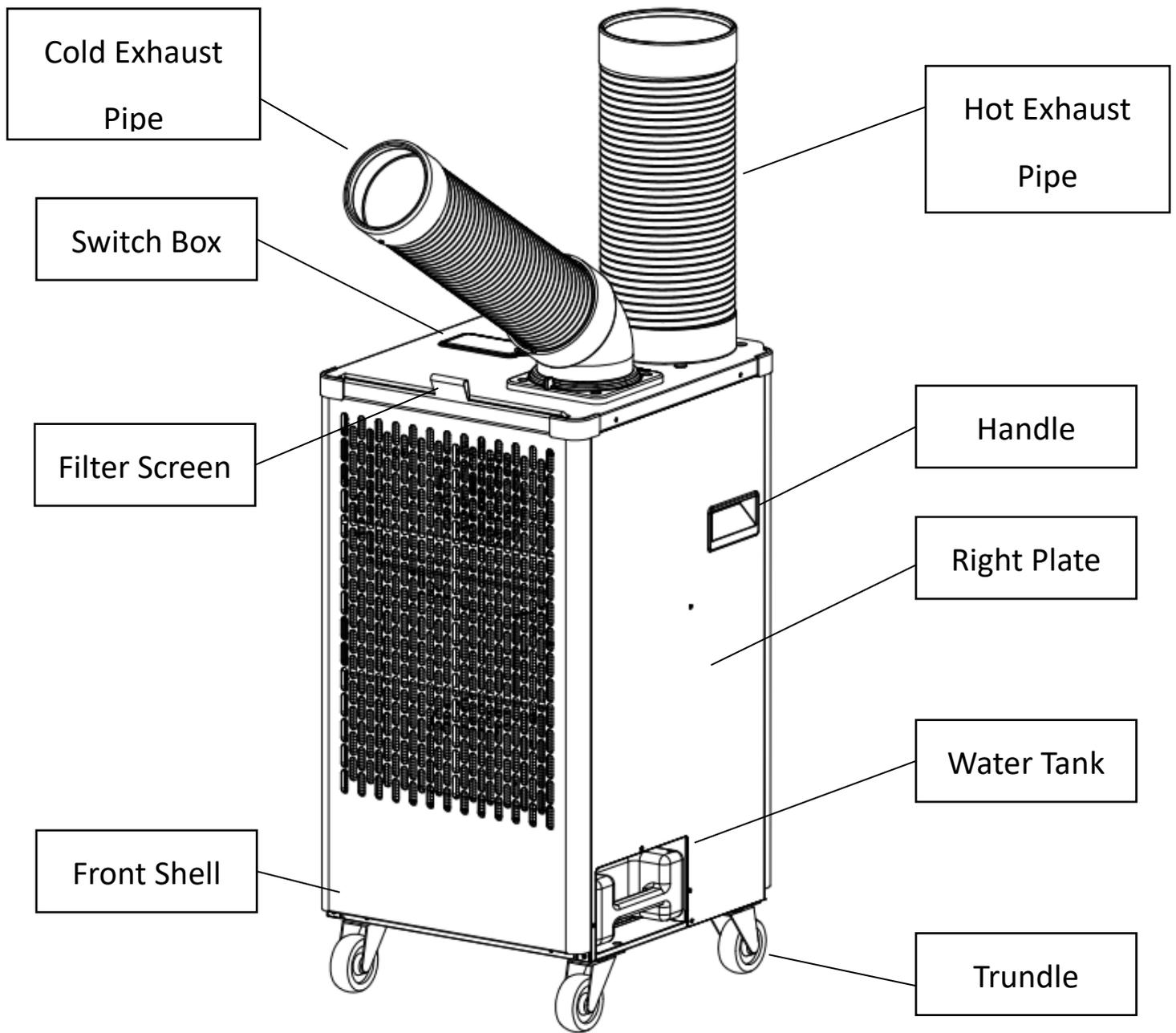


Model: BGK1801-45, BGK1801-65 Elementary Wiring Diagram

Elementary Wiring Diagram



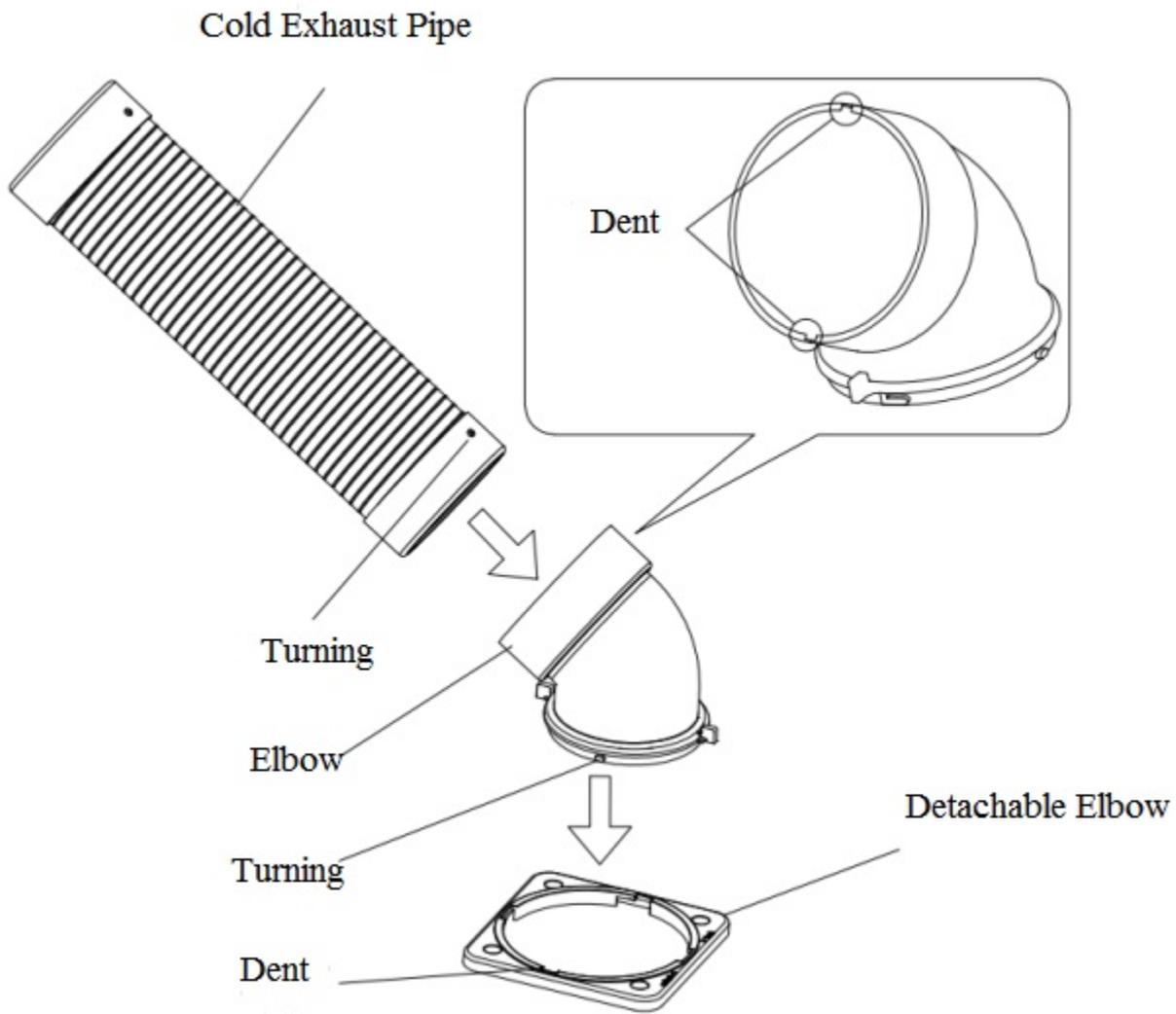
IV. Product Structure



V. Installation Method

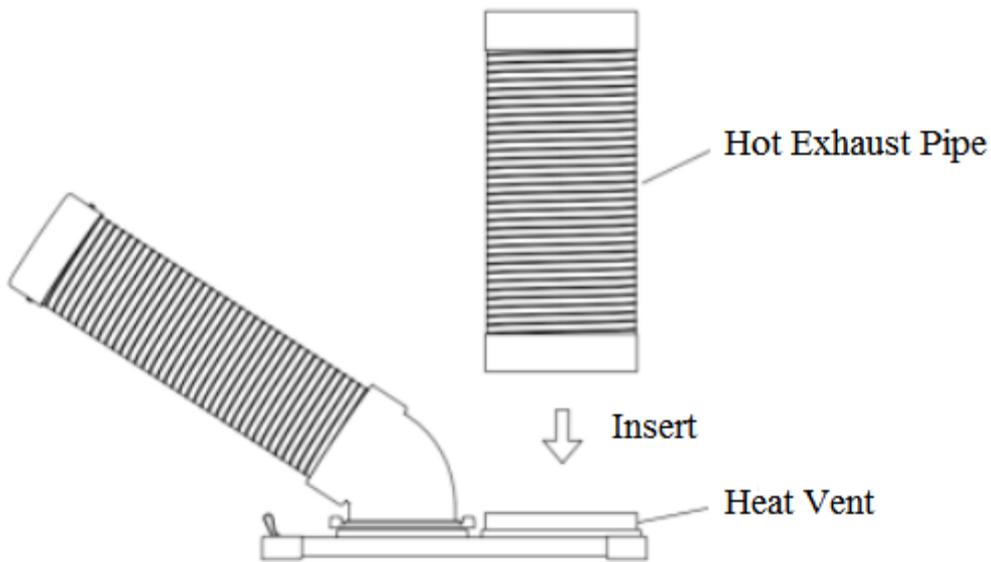
- Installation method of elbow: point the turning of the elbow to the dent of the detachable elbow base on the machine, insert it in