VEVOR®

TOUGH TOOLS, HALF PRICE

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DIESEL HEATER

We continue to be committed to provide you tools with competitive price. "Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and doses not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

VEVOR®

TOUGH TOOLS, HALF PRICE

DIESEL HEATER

MODEL:XMZ-D1





MODEL:XMZ-D2



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	Warning-To reduce the risk of injury, the user must read the instructions manual carefully.
	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.
	This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.

SAFETY INSTRUCTION

1. Following measures shall not be adopted
   - Change the important component of the diesel heater.
   - Make use of spare parts from other manufacturers without permission.
   - Disobey the instruction and guide during installation or operation.
2. Only allow using original attachment and spare parts during installation and maintenance.
3. The heaters shall not be used in places where they may form flammable vapor or dust, for example:
   - Fuel depot
   - Carbon storehouse
   - Timber storehouse
   - Granary and similar sites
   - Diesel/petrol station

And keep away from fuel tanks, compression tanks, fire extinguishers, clothes, or

other flammable objects.

4. Do not use cigarette lighter for startup.
5. Do not use the heater in closed and/or unventilated places.
6. The heaters shall be turned off when filling fuel.
7. Do not cut off the electric power in operation.
8. If the fuel leak or discharge from the fuel system of heaters, please contact with VEVOR to repair.
9. Place the exhaust outlet outside to prevent any penetration of exhaust fumes.
10. In the process of work, it is forbidden to cut off the electric power directly to stop the heater from working.
11. Seal all gaps between the mounting plate and the car body.
12. The machine will stop heating after over-temperature protection. Please do not power off. After the machine is naturally cooled and turned off, it can be restarted.
13. After turning off the machine, please do not immediately disconnect the power supply. It takes 3-5 minutes for the machine to stop working completely.
14. After starting the machine for 3-5 minutes, it will work normally and heat up. Please wait patiently.
15. When the heater is just started, the current is relatively high, so an adapter with a voltage of 12V and a current of 15A or greater is required for the power supply.

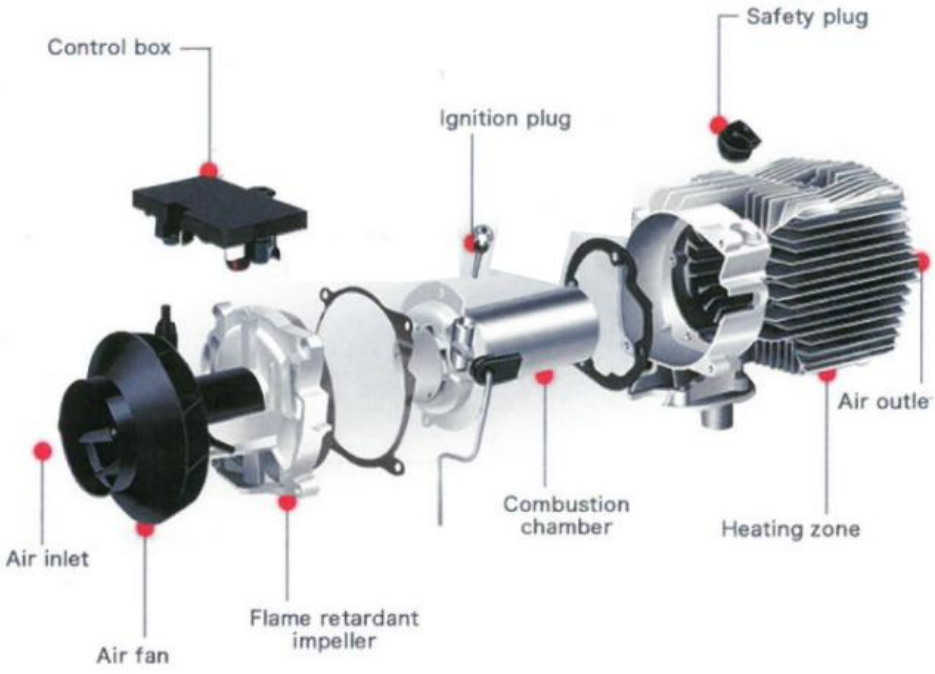
PRODUCT FUNCTION

1.The diesel heater (hereinafter referred to as the heater) is independent of the original engine system. It makes use of a 12V direct current to drive. There are two kinds of control modes for the heater: Automatic control mode and Manual control mode. The heater adopts light diesel which corresponds to the environmental temperature as fuel, and it can be started and operated normally at the temperature of above-40N. The inhaled fresh air is heated to hot air through the heat exchanger by the energy which comes from fuel burning, then blown to where it is needed. This type of heater owns the advantage of compact structure, light weight, high thermal efficiency, economize on electricity and fuel, and easy

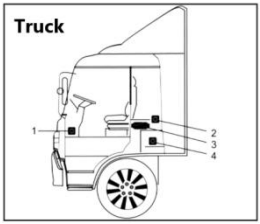
installation.

