

Installing Thermo TSQ 8000 1.1 SP1 Software

Before installing the Thermo TSQ 8000 1.1 SP1 software, ensure that your system is running the following Thermo Foundation/Xcalibur configuration:

- Foundation 2.0 SP1 and Xcalibur 2.2 SP1

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Introduction

Thermo TSQ 8000 1.1 SP1 includes the driver and software for the Thermo Scientific TSQ 8000 triple quadrupole GC-mass spectrometer.

TSQ 8000 1.1 SP1 is one component of the software and driver set you need in order to operate a TSQ 8000™ GC-MS system.

Your TSQ 8000 GC-MS arrived from the factory with software already installed. If you need to reinstall or upgrade the TSQ 8000 control software, follow the steps in this document.

This program installs the following components for use with the TSQ 8000 GC-MS.

- TSQ 8000 Instrument Method Editor
- TSQ 8000 Dashboard
- TSQ 8000 User Documentation and Manuals

Note You must have administrative privileges on the computer being loaded with the new software.

System Requirements

TSQ 8000 1.1 SP1 requires the following software to be loaded on your data system (PC) to operate properly.

System	Requirements
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- | | |
|----------|---|
| Software | <ul style="list-style-type: none">• Microsoft™ Windows™ 7 Professional (32-bit) Service Pack 1, or• Microsoft Windows 7 Professional (64-bit)• Microsoft Office™ 2010 |
|----------|---|

4GB of RAM are recommended if you are routinely performing full-scan acquisitions.

Important Information

To install TSQ 8000 1.1 SP1 on a new data system (PC), you must configure the Ethernet port to ensure proper communication and remove the firewall. In addition, you must modify power settings on the data system to ensure that the system does not go into hibernation or sleep mode, which will disconnect the PC from the TSQ 8000 GC-MS system. Finally, it is important to set any virus scan software to exclude the following folders from scanning:

C:\Program Files\Thermo

C:\Thermo

C:\Xcalibur

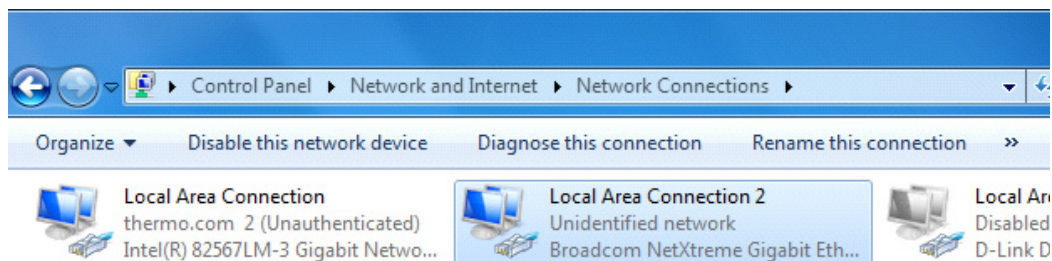
Instructions for making the appropriate changes are given below for Windows 7 operating systems.

Windows 7 Configuration

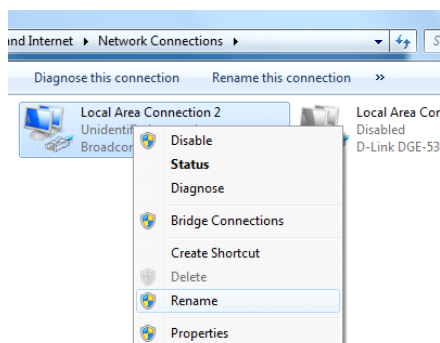
Configure the Ethernet Port and Change Firewall Settings

Note The TSQ 8000 mass spectrometer **must** be connected to the data system (PC) using the communication cable that ships with the system. No other Ethernet cables are supported, and failure to use the supplied cable will result in problems with operation.

