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cameo

Cameo Porcelain Furnace
USER MANUAL



■ Ideal diagnosis and treatment experience

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Even though Aidite (Qinhuangdao) Technology Co., Ltd. has tried its best to prepare this manual, it should only be considered as a guide, which cannot replace good technique judgment. And since we are unable to predict everything in future, it is impossible for this manual to contain all technical and safety information. Please contact us if any problem arises during installation, configuration, and operation.

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FOREWORD

Dear customers:

First of all, thank you for buying our product: Cameo CFP furnace.

For a correct identification of the equipment please refer to the SN. Shown on the acknowledgement of order, on the invoice and on the equipment.

All the products described in this catalogue are manufactured according to high quality control procedures. Starting from the processing of the order to the technical service after delivery,it is carried out in a controlled manner that guarantees the quality standard of the product.



This instruction manual must be read through and observed because it contains further information on the machine’ s intended use and its safe operation. If the customer follows normal precautions for this type of equipment together with the instructions given in this manual, operation is safe.

It can be referred to the instruction manual on the aspects of storing, lifting, transporting, commissioning, operating and maintenance. Please read the instruction manual though before using the machine for proper, efficient and safe use. The instruction manual shall be regarded as a part of the machine and appropriately kept until dismantling of equipment.

The machine is designed for use by trained operators and supervisors. The owner of the machine and anyone responsible for the use of the machine must ensure that the machine is used by competent and authorized persons.

The operators must make sure that they have really understood the machine function as well as all safety and warning information. It is forbidden to operate the machine by any unauthorized persons for any reasons. All operators must be trained so that they will be aware of what they should do in any emergency case. Only the competent person familiar with the machine function and application are permitted to carry out installation, operation and maintenance. These persons must know the details on foreseeable potential hazards. The machine may only be operated, serviced and repaired by duly authorized, trained and instructed personnel. These persons must be informed of details for all the foreseeable potential dangers.

No one may work on the machine or remain in its vicinity if they are not completely fit both physically and mentally, otherwise it may cause injured or damage. It is not our responsibility for the injury, damage or loss of property caused by incompetent persons who operate or maintain the machine against the

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rules.

We are only responsible for machine which remains the same configuration as first installation. It is forbidden to reconstruct machines without permission. Any change in machine configuration or construction must be carried out by our stuffs or persons authorized by us. We are not responsible for injury caused by using spare parts unoriginally provided.

The contents and drawings or pictures attached to the instructions are commercial secret and forbidden to be copied, duplicated, exhibited or sold.

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CHAPTER 1 Precautions for safety and maintenance

1.1 Installation site



The porcelain furnace should be placed in a dry room, and the distance from the wall should be no less than 30cm.

The distance between the two porcelain furnaces should be more than 50cm to ensure safety and heat dissipation.

When the temperature is lower than 15 °C (such as after transportation), it should be left at room temperature for 30 minutes before starting.

Attention should be paid to the heat resistance of the platform on which the device is placed. The thermal radiation and thermal effects released by this equipment are in the non-damage range, but it does not rule out the drop of high-temperature objects caused by improper operation, causing slight discoloration of the working platform.

Flammables are strictly prohibited around the product.

1.2 Idle

When the porcelain furnace is idle, return the tray to the chamber then turn off the main switch.

Close the furnace to protect the insulation of the furnace and prevent moisture absorption.

1.3 Installation and use

Disassembly of porcelain furnace is strictly prohibited for non-professionals;

Open the package, take out the porcelain furnace, place it on a flat and stable table, install it in a clean and ventilated environment, and check the accessories, especially whether the firing platform and honeycomb firing tray are damaged.

The porcelain furnace power supply must have a grounding wire. Check the porcelain furnace power before the furnace running. Read the instructions carefully and check whether there is any packaging inside the chamber and whether the vacuum pump could connect the porcelain furnace reliably.

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Place the firing platform in the middle of the tray.

Porcelain furnace need to be burned three times before they are officially burned.

When the porcelain furnace first time working, it is recommended to run in the standby state for 3 hours, the tray is at the lowest position to remove moisture from the chamber.

Flammable and volatile substances are strictly forbidden in the surroundings. Do not place flammable substances beside the porcelain furnace, and at the same time ensure ventilation and heat dissipation.

When the porcelain furnace needs to be moved, the power must be turned off, and then the porcelain furnace should be handled gently to avoid damage from bumps;

When the porcelain furnace displays please immediately check whether the vacuum pipe is leaking or blocked, and whether the solenoid valve is damaged;

1.4 Cleaning

When cleaning the equipment, do not wipe the furnace upper lid with a damp cloth to avoidequipment damage by dripping water;

When the equipment fault light is on or the buzzer alarms, the fault should be rectified by professional maintenance personnel;

If the fuse blows out, remove the blown fuse from the fuse holder of the porcelain furnace terminal board, replace the spare fuse and tighten the fuse holder.

