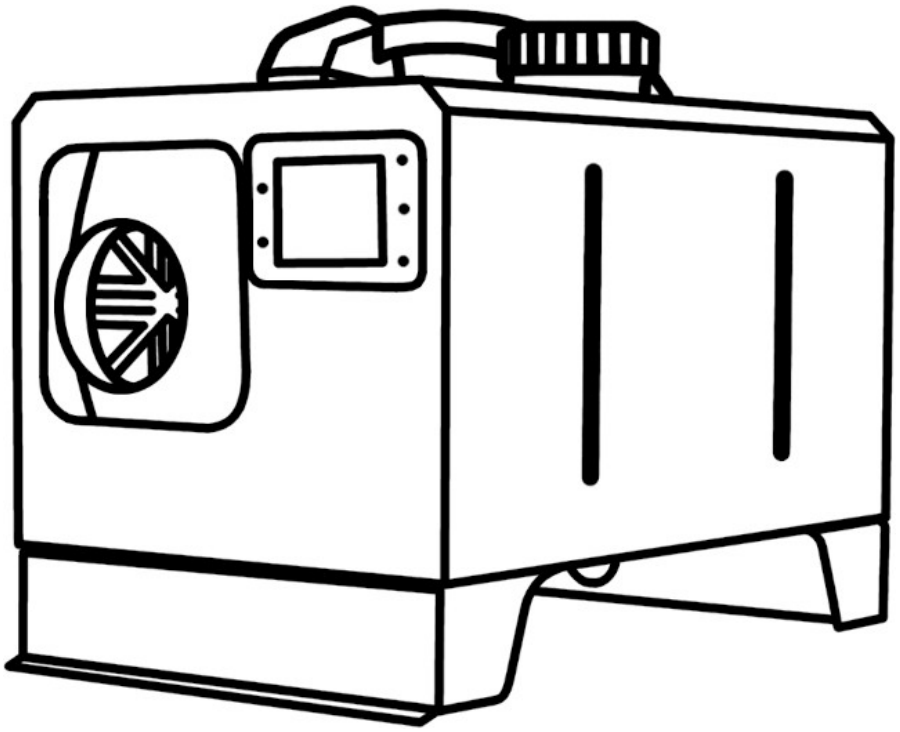
Pro-Tech TOOLS

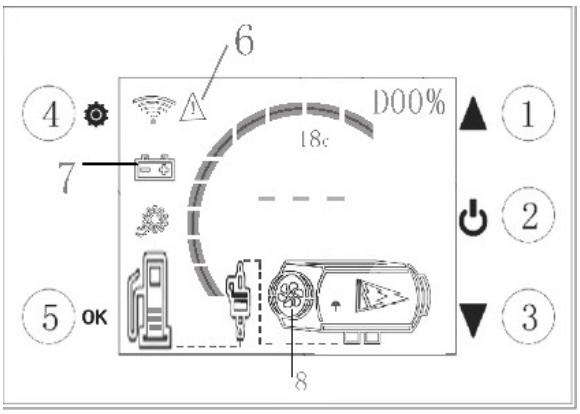
Pro-Tech TOOLS 8kW 12/230V indirect combustion diesel heater



Instructions for use

Translation of the original manual

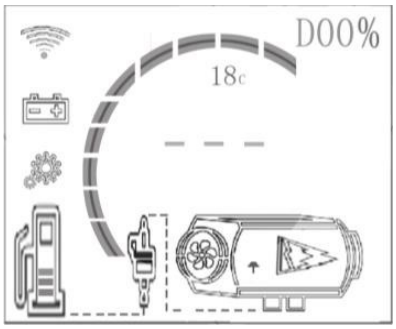
The control panel is shown in the following illustration



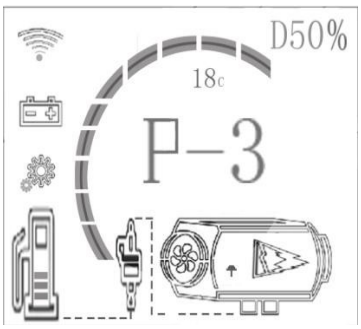
1. Upshift button;
2. On/off button;
3. Button for shifting down a gear;
4. Set button;
5. Confirmation button;
6. Fault symbols;
7. Voltage fault symbol;
8. Operating status symbol.

Operation

1、 Switching on/off



Off state



On state (gear selection mode)



On state (automatic temperature mode)

1) Operation when switched on

When the unit is switched off, press and hold the ‘On/Off’ button for three seconds or press the ‘ON’ button on the remote control to switch the unit on. Once switched on, it will operate at medium speed and display ‘Power On’, as shown in the image above.

2) Switching off

In the on state, press and hold the "⏻" button for three seconds, or press the "OFF" button on the remote control; the "- - -" icon will be displayed. The "off state" will be displayed, as shown in the image above. At this time, the machine body is being cooled by the fan; please do not forcibly switch off the power. "Directly cutting off the power will damage the accessories due to the high temperature of the machine body, from which heat cannot be dissipated!" Before switching off, wait until the machine's fan has stopped running!

