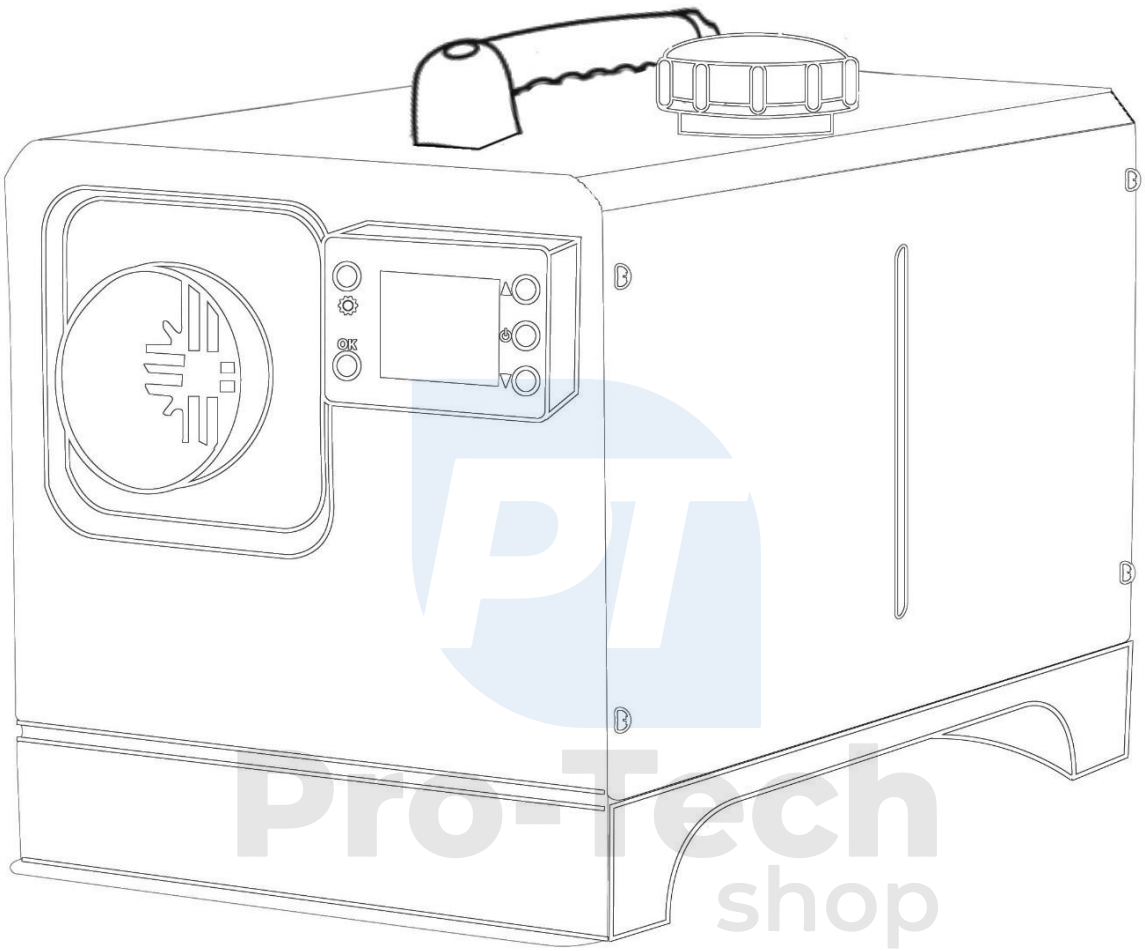
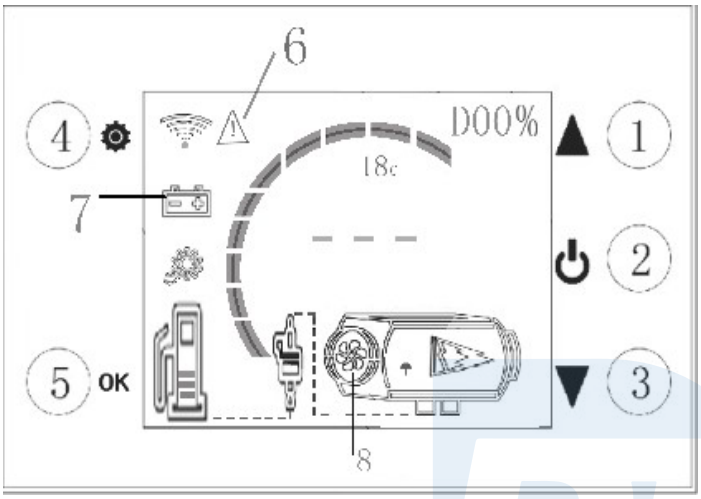
Independent heating