2.The heater get rid of damage to car caused by the sudden drop of temperature, improve the temperature inside the car, and preheat the engine coolant to avoid the engine wear at low temperature. Conducive to car interior thawing, car start, and car glass defrost fog.

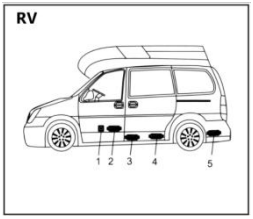
INTERNAL STRUCTURE



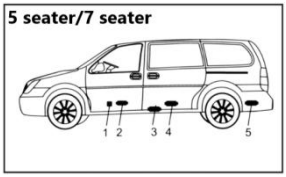
INSTALLATION POSITION



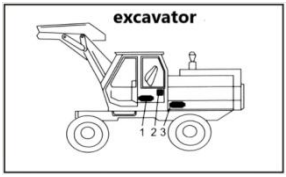
1.On the co-driver's legroom.
2.On the back wall of the cab.
3.Driver's seat backrest.
4.Within the tool box.



1. In front of the passenger seat.
2. Between the driver seat and passenger seat.
3. 3&4 under the container.
4. In the trunk.



The heater is mainly installed in the passenger room or baggage room of the vehicle. If it cannot be installed, fix the heater under the underside of the vehicle, but be ware of splashing.



1.Inside the driver's seat.
2.On the back wall of the cab.
3.Inside the protection box.

MODEL

Model	XMZ-D2	XMZ-D1	
Appearance			
Power ZWH	2/5/8KW	5/8KW	5/8KW
Heating medium	Air	Air	Air
Fuel	Diesel	Diesel	Diesel
Ratings	12V/40W	12V/40W	12V/40W

