

真空干燥箱使用 安全注意事项

NO. 035



使用禁忌

1. 严禁先加热后抽真空，避免观察窗爆裂、真空泵损坏。
2. 严禁放入强腐蚀、易燃易爆试剂，以及塑料筐、纸张等易燃物品。
3. 严禁加热非耐压的密封容器。
4. 干燥箱周围严禁堆放杂物，以免影响散热，严禁放置易燃易爆化学品。



使用要点



1. 抽真空步骤：
 - 确保平衡口、真空阀关闭；
 - 先打开真空泵，然后再打开真空阀；
 - 真空度降到所需大小后，务必先关真空阀再关泵，防止泵油倒吸。
2. 结束干燥步骤：温度降低至60℃以下后，缓慢打开平衡口，恢复常压后取出样品。
3. 对粉末样品进行干燥处理时，样品容器应在有效遮挡粉末、防止喷溅或飞扬的前提下，保留足够的通气间隙或孔道，以确保箱内气氛流通。
4. 使用后务必切断电源，并及时清理箱内物品及残留污渍。
5. 干燥箱过夜运行时必须进行过夜实验报备。
6. 设备超温报警时需立即断电，排查故障后再重启。





Safety Precautions for Using a Forced Vacuum Drying Oven

NO. 035

Prohibitions

1. Strictly prohibited to heat first and then evacuate/vacuumize, to avoid cracking of the observation window and damage to the vacuum pump.
2. It is strictly prohibited to place highly corrosive, flammable, or explosive reagents, as well as flammable items such as plastic baskets and paper, inside the oven.
3. It is strictly prohibited to heat non-pressure-bearing sealed containers.
4. Do not stack items around the drying oven as this may affect heat dissipation. Flammable or explosive chemicals are strictly prohibited in the vicinity.

Operating Guidelines

1. Vacuum Evacuation Procedure:
 - Ensure that the balance port and vacuum valve are closed.
 - Turn on the vacuum pump first, and then open the vacuum valve.
 - After the vacuum level reaches the desired value, be sure to close the vacuum valve first, and then turn off the pump, to prevent back flow of pump oil.
2. End of drying procedure: Allow the temperature to cool down to below 60°C, then slowly open the balance port to return to atmospheric pressure, and subsequently remove the sample.
3. For powder sample drying: The sample container shall provide adequate coverage to prevent powder from splashing or becoming airborne during evacuation, while maintaining sufficient ventilation openings to ensure proper air/gas flow within the chamber.
4. After use, be sure to cut off the power supply and promptly clean out any items and residual stains inside the chamber.
5. For overnight operation of the drying oven, prior approval for overnight experimentation is required.
6. When the equipment triggers an over-temperature alarm, the power must be cut off immediately. After troubleshooting the fault, the equipment can be restarted.

