



NAKATOMI

KOOLZONE

MOBILE SPOT COOLER

USER MANUAL FOR **SAC-4500**



THANK YOU FOR PURCHASING THE KOOLZONE MOBILE SPOT COOLER.
PLEASE READ THE INSTRUCTIONS BEFORE USING.
AND PLEASE KEEP THESE INSTRUCTIONS FOR REFERENCE.



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【 Safety Pre-Cautions 】


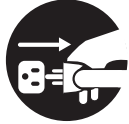
Please read manual instructions before using.

Please observe the following pre-cautions.









Please keep manual instructions where user can always find it.

Important marks and their meanings are below.

Marks		Meaning
	Cautions	It means the possibility for death or injury from incorrect operation.
	Notes	It means the possibility for personal injury or damage to the materials if not use in the right way.

Sample of signs		Meaning
	NO Disassembly	This mark means prohibition for this act. As for the details will be expressed with cautions words and charts
	Pull out the plug	This mark means action is to be done. The details will be expressed in words and charts.

○ Cautions

	Do not dismantle the machine for fear of fire, electric shock and injury.		Do not use any other voltage except 115V for fear of fire or electric shock.
	Do not disassemble or repair the machine for fear of fire, electric shock and injury. Please contact your store of purchasing or customer service center.		Please pull out the plug from the socket when fitting. Do not with wet hands for fear of electric shock.
	Do not operate near inflammable and explosive things, such as kerosene, gasoline, thinner benzene or paint for fear of fire and explosion.		Please wipe the socket frequently with dry clean cloth. Because dust or humidity may cause bad insulation, and fire may occur in this condition.
	Use wall socket rated of above 20A . If using with other machine in same socket, the socket may generate heat, and may ignite.		Do not spray water or detergent on the electric parts for fear of fire or shock.