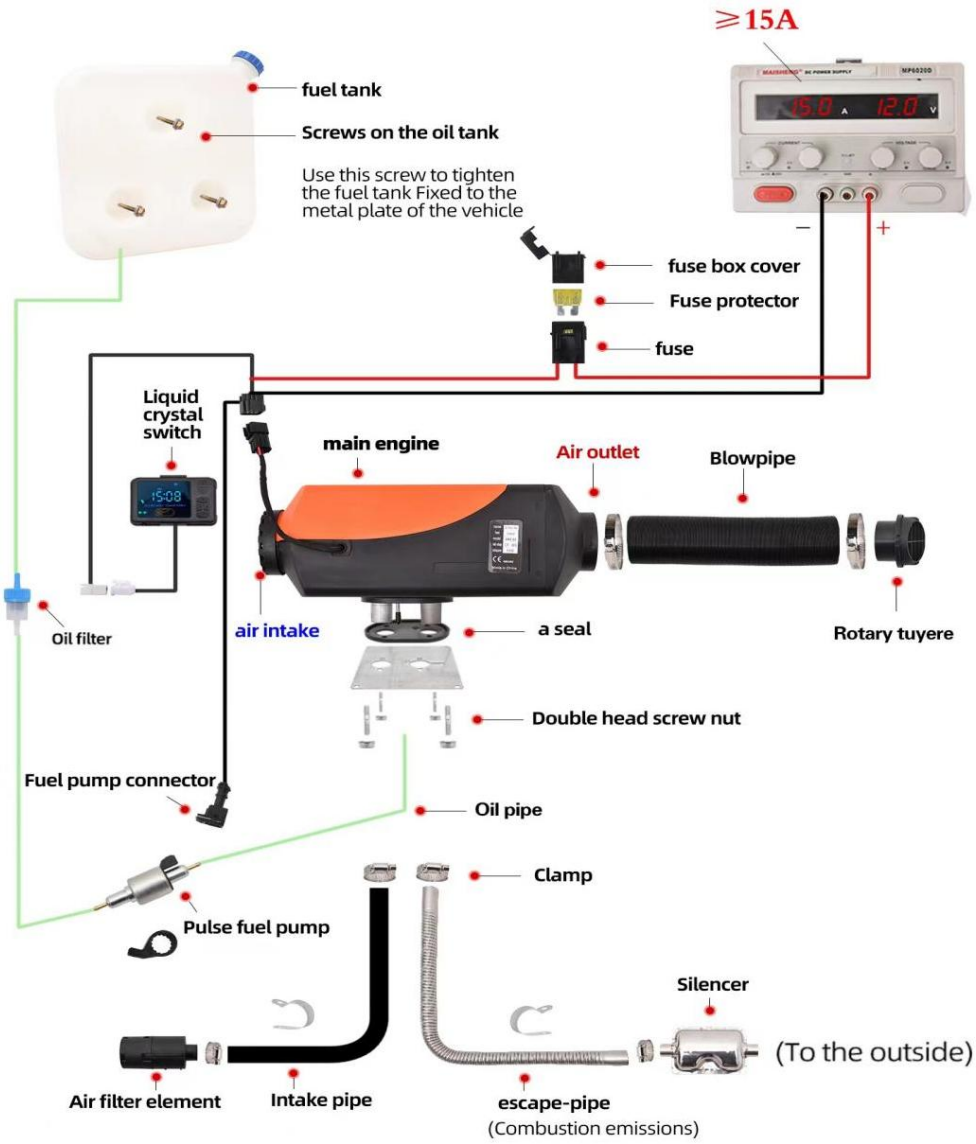
PACKING LIST

Model		XMZ-D2	XMZ-D1
Main engine		1	1
Intake pipe		1	1
Exhaust pipe		1	1
Blowpipe		1	1
Remote control		1	1
Silencer with 1 fixing piece and 2 screws		1	1
Blowpipe clamp		2	2
Clamp		4	4
Pipe clip		2	2

Air filter element		1	1
Nut		5	4
The screw for the lock catch		8	4
Machine fixing screws		1	4
Oil pipe		1	/
Liquid crystal switch		1	1
Rotary tuyere		1	1
Power cord		1	/
Oil filter		1	/
Fuel pump sheath with a screw		1	/
Ribbon		12	/
Oil pipe clip		12	/
Fuel tank		1	/
Oil tank accessories		1	/
Machine fixing piece		1	/
Fuel pump		1	/
User Manual		1	1
Muffler Accessories		1	1

