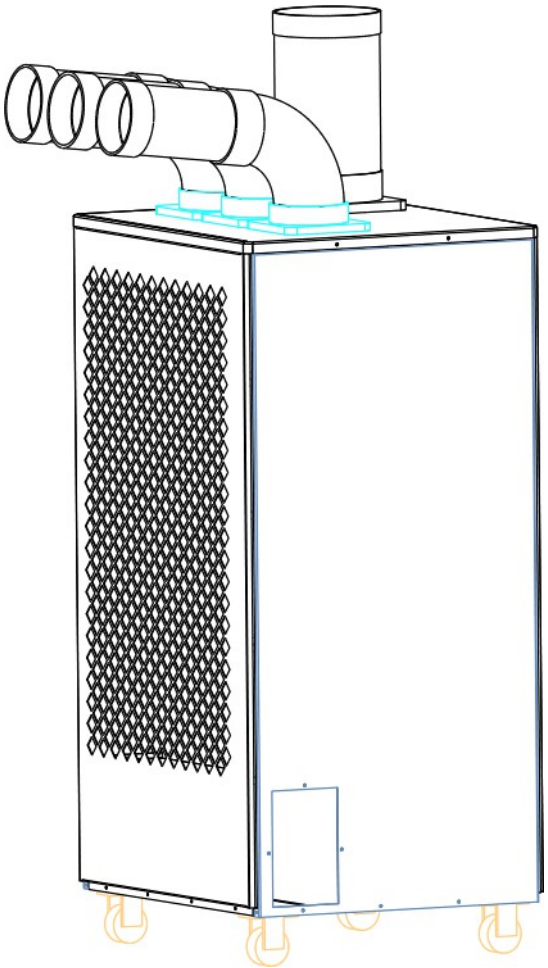
Pro-Tech TOOLS

Pro-Tech TOOLS 4000W Industrial Portable Air Conditioner



User manual

Translation of the original manual

1. Safety symbols and safety precautions

Meaning and identification of relevant symbols.

Read the safety signs and safety instructions carefully before use.

	Ignoring the symbol and incorrect use may result in personal injury, fire and other damage to property
	Ignoring or misusing this symbol may result in personal injury, fire or other damage to property.
	This symbol indicates prohibited behaviour
	This symbol indicates an obligation and a warning.
	This symbol indicates content that requires your attention.

The items listed in the following columns may have serious consequences depending on the situation.

All entries are important. Read them carefully and follow them.

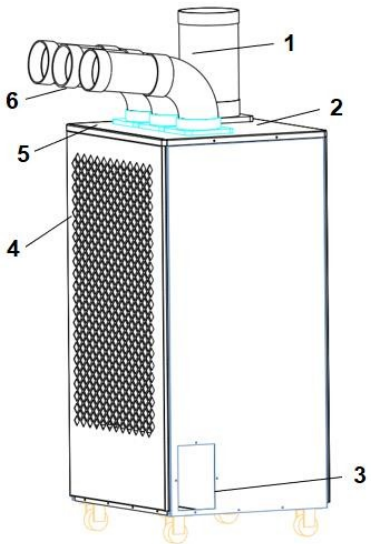
	Never use the air conditioner in areas where volatile substances are used or stored (thinners, petrol, kerosene, liquefied gas and other volatile liquids, magnesium, aluminium, lead and other volatile dust and vapours). There is a risk of fire, explosion, flames and burns.
	Do not use the unit after modifications that may cause damage to the unit, or even fire and other hazards.
	With the exception of professional service personnel, no one else is permitted to dismantle or disassemble the device in order to prevent fire, electric shock, injury and other safety incidents. If repairs are required, please contact the service centre.
	Do not use it in areas where it is raining or snowing, and do not operate it with wet hands.
	Use a 220 V – 240 V ~ 50 Hz power supply. If you use a power supply other than 220 V – 240 V ~ 50 Hz, the device will be damaged and safety incidents may occur.
	Use a dedicated socket with a rated current of 16 A. Using sockets in conjunction with other electrical appliances may easily lead to malfunctions.
	Electrical installation must be carried out by qualified personnel in accordance with the standards for equipment and wiring; otherwise, safety incidents may occur.
	To prevent damage to the appliance, keep it away from sources of fire.
	Ensure a safe and reliable earth connection and use a residual current device (RCD).
	Use the unit within the specified temperature range of 16 ℃ to 45 ℃; otherwise, the unit may easily malfunction
	Do not move the air conditioner whilst the unit is in operation. Secure the castors in the locked position.