Note: If you install a fuse other than the original one, please confirm the fuse specifications before installation to avoid safety accidents.

There is a fan on the rear of the porcelain furnace to dissipate heat from the furnace. When the porcelain furnace is working, it is not possible to cover the fan's heat dissipation port or the furnace upper lid;

The porcelain furnace cannot be overhauled during the work. If you want to open the furnace lid, you must ensure that the equipment is powered off to avoid electric shock.

Do not place sundries on the lid of the porcelain stove to avoid fire;

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1.5 Note for vacuum pump installation:



1. Remove the vacuum pump and piping components from the accessory box, connect the piping components to the air inlet of the vacuum pump (note that the arrow indicates the direction of air flow). The muffler link to the exhaust hole of the vacuum pump. When using PTEE Thread Seal Tape to seal, make sure that front end three threads of the joint are not wound around the PTEE Thread Seal Tape to avoid the suction of the vacuum pump.

2. Connect one end of the supplied silicone tube to the vacuum pump and another end to the porcelain furnace the connection must be firm to ensure the airtightness of the connection;

3. Plug the power cord of the vacuum pump into the vacuum pump power outlet port on the back of the porcelain furnace, turn on the main power switch of the porcelain furnace, and press the power switch "1" to turn the power on, “0” to turn the power off.

1.6 Fan

The fan is used to control the temperature, and the system will automatically adjust the switch and speed of the fan. The fan prevents overheating of the porcelain furnace and ensures the safety of the system.

1.7 Automatic temperature adjustment

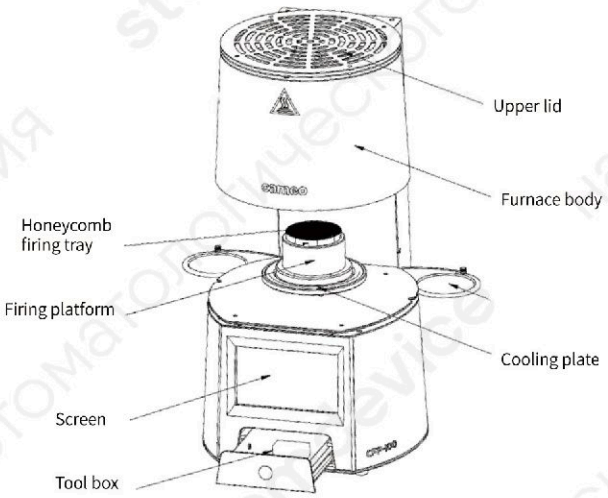
This automatic temperature-regulating system controls all possible deviations from the relevant circuit elements. Under the condition of long time working, the temperature deviation is controlled within ±1℃.

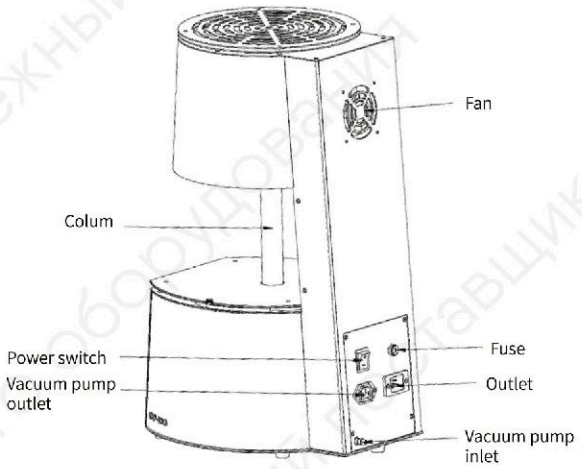
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CHAPTER 2 INTRODUCTION OF THE MACHINE

2.1 Cameo CFP-100 porcelain furnace





2.2 Features:

- Touch screen: 7-inch capacitive touch screen;
- Insulation and refractory materials: new ultra-light, low energy consumption;
- Temperature control meter: high precision, automatic temperature adjustment, temperature accuracy ± 1 °C;
- Vacuum pump: high ultimate vacuum value, maintenance-free, large flow;
- Piping: Multi-layer filter structure, which improves the stability and life of components;
- Vacuum performance: vacuum design, providing excellent air tightness;
- Alert function: status indicator and buzzer sound, real-time prompt status of porcelain furnace;

2.3 Software

- 3 built-in programs and 117 programs;
- Two-stage heating function;
- Remaining time: display the remaining time of the heating program;
- Standby function: ensure the furnace dry;

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- One-button sleep function: realize low-power standby;
- Temperature calibration: ensure the temperature control accuracy of the porcelain furnace;
- Language selection：Chinese/English
- Equipment self-test: ensure stable operation of various functions;
- Furnace cleaning function;

2.4 Specification

1	Dimensions	362X316X596mm
2	Weight/Package	28KG/34KG
3	Chamber	95mm*65mm
4	Tray diameter	90mm
5	Voltage	220V/110V 50Hz /60Hz ;
6	Power	1.5KW
7	Maximum Power	1.8KW
8	Temperature range	50—1100°C
9	Rate	1°C ~100°C /min
10	Temp. Accuracy	±1°C
11	Screen	Touch 7 inch
12	Fuse	220V---10A/250V
		110V---15A/250V