and rotate it anticlockwise. The elbow is in place when a sound of crack is heard (Fig.1).

- Installation method of cold exhaust pipe: point the turning of the cold exhaust pipe to the dent of the cold exhaust pipe, insert it in and rotate it to the left to make it in place (Fig.1).



(Fig. 1)

- Installation of hot exhaust pipe: insert the hot exhaust pipe in the heat vent. Do install it in place to guarantee stable and firm hot exhaust pipe (Fig.2).



(Fig. 2)

- **Change of Connection of Power Line**

Warning: if the line cord is broken, the power line must be replaced by professionals from the manufacturer, its maintenance department or similar department to avoid danger.

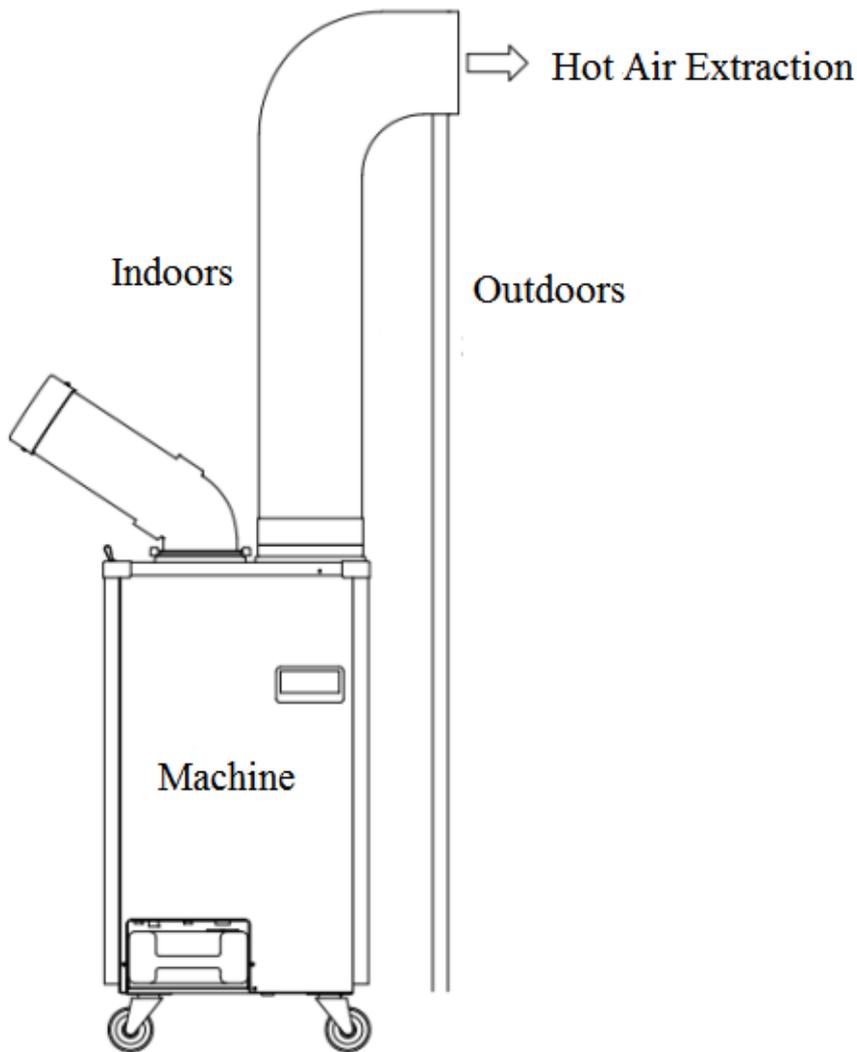
VI. Installation Method of Extended Hot Exhaust Pipe