	If any unusual phenomena occur during use (stopping, unusual noise, unusual vibration, unusual odour), stop using the device immediately.
	To prevent accidents and injuries, the air conditioning must not be used in the following locations: ● Vibrating surfaces ● Stairs, emergency exits, building entrances and exits, etc. ● Places where unstable objects are piled up. ● Places with strong winds and humidity, places with dust and metal dust in the air
	When unplugging the power plug, hold the plug itself, not the power cable. Failure to do so may result in damage to the plug, sparking, or dangerous accidents.
	If you are not using the machine for a long period of time, unplug the power cable from the socket.
	To prevent electric shock, unplug the power cable from the socket during installation and maintenance
	Regularly remove dust from the plug using a dry, clean cloth. If there is dust or moisture on the plug, this may lead to poor contact or an electrical leak, which could cause accidents.
	Do not bend, pull, twist, crush, modify or overload the power cable. Failure to do so may result in fire, electric shock or other accidents.
	Do not use the device as an air conditioner on boats or in vehicles. Failure to do so may result in safety accidents.
	Do not insert your fingers or hands into the outlet.

2. Technical specifications

Model: BC-90B
Power: 2050 W
Cooling capacity: 4000 W
Voltage/frequency: 220 V – 240 V/50 Hz
Refrigerant: R290
Refrigerant charge: 1400 g
Protection class: IPX0

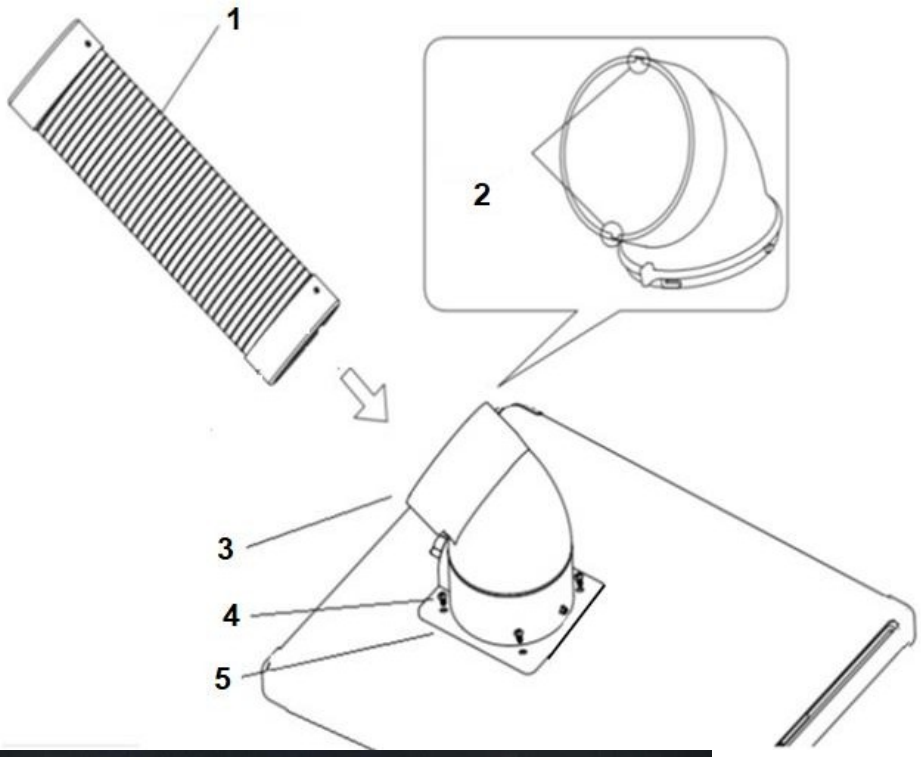
3. Product design



1. Hot air outlet
2. Rotary switch
3. Water tank
4. Filter screen
5. Top cover
6. Cold air outlet

4. Installation method

How to install the elbow: remove the four screws on the top cover, align the elbow with the four holes on the top cover and twist it into place (Fig. 1)
How to install the cold air outlet duct: align the convex part of one end of the cold air outlet duct with the concave part of the elbow opening, push it in, and then turn it to the left (Fig. 1)