Instructions for use

Pro-Tech shop

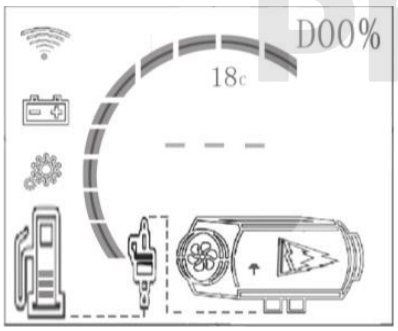
The control panel is shown in the following figure



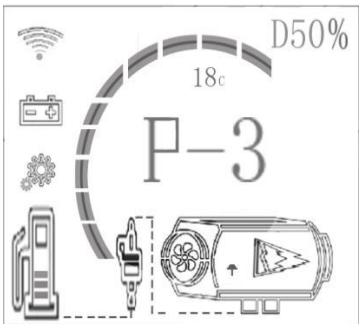
1. Button for shifting up a gear;
2. On/Off button;
3. Downshift button;
4. Set button;
5. Confirmation button;
6. Symbols of disturbances;
7. Voltage fault symbol;
8. Symbol of working status.

Operation of use

1、On/Off operation



Shutdown status



Power-on status (heating degree setting mode)



Power-on status (automatic temperature mode)

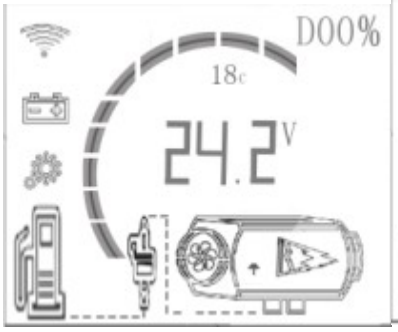
1) Turn on

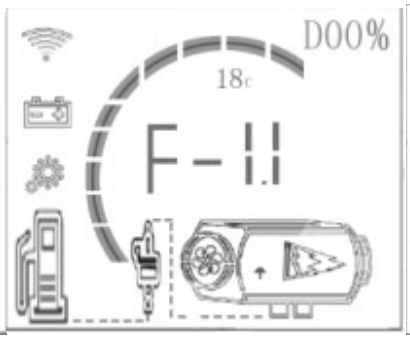
In the off state, press and hold the "On/Off" button for three seconds or press the "ON" button on the the remote control to switch on the device. Once switched on, it will operate on medium and display "Power on status" as shown in the figure above.

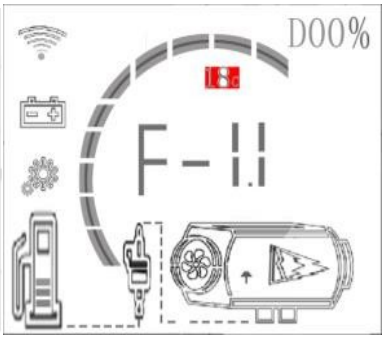
2) Shutdown

In the on state, hold down the on/off button "⏻" for three seconds or press the "OFF" button on the remote control and the "- - -" icon will appear. Display the "OFF status" as shown in the figure above. At this time, the machine body is blown by cold, please do not turn off forcibly power supply "Direct interruption of the power supply will damage the accessory due to the high temperature of the machine body from which it cannot dissipate heat!" Wait for the machine fan to stop working before switching off!

3) There are a total of 5 manual modes (1-5), with 5 representing maximum performance. As shown in the "Power-on status" figure above, using the "▲" /"▼" or Press "▲" /"▼" on the remote control to increase or decrease the heating degree. Schematic The host diagram shows the current grade. Short press "⏻" to locate the voltage → quickly Press "☼", the red position in the picture shows the room temperature or the temperature in the car.







Tension walkingfloating in the car

4) Operation in automatic mode

The above picture shows the setting of 22℃. To increase or decrease the temperature value, use buttons "▲" or "▼", set the range to 12-36℃, long press "☼" button to switch between manual/automatic mode.

