

## AE LAB Digital Vacuum Oven

### Summary:

It is widely used in the fields of biochemistry, chemical industry and pharmacy, medical and health care, agricultural scientific research, environmental protection and other research and application, for powder drying, baking and disinfection and sterilization of all kinds of glass containers. Especially suitable for drying heat sensitive, easy to decompose, easy to oxidize substances and complex components of the rapid and efficient drying process.

(Digital display vacuum meter automatically controls vacuum, providing you with more accurate and effective vacuum control. The vacuum degree can be easily controlled through the panel, and the vacuum degree can be easily controlled in the range of 99.99kpa~0.13kpa between any two points or areas. The control accuracy of the vacuum pressure sensor is  $\pm 1\%$ . Vacuum meter adopts resistance silicon tube pressure sensor to ensure stable pressure value and provide you with more accurate and effective vacuum control)

### Advantages of vacuum drying technology

1. Vacuum environment greatly reduces the boiling point of the liquid to be expelled, so vacuum drying can be easily applied to heat sensitive substances;
2. For samples that are not easy to dry, such as powder or granular samples, vacuum drying method can effectively shorten the drying time;
3. Vacuum drying method is used for all kinds of mechanical parts with complex structure or other porous samples after cleaning, and no participating substances are left after complete drying.
4. Safer to use -- in vacuum or inert conditions, completely eliminate the possibility of oxide explosion when exposed to heat;
5. In contrast to ordinary drying, which relies on air circulation, the powdered sample will not be blown or moved by moving air.

### Features:

1. The heating element is located around the outside of the oven and on the back wall, and the aluminum plate material with better thermal conductivity is added, which can make the temperature evenly transmitted into the oven. (90L/210L/500L models use layer plate heating mode) heating elements distributed in the shelf, can accurately control the temperature of each layer of materials need to be heated, in order to ensure the stability of the sample experiment.
2. The advantages of vacuum drying technology control display system, using a large LCD color screen, display temperature and set temperature are represented by different colors, at a sight to observe the actual operating status of the equipment.
3. Cuboid studio maximizes the effective volume, and is equipped with multi-layer shelf, which is convenient for customers to adjust in different sample volume experiments
4. Nitrogen air inlet, the equipment standard nitrogen air inlet, if the experimental sample needs an inert environment, can be filled with inert gas or other gases through the air inlet
5. Spring door structure, so that customers can close the door when vacuuming, can better seal the box, the follow-up door can be opened without strong sliding door.
6. The working chamber is made of stainless steel plate, and the casing is made of high quality cold rolled steel plate, with electrostatic spray on the surface.
7. Fahrenheit/Celsius free conversion, to meet different customer needs. (DZF-6050 has this function)
- 8: hyperbolic temperature calibration system, more accurate temperature measurement.
- 9: Standard with large LCD color screen, multiple groups of data a screen display, menu type operation interface, easy to understand, easy to operate.
- 10: Adopt overtemperature deviation protection, microprocessor PID fuzzy processing controller, quickly reach the preset temperature stable operation.
- 11: The sealing design of the new synthetic silicon sealing strip effectively prevents heat loss, and can prolong the energy saving of each component on the basis of 30% Service life.
- 12: double bulletproof glass observation window, observe objects in the working room, at a glance.
- 13: the tightness of the door closure is completely adjusted by the user. The silicone rubber door sealing ring formed as a whole ensures the high vacuum degree in the box.
- 14: imported vacuum valve, avoid the traditional vacuum valve long time use caused by the drop problem.

### Specifications

Model	AE-HZ6020L	AE-HZ6050L	AE-HZ6090L	AE-HZ6210L	AE-HZ6500L
Power Requirement	AC220V 50HZ			AC380V 50HZ/16A	
Temperature Range	RT+10~250°C				
Temperature Stability	$\pm 1^\circ\text{C}$				
Display Resolution	0.1°C				
Vacuum Degree	$\leq 133\text{Pa}$				
Power Consumption	600W	1200W	1400W	2200W	3500W
Interior Dimension (W*D*H mm)	320×320×300	415×365×345	450×450×450	560×600×640	630*810*845
External Dimension (W*D*H mm)	615×450×945	575×510×995	760×590×1085	880×740×1270	1070*950*1600
Volume	30L	50L	90L	210L	431L
Standard Shelves	2pcs		3pcs		4pcs
Tank material	stainless steel				
Timing Range	1~9999min				

### Remark:

1. The technical parameters are tested at the conditions of ambient temperature 20°C, 50%RH, no load, no strong magnetic and no vibration.
2. The picture is for reference only, please refer to the actual goods.