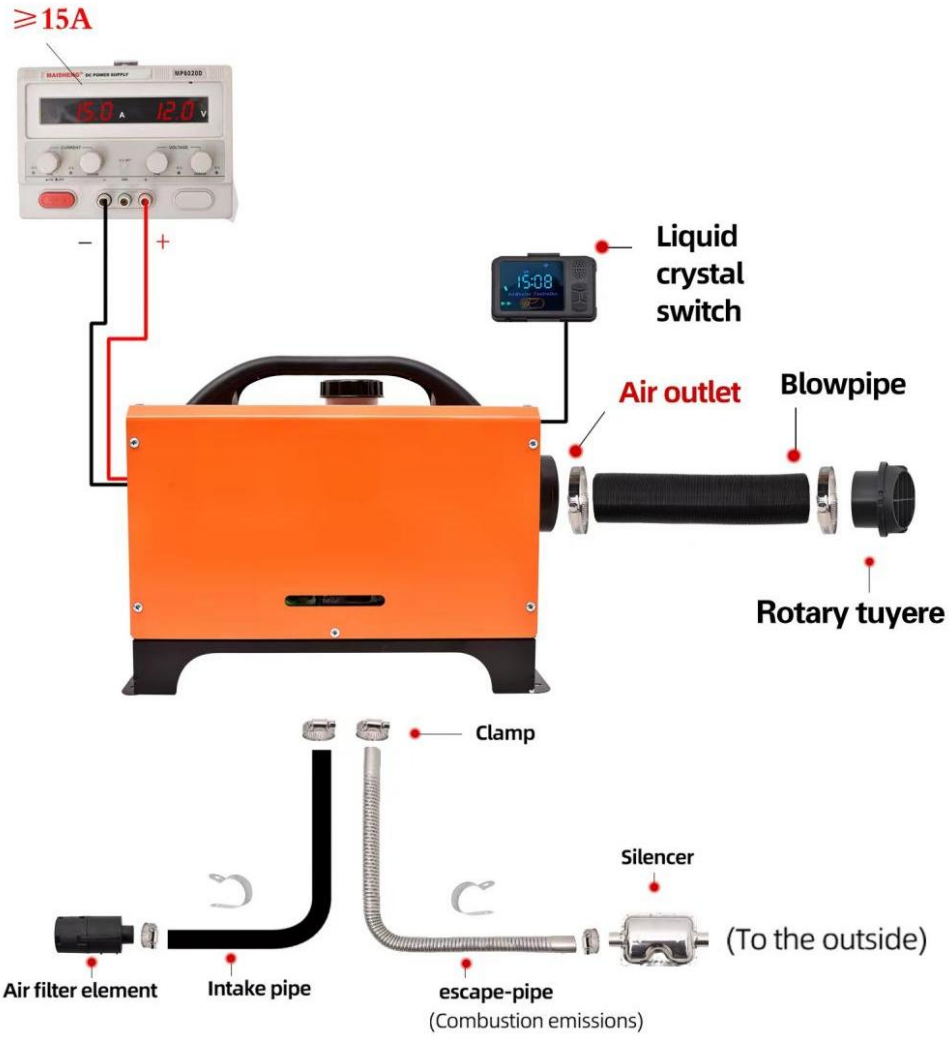
INSTALLATION DIAGRAM

XMZ-D2（Split type）

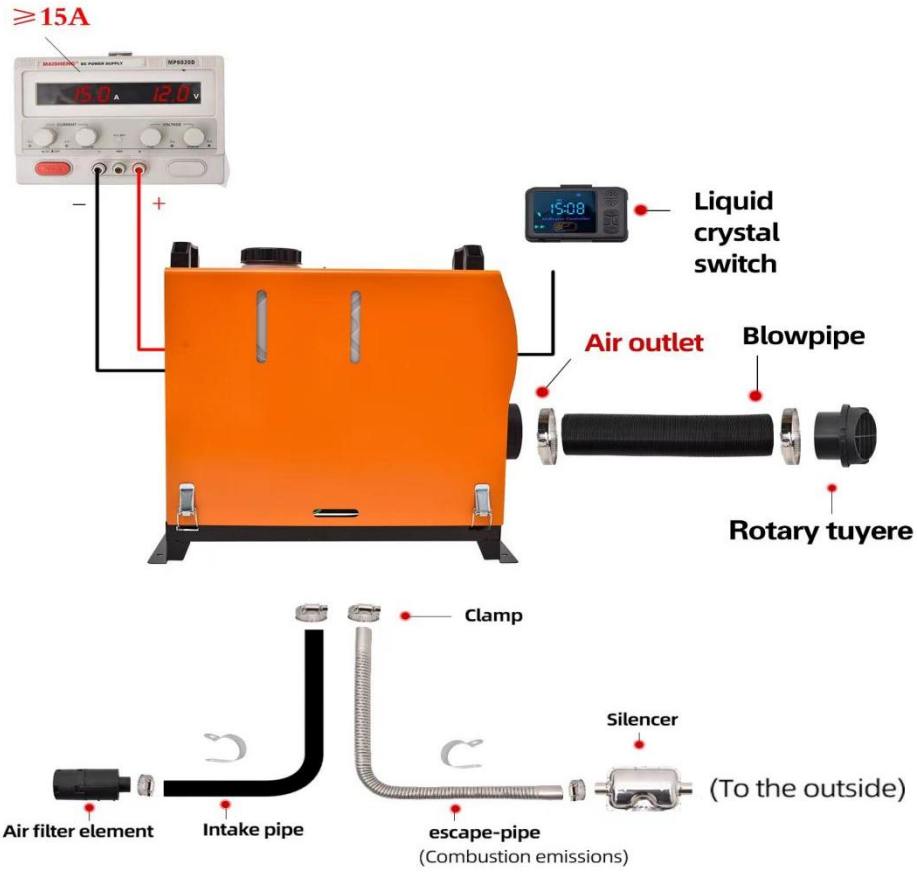


During installation, the oil tank should be properly placed above the main engine to facilitate the operation of the fuel pump.