2、 Manual mode

When first switching on, press the "OK" button five times continuously to enter the automatic refuelling function. The 60 second countdown will start and each press of the "▲" button will increase it by 60
seconds. Press the "OK" button briefly to exit. Please use with caution!

Remote control

1) When the alarm is on, hold down the "▲/▼" button and do not release it. When the screen turns black and the button is released, the screen displays 01, then press on the remote control, OFF--ON sequentially + , the screen will display 05, indicating a successful match.

2) Instructions for using the remote control

off: off

on: on

+: upshift

-: downshifting

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Fault alarm

As shown in the figure below, the corresponding fault symbol flashes and the icon of the corresponding faulty component flashes. The displayed data is the fault codes and its meaning can be found in the fault table.

Symbols for spark plugs, oil pumps, fans, sensors, power supplies, etc. Flashing means that the device in question is not functioning properly.

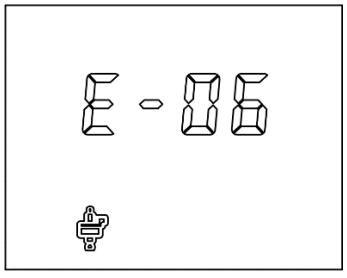


Table of faults

Fault code	Cause of malfunction	Handling method
E-01	Startup failed	Check whether the spark plug is aged or the power is insufficient, whether the burnt volatile mesh, if carbon builds up in the combustion chamber, if the diesel quality is good or bad, if poor quality oil affects ignition, if the oil line is not smooth, if the oil pump is insufficient, if the sensor is aging and if there is poor contact between the sensor and the core, etc.
E-02	Switching off the flame	The stop fault is basically unrelated to the switch baseplate. The oil circuit of the machine is not smooth, the oil pump is not sufficient, there are carbon deposits in the combustion chamber, the sensor is aging, the contact between the sensor and the core body is weak, the engine speed is too slow and the intake and exhaust the holes are blocked.
E-03	Abnormal voltage	Once started, the display will show 24V or 12V so you can monitor whether rapidly decreasing or rising. If error E01 is reported, replace the power supply, or the connected wires are too thin or too long.
E-04	Sensor	Check for a broken wire or use a multimeter to measure if there is a short circuit. Or replace.
E-05	Air supply sensor	Replace the base plate.

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E-06	Oil pump abnormality	Failure of the oil pump, base plate, oil pump wiring harness, oil pump, one of which has a bad contact or is disconnected,
		replace one by one, to fix the problem.
E-07	Fan abnormality	The motherboard is not fixed, the wind turbine is too far away from the motherboard, the magnet on the wind turbine is lost and the distance between the magnets of the wind turbine does not correspond to the standard. The wind turbine must be replaced.
E-08	Abnormal ignition plug	For troubleshooting, replace the ignition plug, or motherboard.
E-09	Overheating of the jacket	The installation space is too small, the oil pump has too large oil volume and inlet and outlet are covered.
E-10	Abnormal furnace temperature sensor	Check if there is a broken wire in the fault sensor housing, or use a multimeter to measure whether a short circuit has occurred. Or replace it.
E-11		The connecting wire between switch and base plate is damaged, and the switch, wiring harness and base plate should be removed when problems to replace one after kind of.

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Instructions for use:

1. It is forbidden to use in environments with high humidity, conductive dust, flammable and explosive gases, dust, corrosive materials, strong light and strong magnetic, high voltage and high current equipment in the vicinity.

2. Supply voltage range: DC24V usable regulator (18-32) V; DC12V regulator is suitable for (9-18) V; regulators with different voltage are not interchangeable, and it is prohibited to exceed the usable voltage range.

3. A 5 kW controller must be used on a 5 kW machine; a 2 kW controller must be used on a 2 kW machine.

4. The controller or external components are damaged and must be replaced with prototype components by qualified personnel.

5. Do not open the regulator housing without permission.

6. The equipment must be installed correctly and used under safe conditions.

7. Our company is not liable for any loss or damage caused by improper wiring and use, short circuits, or damage to external components or circuits in the controller.

8. In case of high temperature in the heater and inability to operate the fan, it is necessary to quickly cool the appliance to an appropriate temperature. Inject cold air into the intake opening
combustion to cool and keep the body temperature below $100℃$. Avoid high temperature or fire damage to components.

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