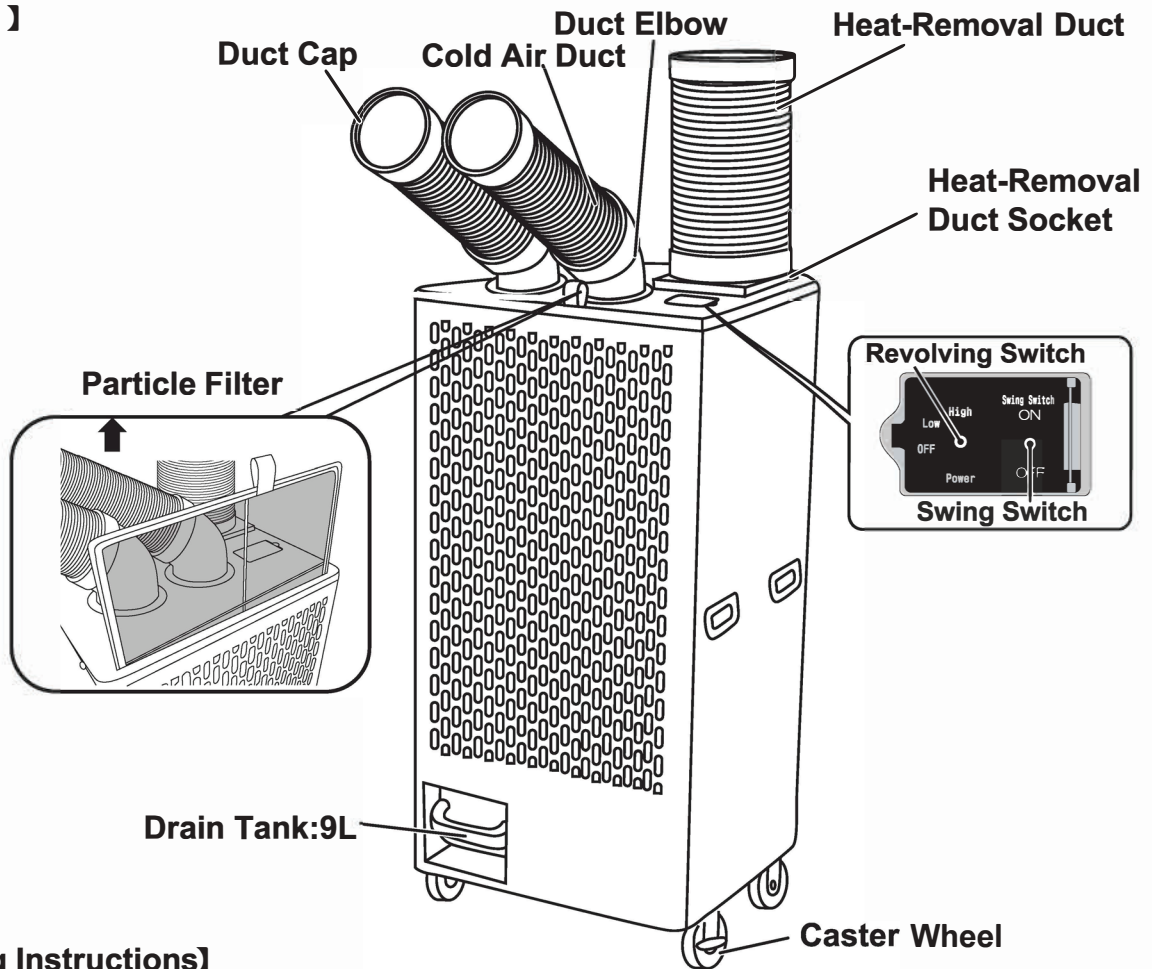
○ Cautions 

	Not near the fire for fearing of short circuit caused by machine body distortion.		Be sure to ask qualified person to do electric construction according to the electric equipment standards and regulations. Mistake fitting will cause fire or electric leaking.
	Do not put your hands or fingers at the exhaust port.		Do not use it as air-conditioner for vessel and vehicles for fearing of fire, electric leaking.
	When pulling out the plug, please hold the plug instead of holding the cord. Please do not use the overused plug for fearing of fire or shock of electric.		Please pull out the plug for stopping use it for a period of time for fearing of fire, shock of electric caused by the bad insulation.
	Please not close to explosive coarse particulate such as aluminum, zinc, magnesium, titanium and gas steam.		If any abnormal things happen while using, please stop right away and pull the plug out.
	Please use under the normal conditions for fear of fire, electric shock and failure happen. The normal condition for usage is between 18°C~40°C		Please do not move it while using for fearing of injury or accident happen.
	Please not apply your body to the cold wind for all long time, for it is bad to your health.		Please pull out power plug while doing maintenance.
	Be sure to ground, and use short-circuited braker.		Please not use it in the place where there is water.

[Specification]

Power	Single Phase 115V
Frequency	60Hz
Cooling Capacity	15,358BTU
Load Current	High : 17.5A Low : 16.8A
Consumption Power	High : 1922W Low : 1837W
Compressor	Sealed Rotary Type
Water Storage Capacity	9L
Refrigerant	R410A
Refrigerant(Rated Charge)	670g
Swing Angle	About 95°
Operating Temperature Limit	18°C~40°C (64°F ~ 104°F)
Size	W20.5"×D18.5"×H43.3"
Weight	161LB