Vacuum pump：

1	Dimensions	350*130*220mm
2	Evacuation rate	30L/min
3	Ultimate pressure	50mbar
4	Voltage	220V /110v AC 50/60Hz
5	Power	430W
6	Air inlet	Φ8mm
7	Air outlet	muffler
8	Working temperature	7-40°C

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9	Weight	10KG
10	Noise	<60dB

2.5 Packing and Accessories List

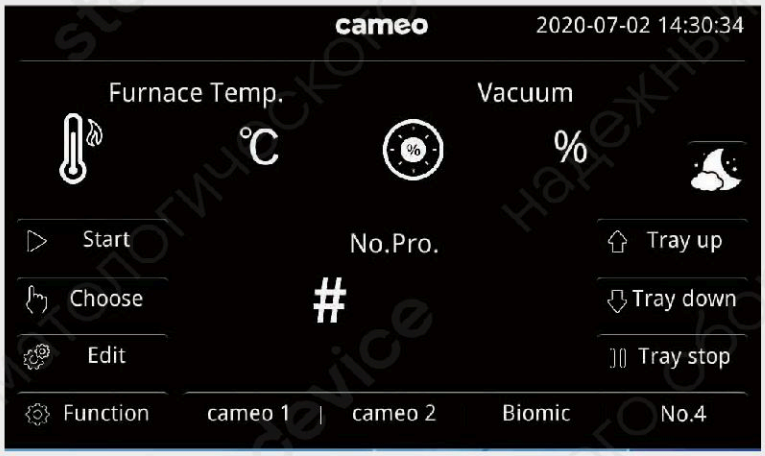
No.	Name	Amount
1	CFP-100 porcelain furnace	x 1
2	Power cable	x 1
3	Crucible tongs	x 1
4	Honeycomb firing tray	x 1
5	Ceramic Pin	x 1 pack
6	Firing platform	x 1
7	Tray seal ring	x 1
8	User manual	x 1
9	Fuse	x 1
10	PTCR	x 3
11	Active carbon(50*50*30mm)	x 1
12	Vacuum pump 220V,50/60Hz; 110V, 50/60Hz（optional）	x 1
13	Vacuum pumppower supply（optional）	x 1
14	Vacuum tube（optional）	X 1

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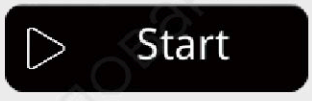
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CHAPTER 3 OPERATION GUIDE

3.1 Main interface



The main interface displays the current chamber temperature, vacuum and program number in real time. (the state lamp will flash green)

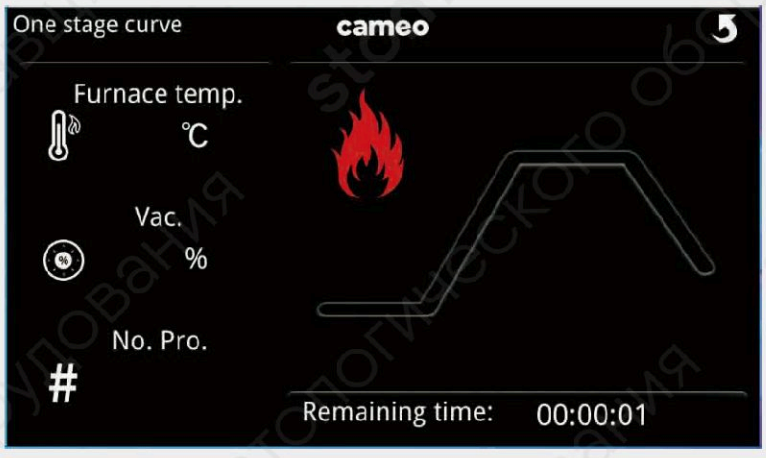
	Current furnace temperature
	Degree of vacuum
	Enter into the sleep mode
	Program number currently
	Start the heating program
	Select or change program

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Edit	Enter the heating program parameter setting interface
Function	Enter the functionsetting interface
Tray up	Control of tray up
Tray down	Control of tray down
Tray stop	Tray stop
cameo 1	Built-in Aidite glass ceramic heating program 1 – intend to be used on inlay and veneer application.
cameo 2	Built-in Aidite glass ceramic heating program 2– intend to be used on crown and bridge application.
Biomic	Built-in Aidite zirconia spray heating program

