

## Thermo Nicolet FT-IR Large and Small Bench Power Up and Power Down Procedure

### Turning on the system components:

We recommend that you keep your spectrometer on at all times unless the building is subject to power outages or you need to perform a service or maintenance procedure. Leaving the system on keeps it stable and gives you the most consistent results. If you must turn the spectrometer off, allow it to stabilize for at least 15 minutes (one hour for best results) before collecting spectra

Follow these steps to turn on the system components:

Step 1. If the external power supply is not already connected connect it to the AC outlet.

Step 2. If a purge option is available turn on the gas and set pressure regulator and flowmeter to appropriate setting found in the instrument's user and/or site and Safety guide

Step 3. Check that desiccant button is Blue (good): If your spectrometer is sealed and desiccated, a bag or cartridge is located in the instrument. The desiccant protects the beamsplitter and optical components by reducing the amount of water vapor inside the spectrometer. See "Checking and changing the Desiccant" in the "Maintaining your spectrometer" section of the user guide.

Step 4. Turn on any accessory you plan to use. This includes accessories such as a gas chromatograph, a GC, TGA interface or an infrared microscope.

Always follow the safety precautions described in the user manual and the Spectrometers Site and Safety Guide that came with your system

Step 5. Turn on the spectrometer by pressing the power switch (I/O) on the external power supply to I

Step 6. Turn on the printer and then the computer.

Step 7. Start Omnic Software

### Turning off the system components:

Step 1. Exit out of the Omnic software

Step 2. If a purge option is available turn off the gas.

Step 3. If the instrument is going to be off for an extended period of time install new desiccant. See "Checking and changing the Desiccant" in the "Maintaining your spectrometer" section of the user guide.

Step 4. Turn off the printer and then the computer

Step 5. Turn off the spectrometer by pressing the power switch (I/O) on the external power supply to O

Step 6. Turn off any accessory you plan to use. This includes accessories such as a gas chromatograph, a GC, TGA interface or an infrared microscope.

Step 7. Disconnect the power supply for the AC outlet

**For best protection when the power is turned off:**

- Add fresh desiccant and change the humidity indicator to a fresh dark blue. Customer should be able to do this, the instructions are in OMNIC help menu, maintaining your spectrometer. *Desiccant replacement kits have different part numbers for each model. **Consult the FTIR parts list.***
- Maintain LN2 purge connection and flow rates if a purge is installed.

**For best protection when the power is turned off and no purge is available:**

1. Add fresh desiccant and change the humidity indicator to a fresh dark blue. Customer should be able to do this, the instructions are in OMNIC help menu, maintaining your spectrometer. *Desiccant replacement kits have different part numbers for each model. **Consult the FTIR parts list.***
2. Turn the power off and disconnect the power supply and USB cable from the rear panel.
3. Place the system inside a large thick (6 mils thick) Polyethylene bag and seal the excessive end of the bag by twisting it round and round. Then wrap the twisted end with rugged tape to seal the bag. Note: Do not simply fold over the bag end like a present and tape like a Christmas present. This is a poor seal.