【 Parts 】



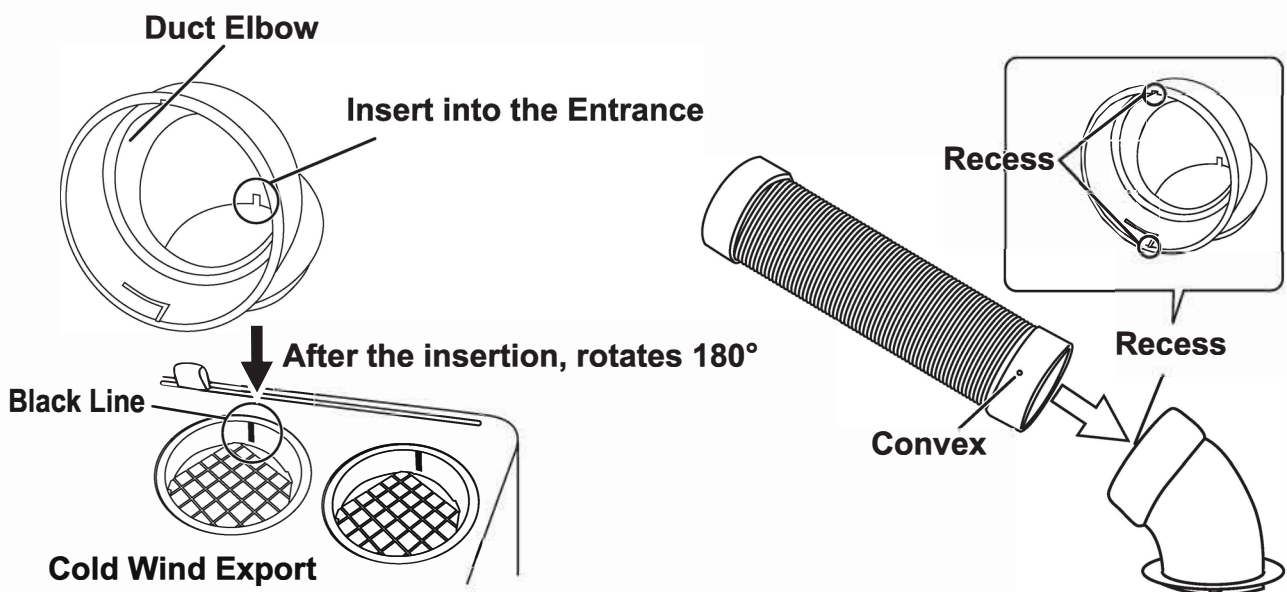
【 Fitting Instructions 】

- 1) The elbow inserts the entrance alignment the black line of the cold wind export and press in, revolving 180°.
- 2) Fit the recess of the elbow into the convex of the duct, then turn it anti clockwise until it stops.

Note-

Please do not add other accessories, or fit extended duct on the cold air duct to avoid damage.

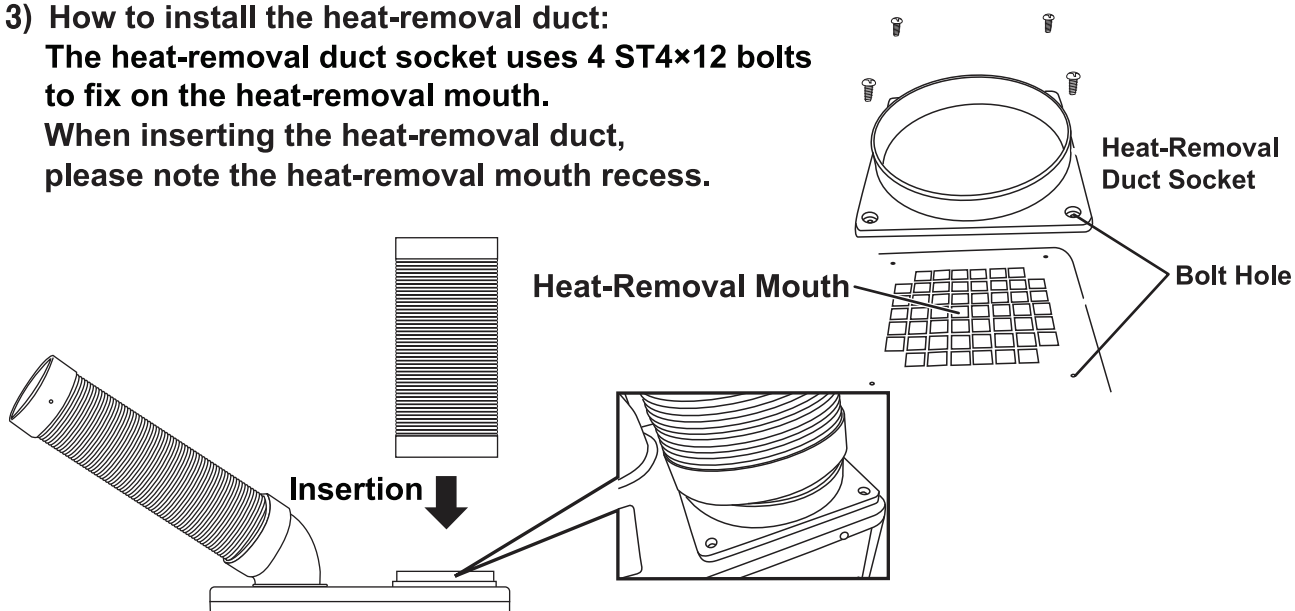
Do not cover to the air outlet of cold air duct.