- **Install extended pipe to exhaust the heat to outdoors.**
- **Ask professional to cut a hole on the wall to install the hot exhaust pipe.**

Please do guarantee smooth heat extraction of the hot exhaust pipe.

Please do not fall foreign object in the hot exhaust pipe.

The outdoor opening of the hot exhaust pipe shall be equipped with rainwater-proof backflow device (or bend a certain angle downward directly).



※ Extended hot exhaust pipe shall be separately purchased from the Company. The specification shall be $\Phi 160 \times 3\text{m}$.

Please ensure smooth heat extraction of the hot exhaust pipe.

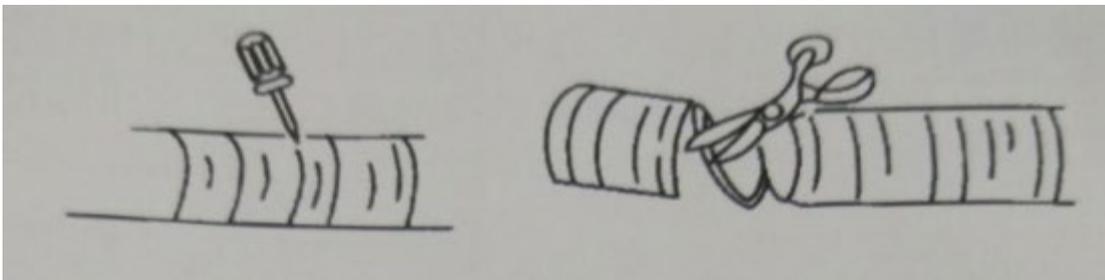
Please do not fall foreign object in the hot exhaust pipe. The outdoor opening of the hot exhaust pipe shall be equipped with rainwater-proof backflow device (or bend a certain angle downward directly).

※ Extended hot exhaust pipe shall be separately purchased from the Company. The specification shall be $\Phi 160 \times 3\text{m}$.

● Method of Cutting of Extended Pipe

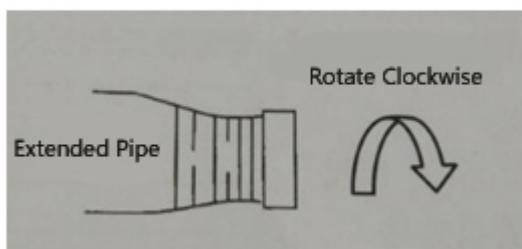
Please cut the extended pipe based on the extended length needed.

As is shown in the figure, separate the exhaust pipe from the groove with a flathead screwdriver or other sharp tools at where it is supposed to be cut, and cut it off with pliers or scissors.



● Method of Reducing the Diameter of Extended Pipe

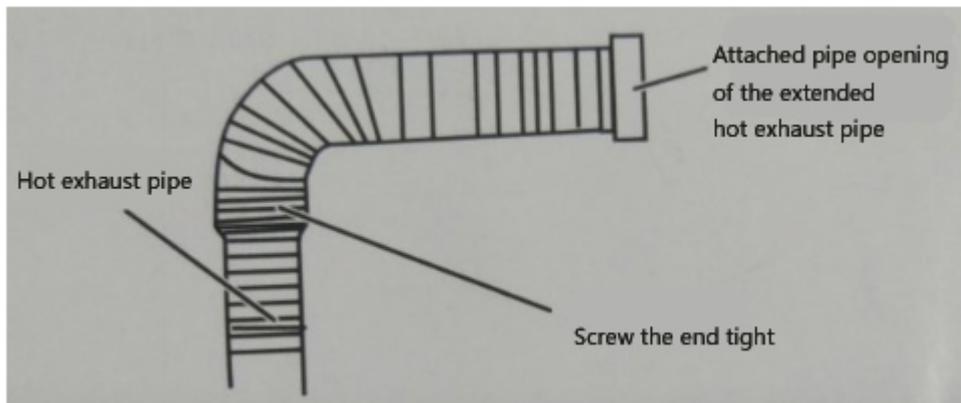
Rotate the exhaust pipe clockwise to reduce the diameter of pipe opening.