XMZ-D1（Horizontal type）



XMZ-D1（Vertical type）



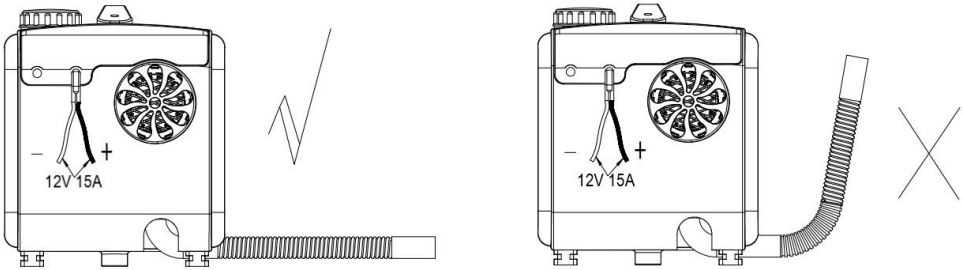
Warning：

1.The air inlet shall not be blocked, and keep the inlet open and clear.

2.Keep the exhaust pipe clear.The exhaust pipe outlet shall be kept away from anything flammable, and avoid heating and igniting the flammable goods and loading cargo on the ground.

3.To ensure optimal combustion, please remember that the smoke exhaust pipe cannot be placed upward, but must be placed horizontally or

downward.



REMOTE CONTROL OPERATION INSTRUCTIONS

After starting the machine for 3-5 minutes, it will work normally and heat up. Please wait patiently.

There are two types of the switchs, the standard one without Bluetooth function and the high-end one with Bluetooth function.

Standard one without Bluetooth function:



1. ON/OFF Key
2. DOWN Key
3. UP Key
4. Displayer

Run Mode declaration:

The heater have manual set the output power mode and automatic constant temp erature mode, in the automatic mode the heater by the temperature difference with setting and room, automatic adjust the output power. In the manual mode the adjustable power range for Level 1 ~ 10, in the automatic mode the setting temperature adjustable for 8 ~ 36 ℃(46.4°F ~ 96.8°F).

Instruction:

•Turn ON/OFF the Heater : Clicked the ON/OFF Key to turn ON or OFF the heater.

•Change the Run Mode : Pushed the ON/OFF key greater than 3s to change the run mode for the heater. it well Loop at manual Mode and automatic mode.

•Change the °C and °F：In the automatic mode pushed the UP Key greater than 3s to chang the °C and °F.

•Output power Level or setting temperature adjust : In the manual mode by the UP key and DOWN Key to adjust the output power. as same in the automatic mode by the UP key and DOWN Key can ajdust the setting temperature.

•Remote controller authorization : When the controller on off status pushed the UP key greater than 2s untill the displayer display "rte" then release the UP Key. Then next, click the key in the remote controller any one. When the controller auto back to off status, it means authorization has succeeded, otherwise repeat above oprate again.

•Time Setting: when controller on On status, pushed the DOWN Key greater than 2s untill the displayer display digital "S01" then clicked the UP or DOWN key to select set project it will loop in



in a project Pushed the ON/OFF Key greater 2s into edit mode and clicked the ON/OFF Key again to exit edit mode. In the edit mode the display blink the set data the running time set range 0.5 ~ 10 hour, set step 0.5 hour. While Timer switch display t-oF the Timer is disable, display t-oN the Timer is enable.

•Select Laugage: when controller on On status, pushed ON/OFF key and DOWN key greater 3s can change the language of the speaker. It' s while looped at u-OF(mute) or u-En(Englist) or u-Ge(German) or u-Ru(Russian).

•Execute pumping Fuel programme independent: when controller on OFF status by first power on and pushed the DOWN Key greater 7s untill the displayer display digital "300" then release the DOWN Key. At the same time the pump will start to pumping the fuel. The displayer display the remain time(Seconds) for this programme. When the remain time less than "0" , the pumping programme over. Clicked the ON/OFF key can halt the programme.

Warning: when execute this programme attention don't pumping too much fuel into the heater.

