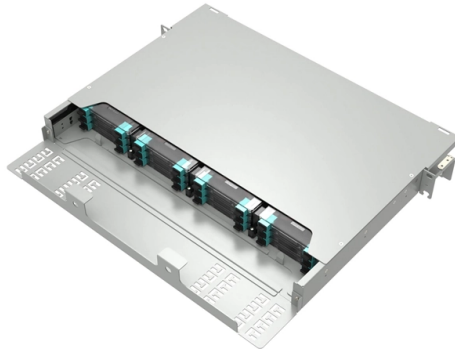


# Temperature and humidity requirements for spectrometers



## Overview

The room temperature should be between 15 and 35 °C (59-95 °F) with a maximum rate of change of 3 °C (5 °F) per hour. A relatively dust-free environment is necessary. Thermo Fisher Scientific recommends. The instrument is designed to be operated in an environment that is rated with a pollution degree of 2. NOTE: If the site is not ready for installation when the Varian Representative arrives, Varian, Inc. Best practices include a proper warm-up and calibration, careful selection. Is the temperature of the room where you keep your spectrophotometer (s) between 21 and 25°C and stable?

If the temperature of your room varies by even four degrees, measuring the same sample on the same instrument may result in a 0.3, requires the control, monitoring and recording of laboratory environmental conditions as required by relevant specifications, methods and procedures, or where they influence the quality of the results.



## Article Content

### Humidity

The relative humidity of the operating environment must be between 20% and 80%, with no condensation. Thermo Fisher Scientific recommends installing a temperature and humidity monitor in ...

### Preparing Your Laboratory for PerkinElmer Atomic Absorption ...

The room temperature should be between 15 and 35 °C (59-95 °F) with a maximum rate of change of 3 °C (5 °F) per hour. The relative humidity should be between 20 and 80%, non-condensing.

### Spectrophotometer Temperature Handling Guide

By understanding the impact of temperature on both the spectrophotometer and the vehicle panel surface being measured, we can ensure the device functions properly and consistently achieves ...

### Preparing your Laboratory for the Optima 7300V and 8300 ICP ...

The instrument will operate with a laboratory temperature between 15 and 35 °C (59-95 °F) with a maximum rate of change of 2.8 °C per hour. For optimum instrument performance, the room ...

### Mastering Your Spectrophotometer|HINOTEK

Temperature and Humidity: For optimal performance, HINOTEK recommends operating your spectrophotometer in an environment with a temperature between 15°C and 35°C (59°F to 95°F) and ...

### Humidity

Thermo Fisher Scientific recommends installing a temperature and humidity monitor in your laboratory to ensure the operating environment is always within the specified temperature and humidity ranges.

### What are the Right Environmental Conditions for My ...

Even in a temperature-controlled room, sunlight can heat up the instrument and lead to inaccurate measurements. We suggest placing your instrument in a windowless room where you have complete ...

### Temperature & Humidity Environmental Controls in a Primary ...

The EPEL is monitored for temperature, humidity, pressure, line quality and radiated RF per the Fluke Park Laboratory's quality manual. This paper is concerned with the temperature and humidity ...

### Varian LC Systems for LC/MS Mass Spectrometers Systems Pre ...

Operating the system at high humidity may create condensation and result in short circuits. Varian recommends using a combination temperature and humidity monitor in your installation site. Check ...

Maintenance and Preventative Care for FTIR Spectrometers in ...

Infrared spectrometers are delicate instruments that require careful handling to prevent damage. When damage occurs such that the instrument can no longer function normally, costly and lengthy repairs ...

PerkinElmer Lambda Series Getting Started Manual

High-Performance Lambda Spectrometers Getting Started Guide General Operating Conditions Only use the high-performance Lambda spectrometer indoors and under the following conditions: ...

Standard Operating Procedure (SOP)

Describe special handling and storage requirements for hazardous chemicals/gases in the laboratory, especially for highly reactive, unstable and highly flammable materials and corrosives.

## Contact Us

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