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ALP SERIES (A)

AIR-BLAST DRYING OVEN

USER MANUAL

Thank you for choosing **ALP** products. Please read this manual carefully before you operate the air-blast drying oven. And keep it properly after you read it. We believe this manual will help you operate the oven well.

➤ Summary

Provided to industrial and mining enterprises, laboratories and scientific research institutes for desiccation, torrefaction, wax-melting and sterilization.

➤ Primary Technical Characteristics

Model Spec	ALP-9030A	ALP-9140A	ALP-9203A	ALP-9620A
Working room size (L*W*H)	340×320×320 mm	450×550×550 mm	600×550×600 mm	800×600×1300 mm
Shelf	2	2	2	3
Temperature range	RT+10℃ ~ 250℃			
Temperature Fluctuation	± 0.5℃			
Watt	550W	1500W	2000W	4500W

➤ Installation and adjustment

- 1) Don't collide the body and make an effort on its glass in the middle of transportation.
- 2) The equipments should be placed steady after falling to the ground.
- 3) Don't use the equipment in the place where is sunlight or heat damp.
- 4) The equipment should be keep off the electromagnetism interference source, and connect equipments a ground of line connect ground effectively.
- 5) The equipment while circulating normally, product inside the box's putting to put should not run into inside the wall.
- 6) The power cable never mind depends a behind, also not let the instrument or other products press on-line in the power supply in order to prevent hurts power cable.

➤ Usage

1. Open the door and put the samples on the shelf in the working room, then close the door.
2. Connect power supply, insert the power supply plug into the AC outlet, the power switch of the front-panel place in the position of "open", the gauge appears the numeral manifestation, means the equipment at the working condition.
3. Set the temperature you need by temperature controller on the panel.
4. The oven begins to work, and temperature inside the working room will reach the setting temperature by the controller, then the running finish after complete the dry processing.
5. Turn off the power supply, and wait for a moment until the temperature inside the oven close to the environment temperature. Then open the door, take out the sample.

【!】 Hint specially

Pay attention to the temperature in the box when opening the door to take out the sample, so as to avoid scalding.

FCD-2000

Intelligent temperature Controller Operating instructions

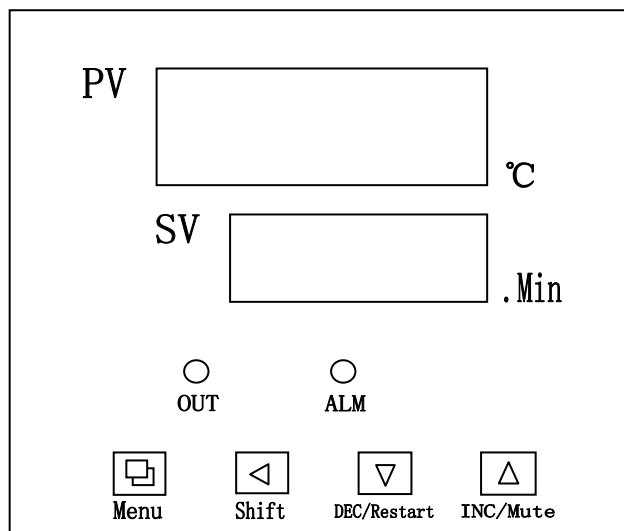
1、 Brief introduction

Power: 220V±10%

Range of time: 0~9999 Minute;

Sensor: Pt100;

2、 Panel Instruction



3、 Operating

When it is switched on, “8888...”displays for about 4 seconds, it starts running. Press the temperature menu button “”, the controller runs into the temperature / time setting state, the under window of controller displays the symbol of temperature setting “SP”, and the over window of the displays the set value of temperature, the user can adjust the value according to the needs. Re-press the button, the controller runs into the time setting state, the under window of controller displays the symbol of time setting “St”, the over window displays the set value of time, the user can adjust the value according to needs (0~9999) (If the working time is set as 0000, it indicates the timer is inoperative, the controller will run continuously). Press the button again, then it returns to the running state. Press the menu button of temperature for 3 seconds, it runs into the internal value setting

state; if press another 3 seconds, it will return to the running state. In the above mentioned 2 states, if there is not any operation for 30s, the controller will auto quit the above mentioned states and the adjusted value will not be saved. When the runtime is over, the over window of controller will display “End”, the buzzer will sound for 30s, then it can be muted by pressing the button “▲”. When press the button “▼” for 3s at the time, the program will restart then.