3.2 Heating interface-one stage heating

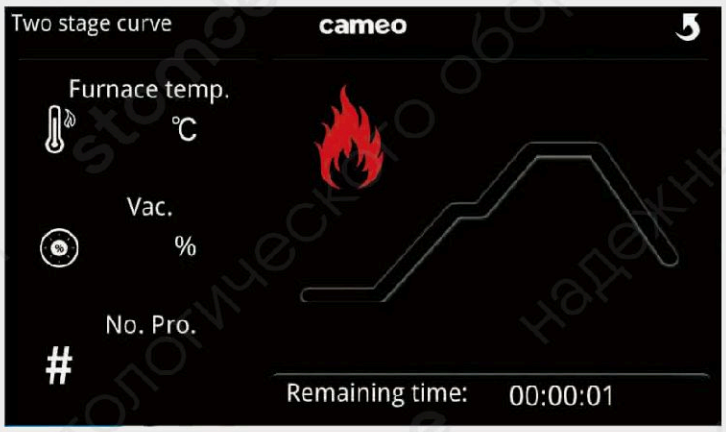


Current chamber temperature, vacuum level, and programexecuted, and the remaining time

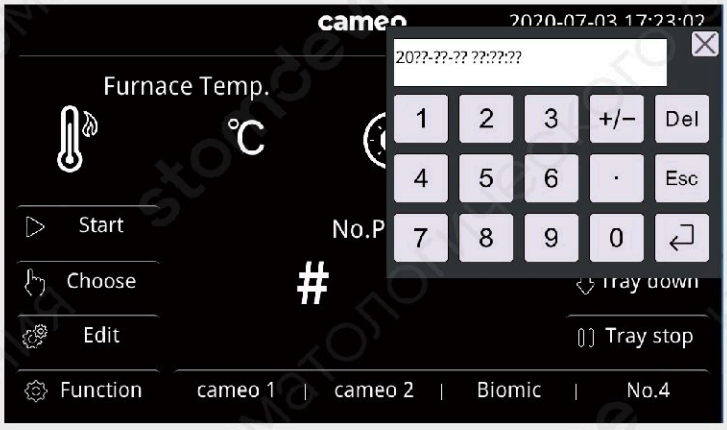
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3.3 Two-stageheating program

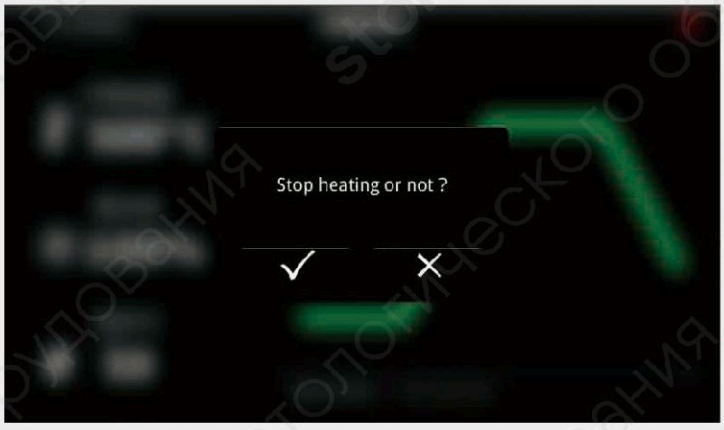


Current chamber temperature, vacuum level, and program executed, and the remaining time



Time required for the end of the program

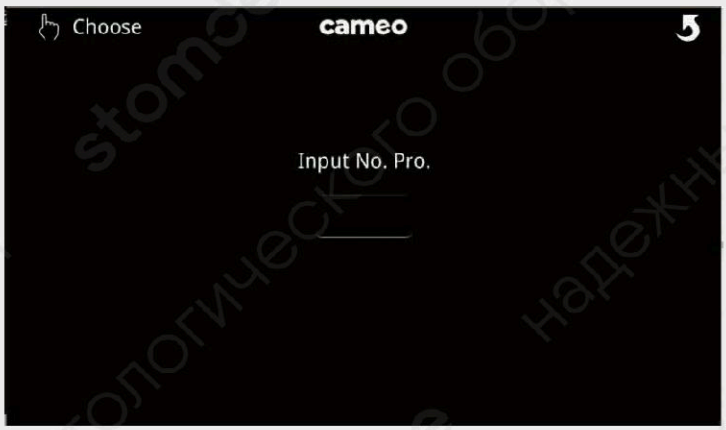
3.4 Confirm exit heating interface



If you want to stop heating during the heating process, click the stop return button in the upper right corner, pop up the confirm window.

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3.5 Program selection interface



The interface design has a selection program window and a back button.



The number keyboard:

Enter the program number (program number range is 1 to 120), click Enter to exit the keyboard, click the back button in theupper right corner, and then return to the main interface.