3) How to install the heat-removal duct:

The heat-removal duct socket uses 4 ST4×12 bolts to fix on the heat-removal mouth.

When inserting the heat-removal duct, please note the heat-removal mouth recess.

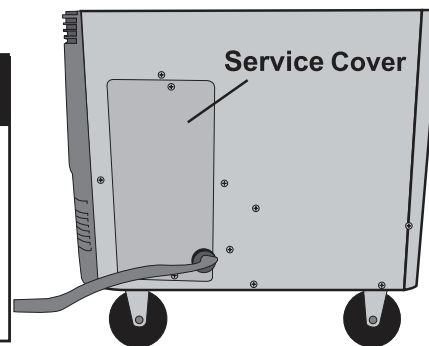


[Power Supply Connection]

1) Please use exclusive power supply.

⚠ CAUTION

Although it is suggested to use direct electric power, when you have to use an extension cord unavoidably, please be sure to use it according to the following. The machine will not operate correct if the extended cord is too long or too thin.



Length of the Cord	Transverse Section Area
Within 8m	4.0mm ²
Within 20m	6.0mm ²

2) Please connect earth wire to the mouth beside the machine cover. Please use earth wire where the diameter is more than 1.5 mm².

[Manual Instructions]

⚠ CAUTION

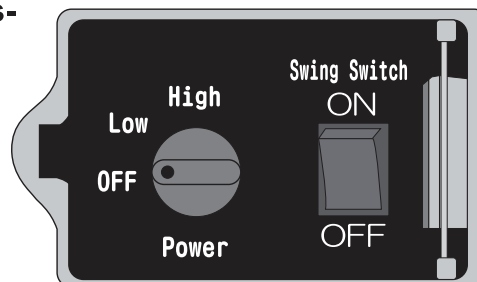
Please use the machine in the environment of 18°C to 40°C. The inner part will get frost and get broken if the machine is used below 18°C.

○ Turn the revolving switch in front of the machine for the operation. There are 3 choices- [OFF, Low, High] for control.

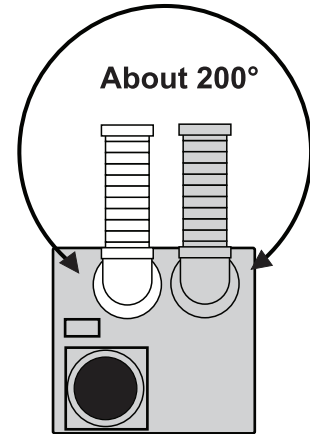
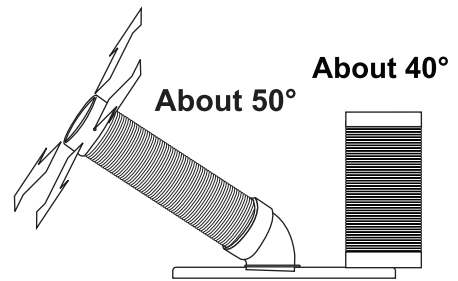
Note:

Turn off the machine and cut the electric if moving the machine.

After 3 minutes of turning off, then re-turn it on, or the protecting process makes the machine do no work.



- Overload relay used for compressor-
If there is over-current or unusual over heating, over load relay will operate to protect the compressor.
- Automatic swing method-
When the switch besides the revolving switch gets “ON”, the cold air duct is about 95° and the swing starts automatically. Please make sure there is no obstacle when using the wand.
- Wind direction adjustment-
In order to get your satisfied direction of cold air duct and heat-removal duct, please adjust after use.
- Operation Area-
The duct elbow’s crosswise angle of revolving is around 200°, cold air duct’s adjustment angle is about 100°, and the heat-removal duct is about 40°.