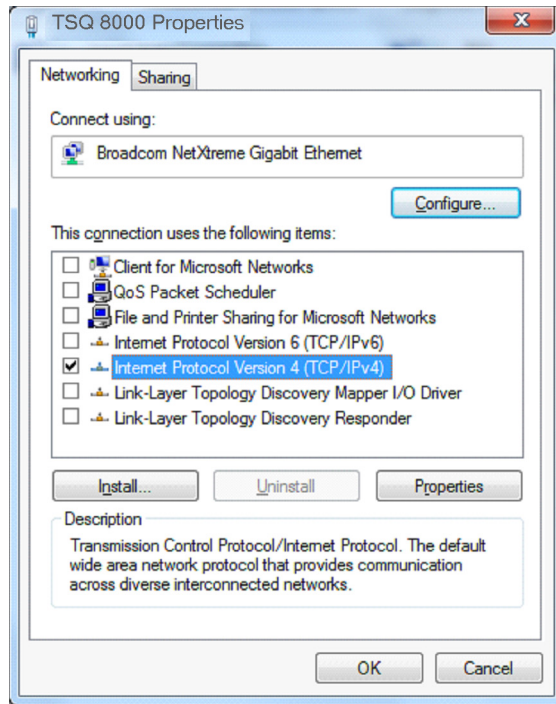
1. Turn on the computer and allow it to complete its boot processes.
2. Select **Start | Control Panel | Network and Internet | Network and Sharing Center** to open the Network Connections window.



3. Configure the network card that will connect to the TSQ 8000 mass spectrometer:
 - a. Right-click on the card and select **Rename** to rename this connection. Rename it as **TSQ 8000**.



- b. Right-click on the **TSQ 8000** connection and select **Properties** to set the IP address.
- c. Disable all the protocols, except the Internet Protocol (TCP/IP) **Version 4**, by un-checking the boxes.

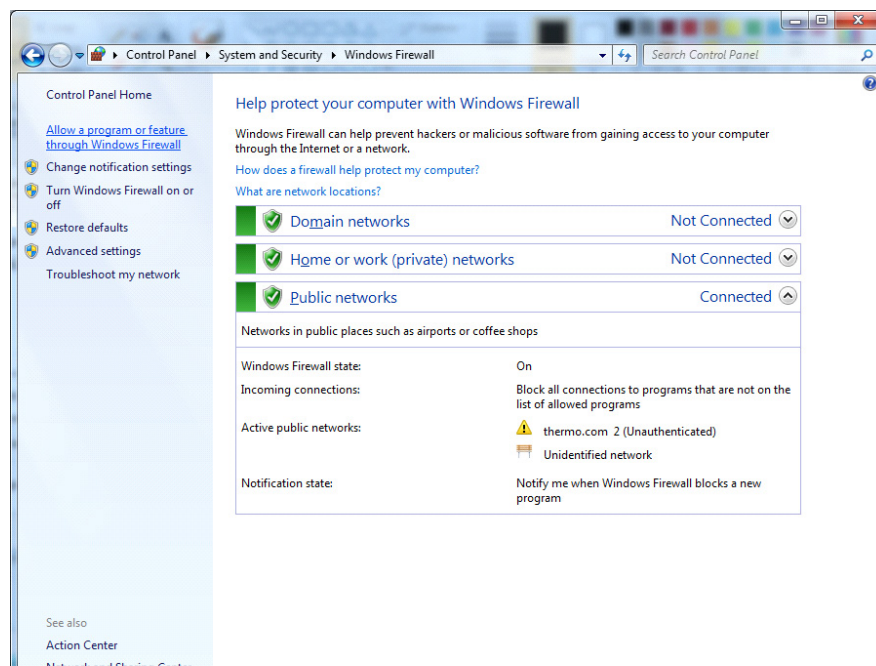


- d. Click on the **Internet Protocol (TCP/IP)** line to highlight it, and then select **Properties**.
- e. Set the IP address of the TSQ 8000 MS by choosing the **Use the Following IP Address** radio button.

Note The IP address can be anything between 192.168.1.1 and 192.168.1.254, except for 192.168.1.234, which is the default address used on the TSQ 8000.

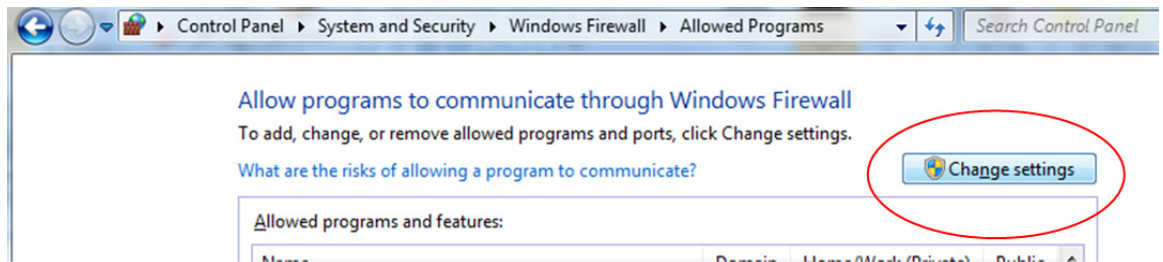
- f. Click **OK** to confirm, and click **OK** to save the changes and close the window for the TSQ 8000 connection properties.