Fault display: When the heater fails, the display area flashes a fault code, and the fault type is shown in the table below:

code	Fault Message	Handling Method
E-01	Abnormal voltage	1.Check that the heater supply voltage type matches the actual vehicle voltage. 2.Check that the supply voltage is not higher than 18V or lower than 9V. 3.Check that the main harness connector is not loosely connected.
E-03	Ignition plug abnormality	1.Check whether the ignition plug is connected falsely. 2.The ignition plug is faulty; replace the ignition plug. 3.Main board is faulty; replace the main board.
E-04	Oil pump abnormality	1.Check whether the oil pump plug is loose and connected falsely. 2.Check the main wiring harness for disconnection. 3.Oil pump is faulty; replace the oil pump.
E-05	High temperature protection	1.Incorrect or faulty furnace temperature sensor type; replace the sensor. 2.Main board is faulty; replace the main board.
E-06	Fan abnormality	1.Check whether the fan impeller of the car is jammed. 2.Check whether the fan plug is loose and falsely connected. 3.The fan is faulty; replace the fan. 4.Check whether the wind wheel induction magnet is missing or has the wrong polarity. 5.Check whether the main board wind speed sensor is normal. 6.The main board is faulty replace the main board.

E-08	Flame out due to lack of oil	Checking the fuel tank for lack of oil.
E-09	Overheat protection sensor	1.Detect whether the outlet air temperature sensor connector is loose and connected falsely. 2.The air outlet sensor is faulty, replace the main board. 3.The main board is faulty; replace the main board.
E-10	Secondary startup failed	1.Check whether the oil pump works. 2.Check whether the interfaces of the oil circuit are hanging wax and blocked.

High-end one with Bluetooth function:



Key Description

【⏻】On/Off key;

【▲】【▼】: Gear/Temperature/Item adjustment key;
【M】: Mode switching/Setup key;

working mode

① In gear mode, the setting gear can be adjusted within the range of 1 to 10 gears.

② In the temperature control mode, the set temperature can be adjusted within the range of 8~36℃. The gear position of the control switch varies with the temperature in the cab. When the temperature rises or decreases, the control switch will automatically adjust the operating gear position, which is fast reaches the set temperature and allows the heater to operate more intelligently and economically.

③ When a fault occurs during operation, the control switch display window will flash to display the fault code for a more accurate and intuitive finding of the fault.

Operating instructions:

•**On/Off:** Press 【⏻】 to start the machine in the off state; Press 【⏻】 to shut down the machine when it is turned on.

• **Mode switching:** under the temperature control mode, press [M] to switch to gear mode, and under gear mode, press【M】to switch to temperature control mode.

• **Gear adjustment:** press【▲】to run gear/temperature+1, up to 10 gear/36℃, press【▲】to run gear/temperature - 1, down to 1 gear/8℃.

• **Time setting:** In the power-on state, the screen displays the current time, and long press【▲】for 3s to enter the time setting:

Item 1: To set the current time, press【M】to set it, and press【▲】【▼】to switch.

Item 2: Set the automatic start time using the same method as above.

Item 3: Refers to the operation time after automatic startup, and the setting method is the same as above. The switching unit is 0.5 hour.

Item 4: Set the automatic start function ON/OFF. After the automatic start function is enabled, the screen alarm clock icon will always be on.

After all adjustments are successful, press and hold【M】for 3s to save all time settings and return to the operation interface.

Press【M】to set, press【▲】【▼】to switch, press【M】again to confirm the setting,

and after all time settings are completed, press and hold【M】for 3s to set successfully and return to the operation interface;

•**Engineering mode:** Press and hold【▲】【▼】for 3s in the startup state to enter engineering mode, press【▲】item+1, and press【▼】item - 1. In engineering mode, the display area displays data items:
001: Heater main board version number.
002: Fault code.
003: Shell temperature.
004: Power supply voltage.
005: Heater operating gear.
006: Cab temperature.
007: Altitude.
010: Bluetooth matching.

•**Remote control matching:** When the machine is turned on, press and hold【▲】for 3s to display 'rte' on the screen. At this time, press any key on the remote control. If the matching is successful, the system will automatically return to the operation interface.

•**Bluetooth matching (optional):** open the mobile phone applet, press the【Set】key, set the 4-digit password, and then adjust the switch to enter the 010 project in the engineering mode. The interface displays the original password. The code flashes until the original password changes to the set password, and the interface display changes to "SUC". After successful matching, it automatically returns to the operation interface.

•**Query the local Bluetooth name:** After turning on the machine, press 【⏻】【M】for 3s at the same time, the screen displays the Bluetooth name in 4-digit characters (0-F), and the non Bluetooth version screen displays "NULL". Press any key again to exit.