3) There are a total of 5 manual modes (1-5), with 5 representing maximum power. As shown in the "Power-on status" image above, use the "▲" / "▼" keys or press "▲" / "▼" on the remote control to increase or decrease the gear level; the host's schematic diagram displays the current gear level. Briefly press "⏻" to view voltage → speed. Press the "☼" button; the red section in the image displays the room temperature or oven temperature.



Voltage in operation oven temperature

4) Operation in automatic mode

Automatic mode. The image above shows a setting of 22 ℃. To increase or decrease the temperature, use the "▲" or "▼" buttons; the range is 12–36 ℃. Press and hold the "☼" button to switch between manual and automatic modes.

2. Manual lubrication

When switching on for the first time, press the "OK" button five times continuously to enter the automatic oil pumping function; a 60-second countdown will start, and

each press of the "▲" button will add 60 seconds. To end the process, briefly press the "OK" button. Please use with care!

Corresponding remote control

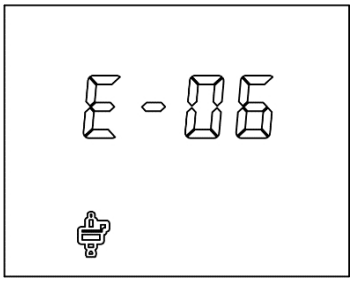
1) When the power switch is on, hold down the "▲" button▼" and do not release it. When the screen goes black and you release it, 01 will appear on the screen; then press the remote control sequentially, OFF--ON + , and 05 will appear on the screen, indicating a successful pairing

2) Instructions for using the remote control

off: switch off
on: switch on
+: scroll up
-: scroll down Fault
alarm
As shown in the figure below, the relevant fault symbol flashes and the icon for the corresponding faulty component flashes. The data displayed are fault codes; their meanings can be found in the fault table.

Symbols for spark plugs, oil pumps, fans, sensors, power supplies, etc. Flashing indicates that the

relevant device is not functioning correctly.



Fault table

Fault code	Cause of fault	Action to be taken
E-01	Start-up failed	Check whether the spark plug is worn out or underperforming, whether the spark plug cap is burnt out, whether carbon is accumulating in the combustion chamber, whether the quality of the diesel is good or poor, whether poor-quality oil is affecting ignition, whether the oil line is blocked, whether the oil pump is insufficient, whether the sensor is worn, and whether there is poor contact between the sensor and the core, etc.
E-02	Flame failure	The shutdown fault is essentially unrelated to the switch base plate. The machine's oil circuit is not smooth, the oil pump is insufficient, there are carbon deposits in the combustion chamber, the sensor is ageing, the contact between the sensor and the core body is poor, the engine speed is too slow, and the intake and exhaust ports are blocked.
E-03	Abnormal voltage	After start-up, the display will show a voltage of 24V or 12V so that you can monitor whether it is falling or rising rapidly. If error E01 is reported, replace the power supply or the connected wires are too thin or too long.
E-04	Sensor	Check that the wire is not broken, or use a multimeter to check for a short circuit. Or replace it.
E-05	Air intake sensor	Replace the motherboard.
E-06	Oil pump fault	Fault in the oil pump, main board, oil pump wiring harness, or oil pump, of which one has a poor connection or is disconnected; replace them one by one to resolve the issue.
E-07	Fan abnormality	The base plate is not secured, the wind turbine is too far from the base plate, a magnet on the wind turbine is missing, and the distance between the wind turbine magnets is incorrect. The wind turbine must replaced.
E-08	Ignition plug abnormality	When troubleshooting, replace the ignition plug or the main .
E-09	Overheating of the casing	The installation space is too small, the oil pump has too high a capacity and the inlet and outlet are blocked.
E-10	Abnormal furnace temperature sensor	Check whether there is a broken wire in the housing sensor, or use a multimeter to check for a short circuit. Alternatively, replace it.
E-11		The connecting wire between the switch and the circuit board is damaged, and the switch, cable harness and circuit board should be troubleshooting.

Instructions for use

1. It is prohibited to use in environments with high humidity, conductive dust, flammable and explosive gases, dust, materials, corrosive media, strong light, and strong magnetic, high-voltage and high-current equipment in the vicinity.
2. Supply voltage range: DC24V controller suitable for (18–32) V; DC12V controller suitable for (9–18) V; controllers with different voltages are not interchangeable and it is prohibited to exceed the applicable 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. If the controller or external components are damaged, they must be replaced with original components by qualified personnel.
5. Do not open the controller housing without authorisation.
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 incorrect wiring, short circuits, or damage to external components or circuits within the controller.
8. In the event of high temperature in the housing and the fan being unable to operate, the housing must be cooled down quickly to its normal temperature. Blow cold air into the combustion air intake to cool the housing and keep its temperature below 100 ℃. Prevent damage to components caused by high temperature or fire.
*We accept no liability for any losses or liabilities caused by incorrect installation and use as per Articles 1–6.

Technical specifications:

Model: WH-3.6D
AC power supply: 230V / 50Hz DC power
supply: 12V 15A Power: 8000 W
Fuel: diesel
Tank capacity: 5 l
Weight: 8.1 kg
Dimensions: 410 x 250 x 315 mm