1. To change Windows Firewall Settings select **Start | Control Panel | System and Security | Windows Firewall**.

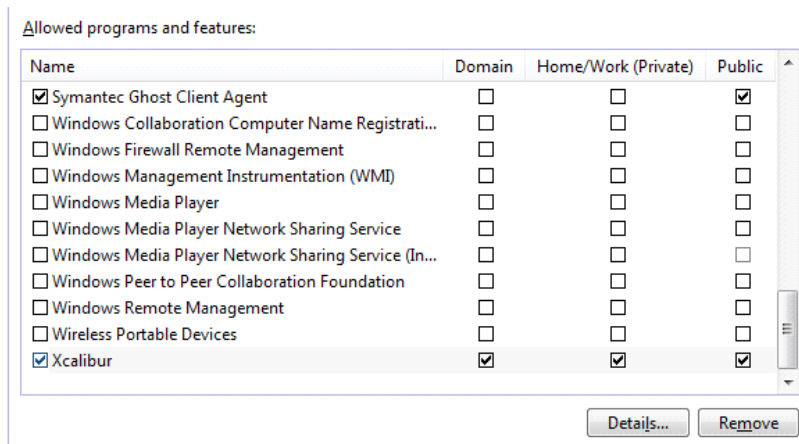


Change Firewall Settings

2. Select **Allow a Program or Feature Through Windows Firewall**.
3. Depending on the User Account Control settings, you may need to select **Change Settings** to edit the firewall settings.



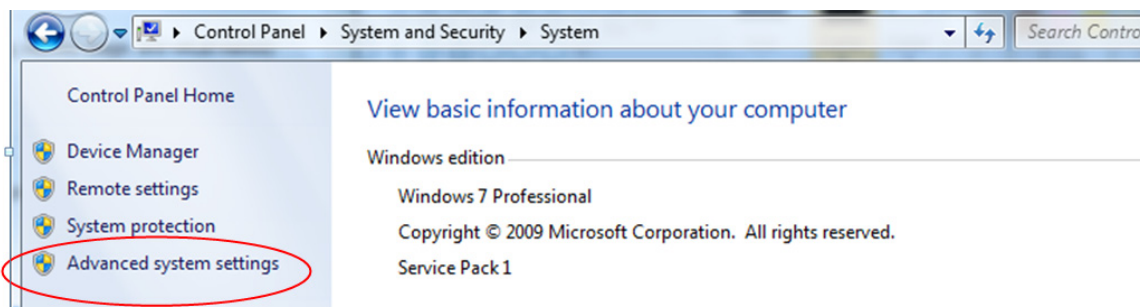
4. Scroll through the list to select **Xcalibur**. Under the domain selection, click the checkbox as show below.



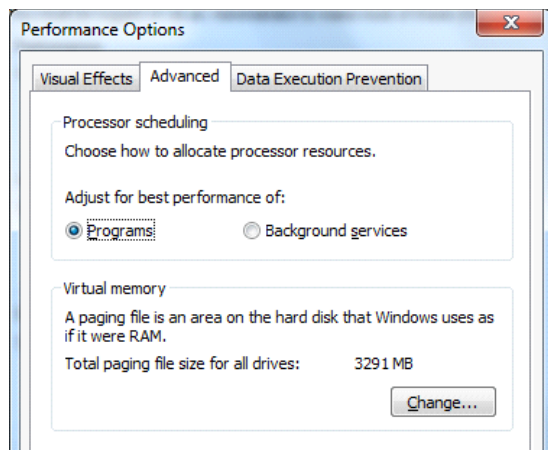
5. Click **OK** to confirm the firewall changes
6. Close the control panel.