● Method of Connecting Extended Pipe

Detach the joint of the hot exhaust pipe and cover the extended pipe outside the hot exhaust pipe. Screw the end tight and cling to it.

Use adhesive tape to fixate it if necessary. Use binder to fixate the attached pipe opening of the extended hot exhaust pipe.



VII. Operation Method

● Operation Method and Blast Capacity Choosing

Rotate the selecting switch on the cover of the machine to  or  and the compressor

immediately launches refrigeration. In the meantime, start the draught fan to blow air out.

The blast capacity has  or  for customer to choose from.

- When the switch is rotated to “0”, the machine is off and stops running.

Attention

Please turn the selecting switch off and cut the power off before moving the machine.

When the machine is off, it may be restarted after 3 minutes.

- Compressor Overheat and Overload Protection

Overly high or low voltage and overly high environment temperature may cause the compressor to overhead and overload. To protect the compressor, the overload protector will be activated to cut the power of the compressor off.

Attention

When the overload protector is activated, the machine only blows out natural wind but does not refrigerate. If the overload protector is activated frequently, please find out and eliminate the cause before using the machine.

- Range and Operation of Adjustment of Air-out Direction

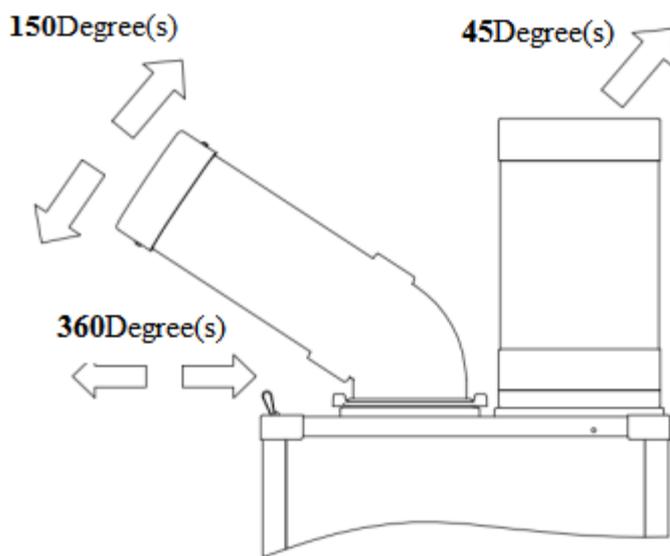
Cold air pipe may rotate left or right to 360 degrees (hot air pipe is installed).

Cold air pipe may be moved up or down to 150 degrees.

The range of adjustment angle for hot air pipe is 45 degrees.

Attention

Please adjust the cold exhaust pipe in advance and use the air-out direction of the hot exhaust pipe later. When adjusting the air-out angle of cold exhaust pipe, please grip the elbow for adjustment and do not hold the cold exhaust pipe directly.



VIII. Water Tank

- Method of using water tank: when the water in the tank and the end face on the tank

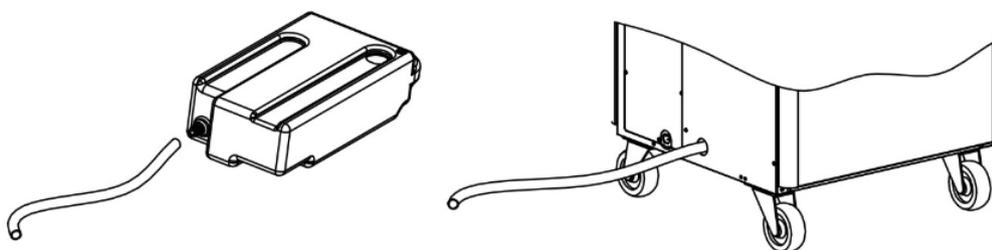
handle are parallel, set the gear to 0, pour the water out and reinstall the water tank. Choose a gear to make it work properly.