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3.6 Parameters setting interface



Heating programparameters set

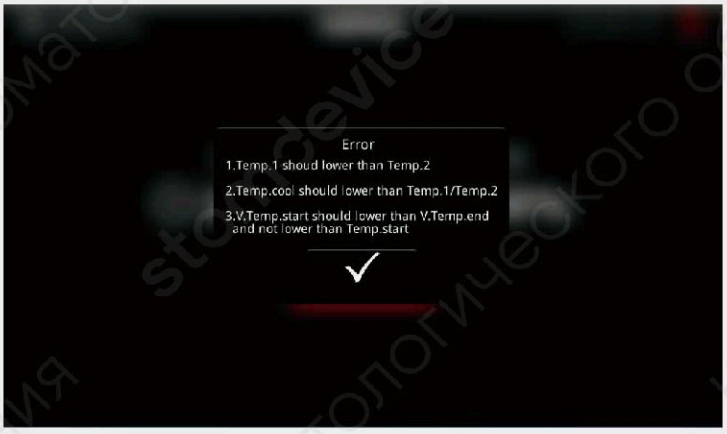
including parameter settings for glazing program only，one-stage program and two-stage program.

Vacuum	Control Vacuum function On/Off
2nd heating	Second-stage program
Temp.start	Start temperature: Indicates the start temperature of the heating program.
Time.dry	Drying time: Controls the duration of the furnace closing process.
Rate. 1	Rate 1: Defines by how many degrees per minute the furnace heats up in first-stage.
Temp.1	Temperature 1:The highest temperature in heating program in first-stage
Hold 1	Hold 1: Indicates how long an object is fired at the Temp.1 in first-stage
V.Temp.start	Vacuum temperature start: the temperature at which the vacuum is activated.
V.Temp.end	Vacuum temperature end: the temperature at which the vacuum is deactivated.
Rate. 2	Rate 2: Defines by how many degrees per minute the furnace heats up in two-stage.

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Temp.2	Temperature 2: The highest temperature in heating program in second-stage
Hold 2	Hold 2: Indicates how long an object is fired at the Temp.2 in second-stage.
Temp. cool	Temperature Cooling: the end temperature of heating program, control the furnace chamber open.
Time Down	Tray down time: Control the duration of the tray down from high position to low position.

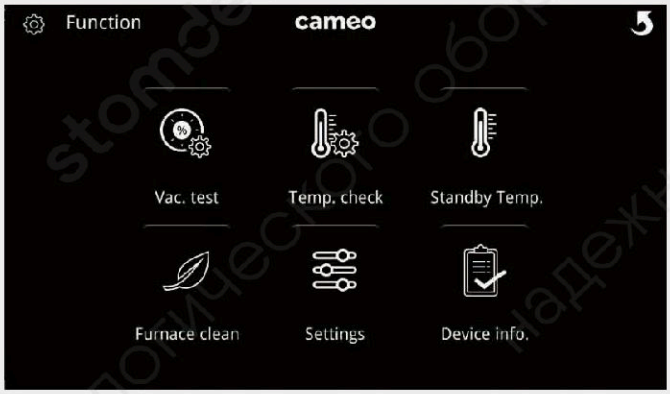
3.7 Parameter setting abnormal alert

	There is a logic error in the set parameters. Please determine the contents of the 3 prompts.

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3.8 Function setting interface



The interface containsvacuum test, temperature calibration, standby temperature setting, furnace cleaning, system setting, and equipment information.

3.9 Vacuum test



Click the vacuum test button to enter the vacuum test interface.

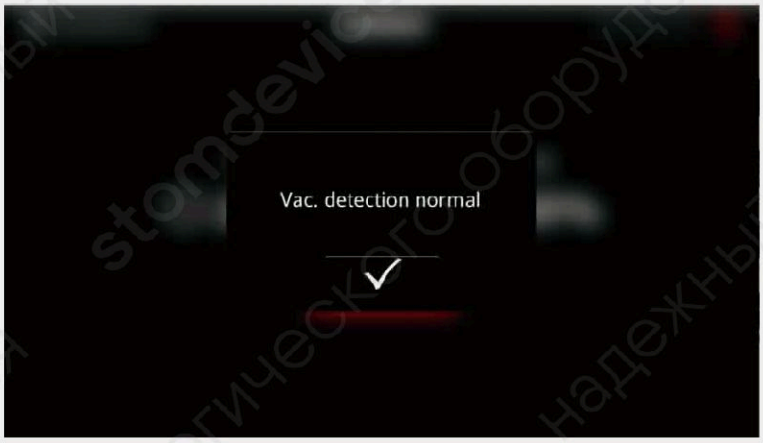
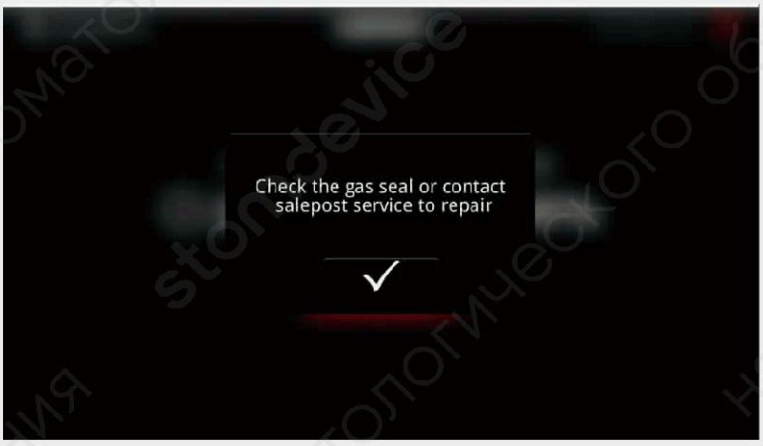
The timer on the left start timing, and the vacuum meter on the right displays the current vacuum value.