Change the System Memory Settings

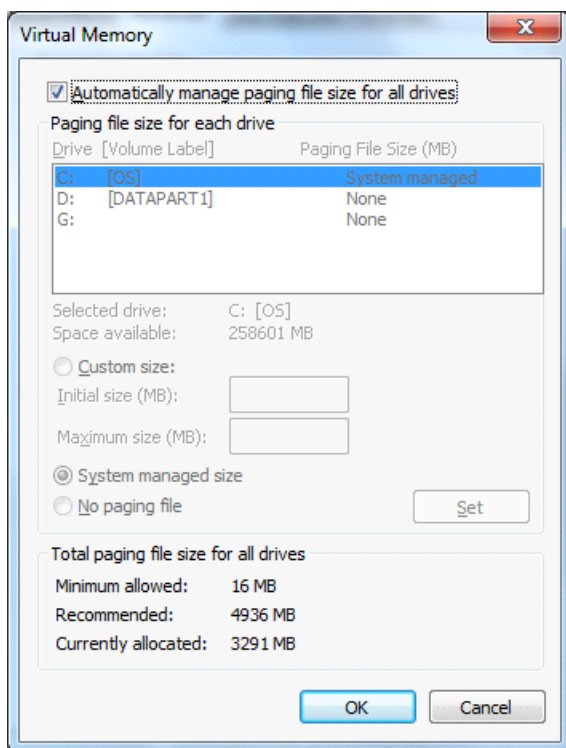
1. Go to **Start | Control Panel | System and Security | System**, then select **Advanced System Settings**.



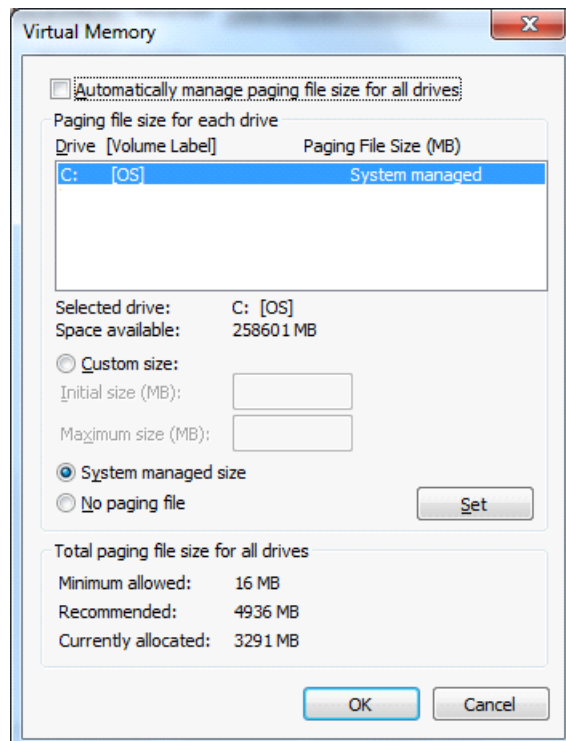
2. A new window opens. Select the **Advanced** tab, then select the **Settings** button in the **Performance** section. This opens the **Performance Options** window.



3. In the **Performance Options** window, select the **Advanced** tab.
4. Under **Virtual Memory**, select **Change**. This brings up a popup window that allows you to change the virtual memory settings.



5. De-select **Automatically Manage Paging File Size for All Drives** by un-checking the checkbox.

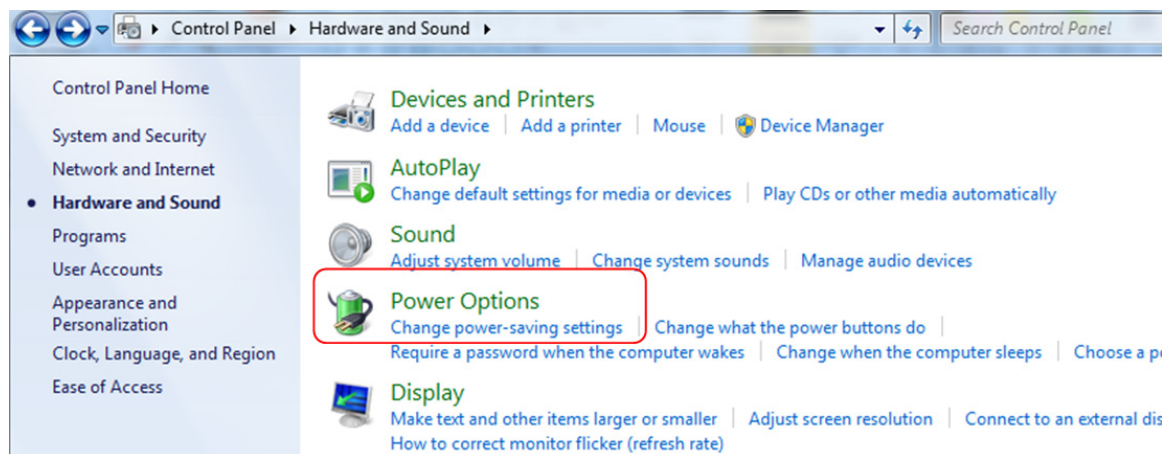


6. Confirm that **System Managed Size** is selected, then click **OK** to close, then click **OK** again to close the **Performance Options** window.