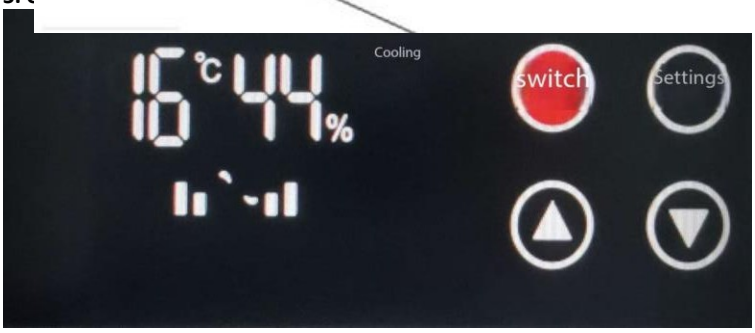
1. Cold air duct
2. Recess
3. Elbow
4. Screw
5. Elbow with clamp

(Fig. 1)

Replacing the power cable

Warning: If the power cable is damaged, to avoid danger, it must be replaced the manufacturer, its service department, or specialists from similar departments. Ensure that heat is dissipated smoothly. Do not throw foreign objects into the exhaust air. The external exhaust air outlet must be fitted with a device to prevent the backflow of rainwater.

5. C



1. Power button

Plug the power cable into a 220 V – 240 V, 50 Hz AC power supply and the screen will switch to standby mode "--". Press the power button to start the cooling mode for the entire unit and the screen will display the current temperature and humidity.

2. Settings button

When the unit is switched on, press the settings button to select the unit mode, cooling, dehumidification and air supply.

3. Mode button

In cooling mode, press and hold the setting button. When the time mode appears on the screen, press the increase or decrease button to set the time; press the setting button again to set the airflow, and press the setting button again to set the temperature. Humidity cannot be adjusted at this time

In dehumidification mode, press and hold the setting button. When the timer mode appears on the display, press the increase or decrease button to set the time; press the setting button again to set the airflow, and press the setting button again to set the humidity.

The temperature cannot be adjusted at this time.

In air supply mode, press and hold the setting button. When the time mode appears on the screen, press the increase or decrease button to set the time; press the setting button once more to set the air volume. Neither the temperature nor the humidity can be set at this time.

Full tank warning

When the 'water full' indicator light is on, it means the water tank is full. When the red indicator light is on, the compressor is not running, the external fan is not running, and the internal fan is running normally. In this case, you must remove the water tank, empty it of water, reinstall the tank and reset the system. The compressor will start within 3 minutes, the external fan will begin to operate, and the unit can run normally.

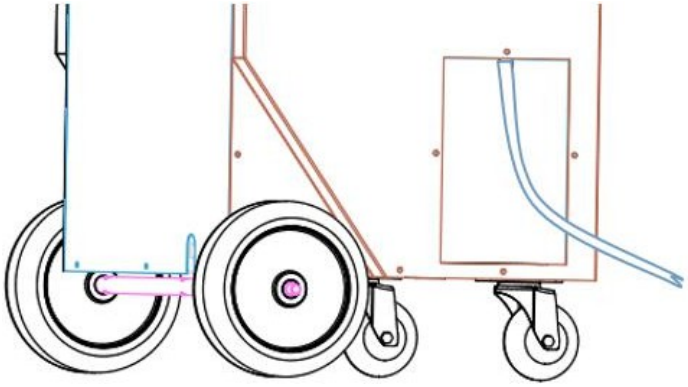
Compressor overheating and overload protection
The compressor overheats and overloads as a result of voltage that is too high or too low, and an ambient temperature that is too high. To protect the compressor, the thermal overload protection is activated and the power supply is disconnected.

Please take care
When the overload protection is activated, the unit blows only natural air without cooling. If the thermal overload protection is activated frequently, identify and rectify the causes before using the unit.

- Adjustment range and operation of the air outlet direction: The cold air duct can be rotated 360 degrees from left to right (the warm air duct is installed). The range of movement of the cold air duct is 150 degrees.

Please take care
Before use, adjust the air outlet direction of the cold air duct and the warm air duct. When adjusting the air outlet angle of the cold air duct, hold the elbow joint rather than holding the cold air duct directly.
Note: Do not move the appliance when it is filled with water. Empty any accumulated water before moving it.

6. Drain pipe (optional)
Condensate can be drained directly via the drain pipe.
Procedure: Remove the water tank and place the drain hose directly into the drain.