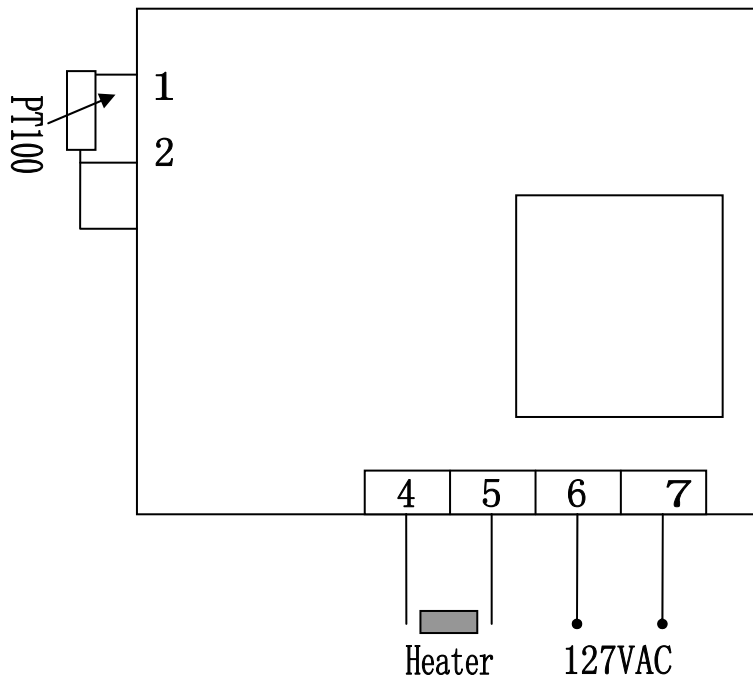
When the heater is working, the ALM indicator turns on.

When temperature is beyond “SP+AL”, the ALM indicator turns on.

4、Parameter list

Parameter indicator	Name	Instruction of the function	Factory set value
Lc-	Password	When Lc=3, then we can enter the next parameters listed.	0
P--	Proportional band	Adjustment of proportional function.	(8.0~50.0) 35.0
AL-	Alarming setting	When temperature is beyond “SP+AL”, the ALM indicator turns on. The buzzer sounds and the heater output turn off.	(0.0~20.0) 20.0℃
Pb-	Zero point adjust	When the zero error comparatively larger, to update this value should be needed. Pb=measure value –actual value	(-9.9~9.9) 0. 0
PK-	Full point adjust	When the full point error also comparatively larger, to update this value should be needed. PK=1000× (measure value –actual value) / actual value.	(-999~999) 0
rH-	Range of temp setting	The range of temperature setting.	(0.0~400.0) 300.0

5、Wiring



Regulation

- 1) Chemistry product of the combustibility and volatility can't put into the oven.
- 2) Please turn off power immediately if meet some abnormal condition like distortion, smoke or fire. The customer shouldn't fix the problem blindly, and should notify ALP TECHNOLOGY, and the engineer will show the solution ASAP.
- 3) The inner of the oven need to clean including the viewing window. Don't use sour, alkali or other causticity for cleaning.
- 4) If the oven doesn't work for long-term, it should be shut down the power in order to prevent hurting the people. And the oven should be run 2-3 days during 90 days in order to avoid the moisture damage the components of the oven.

Electrical circuit diagram