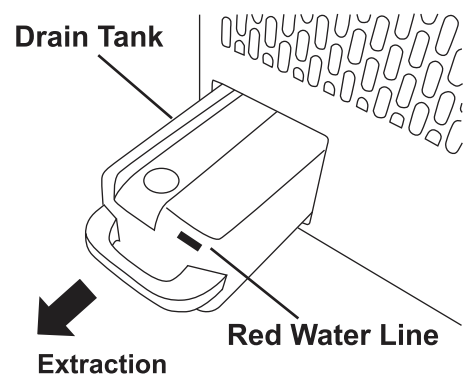


【Drain Tank】

- The dehumidified water stops in the drain tank. Empty the water periodically. The capacity of the tank is 9L. The drain tank may be taken out directly from the machine.

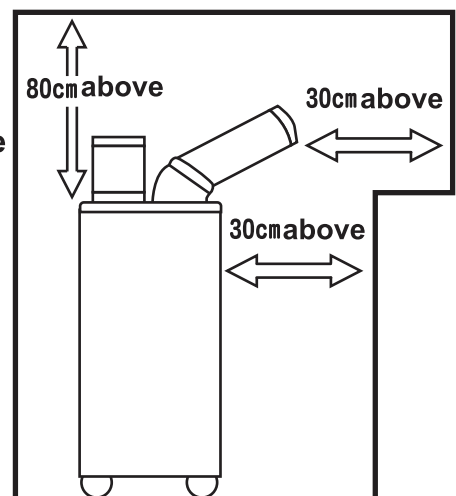
※ Note-

- ◆ Empty the dehumidified water immediately when the water gets to the red line. The machine does not have a warning device.
- ◆ Please check the quantity of the dehumidified water by the drain tank.
- ◆ Empty the water before moving the machine.



【Fittings for the Machine】

- Filter, cold air duct-
Please be sure there is more than 30cm of clearance from the exhaust mouth for the installment.
- The filter in the front, or at the back of the machine may depend on the wall surface equipment.



⚠ CAUTION

- ◆ No obstacles in front of filtering net or cold air duct. Things in which can not resist heat please do not put in front of the thermo vent.
- ◆ Do not put the machine into the environment with hydrochloric acid, sulphuric acid, gas, or steam.

【Care and Storage】

! CAUTION

◆ Please clean the filtering net regularly to avoid inner breakdown.

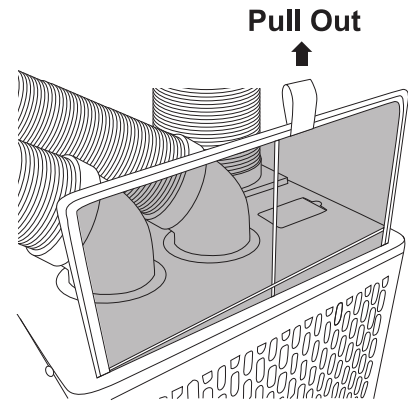
- Use clean water to wash dust from the filter and dry the water completely before using.
- Clean the dust in the drain tank and allow to dry.
- Do not store unit on its side.

【Maintenance & Inspection】

- Check screws for slackness.
- After using, wipe off the dirt with dry cloth. Do not use polishing powder, gasoline, or benzene on the machine body.
- Do not put the machine where children can reach it. Keep it away from high humidity, rain, or direct sunlight.

※ Note-

◆ Be sure to pull the plug out when carrying out maintenance or checking unit.