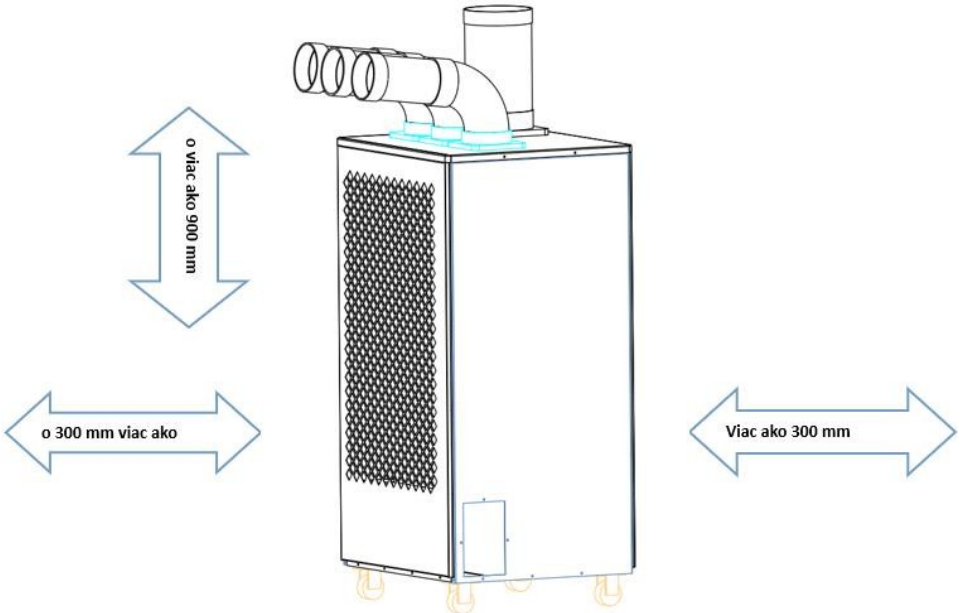
Drain pipe

6. Requirements for the location where the

appliance is used Users are specifically advised:

- When using the appliance, the filter grille and cooling air duct must be more than 30 cm away from the wall or other obstacles, and the heat exhaust duct must be more than 90 cm away from the roof or obstacles.
- The machine should be placed on a level surface. It must not be used on slopes, uneven floors, at building entrances and exits, etc., in order to prevent accidents.
- It is prohibited to use it in the rain, snow or other damp locations to prevent accidents.

Note: Do not place any obstacles in front of the filter grille, the cold air outlet duct or the hot air outlet. Do not direct the hot air discharged from the heat outlet towards objects with low heat resistance.



7. Maintenance and inspection

- Clean the filter screen regularly. For example, dust and dirt accumulated on the filter screen will affect the air intake volume, which may cause frost to form on the heat exchanger and lead to a machine malfunction.
- To clean the filter, use a vacuum cleaner to remove dust from the filter, then wash it with water and only use it once it is completely dry.

Note: When cleaning the surface of the appliance, do not use thinners, essential oils or other substances that may damage the surface.

- Check that the power cable is not damaged. If it is damaged, replace it immediately.
- Check that the screws are not loose and tighten them if necessary.
- Before storing the machine for an extended period, empty any accumulated water from the water tank and only store the machine once it has dried out completely.
- Do not store the machine in a horizontal position or upside down.
- Keep the machine out of the reach of children. Staff should avoid placing the machine in areas with high temperatures, or where it is exposed to rain and direct sunlight.

Note: When carrying out maintenance or inspections, do not forget to disconnect the power cable when replacing parts. When storing the device, do not forget to disconnect the power cable.

8. Causes of faults and measures

1. If the air cooler malfunctions, switch off the power immediately, unplug the power cable from the socket and check the following items:

Fault symptom	Cause analysis	Remedy
Not working	Check that the power cable is not loose or has come out	Plug the power connector firmly into the socket
	Check that the air circulation is switched on	Turn the switch on
	The circuit board is loose or damaged	Ask a member of staff to replace or repair it
Not cooling	Dirty and blocked heat exchanger surface	Clean the heat exchanger surface to ensure ventilation and heat dissipation
	Faulty hot air extractor	Repair and replace the extractor fan
	The outdoor environment is too warm	Select a suitable location for use
	Damaged compressor capacity	Replace the compressor condenser
	The cooling system piping is blocked	Replace the piping system
	The input voltage is too high or too low	Please select the correct voltage
	Compressor overload and overheating protection	Restart after cooling down
	Compressor and motor fault	Ask a qualified technician to repair or replace the compressor and motor
Water leak	The drain pipe outlet is blocked	Clean the drain pipe
	Damaged compressor foam insert	Ask a specialist to replace the foam
	The filter screen is heavily soiled with dust and dirt	Clean the filter screen
	The machine is tilted	Level the machine