•**Language switching:** Press and hold【M】【▼】for 3s while turning on the machine

to switch, and cycle through the sequence of "English", "German", "Russian", and "voice off ";

•**Oil pumping mode:** Under the first power-on and power-off state, press and hold【▼】for 7s, and the display area starts to count down for 300s to start pumping oil. After the countdown is completed, the pump automatically ends or press【⏻】to end pumping oil and shut down;

•**Fault display:** When the heater fails, the display area flashes a fault code, and the fault type is shown in the table below:

code	Fault Message	Handling Method
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E-06	Fan abnormality	1.Check whether the fan impeller of the car is

		jammed. 2.Check whether the fan plug is loose and falsely connected. 3.The fan is faulty; replace the fan. 4.Check whether the wind wheel induction magnet is missing or has the wrong polarity. 5.Check whether the main board wind speed sensor is normal. 6.The main board is faulty; replace the main board.
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E-09	Overheat protection sensor	1.Detect whether the outlet air temperature sensor connector is loose and connected falsely. 2.The air outlet sensor is faulty, replace the main board. 3.The main board is faulty; replace the main board.
E-10	Secondary startup failed	1.Check whether the oil pump works. 2.Check whether the interfaces of the oil circuit are hanging wax and blocked.

BLUETOOTH OPERATION

Search and download the corresponding APP name "airHeaterBle" in IOS or Android APP store, then please follow the below step to connect and control the heater with a mobile phone.

IOS App

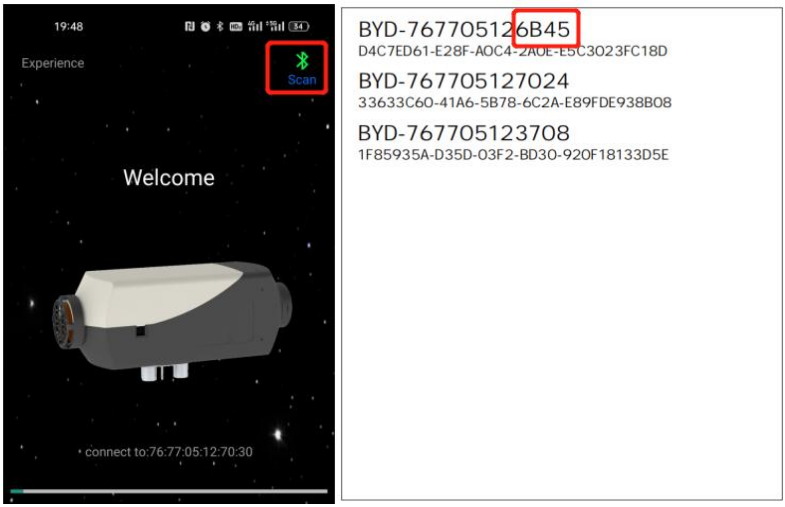
APP Store search “airHeaterBle”

Android APP

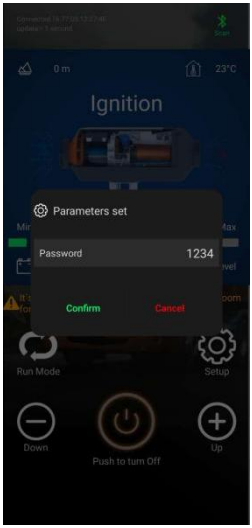
1.Query the Bluetooth name: After turning on the machine, press 【⏻】【M】for 3s at the same time, the screen displays the Bluetooth name in 4-digit characters (0-F).



2. Connect to the mobile phone via Bluetooth: Click on the Bluetooth symbol in the upper right corner, find the corresponding local Bluetooth number: BYD+MAC address of the Bluetooth device+4 digits from the controller(Refer to the picture above), then click on the Bluetooth number to connect.



3.Click the button to go to the settings screen, you can set the password and click "Confirm" to save the settings. If the password is modified, the switch needs to modify the password according to the above Bluetooth matching operation method.



4. Long press the【⏻】to turn on/turn off the heater.



5. Click "mode" button to switch the gear mode or temperature control mode, then Click "up +" /"down -" button to increase + or decrease- the level (level 1-10)/temperature(8°C~36°C).



6. Fault display: when the heater fails, it will display the fault code E-xx, see the table mentioned earlier for the type of fault.



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Pooledas Group Ltd
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Preston, United Kingdom

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SHUNSHUN GmbH
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