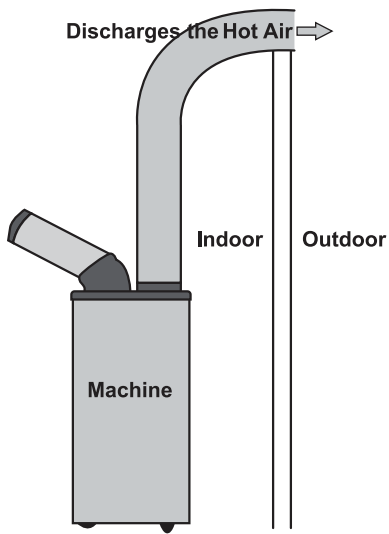
【Trouble Analysis & Trouble Shootings】

Failure	Analysis	Trouble shooting
Not Running	The power plug has been separated	Insert the plug into wall socket well
	Over load relay operates	Turn the switch on/off, wait for 3minutes then start the machine again
	Fuse is broken	Ask the purchase store for help
No Refrigeration	The cold wind duct, front filter, back filter, and heat exhaust port are closed by some obstacles	Remove the obstacles
	Filter is dirty	Clean the filter
	Surrounding temperature is above 40℃	The temperature should be 18℃~40℃
Water Leaks Out	Drain pipe is blocked	Clean the drain pipe
	Drain tank is not installed in the right place	Install it in the right place
	Filter is dirty	Clean the filter
	Drain tank is full of water	Pour the water out

【Fitting for the Extended Duct (optional)】

Prepare extended hot air duct (198mm×3m)

The extended duct can be possible to be arranged so the hot air to outside.



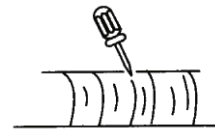
※ If cutting off the duct to adjust the length, please follow the below duct's cut-off method.

- ◆ May request the specialists to open a hole to install the extended duct on the wall.
- ◆ Please assure no foreign objects or debris obstruct the thermos exhaust vent opening.
- ◆ If the thermos exhaust vent is restricted, it will cause a breakdown and damage the machine.

1. Cutting the Extended Duct:

Cutting the extended duct according to the length you want:

Use something sharp to make a slot in the duct as showing, where you would like to cut.

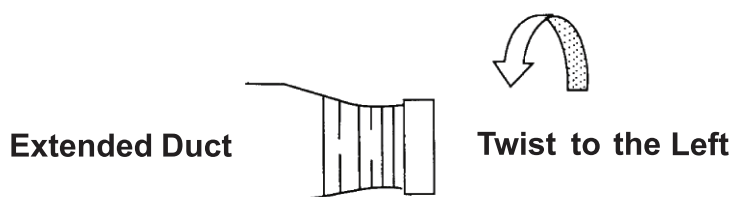


Cut it with nippers or scissors.



2. To Make the Cold Wind Duct Smaller:

Twist the duct on the left to make the duct dimensions smaller.