Note You will need to restart the data system for this change to take effect.

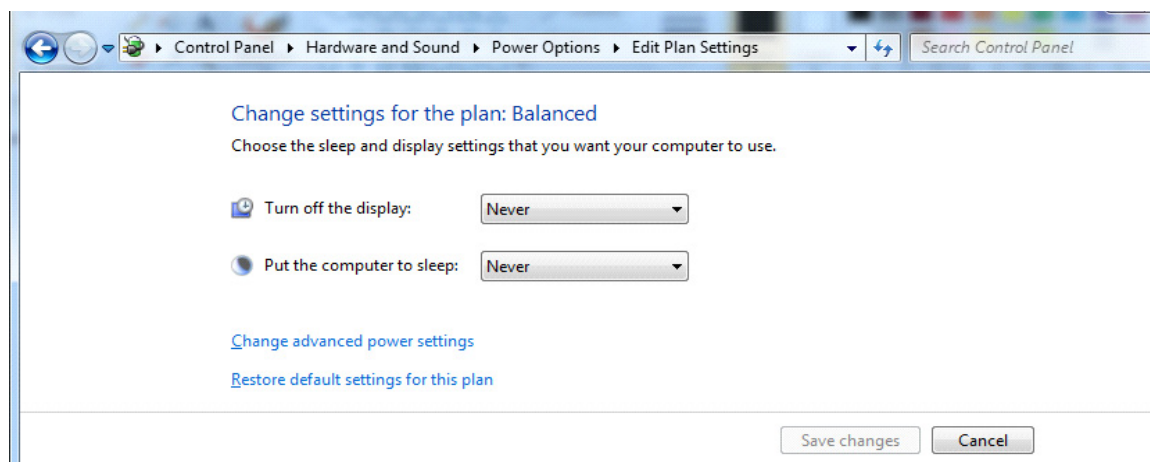
Change the System Power Settings

1. Under **Start | Control Panel | Hardware and Sound | Power Options**, select **Change Power-saving Settings**.



2. Select the **Balanced Plan** radio button, then click **Change Plan Settings**.
3. Change **Turn Off the Display** to **Never** and **Put the Computer to Sleep** to **Never**, then select **Save Changes** to apply these power plan settings.

New Installations



Note These power settings must be changed for any new users who are added to the system. Only an administrator is allowed to change these settings.

To install TSQ 8000 1.1 SP1 for the first time:

1. Ensure that your data system (PC) meets the system requirements above. Layered software applications may have different requirements. Please refer to applicable documentation for details.
2. Verify that Foundation, Xcalibur, and any required service packs or quick fixes for Xcalibur have been installed. Confirm that GC Devices 2.2 has been installed for operation of the GC and/or autosampler.
3. Insert the TSQ 8000 1.1 SP1 CD into your computer's CD/DVD-ROM drive. If Auto-Play is enabled, the Xinstall menu will open. If Auto-Play is not enabled or if the Xinstall menu does not appear automatically after inserting the CD, double-click on the CD drive icon to begin the Xinstall program.
4. Install TSQ 8000 1.1 SP1 software by clicking the **TSQ 8000 1.1 SP1** button. Follow the steps to install the software.

Note For important information regarding this release, refer to the release notes for TSQ 8000 1.1 SP1 by selecting the **Read Me** button.

