预冷库温湿度控制与热工响应试验 Experiment on the Control of Temperature and Humidity and Thermal Response for Pre-cooling Cold Storage

谭晶莹 王清 安伟科

湖南理工学院

关键词： 预冷库 降温模式 送风方式

摘 要： 对预冷库变频降温与全频降温两种温湿度控制模式进行了试验研究，发现变频降温到目标温度所需时间较长，但降温过程平稳，波幅小。研究了气流分布装置对库内温度场的影响，发现孔板均流方式对库内温度场的影响优于传统的单一风机送风、一拖二和夹套送风方式；对库门开启对库内热环境的冲击进行了分析，并提出了预防措施。 Full-frequency drop in temperature and conversion drop in temperature were compared. The latter had some merits of smooth drop and small amplitude of temperature (in despite of shortage of longer time). Several modes of providing wind ventilation were studied. Flow equalization with a pore plate was better than the traditional methods such as one fan, two fans and a jacket. Heat impact on the circumstance in the cold storage was analyzed considering of the door open and some precautionary measures were introduced.

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