Attentions

1 For this product the red wire is the Positive and the black wire is the Negative. Please connects the Positive to a positive terminal and the Negative to a negative terminal, connecting reversedly is forbidden.

2 For the first use of this product, pumping oil for about 2 minutes is necessitated. Please fill the oil tube with diesel oil or it will lead to bubbles within the tube and fail the machine's ignition.

3 The length of the connected wire to this product requires to be around 2 meters, please use 2mm² copper wire, and copper wire above 2mm² when the length of the connected wire is beyond 2 meters.

4 This product consumes high-speed diesel oil and please don't use inferior diesel oil, since it will generate carbon deposition which will cause failure in ignition and shorten the machine's life.

5 This product must not use in an enclosed space. It is forbidden to bend the air outlet or the exhaust pipe, and there must be no blockage at the air outlet. Please make sure there is no stuff behind the fan of the machine and keep the air intake unhindered.

6. Must not cut off the power while the product is in use or in the process of shutdown.

7. During installation, the fixed back plate must be kept tightly closed with the automobile penal, in prevention of combustion exhaust gas entering the cab through the gap and causing harm to the driver's body.

8. When installing the air heater, the exhaust pipe must be extended to the outdoors, and the smoke exhaust pipe should be kept away from flammable materials to avoid fire.

9. It is not allowed to set the exit of the exhaust pipe is towards the driving direction

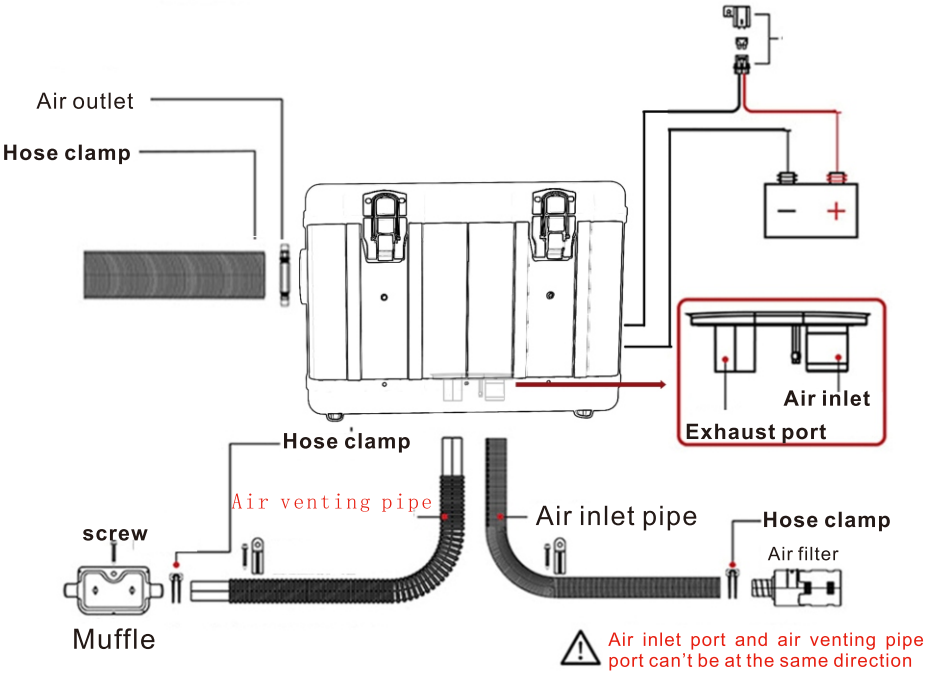
10. No touch on the smoke exhaust pipe while.the air heater is working, and be cautious about getting burned by the high-temperature smoke exhaust pipe,

11.In summer months when the heater is not used, the heating should be turned on for about 10 minutes every month.

12.When the heater service period is approaching, the heater model should be put into trial operation. Please carefully check the oil circuit and whether the connection of the oil pipe is loose, or any aging problem with the oil pipe,

Check the opening of the heating air duct, combustion air duct and exhaust pipe, clean them if necessary, and clean the dust and debris of the machine before use. After the trial operation, check whether there is any oil leakage of the connections of the oil circuit.

Quick Installation Guidance



Pulse oil pump: strictly forbid water inlet-must damage if water inlet, high precision oil pump, lubricating by fuel during operating, water inlet will caused internal components rub consumption make too big clearance and lost precision and damaged (voltage 24V, current less than 1A, flow 68ml/1000 times, frequency less than 5Hz). Frequency oil pump need fully fill fuel before use.

