Pro-Tech TOOLS

Oil heater 8kW 12V with indirect combustion



Instructions for use

Translation of the original instructions

Read these instructions before using the heater. Keep the instructions after reading them.

Dear Customer,

Congratulations on your purchase of the heating equipment. Its operation will be easy. However, it is necessary to follow certain rules. Please read the contents of this manual before starting work. Follow the explanations and instructions carefully. Pay particular attention to the safety instructions.

Keep this manual after reading it.

When the heater is in operation , ensure that the heated room is adequately ventilated. Also remember to keep a minimum distance of 2.5 m from objects that may catch fire.



READ THE INSTRUCTIONS CAREFULLY BEFORE USE!



PROTECT FROM MOISTURE!



WARNING: EXPLOSION HAZARD!

Attention!

1. Do not add fuel of unknown to the heater.

2. Do not use spray products (sprays) in the room where the heater is used. Gas escaping from the sprayer during use may cause a fire or explosion.

3. NEVER use the heater in an area where there are particles of combustible materials or dust of a combustible nature, such as: paper particles, wood dust, fibre residues. Ingestion of such materials with the heater may result in flammable particles being ejected from the heater and causing a fire.

4. Do not block the inlet and outlet of the heater. hazard.

5. Do not make any changes to the appliance yourself. This may cause malfunctions and fire.

6. Do not expose the device to rain or snow, do not use it in conditions of high humidity. Disconnect the unit from the mains before servicing or testing.

CLEANING AND MAINTENANCE

1. Keep the appliance clean. Remove dust regularly. Ask a service technician to carry out cleaning/maintenance at least once a year. Use compressed air and a soft damp cloth for cleaning.

2. If the appliance will not be used for a long time: unplug the appliance from the mains; drain the fuel residues from the tank and pipes; put the cap on the tank to protect it from contamination, put the heater in a clean plastic bag, store it in a clean and dry place out of the reach of children. Make the fan is working properly and there is no combustible debris inside before using it again.

Note: Do not unscrew the heater. Only the manufacturer's service department is authorized to do so. Do not clean or service the appliance when it has not cooled down or when it is in operation. The above operations may only be carried out when the appliance is not connected to a gas or electricity supply. Otherwise there may be a risk of electric shock or burns.

- When disposing of packaging, paper/cardboard, plastic, or other materials should be collected and disposed of in separate waste containers.
- Before disposing of the product at the end its useful life, contact the manufacturer or follow instructions of cleaning or environmental organisations in your area.
- The WEEE label draws attention to the need for separate collection of waste electrical and electronic equipment, and products so labelled must not be disposed of with other waste.
- Such products may be harmful to the environment and human health , requiring special forms of treatment, recovery, recycling and disposal.