3.10 Vacuum test interface

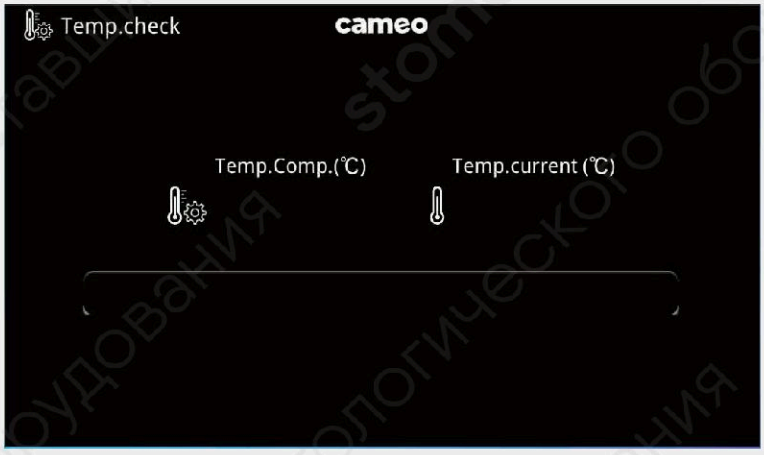


Click "√" to perform the vacuum test. Click "X" to return to the vacuum test interface.

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	When the vacuum value reaches 90% in 120s, it indicates the vacuum value is qualified and an OK prompt window will display.
	When the vacuum value does not reach 90% within 120s, a vacuum detection abnormal promptwindow will display.

3.11 Temperature check

	If the chamber temperature deviates from the set temperature, use the temperature calibration to adjust the temperature accuracy.

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Placethe PTCR in the center of the honeycomb firing tray on the firing platform holding for 60 minutes while the chamber temperature reached 800 ° C. Thenlower the trayto the lowest position, get the average value of three times measurement of the PTCRouter diameter when it lowered to room temperature. You can find the actual temperature value Xof the furnace by referring to PTCR temperature table, while the set temperature is 800 ° C. If X is higher than 800 ° C, enter-(X-800) in the temperature correction prompt window; otherwise, if X is lower than 800 ° C, enter the value after (800-X) in the temperature correction prompt window. The temperature calibration complete.

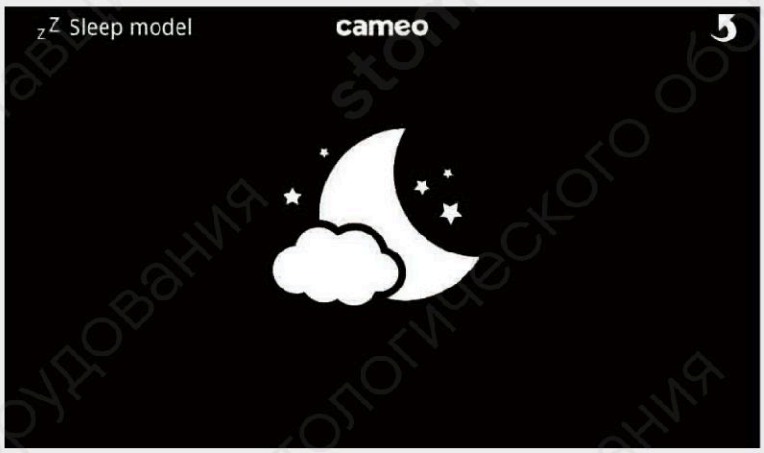
3.12 Standby temperature setting



Standby temperature setting interface

Used to set the temperature for starting the standby temperature function, range (100-450 ° C)

3.13 Sleep model interface



Sleep model interface

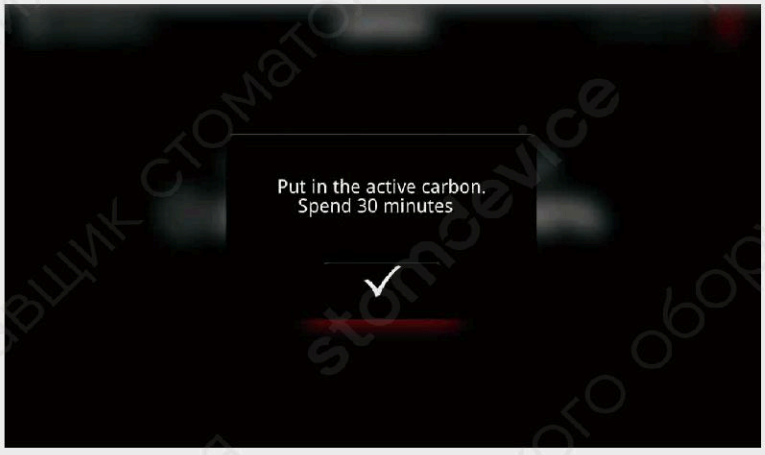
After the heating finish, the furnace can be set into sleep model manually or automatically, the platform can be raised to close the furnace chamber, and the temperature can be kept at a constant 100°C .

