



Instructions for use

YAH- A2608

Operating Mode Description

Heating mode: Heating is performed according to the set level, which can be set from 1 to 10 levels.

Temperature control mode: Automatically adjusts the operating level based on the difference between the set temperature and the current ambient temperature. The lowest operating level is 1, which does not stop the machine. Temperature setting range: 46°F ~97°F.

Constant temperature mode: Operates in the same way as temperature control mode. Heating stops when the ambient temperature is 4°F higher than the set temperature. The heater enters standby mode and automatically turns on to continue heating when the ambient temperature is 4°F lower than the set temperature.

Note: The constant temperature mode needs to be set in the settings. After successful modification, it will replace the temperature control mode.

Operating method

Power on: In power- off mode, press the power button to power on. The display screen will light up, showing the current operating status and data.

Power off: With the device powered on, press the power button to power off. The display screen will turn off after the power-off process is complete.

Mode switching: When the device is powered on, pressing the setting button allows you to switch between gear mode and temperature control mode.

Parameter adjustment: Press the increase/decrease button to adjust the setting level or temperature.

Setting Mode

With the device powered on, press and hold the settings button for 3 seconds to enter settings mode. Press the increase/decrease buttons to switch between settings. The specific settings are as follows:

1. Project 1: Current Time Setting
2. Project 2: Scheduled Startup Time Setting
3. Project 3: Setting the runtime after scheduled startup
4. Project 4: Setting to enable or disable the timer function
5. Project 5: Ambient Temperature Compensation Settings
6. Project 6: Bluetooth Function Switch Settings
7. Project 7: Remote Control Function Switch Settings
8. Project 8: Constant Temperature Mode Function Settings
9. Project 9: Temperature Unit Switching Settings
10. Project 10: Screen brightness adjustment after no operation

Function settings

Scheduled power-on

1. **Set the current time:** With the device powered on, press and hold the SET button to enter the SET mode. Item 1 is the current time. Press the SET button to modify it, and press the SET button again to confirm.
2. **Set startup time:** With the device powered on, press and hold the SET button to enter the SET mode, adjust to item 2 (timed startup time), press the SET button to modify it, and press the SET button again to confirm.
3. **Set running time:** With the device powered on, press and hold the setting button to enter the setting mode. Adjust the setting to the running time after item 3 starts, press the setting button to modify it, and press the setting button again to confirm.
4. **Set timer on/off:** With the device powered on, press and hold the SET button to enter the SET mode. Select item 4, timer function on/off, and press the SET button to modify the settings. OF means off, ON means on. Press the SET button again to confirm.

Temperature Compensation Setting

When the ambient temperature displayed by the heater deviates significantly from the actual ambient temperature, the error can be reduced by setting a temperature compensation value. The factory default value is 0°C. Operation is as follows: With the heater powered on, press and hold the setting button for 3 seconds to enter the setting mode. Then, adjust to item 5. Press the setting button once to modify it. The item being set will flash. Use the plus and minus buttons to modify the setting range from -9°C to 9°C. After modification, press the setting button again to confirm. Finally, press and hold the setting button to save and exit.

Bluetooth / Remote Control Function Switch Settings

With the device powered on, press and hold the settings button to enter the settings mode. Adjust the settings to item 6 (Bluetooth function switch settings) or item 7 (Remote control function switch settings), press the settings button to modify the settings. OF means off, ON means on. Press the settings button again to confirm.

Constant Temperature Mode Setting

With the device powered on, press and hold the SET button to enter the setting mode. Adjust to item 8, then press the SET button once to enter the settings. The item to be set will flash; ON indicates the function is enabled, and OF indicates it is disabled. After making changes, press the SET button again to confirm. Finally, press and hold the SET button to save and exit.

When the constant temperature mode is turned on, it will replace the temperature control mode.

Temperature unit switching

With the device powered on, press and hold the SET button to enter the SET mode. Adjust to item 9, press the SET button once to enter the settings. The item will flash. Use the plus and minus buttons to modify the settings, switching between Fahrenheit (°F) and Celsius (°C). After modification, press the SET button again to confirm. Finally, press and hold the SET button to save and exit.