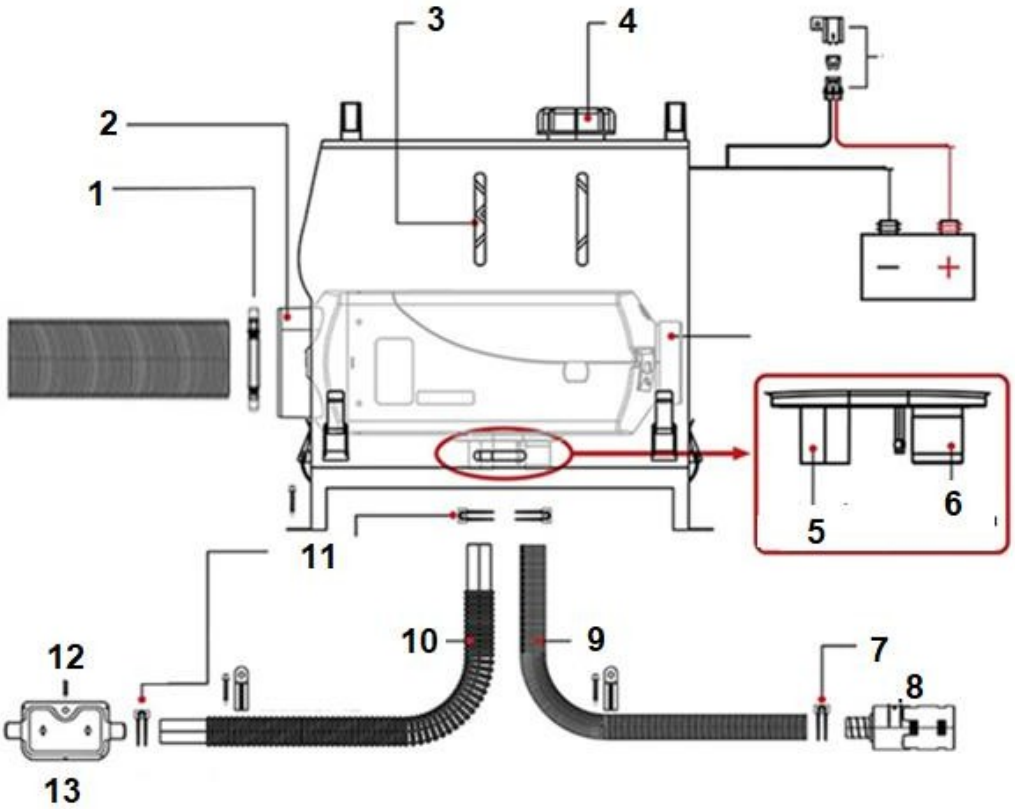


If you intend to dispose of this product, please do not dispose of it in normal household waste. According to the WEEE Directive (Directive 2002/96/EC) in force in the European Union, used electrical and electronic equipment must be disposed of separately.

Harmful substances contained in the equipment may have adverse effects on the environment as well as on human and animal health.

Find a place in your city where you can safely dispose of your e-waste.

When the heater is activated for the first time, a specific smell may spread from the heating elements and insulation. This is a normal phenomenon.



1. Hose clamp
2. Air outlet
3. Fuel Meter
4. Fuel tank
5. Exhaust opening
6. Air supply
7. Hose clamp
8. Air filter
9. Air inlet pipe
10. Ventilation pipe
11. Hose clamp
12. Screw
13. Silencer

The air inlet and the ventilation duct must not be oriented in the same direction.

1. Function buttons

	Settings	Enter or exit the Settings menu to set the heater's operating parameters
OK	Confirmation button	Confirmation of heater setting operation
△	Top button	Changing parameters
▽	Bottom button	Changing parameters
	On/Off button	On/off

2. Features and introduction

	Constant temperature sign	When the heater is in operation, pressing and holding the setting button for 3 seconds will activate the constant temperature mode and the constant temperature sign will always be lit. In mode constant temperature, press and hold the setting button for 3 seconds to exit the mode.
	Sign of the times	When lit continuously, it indicates the display time. When flashing, it indicates the setting time.
	Lock screen tag	When the screen lock function is activated, the screen will turn off and go into low power mode.
	Regular on/off switching	If the time indicator and ON indicator light up at the same time, set the scheduled start time. If the timing and shutdown flags are lit at the same time, set the timing shutdown time.
	Signal sign	When communication is normal, the icon is lit continuously. When communication is not in progress, the icon flashes.
	Power supply sign	When the power is normal, the icon is lit continuously. When the power is abnormal, the icon flashes.
	Digital identification	Displays the number be displayed or set.
V	Voltage unit designation	Features voltage, unit V (volts), voltage display, with digital display.
M	Height unit designation	Represents the height, unit m (m). When height is displayed, it is displayed as a number.
恒温	Permanent mark of temperature performance	When the thermostat function is on, the icon is on continuously; when the thermostat function is not on, the icon is off.
	Fan character	When the fan is operating normally, the fan blade icons appear sequentially; when the fan is faulty, the icon flashes.
	Brand of electrical plug	When the electric plug is working normally, the icon is on continuously; when the plug is faulty, the icon flashes.
	Sensor mark	When the sensor is operating normally, the icon is on steady; when the sensor is faulty, the icon flashes.
	Brand of flame	If the icon is flashing, the motherboard is on.
	Marking of air inlet and outlet	If the icon is flashing, the motherboard is powered.
	Gearbox brand	indication: At a value of 1, the three blue icons light up, Each time the gear is increased by 1 gear, the gear indicator lights up to the right. Each time you change gear by 1 gear, the gear indicator light on the left will go out.