Please tightly lock the connect throat clip, must guarantee the better air seal performance in oil pipe (can't leak air). Too long or too much folding oil transmit pipeline will caused difficulty for oil transmission of frequency oil pump then no enough supply oil.

B2010 Bluetooth Operating Manual（240130_V1.3）

Instructions on displays of the panel in the standby mode:		After the power-on initialization is completed, check the panel (press the confirm button, with one time for one of the followings) which displays the followings circularly. **Display of clock ➞ display of ambient temperature ➞ display of power supply voltage → display of gear/temperature setting → display of shell temperature ➞ display of the failure code in case of a failure**
Instructions on button operating	Standby mode	Power button: short press to power on, and the panel displays ON.
		Up button: temperature / gear +
		Down button: temperature / gear -
		Confirm button: cyclically switch the displays.
		Setting button: set parameter.
	Power on mode	Power button: long press to power off, and the panel displays OFF.
		Up button: temperature / gear +
		Down button: temperature / gear -
		Confirm button: cyclically switch the displays.
		Setting button: set parameter.
Instructions on remote control code matching	Standby mode	Press the setting button and up button at the same time to enter the remote control code matching interface, and the panel displays -PE-; long press the ON/OFF button on the remote control for code matching. After the code matching is successfully finished, exit automatically or press the power button again to exit; it will automatically exit in case of no press for 20s.
Manual/constant-temperature/automatic start/stop mode switching operation instructions	Standby mode/power on mode	When selecting manual and constant-temperature modes in parameter settings, quick switching can only be performed between manual and constant-temperature modes. When selecting the automatic start/stop mode in the parameter settings, quick switching can only be performed between manual and automatic start/stop modes. The steps to switch between different modes are as follows: 1. Press and hold the up/down key simultaneously to switch between constant-temperature mode or automatic start/stop mode. The interface will display "27 ℃" and flash. Press again to switch to manual mode, and the interface will display "P-01" (default manual mode). 2. When the machine is powered on, press and hold the ON key on the remote controller for 3 seconds to cycle between manual or constant-temperature modes or manual and automatic start/stop modes. Each switch must be separated by more than 3 seconds before switching again.
Instructions on manual oil pumping	Standby mode	Press the setting button and the down button at the same time to enter the manual oil pumping interface which displays the time "020" for example. Press the setting button to set the number, press the up button to add the pumping time, and press the down button to reduce the pumping time (manual range of up to 999 seconds). Short press the confirm button to start/stop pumping, while pressing the power button to exit, or the pumping will automatically exit in case of no press for 20s.
Instructions on temperature display switching	Standby mode/power on mode	Degrees Celsius is displayed by default, such as "27℃". In the power-on mode, long press the Up button for 3 seconds to switch the display of Degrees Fahrenheit, and the interface displays "27 ℉"; At this time, any content related to temperature display will be switched to Fahrenheit display;
Ventilation Mode Operation Instructions	Standby Mode	Long press the Settings button and Power button for 3 seconds. There will be "ON" indicator flashing on the interface, indicating that the ventilation mode is activated. Press the up/down button to switch between different levels. For example, if it displays "-P2-" (Level 1-5). Long press the Power button for 3 seconds to exit the ventilation mode, and the "OFF" indicator will flash on the interface.
Instructions on parameter setting (Long press the setting button in the standby mode to enter the parameter setting interface)	Clock setting	The initial time display is "00:00" and the first blank flashes. Press the up/down button to set the number. After the clock setting is finished, short press the confirm button to enter the next blank. The subsequent numbers are set in sequence, and short press the setting button to enter the next item.
	Timed start-up setting	The initial time display is "00:00" and the first blank flashes. Press the up/down button to set the number. After the clock setting is finished, short press the confirm button to enter the next blank. The subsequent numbers are set in sequence, and short press the setting button to enter the next item.
	Timed shutdown setting	The initial time display is "00:00" and the first blank flashes. Press the up/down button to set the number. After the clock setting is finished, short press the confirm button to enter the next blank. The subsequent numbers are set in sequence, and short press the setting button to enter the next item.
	Password input	Initially, it displays " - - - - " and the first blank flashes. Press the up/down button to change the number, and then press the confirm button to confirm it to enter the next blank. The subsequent numbers are set in sequence, and finally press the confirm button to enter the next setting when the password is correct.