Attention: Please do not move the machine when the water is full. Pour the water before moving it.

IX. Drainpipe (Optional)

- Condensate water may be discharged from the drainpipe directly.

Method: take the water tank out and put the drainpipe directly on the outfall of the tank to cross the round hole on the corresponding side plate.



X. Requirement for Machine Operating Site

Special Reminder for Users:

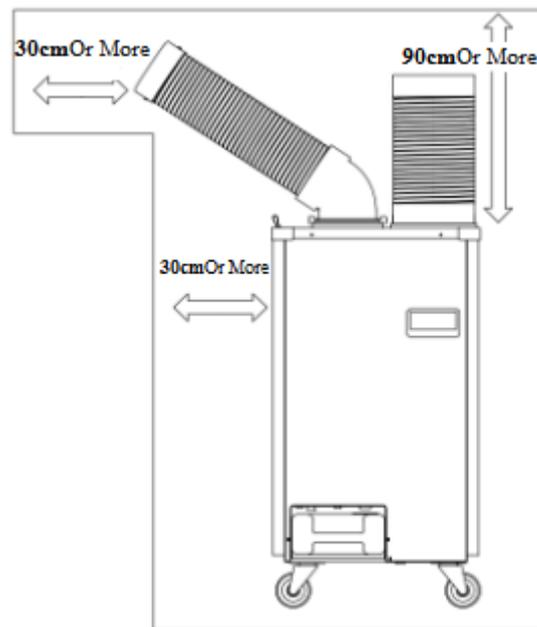
- When the machine is running, both the filter screen and the cold air pipe shall be
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30cm or more from the wall or other obstacles, and the hot exhaust pipe shall be 80cm or more from the roof or obstacle.

- The machine shall be placed on flat ground. To avoid safety accident, it is prohibited to place it on slope, rugged terrace, or house entrance or exit, etc.

- To avoid safety accident, it is prohibited to use it in rain, snow water and other humid sites.

Attention: Please do not place obstacle in front of the filter screen or air outlet of the cold air pipe and the hot exhaust pipe. Please do not point the hot air from the hot exhaust pipe to articles with poor heat resistance.



XI. Maintenance and Check

- Please clean the filter screen on schedule. Dust and dirt on the filter screen may affect the air supply and cause frosting of heat exchanger, leading to machine

breakdown.

- For filter screen cleaning, please use a vacuum cleaner to suck the dust out on the filter screen and then use clean water to wash it. Use it when it is completely dry.

Attention: When cleaning machine surfaces, please do not use diluents, volatile oil, drugs and other articles that may damage the surfaces.

- Please check if the power line is broken. If so, replace it immediately.
- Please check if any screw is loose. If so, screw it tight.
- Before long-term shut-down of machine, please pour the water in the reservoir out and save it when the tank is dry.
- Please do not place the machine horizontally or upside down.
- Please put the machine where kids cannot approach. In the meantime, avoid storing it in places with high temperature, rain splash or direct sunlight.

Attention: Please do pull the power plug out when changing parts during maintenance and checks.

Please do pull the power plug out when keeping the machine.

XII. Fault Cause and Countermeasure

1. If the air conditioner breaks down, please immediately cut the power off and pull the power plug out from the socket to check the following matters:

Fault	Cause Analysis	Troubleshooting
Out-of-Operation	If the power plug is loose or falls off	Please insert the power plug firm in the power socket
	Fuse is burnt	Ask professional to replace the fuse
Out-of-Refrigeration	Heat exchanger surface is blocked by filth	Clean heat exchanger surface to ventilate it to give off heat
	Hot exhaust blower fails	Repair or replace hot exhaust blower
	External temperature is too high	Please use it in proper place
	Compressor capacitor is damaged	Replace compressor capacitor
	Refrigerating system pipeline is clogged	Replace pipeline system
	Overly high or low input voltage	Please choose proper voltage
	Compressor overheat and overload protection fails	Restart after cooling
	Compressor motor fails	Repair or replace compressor
Water Leakage	Drainpipe opening is clogged	Dredge drainpipe
	Water tank position is not in place	Reset it
	Filter screen has dust and filth	Please clean filter screen
	Water tank is full	Poor water out in a timely manner

XIII. 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 environmentally safe recycling.