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3.14 Furnace cleaning



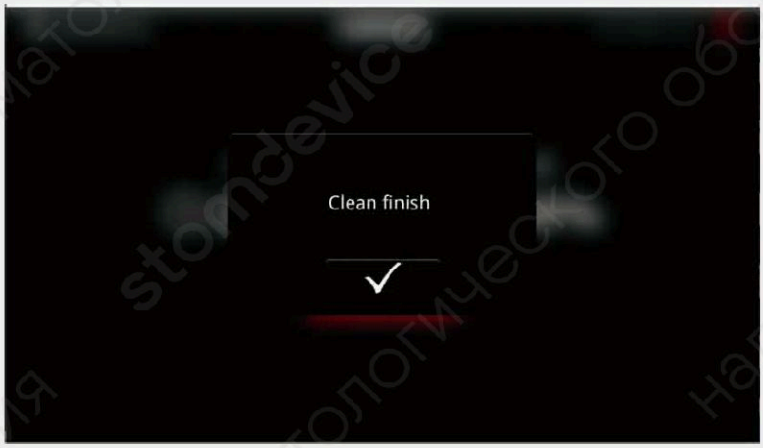
The Furnace cleaning function will be booted when the temperature between 190°C and 210°C



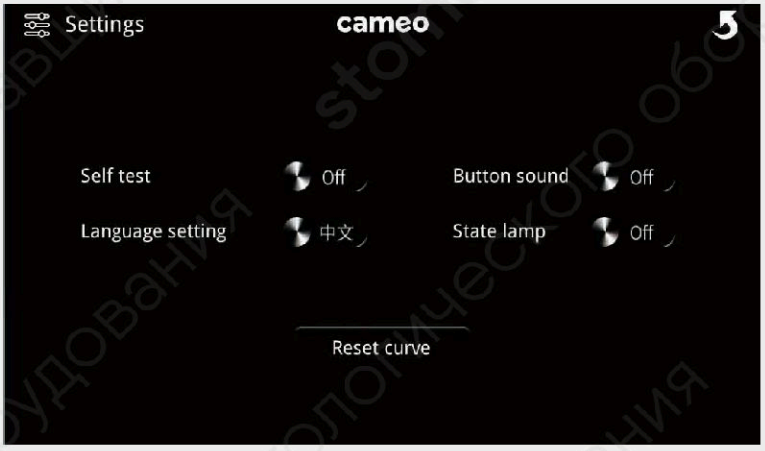
Place the active carbon on the tray and prompt the dialog box. At the same time, the tray will be lowered to the bottom, and then place the crucible containing activated carbon on the firing platform. Click the confirmation button, and the tray will automatically rise until the furnace door closed, and then the temperature will start.The tray was lowered to the bottom after holding at 200 ° C for 30 minutes. After taking out the crucible and activated carbon bag, the cleaning was completed.

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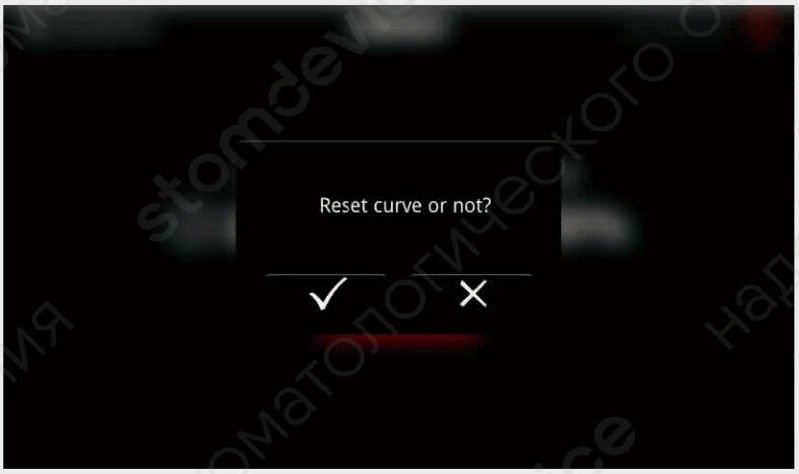
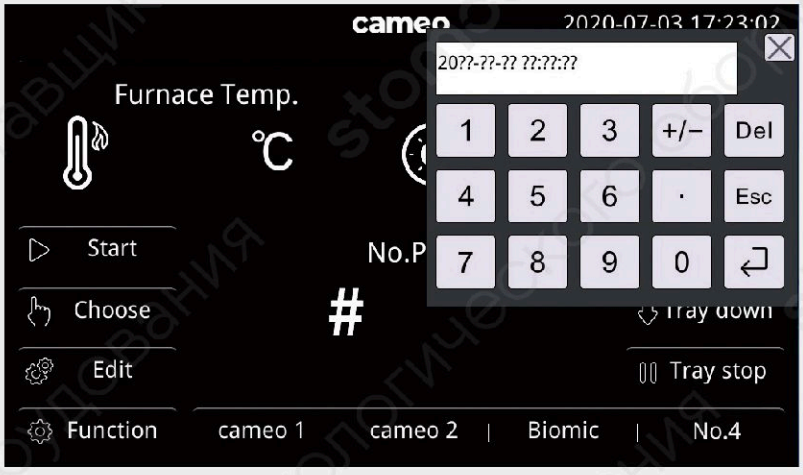
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	The cleaning work is finished.