	Display of P1H2 on the parameter setting interface	The first "P" indicates the manual mode, the first "t" indicates the constant-temperature mode, and the first "A" indicates the automatic start/stop mode, which can be cycled. After setting, briefly press the confirmation key to enter the next parameter.
		It displays "1" on the second blank for 12V accessories, while "2" for 24V accessories. Press the up/down button to switch to 24V accessories. 12V accessories and 24V accessories can be switched cyclically. After the setting, short press the confirm button to enter the next setting.
		It displays "H" on the third blank for 5KW, while "L" for 2KW. Press the up/down button to switch to 2KW. 5KW and 2KW can be switched cyclically. After the setting, short press the confirm button to enter the next setting.
		It displays "2" on the fourth blank for the 22mL pump, "8" for the 28mL pump and "1" for the 16ML pump. Press the up button to switch to the 28mL pump, while the down button to 16mL pump. The three types can be switched cyclically. After the setting, short press the power button to exit, or the setting will automatically exit in case of no press for 20s.
	Auto-start temperature setting	Select the automatic start/stop mode, press the power button to enter the startup temperature setting interface, and the initial display is "ON: 25"; Press the up/down key to adjust the flashing position, briefly press the confirmation key to enter the next parameter, set the values in sequence, and then briefly press the power button to exit the setting (range: 15 ℃ - 35 ℃); after returning to the main interface, press the up/down button to modify the automatic shutdown temperature; Note: Automatic shutdown occurs when the ambient temperature is higher than the shutdown temperature; after automatic shutdown, when the ambient temperature is lower than the starting temperature, it will start automatically.
	Note: After all parameter settings are finished, please press the power button to confirm and save the settings before exiting. No settings will be saved in case of automatic exit after timeout.	
Bluetooth Connection Instructions	Power On/Standby Mode	**Open the mobile app or WeChat program and navigate to the QR code binding interface.** **1. Click on the "Scan QR code" option and scan the corresponding QR code on the panel. If the connection is successful, it will redirect to the device control interface and prompt that the connection is successful, displaying specific working parameters.** **2.Click on the "Auto-Search Device" option to start automatic searching. If the device is successfully connected, it will redirect to the device control interface and prompt that the connection is successful, displaying specific working parameters.** **(To disconnect the device, go to the personal center, click on "Device management", and follow the steps to unbind the device. Alternatively, long press the Settings button and the Confirm button on the panel for 3 seconds, and the software will prompt that the Bluetooth is disconnected. For detailed Bluetooth operation instructions, please refer to the software's personal center.)** WeChat APP IOS APP Android APP
Instructions on screen off	Standby mode	The screen will completely turn off after no press for more than 5 minutes.
	Power on mode	The screen will turn off after no press for more than 5 minutes If the screen is off, there will be a breathing light prompt and it will display " 🔒 ". Press any button to wake up the screen.

Instructions on failures and how to deal with them	Under voltage	E-01	The voltage is too low: for 24V, lower than 18V, and for 12V, lower than 10V.
	Over voltage	E-02	The voltage is too high: for 24V, higher than 32V, and for 12V, higher than 17V.
	Spark plug failure	E-03/F1	Short circuit of spark plug
		E-03/F2	Open circuit of spark plug
	Oil pump failure	E-04/F1	Short circuit of oil pump
		E-04/F2	Open circuit of oil pump
	Overheating	E-05	The shell temperature exceeds 260℃. Check whether the air inlet and outlet are blocked.
	Motor failure	E-06/F1	Short circuit of fan
		E-06/F2	Open circuit of fan
		E-06/F3	Fan speed not recognized by Hall sensor
	Disconnection	E-07	Check whether the communication cable or plug between the power button and the controller is open or virtually connected.
	Flame failure	E-08	Check whether there is air or wax blockage in the oil circuit, resulting in poor oil supply.
	Sensor failure	E-09/F1	Short circuit of case temperature sensor
		E-09/F2	Open circuit of case temperature sensor
	Ignition failure	E-10	In case of two times of ignition failure, check the reasons such as blocked oil circuit, not smooth oil intake, stuck oil pump or blocked volatile net due to oil problems.
	Failures in ambient temperature sensors	E-11	Ambient temperature sensors are open or short-circuited.
	Controller overheating	E-12	The temperature of the controller exceeds 100℃. Check whether the air inlet and outlet are blocked, or whether the ECU is damaged.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.