

真空预冷实验装置计算机检测系统 Establishment of the System of Microcomputer Monitoring and Measurement of Vacuum Precooling Equipment

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关键词: 真空预冷 薄膜规 数据采集系统 复迭式制冷系统

摘要: 为了揭示真空预冷机理, 优化真空预冷设备, 需要实时测量真空预冷过程中真空室中的压力、捕水器的温度、果蔬的温度和质量等多个参数的变化。本文简述了自行设计的真空预冷实验装置的组成及设备的数据采集系统。将质量传感器成功地引入真空室, 完成了产品质量在真空预冷过程中的在线监测。 To explore the mechanics of vacuum cooling and optimize vacuum precooling instrument, the real-time measurement of the variation of multi-parameters such as the pressure in the vacuum chamber, temperature of the condenser, temperature and mass of fruits and vegetables during vacuum cooling was necessitated. The self-designed vacuum cooling set up and the data acquisition processing system were presented. It was the weight sensor innovatively taken into the vacuum chamber that realized the online measurement of product quality during vacuum cooling.

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