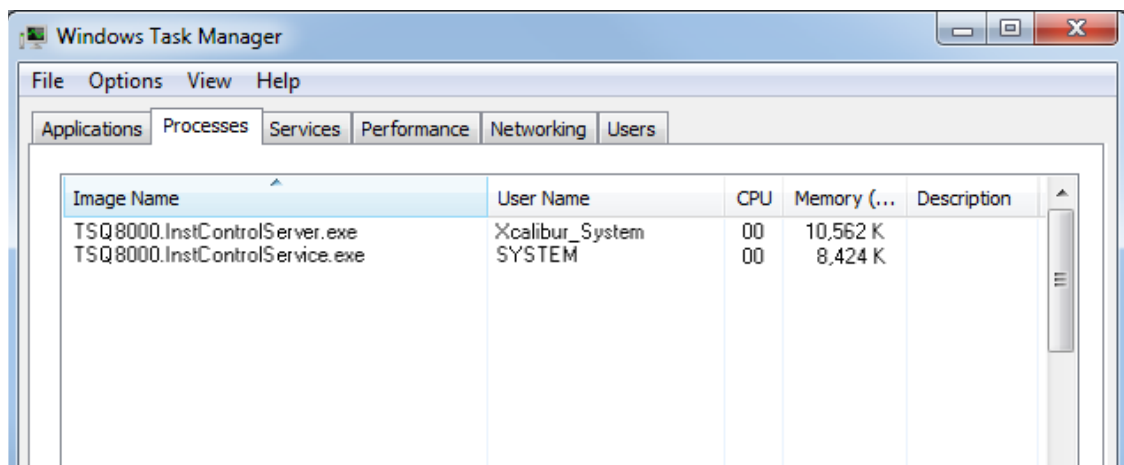
5. To install the TSQ 8000 user manuals, click the **TSQ 8000 Manuals Install** button. The manuals will be installed as PDF files along with the software components for the TSQ 8000. These manuals are found under **Start | All Programs | Thermo Instruments | Manuals | TSQ 8000**. You may also reference the PDF files on the TSQ 8000 1.1 SP1 software CD by selecting **TSQ 8000 Manuals**.
6. After installation, an installation qualification (IQ) report will be automatically generated.
7. Configure your TSQ 8000 GC-MS through **Start | All Programs | Thermo Foundation 2.0 | Instrument Configuration**. See the user manuals for more information.

To reinstall the TSQ 8000 1.1 SP1 software or to upgrade you TSQ 8000 system to TSQ 8000 1.1 SP1:

1. Ensure that your data system (PC) meets the system requirements above. Layered software applications may have different requirements. Please refer to applicable documentation for details.
2. Open Instrument Configuration.
3. Under Configured Devices, click **TSQ 8000**, then click **Remove**. Select **Done** to close Instrument Configuration.
4. Select **Start | Control Panel | Uninstall Program** to uninstall the previous TSQ 8000 installation.
5. Under the list of currently installed programs, locate the Thermo TSQ 8000 program and click on it. Click **Uninstall**.
6. The TSQ 8000 driver will be uninstalled automatically, and an IQ report will be generated. Review the IQ report to confirm the success of the uninstall process.

System Upgrades

- Open the Task Manager, select the **Processes** tab, and click on **Image Name** to sort the processes alphabetically. Verify that the following processes are **not** in the list:



- Complete the Foundation and Xcalibur installation according to the Installation instructions included on the Xcalibur 2.2 SP1 and Foundation 2.0 GC-MS Core Components CD provided with your instrument. Verify that all service packs and quick fixes have been installed. Verify that GC Devices 2.2 has been installed for operation of the GC and/or autosampler.
- Insert the Thermo TSQ 8000 1.1 SP1 CD into your computer's CD/DVD-ROM drive. If Auto-Play is enabled, the Xinstall menu will open. If Auto-Play is not enabled or if the Xinstall menu does not appear automatically after inserting the CD, double-click on the CD drive icon to begin the Xinstall program.
- Install TSQ 8000 1.1 SP1 software by clicking the **TSQ 8000 1.1 SP1** button. Follow the steps to install the software.

Note For important information regarding this release, refer to the release notes for TSQ 8000 1.1 SP1 by selecting the **Read Me** button.

- The TSQ 8000 user manuals are automatically installed as PDF files along with the software components for the TSQ 8000. These manuals are found under **Start | All Programs | Thermo Instruments | Manuals | TSQ 8000**. You may also reference the PDF files on the TSQ 8000 software CD by selecting **TSQ 8000 Manuals**.
- After installation, an installation qualification (IQ) report will be automatically generated. Review and confirm as needed.
- Configure your TSQ 8000 system through **Start | All Programs | Thermo Foundation 2.0 | Instrument Configuration**.
- Select the TSQ 8000 icon in the Available Devices column and click **Add** to move it into the Configured Devices column. Click **Done** to close Instrument Configuration. See the user manuals for more information about configuring your TSQ 8000 instrument.

Trademarks

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