Thermo Scientific Sales Order Number: _____

Customer Purchase Order Number: _____

Preinstallation form

IMPORTANT: We cannot schedule the system installation until we receive this completed form.

WARNING

The DXR3 Flex Spectrometer is a Class 3B laser device. When powered on, all laser safety precautions must be taken. Class 3B laser radiation is hazardous and can cause permanent eye damage. Class 3B instruments should always be operated in a laser safety area. All people using or near a Class 3B instrument should wear appropriate laser safety eyewear and be aware of the potential hazards.

See the DXR3 Flex Raman Spectrometer site and safety guide for more information about using your spectrometer safely.

Successful installation of your system requires that your site be prepared as specified in the site and safety guide. Before the system arrives, do the following:

- Read the Site and Safety manual for information on preparing your installation site
- Review the computer requirements for the system
- Enter your customer order number (found on your copy of the instrument order) on the line above
- Complete the form below
- Return this completed form to us

Check each of the following requirements. Please supply more information where requested.

Delivery, unpacking, and installation

☐ The location is set up as a Class 3B Laser Control Area as required in the DXR3 Flex Raman Spectrometer Site and Safety Guide.

- ☐ The laser control area access door or curtain has a close switch that can be connected to the instrument interlock.
- ☐ Appropriate personal protective equipment for Class 3B laser is available.
- ☐ All operators have been trained for using Class 3B laser equipment and using a Class 3B laser control area.

☐ The installation location is easily accessible to service personnel with adequate clearance around the system.

☐ A representative will be present to help the Thermo Fisher Scientific installer move the spectrometer from the shipping crate to the workspace.

The system requires two people to safely move and weighs more than 22.6 kg (50 lbs.).

☐ There is adequate space near the workspace to unpack the shipping crate.

During installation, the installer will unpack the system components and confirm that all parts are present. The installer requires a cart or other table space to unpack the components.

☐ Operators will be available and ready for instrument orientation and training.

☐ Are any special training certifications, equipment, or physical requirements needed for your site? If yes, please list the requirements here:

Environmental considerations

☐ There is no static-producing carpet

☐ There are no windows nearby

☐ The temperature stays between 16° C and 27° C (60° F and 80° F)

☐ The humidity (non-condensing) is between 20% and 80%

☐ The location will not expose the system to excessive dust or airborne particulate matter.

☐ There are no floor vibrations from air conditioners, motors, etc.

We recommend that you install the instrument in an environment that corresponds to ASHRAE Class D vibration levels.

☐ There are no intense magnetic fields nearby

Utility requirements

☐ A dedicated power line is available. Preferably a surge-protected power strip to plug in the system, accessories, PC, and monitor all together to minimize electrical noise.

☐ There is sufficient power to run the system and all accessories.

- Input current: 10.0 A (max)
- Input voltage: 100 to 240 VAC
- Line frequency: 47 to 63 Hz
- Line disturbances: Sags, surges or other line disturbances must not exceed 10% of input voltage (even for a half cycle)
- Noise
    - < 2 V (common mode)
    - < 20 V (normal mode)

☐ There is a definite earth ground (not neutral) for power outlets.

Workspace requirements

☐ There is adequate space for the spectrometer as well as for a computer, monitor, and keyboard.

Table width: _____

Table depth (front to back): _____

☐ The tabletop is flat, level, and can support the weight of the system. The table must not tilt or flex.

- Spectrometer weight: 24.04 kg (53 lbs.)
- Laser, filter, and grating combined weight: 2.72 kg (6 lbs.)
- Dimensions:
    - Length: 433 mm
    - Width: 288 mm
    - Height: 350 mm

☐ Table height is convenient for use of the instrument and accessories.

☐ There is adequate clearance around and above the system. A standard table depth of 76 cm (30 in) will accommodate the instrument. You will also need extra space for a computer system and optionally a printer.

☐ There is adequate space around the instrument for cool airflow.

☐ If you supply your own computer, it meets the minimum specified requirements.

I, the undersigned, confirm that the site requirements stated above have been met and the site is prepared for installing the system. I understand that I may be liable for a field service representative's travel and lodging expense if the installation cannot be completed on the scheduled date due to insufficient site preparation. In such a case, Thermo Fisher Scientific would try to reschedule the installation as soon as possible, but existing commitments could delay our return to your site.

Primary contact:	Phone:
Company name:	Email address:
Date:	Signature

After we receive this completed form, your local field service representative will contact you to schedule the installation.

269-361800 A
February 2023