3.Fault and error code analysis

Error code	State of failure	Problem solving method
E01	Input voltage is too High:	1. check that the supply voltage is not too high 2. disconnect the power supply from the unit and switch it on again to check the voltage
E02	The input voltage is too low:	1. check that the supply voltage is not too low and that the battery is not losing power 2. disconnect the power supply from the unit and switch it on again to check the voltage
E03	No electrical plug was detected:	1. check that the spark plug is connected in virtual mode 2. check the electric spark plug for damage and replace it
E04	oil pump was detected:	1. check that the diesel pump hose plug is virtual 2. check the diesel pump for damage and replace it
E05	No engine was detected:	1. check that the motor cable plug is virtual 2. check that the base plate is installed correctly and that it is close to the wind turbine 3. if the fan spins after starting, you can change its setting to infinite in the advanced settings
E06	No sensor was detected:	1. check that the sensor cable plug is connected in virtual mode 2. check the sensor for damage and replace it
E07	Overheating of the machine:	1. check that the air inlet and outlet are not blocked 2. check the sensor for damage and replace it
E08	The flame goes out:	1. check that there is no diesel in the unit 2. check that diesel flow is normal after the diesel pump is running 3. check whether the conductive temperature of the temperature sensor is accurate and whether there is abnormal temperature jump 4. check if the temperature sensor is defective and replace it 5. when it gets cold, the diesel filter and diesel line are blocked with wax from poor quality diesel, replace it with good quality diesel or remove the blockage
E09	Ignition failure:	1. check that the diesel pipe is fed into the unit 2. check whether the conductive temperature of the temperature sensor is correct and whether there is abnormal temperature jump 3. check that the spark plug is working properly 4. when it gets cold, the diesel filter and diesel line are blocked with wax from poor quality diesel, replace it with good quality diesel or remove the blockage 5. there is no diesel pressure in the diesel pump and diesel cannot get into the machine, the diesel pump must be replaced 6. if the smoke does not burn when ignited, it may be flooded with diesel, then you can disconnect the hose and restart after the residual diesel has burned off, then reconnect the hose and ignite normally
E10	The ambient temperature is too high:	1. check that the air inlet and outlet are not blocked and away from heat source 2. check that the ambient temperature sensor is connected to the motherboard
E11	Temperature sensor malfunction:	1. check the temperature sensor for damage and replace it 2. check that the temperature sensor cable is not short-circuited
E12	Incorrect communication with the switch:	1. check that the plug of the electrical box is virtual 2. check that the communication connector on the motherboard is virtual 3. disconnect the device and reconnect it 4. check the base plate for damage and replace it
E13	The communication on the motherboard is incorrect:	1. check that the motherboard communication cable plug is virtual 2. check the base plate for damage and replace it
E15	Short circuit of the electrical plug:	1. check that the spark plug wires are not short-circuited 2. check the spark plug for damage and replace it 3. check the base plate for damage and replace it
E16	Diesel pump short-circuited:	1. check that the diesel pump cable is not short-circuited 2. Check the diesel pump for damage and replace the diesel pump 3. check the base plate for damage and replace it
E17	Engine failure:	1. check that the motor cable is not short-circuited 2. check the fan for damage and replace the motor 3. check the base plate for damage and replace it

1. For this product, the red wire is positive and the black wire is negative. Connect the positive wire to the positive terminal and the negative wire to the negative terminal. Reverse connection is not allowed.

2. When using this product for the first time, it is necessary to pump diesel for approximately 2 minutes. Fill the diesel tube with diesel, otherwise bubbles will appear in the tube and the machine will not ignite.

3. The length of the cable connected to this product should be approximately 2 meters. If the length of the connected wire exceeds 2 meters, use a copper wire with a cross-section of 2 mm^2, or a copper wire with a cross-section greater than 2 mm^2.

4. This product uses high octane diesel, so do not use inferior diesel as this will cause carbon build-up resulting in ignition failure and shortened machine life.

5. This product must not be used in confined spaces. It is forbidden to bend the air outlet or exhaust pipe and the air outlet must not be blocked. Make that there are no objects behind the unit's fan and that they are not blocking the air intake.

6. Do not turn off the power when the product is in use or turned off.

7. During installation, the fixed rear plate must be tightly sealed to the vehicle to exhaust fumes from entering the cab through the gap and causing injury to the driver.

8. When installing an air heater, the exhaust duct should be routed outdoors and the flue duct should be located away from combustible materials to prevent fire.

9. The exhaust outlet must not be oriented in the direction of travel.

10. Do not touch the flue outlet pipe when the heater is in operation and be careful not to burn yourself on the high temperature flue outlet pipe.

11. In the summer months, when the heater is not in use, it should be switched on for approximately 10 each month.

12. When the heater is nearing the end of its useful life, the heater should be tested. Thoroughly inspect the oil circuit and see if there are any loose oil line connections or aging oil line problems.

Before use, check the opening of the heating air pipe, combustion air pipe and exhaust pipe, clean them if necessary and keep the machine free of dust and dirt. After test operation, check diesel leaks at the diesel circuit connections.