Screen brightness adjustment

To minimize the impact of switching brightness on and off in dark environments, the backlight brightness will automatically decrease after 2 minutes of inactivity on the control panel. The reduced brightness can be adjusted; the factory default is 8. To set it: While the device is running, press and hold the settings button for 3 seconds to enter settings mode. Then, navigate to item 10 and press the settings button once to enter the settings menu. The selected item will flash. Use the plus and minus

buttons to modify the brightness from 0 to 8. 8 means the screen brightness will not decrease. Pressing any button will turn the screen on.

Language switching

When the device is powered on, press and hold the decrease button to switch the voice prompt language.

Remote control pairing / clearing

1. **Pairing:** With the device powered on, press and hold the Add button to enter remote control pairing mode. The screen will display P1, indicating pairing is in progress. Then, press the Add button, Add button, Mode Switch button, and Power button in sequence. Returning to the operating interface indicates successful pairing.
2. **Clear pairing:** With the power off, press and hold the Power button, then turn on the power until the screen changes from CLr to SUC, indicating remote control pairing has been cleared.

Forced fuel pumping

When initially installing and using the heater or when the fuel line is not completely filled with fuel, the forced fuel pumping mode can be used to quickly fill the fuel line. The operation method is as follows: Disconnect the power switch and wait for more than 10 seconds, then connect the power switch. After the screen display goes out, press and hold the decrease button for about 7 seconds to enter forced fuel pumping mode. The fuel pump will work at a higher frequency. Press the power off button to exit forced fuel pumping mode.

Bluetooth connection and APP binding

First, open the APP and add the device via Bluetooth. The APP will automatically search for devices. With the power on, press and hold the increase and decrease buttons simultaneously to enter engineering mode. Then, adjust to item 10. The screen will display the device's Bluetooth ID. Find the corresponding Bluetooth ID and begin binding.

To restore factory settings

While the device is powered on, press and hold the Increase and Decrease buttons simultaneously for 3 seconds to enter engineering mode. Then, navigate to item 11 rEst interface, press and hold the Settings button until the screen self- test is complete. This indicates that the factory reset was successful.

View running parameters

With the device powered on, press and hold the increase and decrease buttons simultaneously for 3 seconds to enter engineering mode and view the heater's operating status.

1. Project 1: Heater motherboard firmware version
2. Project 2: Fault Codes
3. Project 3: Furnace body temperature
4. Project 4: Power Supply Voltage
5. Project 5: Current operating speed
6. Project 6: Switch Ambient Temperature
7. Project 7: Altitude
8. Project 8: Oil Pumping Mode
9. Project 9: Remote Control Pairing
10. Project 10: Bluetooth ID
11. Project 11: Restore factory settings

Firmware upgrade

Fault Codes

When a malfunction occurs during heater operation, the LCD screen will display a fault code. The fault codes and their meanings are as follows:

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Code	Fault Description	Troubleshooting
E01	Failed to start / turn off the fire	1. The fuel tank is short of oil; 2. Check whether the interfaces of the oil circuit
-	Voltage Abnormal	1. Check whether the type of power supply voltage of the heater is consistent with the actual vehicle voltage. 2. 24V version: power supply voltage higher than 32V or lower than 18V; 3. 12V version: Check whether the supply voltage is higher than 18V or lower than 9V; 4. Check whether the main line harness
-	Air outlet sensor abnormal	1. Air temperature sensor plug is loose and virtually connected; 2. Replace the air outlet sensor;
-	The air intake sensor is abnormal	1. If the motherboard fails, replace the motherboard
-	The oil pump is abnormal	1. Check whether the plug of the oil pump; 2. Check whether the main line harness is broken;

Code	Fault Description	Troubleshooting
-	The fan is abnormal	1. Check whether the fan plug is loose and virtually connected;2. Check whether the wind wheel induction magnet;3. If the motherboard fails, replace the motherboard;
E08	The ignition plug is abnormal	1. Check whether the ignition plug is falsely connected;2. If the ignition plug fails, replace the ignition plug;
-	Air channel blockage	1. Check whether the air intake of the heater is blocked2. Check whether the air outlet of the heater is blocked
E10	The overtemperature	1. If the motherboard fails, replace the motherboard;
E11	CO concentration alarm	1. If the CO concentration in the environment exceeds the standard, open the window for ventilation in time.

FCC WARNING

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;cause undesired operation.

(2) This device must accept any interference received, including interference that may Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.