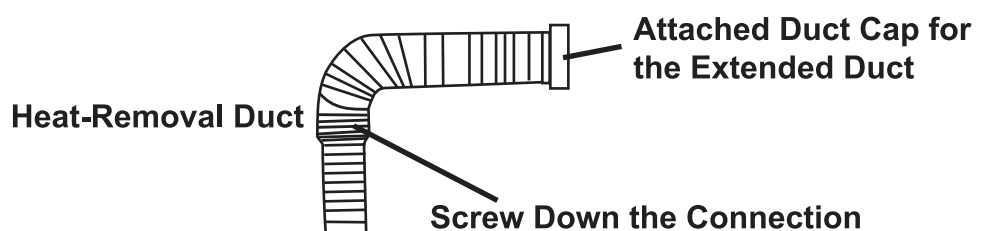


3. Connect the Extended Duct:

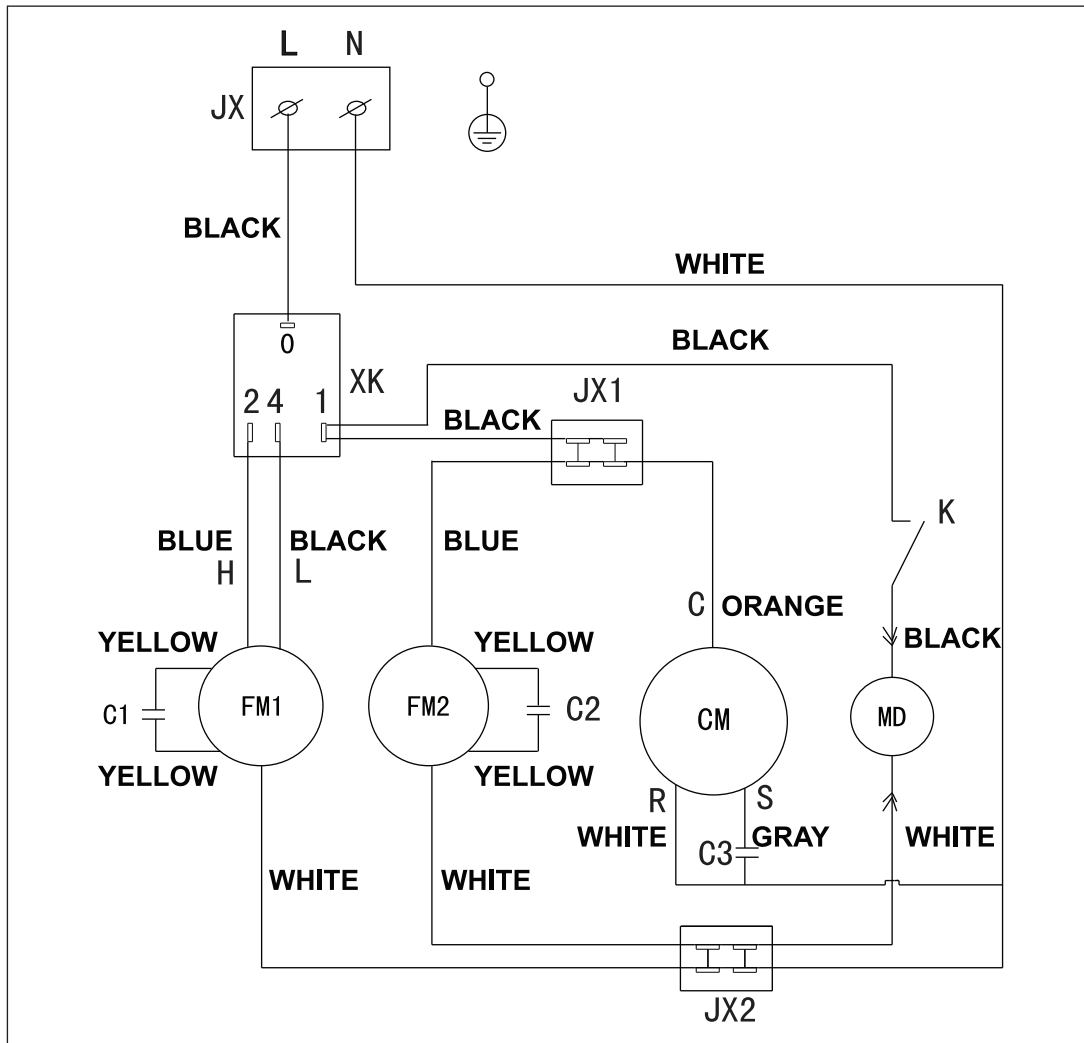
Remove the duct cap from the heat-removal duct.

Put the extended duct to the heat-removal duct, extract the tip.

Fix the attached duct cap to the extended duct with adhesive tape.



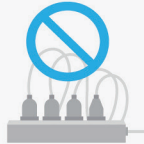
[Circuit Diagram]



1	JX	Terminal	5	MD	Synchronous Motor
2	XK	Transform Switch	6	K	Wind Switch
3	CM	Compressor	7	FM1、FM2	Fan Motor
4	C1、C2、C3	Capacitor	8	JX1、JX2	Transition



KOOLZONE MANUFACTURER'S RECOMMENDATIONS



1. USE A DEDICATED OUTLET. DO NOT SHARE AN OUTLET WITH OTHER DEVICES.
SHARING AN OUTLET MAY CAUSE A POWER CUT.



2. USING AN EXTENSION CORD IS NOT RECOMMENDED.
IF AN EXTENSION CORD IS NEEDED, USE 12 AWG OR THICKER GAUGE.



3. DO NOT BLOCK THE HEAT EXHAUST OUTLET.
(DO NOT PLACE SAC1800 TOO CLOSE TO THE WALL.)
IT MAY BLOCK THE HEAT OUTLET AND CAUSE THE SPOT COOLER TO
STOP WORKING PROPERLY.



4. FOR OPTIMUM PERFORMANCE, USE ONLY UP TO A MAXIMUM OF
12 FT OF HEAT/COOL EXTENSION DUCT.

MAKE LIFE SIMPLE AND MORE CONVENIENT
WITH UNINEX



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