3.15 Settings

	System settings interface Contents include Selftest setting, Buttonsound setting, Language setting, State lamp setting and Resetcurvesetting. The function of Resetcurvesetting can restore the currently set heating program parameters to the factory state.

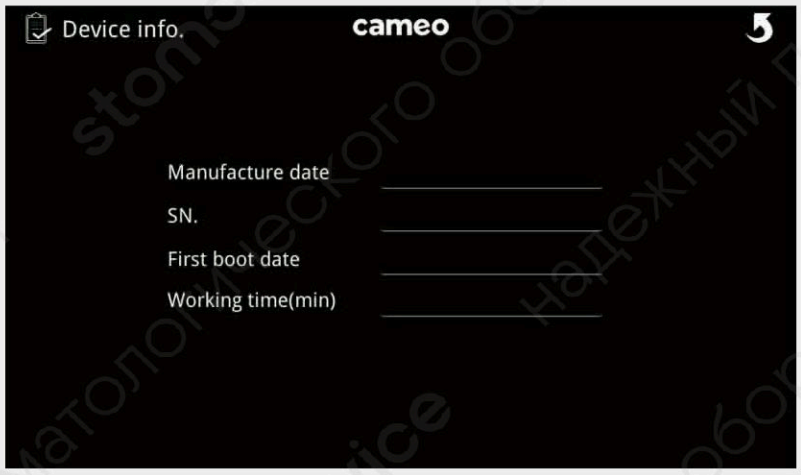
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	Equipment self-test interface, run the lift test, Vacuum test, heating test, automatically
	Reset curve which all have been set by past use.
	Press the upper right of the main interface, will pop up the date setting window.

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3.16 Device Information



The equipment information mainly includes the date of manufacture, serial number, date of first start-up, and accumulated working time. The accumulated working time is used to record the highest temperature holding time of the sintering curve.

3.17 Communication error



Communication error:

Check whether the I/O expansion board wire is loosen.

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CHAPTER 4 WARRANTY

Aidite warrants the CFP-100 and CFP-200 to the original purchaser against defective workmanshipand materials under normal procedures of installation, useand service within the dental profession, for a period of 1 year or 2000muffle hours, whichever occurs first.During which time Aidite will replace, repairor deny warranty coverage at its discretion. Heat treatingrefractory materials, misuse, improper installation, impropermaintenance, accident or abuse will void the warranty. Aidite coverage only applies toAidite supplied parts, andrepairs performed byAidite certified repair technicians.Repairs performed during the warranty period do not extendthe warranty period. Shipping damage is only covered fromAidite to the intended recipient.

The warranty period is one year from the date when the equipment is first started.

If the porcelain furnace sold with a third-party vacuum pump. The warranty period of the vacuum pump is based on the time and standard of the manual attached to the vacuum pump.

The parts available for warranty as following:

ITEMS	#REF
Vacuum pump	CFP-100-003
Vacuum pump	CFP-100-004
Furnace Assembly-110V	CFP-100-005
Furnace Assembly-220V	CFP-100-006
O-ring seal	CFP-100-012
Temp. controlled meter	CFP-100-013
Touch screen	CFP-100-017
Magnetic	CFP-100-018
limit switch	CFP-100-019
Motor(110V)	CFP-100-021

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Motor(220V)	CFP-100-022
PCB board	CFP-100-027

Heating program

	Closing Time (min)	Start Temperature (°C)	Heating Rate (°C /min)	Firing Temperature (°C)	Holding Time (min)	Final Temperature
Cameo1	4	450	40	840	2	500
Cameo2	4	450	40	840	6	500

Cameo1: cameo Glass Ceramic - Veneer, Inlay , Onlay program

Cameo2: cameo Glass Ceramic - crown, bridge program

	Closing Time (min)	Start Temperature (°C)	Heating Rate (°C /min)	V.Temp. start (°C)	Firing Temperature (°C)	Holding Time (min)	V.Temp.end (°C)
Biomic	8	450	55	450	730	1	730

Biomic: Biomic first sintering program(2D paste/3D paste/Glaze-F)

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