Maintenance Schedule for the Summit Spectrometer

Your Thermo Scientific™ Nicolet™ Summit FTIR Spectrometer requires little upkeep and no daily maintenance. However, basic care will ensure continued peak performance. Follow the guidelines in this article. For best performance, leave the spectrometer powered on.

NOTICE Static electricity can permanently damage critical components in your spectrometer. To help prevent such damage, follow these recommendations:

- Before you disconnect the power supply, discharge any static electricity you may have accumulated by touching the spectrometer's metal base.
- Leave replacement parts in their protective packaging until you are ready to install them in the instrument.

Weekly Maintenance

Verify the Spectrometer Performance

The OMNIC Paradigm software includes qualification and performance verification (PV) workflows for your Summit spectrometer. The qualification workflows are standard industry-wide qualification tests you most likely recognize (for example, European Pharmacopoeia, Japanese Pharmacopoeia, etc.). The PV workflow runs a series of standard tests to verify instrument operation and ensure the accuracy of your data. Any required reference standards are supplied inside the instrument and controlled by the OMNIC Paradigm software.

We recommend that you run the PV workflow or your preferred qualification workflow at least once a week. For more information, see the article titled "Qualify Your Summit Spectrometer" in the online help.

Clean the Spectrometer

The spectrometer and touchscreen can be cleaned only as recommended. See the article titled "Clean the Spectrometer and Touchscreen" in the online help for details.

Monthly Maintenance

Check the Humidity Indicator

The spectrometer's optical components can be easily damaged by excessive moisture in the air. The spectrometer is sealed and its components are protected by two desiccant canisters that absorb moisture. A humidity indicator located here monitors the humidity level inside the spectrometer.

Figure 1. Location of Humidity Indicator

Check the humidity indicator at least once a month and change the desiccant cannisters when needed (see the table below), or purchase and install a purge kit. See the article titled "Install and Maintain a Purge Kit" for more information.

Table 1. Humidity Indicator States and Recommendations

Humidity Indicator State	Meaning	Action
Blue	Desiccant is fully charged	none
Light blue	Desiccant is becoming saturated with moisture and no longer providing sufficient protection	Replace the desiccant
Pink or white	Desiccant has expired	Replace the desiccant and the humidity indicator

For more information, see the article titled "Replace the Desiccant" in the online help.

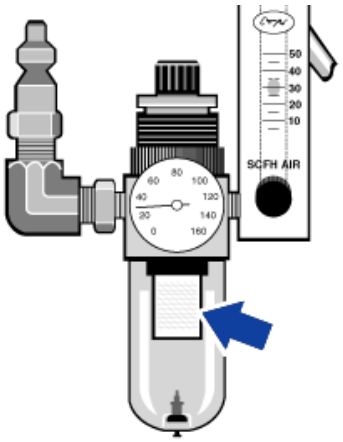
NOTICE We recommend that you keep the spectrometer sealed and desiccated, or sealed and purged with dry air or nitrogen, at all times. Equipment damage due to failure to maintain seal and desiccation and/or purge is not covered under the warranty. If you have questions about this requirement, please contact us.

Check the Purge Gas Filter

If your Summit spectrometer is purged with nitrogen or dry air, check the purge filter at least once a month.

Replace the filter when it is yellow, or otherwise discolored, or if it is contaminated with debris or foreign particles. For more information, see the section "Checking and Changing the Purge Gas Filter" in the article titled "Install and Maintain a Purge Kit" in the online help.

Figure 2. The purge filter is located inside of the plastic bowl below the pressure gauge



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